DAEDALUS

MILTON FIRE STATION PROJECTS

PROJECT BUDGET - CONSTRUCTION PHASE

2/17/2021

		Headquarters	Atherton	East Milton	
1	**Later Design thru Construction**				
2	**Administration**				
3	Legal Fees/Advertising	$10,000	$5,000	$5,000	$20,000
4	OPM Fees				
5	Construction (HQ 24 mo, Atherton 14 mo, East 12 mo)	$612,000	$357,000	$306,000	$1,275,000
6	Closeout	incl	incl	incl	$0
7	Cost Estimates	incl	incl	incl	$0
8	Permits	waived	waived	waived	$0
9	Builders Risk Insurance	$16,500	$8,000	$5,000	$29,500
10	Other Administrative Costs	$2,000	$2,000	$2,000	$6,000
11	***Subtotal***	**$640,500**	**$372,000**	**$318,000**	**$1,330,500**
12					
13	**Architecture and Engineering**				
14	Basic Services				
15	Construction (HQ 24 mo, Atherton 14 mo, East 12 mo)	$528,000	$266,000	$210,000	$1,004,000
16	Extra and Reimbursable Services				
17	Geotechnical (CA services)	$21,000	$18,000	$18,000	$57,000
18	***Subtotal***	**$549,000**	**$284,000**	**$228,000**	**$1,061,000**
19					
20	**Construction Costs**				
21	New Construction (includes Hazardous Abatement)	$12,000,000	$6,000,000	$3,800,000	$21,800,000
22	Accepted Alternates	$470,000	$250,000	$250,000	$970,000
23	DD Design Contingency	$582,000	$445,000	$285,000	$1,312,000
24	***Subtotal***	**$13,052,000**	**$6,695,000**	**$4,335,000**	**$24,082,000**
26					
27	**Miscellaneous Project Costs**				
28	Printing & Mailing Costs	$6,000	$5,000	$5,000	$16,000
29	Moving Costs	$20,000	$20,000	$20,000	$60,000
30	Temporary Facilities Cost	$0	$400,000	$0	$400,000
31	Hazardous Material Removal Monitoring	$25,000	$20,000	$0	$45,000
32	Utility Backcharges	$30,000	$30,000	$30,000	$90,000
33	Signalization / Traffic Control	excluded	excluded	$800,000	$800,000
34	Construction Testing	$40,000	$35,000	$30,000	$105,000
35	***Subtotal***	**$121,000**	**$510,000**	**$885,000**	**$1,516,000**
36					
37	**Furnishings and Equipment**				
38	Furnishings and Fixtures	$185,000	$41,000	$28,000	$254,000
39	Equipment	$91,500	$61,000	$41,000	$193,500
40	Fitness Equipment	$36,000	$36,000	$36,000	$108,000
41	Computers, AV & Phone	$30,000	$7,500	$7,500	$45,000
42	Security	$95,000	$50,000	$50,000	$195,000
43	Communications Equipment	$50,000	$40,000	$30,000	$120,000
44	Station Alerting System	$40,000	$32,000	$23,000	$95,000
45	Vehicle Exhaust System	in construction	in construction	in construction	$0
46	Municipal Alerting System	tbd			$0
47	***Subtotal***	**$527,500**	**$267,500**	**$215,500**	**$1,010,500**
48					
49	**Subtotal**	**$14,890,000**	**$8,128,500**	**$5,981,500**	**$29,000,000**
50					
51	**Contingency**				
52	*Owner's Project Contingency (6%)*	$783,000	$402,000	$260,000	$1,445,000
53					
54	**Project Budget (Unescalated) - Construction Phase**	**$15,673,000**	**$8,530,500**	**$6,241,500**	**$30,445,000**
55	Construction Start Fall 2021				
56					
57	Escalation to Construction Start Spring 2022 (+3%)	**$16,150,000**			
59	Escalation to Construction Start Summer 2024 (+6%)		**$9,100,000**		
60	Escalation to Construction Start Fall 2025 (+12%)			**$7,000,000**	
	Project Budget (Escalated) - Construction Phase				**$32,250,000**

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"Construction Cost Consultants"

Milton Fire Headquarters
Milton, MA

December 16, 2019

GRAND SUMMARY

NEW BUILDING AND SITEWORK		$8,598,805
HAZARDOUS MATERIALS ABATEMENT *W/RENOVATION ALTERNATE*		

TOTAL DIRECT COST		$8,598,805
GENERAL CONDITIONS	6%	$515,928
GENERAL ADMINISTRATIVE O&P	5%	$455,737
P&P BOND AND INSURANCE	1.85%	$177,054
PERMIT WAIVED	0%	$0
DESIGN CONTINGENCY	7.5%	$731,064
ESCALATION (spring 2021)	6.0%	$628,715

TOTAL CONSTRUCTION COST		$11,107,303
COST PER SF		$557.54

ALTERNATES:

ALTERNATE NO. 1 - RENOVATION OF EXISTING 1ST FLOOR HEADQUARTERS BUILDING	$1,008,338
ALTERNATE NO. 2 - DEDUCT CUT AND POINT	($113,787)

EXCLUDES :
1. FF&E
2. IT & AV EQUIPMENT INSTALLATION. AV CABLING
3. PUBLIC SAFETY ALERTING/COMMUNICATION SYSTEM
4. COMMUNICATION EQUIPMENT & INSTALLATION
5. CATV EQUIPMENT & INSTALLATION

PROJECT:	Milton Fire Headquarters	NO. OF SQ. FT.:	19,922
LOCATION:	Milton, MA	COST PER SQ. FT.:	431.62
CLIENT:	Context Architecture		
DATE:	16-Dec-19	*Scaled GSF excludes Lofts 2176 GSF	

No. 19033

NEW FIRE STATION

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 02 - EXISTING CONDITIONS			
022820 HAZARDOUS MATERIAL REMEDIATION	0	0%	0.00
024116 DEMOLITION	227,645	3%	11.43
DIVISION 03 - CONCRETE			
033000 CAST IN PLACE CONCRETE	419,754	5%	21.07
DIVISION 04 - MASONRY			
042000 UNIT MASONRY*	443,763	5%	22.27
DIVISION 05 - METALS			
051200 STRUCTURAL STEEL	378,560	4%	19.00
053000 METAL DECKING	29,394	0%	1.48
054100 EXTERIOR METAL FRAMING & SHEATHING	0	0%	0.00
055000 METAL FABRICATIONS	254,683	3%	12.78
DIVISION 06 - WOOD, PLASTICS & COMPOSITES			
061000 ROUGH CARPENTRY	613,664	7%	30.80
062000 FINISH CARPENTRY	193,112	2%	9.69
DIVISION 07 - THERMAL & MOISTURE PROTECTION			
071001 DAMPPROOF., WATERPROOF. & SEALANT*	41,016	0%	2.06
070002 ROOFING & FLASHING*	429,873	5%	21.58
072100 THERMAL INSULATION	38,611	0%	1.94
072500 WEATHER BARRIER,VAPOR RETARDERS & AIR BA	126,639	1%	6.36
074000 EXT SIDING & TRIM	473,552	6%	23.77
077000 ROOF ACCESSORIES	15,200	0%	0.76
078400 FIRESTOPPING	7,500	0%	0.38
DIVISION 08 - OPENINGS			
080008 GLASS AND GLAZING*	21,840	0%	1.10
081113 HOLLOW METAL DOORS AND FRAMES	42,775	0%	2.15
081416 FLUSH WOOD DOORS	29,430	0%	1.48
083100 ACCESS DOORS AND PANELS	7,200	0%	0.36
083613 SECTIONAL OVERHEAD DOORS	108,000	1%	5.42
084000 ALUM ENTRANCES & STOREFRONTS	297,035	3%	14.91
085414 WINDOWS	48,640	1%	2.44
085800 ALUM INTERIOR SLIDING WINDOW	5,200	0%	0.26
087100 DOOR HARDWARE	64,600	1%	3.24
089000 ARCHITECTURAL LOUVERS & VENTS	1,100	0%	0.06

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 09 - FINISHES			
090003 TILING, CERAMIC & STONE *	76,150	1%	3.82
090006 RESILIENT FLOORING*	76,746	1%	3.85
090009 PAINTING*	91,557	1%	4.60
092900 GYPSUM WALLBOARD ASSEMBLIES	247,830	3%	12.44
095100 ACOUSTICAL CEILING SYSTEMS*	44,967	1%	2.26
096723 SEAMLESS EPOXY FLOORING	135,399	2%	6.80
096810 CARPET TILE*	22,946	0%	1.15
DIVISION 10 - SPECIALTIES			
101100 VISUAL DISPLAY SURFACES	3,000	0%	0.15
101400 SIGNAGE	20,825	0%	1.05
102800 TOILET ACCESSORIES	10,245	0%	0.51
104400 SAFETY SPECIALTIES	3,450	0%	0.17
109000 MISC. SPECIALTIES	91,200	1%	4.58
DIVISION 11 - EQUIPMENT			
119000 MISC. EQUIPMENT	47,000	1%	2.36
DIVISION 12 - FURNISHINGS			
122400 INTERIOR ROLLER SHADES	6,585	0%	0.33
DIVISION 13 - SPECIAL CONSTRUCTION			
DIVISION 13 - SPECIAL CONSTRUCTION	0	0%	0.00
DIVISION 14 - CONVEYING EQUIPMENT			
142000 ELEVATOR*	0	0%	0.00
DIVISION 21 - FIRE SUPPRESSION			
210000 FIRE PROTECTION*	183,690	2%	9.22
DIVISION 22 - PLUMBING			
220000 PLUMBING*	484,768	6%	24.33
DIVISION 23 - HVAC			
230000 HVAC*	978,700	11%	49.13
DIVISION 26 - ELECTRICAL			
260000 ELECTRICAL	942,890	11%	47.33
DIVISION 31 - EARTHWORK			
310000 EARTHWORK	99,154	1%	4.98
311000 SITE CLEARING	109,045	1%	5.47

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 32 - EXTERIOR IMPROVEMENTS			
321000 PAVING SIDEWALKS AND CURBING	274,610	3%	13.78
323000 SITE IMPROVEMENTS	44,160	1%	2.22
328000 IRRIGATION	0	0%	0.00
329000 LANDSCAPING WORK	86,648	1%	4.35
DIVISION 33 - UTILITIES			
330000 UTILITIES	198,457	2%	9.96

DIRECT COST	8,598,805	100%	431.62

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 02 - EXISTING CONDITIONS				
022820 HAZARDOUS MATERIAL REMEDIATION	W/RENOVATION			

				0
024116 DEMOLITION				
Hazardous mat removal	1	LS	158,640.00	158,640
Building Removal Phase 1(Non Haz Mat):				
N Entry kitchen & fitness wing	942	GSF	10.00	9,420
Partial basement @ N Entry wing	W/Garage Wing			
Phase 1 Concrete:				
Foundation wall infill		NIC		
Phase 1 Earthwork:				
10'H Partial basement fill	305	CY	55.00	16,775
Building Removal Phase 3(Non Haz Mat):				
Garage wing	2,014	GSF	10.00	20,140
Basement @ Garage/kitchen wing	2,267	GSF	10.00	22,670

				227,645
DIVISION 03 - CONCRETE				
033000 CAST IN PLACE CONCRETE				
Column Footing (25 ea):				
3,500 psi, NW, (incl. placement)	25	CY	210.00	5,250
Formwork	514	SFCA	6.50	3,341
Rebar	1,875	LBS	1.18	2,213
**unit cost $432.14*				
Typ. Ext Wall Footing (3'x 1' x 580 lf):				
3,500 psi, NW, (incl. placement)	64.5	CY	185.00	11,933
Formwork	1,160	SFCA	6.25	7,250
Rebar	3,225	LBS	1.18	3,806
**unit cost $356.40*				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
STA. Ext Frost Wall (16" x 4' H x 231 lf):				
3,500 psi, NW, (incl. placement)	45.5	CY	205.00	9,328
Formwork	1,848	SFCA	12.50	23,100
Masonry shelf	195	LF	16.50	3,218
Reinforcing steel	6,825	LBS	1.18	8,054
**unit cost $960.41*				
APP. & Tower Ext Frost Wall (18" x 4' H x 351 lf):				
3,500 psi, NW, (incl. placement)	78	CY	205.00	15,990
Formwork	2,808	SFCA	12.50	35,100
Masonry shelf	267	LF	16.50	4,406
Reinforcing steel	11,700	LBS	1.18	13,806
**unit cost $888.48*				
Allow:				
Pier/Pilaster	10	CY	950.00	9,500
Grade Beam (2'x2'x 50 LF)	8	CY	775.00	6,200
App room col base	4	EA	675.00	2,700
5" Slab on Grade -STA :				
3,500 psi, NW, (incl. placement)	121	CY	206.00	24,926
6x6 W2.9 X W2.9	7,777	SF	1.48	11,510
Barrier One Admix		NIC		
Control Joint	520	LF	3.80	1,976
Trowel Finish	7,777	SF	2.05	15,943
*unit cost $709.74				
8" Slab on grade - apparatus area:				
3,500 psi, NW, (incl. placement)	165.5	CY	206.00	34,093
6x6 W2.9 X W2.9 -top	6,670	SF	1.48	9,872
Reinforcing steel - 1.4 lbs/sf	9,338	LBS	1.18	11,019
Barrier One Admix		NIC		
Control Joint	445	LF	3.80	1,691
Trowel Finish	6,670	SF	2.05	13,674
*unit cost $10.55				
Form trench drain	60	LF	44.00	2,640
Slab thickening	15	CY	208.00	3,120
Conc. Deck Fill-total 5":				
STA 2nd Floor	4,625	SF	8.20	37,925
8"Precast pre-stressed Concrete Plank W /2" Topping:				
App 2nd Floor & Lofts	2,629	SF	16.00	42,064
Metal Pan Stair Fill:				
Stair #1 (1st- Loft)	1.5	FLT	3,000.00	4,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Stair #2 (1st- 2nd)	1	FLT	2,200.00	2,200
Tower Stair (1st- APP roof)	2	FLT	1,800.00	3,600
Conc slab sealer w/ Hardener:				
Storage, mech & elec rm	1,377	SF	1.55	2,134
Loft	2,176	SF	1.55	3,373
Tower Stair (1st- APP roof)	2	FLT	500.00	1,000
Int. mech equip pads	1	LS	3,500.00	3,500
Foundation Insulation:				
2" Rigid slab insul. 2' @ perim GF	1,164	SF	3.50	4,074
2" Rigid found insul.- 4' int wall	2,328	SF	3.20	7,450
Slab vapor barrier 15 mil - 100%	14,447	SF	0.85	12,280

				419,754
DIVISION 04 - MASONRY				
042000 UNIT MASONRY*				
Exterior Wall :				
CMU Exterior Wall Back Up		NIC		
Brick Veneer @ STA	440	SF	33.50	14,740
Brick veneer @ APP RM	1,952	SF	33.50	65,392
Brick veneer @ Tower	1,587	SF	33.50	53,165
Precast trim	1	LS	50,000.00	50,000
Stainless Steel Masonry flashing	1	LS	15,000.00	15,000
APP RM Interior Masonry Partition:				
APP 4" CMU int of ext wall	4,176	SF	19.50	81,432
Tower 4" CMU int of ext wall	1,587	SF	19.50	30,947
8" CMU	5,850	SF	22.75	133,088
Glazed CMU premium		NIC		

				443,763
DIVISION 05 - METALS				
051200 STRUCTURAL STEEL				
Steel Floor Framing:				
STA 2nd Floor (12#/sf @ 4,897 SF)	29.382	TON	3,900.00	114,590
Supplemental Steel Floor Framing @ Conc Plank:				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
APP 2nd Floor & Loft (5#/sf @ 2,629 SF)	6.573	TON	3,900.00	25,633
Steel Flat Roof Framing:				
STA w/ canopies(12#/sf @ 5,777 SF)	34.662	TON	3,900.00	135,182
Supplemental Steel @ Wood Flat Roof Framing:				
Tower (4#/sf @ 462 SF)	0.984	TON	4,200.00	4,133
App Rm(4#/sf @ 9,849 SF)	19.698	TON	3,700.00	72,883
App Rm Canopy (4#/sf @ 280 SF)	0.560	TON	4,000.00	2,240
Allow:				
Galv OH door frame	6	EA	650.00	3,900
Roof top equip Galv support frame	2	EA	10,000.00	20,000
Roof top equip Galv equipment screen frame		nic		

				378,560
053000 METAL DECKING				
STA 2nd flr Shear stud (10/100 sf)	463	EA	5.25	2,431
STA 2nd floor 2" x 20 ga comp deck	4,625	SF	2.95	13,644
STA Flat roof 2" x 20 ga comp deck		NIC		
STA Flat roof deck (1 1/2"x20ga)	4,897	SF	2.72	13,320

				29,394
054100 EXTERIOR METAL FRAMING & SHEATHING				
*carried w/ rough carpentry				

				0
055000 METAL FABRICATIONS				
Metal Pan Stair & Rails:				
Stair #1 (1st- Loft)	1	FLT	28,000.00	28,000
Stair #2 (1st- 2nd)	1	FLT	28,000.00	28,000
Ship Ladder	2	EA	6,500.00	13,000
Tower Stair (1st- APP roof)	2	FLT	20,000.00	40,000
Galv cover @ app loft training opening	1	LOC	5,000.00	5,000
SS surround @ Decon shower /basin	1	EA	4,000.00	4,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
SS shelf @ Decon rm	5	LF	350.00	1,750
SS counter @ Decon wash rm	5	LF	400.00	2,000
Ext Galv antenna support	1	LOC	10,000.00	10,000
Roof tie off @ HVAC equip.	1	LS	4,000.00	4,000
Ext. roof access ladder (2 loc)	25	VLF	375.00	9,375
Fire pole		N/A		
OH door surround-plt & angle	6	EA	450.00	2,700
Galv Slab edge angle @ OH	84	LF	48.00	4,032
Angle clip @ CMU partitions	146	EA	135.00	19,710
Loose lintels	82	LF	33.00	2,706
Galv. Lintel	31	LF	48.00	1,488
Galv. loft guardrail	152	LF	250.00	38,000
Bollard @ OH door	12	EA	1,050.00	12,600
Bollards @ ext equip pad	8	EA	1,050.00	8,400
Misc. bldg. metals	19,922	GSF	1.00	19,922

				254,683

DIVISION 06 - WOOD, PLASTICS & COMPOSITES

061000 ROUGH CARPENTRY

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Exterior Wall Framing:				
6" x 16 ga. ext sta. wall	4,668	SF	8.10	37,811
8" x 16 ga. ext app wall	4,176	SF	9.45	39,463
8" x 16 ga. ext tower wall	1,587	SF	9.45	14,997
1/2" Dens Glass Wall Sheathing	10,431	SF	3.22	33,588
1/2" FR ply @ Fiber cement panel	2,688	SF	5.25	14,112
Weather Resis Barrier @ Fiber cement panel	2,688	SF	0.88	2,365
3/4" vert sub-grit @Corrugated metal panel	3,764	SF	2.80	10,539
Glu-lam timber beams, girders & 3" decking:				
Tower	462	SF	45.00	20,790
App Rm	9849	SF	35.00	344,715
App Rm Canopy	280	SF	45.00	12,600
Frame Ext Metal Ceiling /Soffit:				
STA High Roof	288	SF	6.50	1,872
STA Main entry canopy	160	SF	6.50	1,040
STA staff entry	211	SF	6.50	1,372
APP canopy	280	SF	6.50	1,820
Tower roof edge	160	SF	6.50	1,040
APP RM sloped roof edge	1,272	SF	6.50	8,268
Roof Edge Fascia Framing:				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1' 6"H STA High Roof (292 LF)	438	SF	8.00	3,504
1' 6"H STA Main entry canopy (45 LF)	68	SF	8.00	544
1' 6"H STA staff entry (93 LF)	140	SF	8.00	1,120
1'H APP canopy (96 LF)	96	SF	8.00	768
2'2"H Tower roof edge (89 LF)	193	SF	8.00	1,544
6" H APP RM (323 LF)	162	SF	8.00	1,296
Roof Blocking:				
Roof Edge	938	LF	12.50	11,725
Base flashing	303	LF	12.50	3,788
Parapet sheathing	1,408	SF	7.50	10,560
Mech equipment	1	LS	2,500.00	2,500
Ext wall -Blk perim wind,dr & louver	2,072	LF	6.75	13,986
Interior blocking	19,922	GSF	0.30	5,977
Misc. rough carpentry	19,922	GSF	0.50	9,961

				613,664
062000 FINISH CARPENTRY				
STA Running Trim:				
Solid surface window /storefront sill	159	LF	55.00	8,745
Wd wall base		NIC		
Wd wall panel		NIC		
Wd chair rail		NIC		
Window Trim		NIC		
Door Trim		NIC		
Misc interior wd trim STA	9,922	GSF	0.75	7,442
APP & Tower Running Trim:				
PVC window trim	300	LF	12.00	3,600
Solid Surface sill	75	LF	55.00	4,125
Solid surface window surround	100	LF	50.00	5,000
STA Casework:				
Kitchen:				
25" Solid Surface Counter	30.5	LF	225.00	6,863
Base cab (nic ctr)	28.5	LF	275.00	7,838
Wall cab	10	LF	210.00	2,100
30" W Tall storage cabinets	4	EA	1,400.00	5,600
Wall oven cabinet	2.5	LF	550.00	1,375
Island Solid Surface ctr	40	SF	95.00	3,800
Island base cab (nic ctr)	8	LF	500.00	4,000
Refrigerator box	1	EA	1,650.00	1,650

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Freezer box	1	EA	1,300.00	1,300
Conference Room:				
SS ctr	13	LF	240.00	3,120
Base cab (nic ctr)	13	LF	275.00	3,575
Administrative Assistant:				
Mail Box Unit	4	LF	750.00	3,000
SS ctr	9	LF	240.00	2,160
Base cab (nic ctr)	9	LF	275.00	2,475
Wall shelving	18	LF	45.00	810
Fire Prevention office:				
SS ctr	3	LF	240.00	720
Wall shelving	14	LF	45.00	630
Misc STA Casework-Allow:				
Coat storage shelf/rod	8	LF	45.00	360
Watch rm ctr	20	LF	165.00	3,300
Vanity w/ ctr(4EA)	14	LF	245.00	3,430
Day Room		NIC		
Laundry rm shelf	7	LF	45.00	315
Lobby display case		NIC		
Dorm rm wardrobe	44	EA	2,000.00	88,000
Storage closet shelving	1	LS	1,000.00	1,000
APP Casework:				
APP RM Workshop:				
SS ctr	6	LF	240.00	1,440
Base cab (nic ctr)	6	LF	275.00	1,650
Misc APP Casework-Allow:				
Charging station ctr @ turn out rm	4	LF	175.00	700
SCBA work bench	6	LF	300.00	1,800
BLDG & Grounds work bench	10	LF	300.00	3,000
Gear supply rm shelving 5 tier	195	LF	42.00	8,190
*Excludes work shop metal shelving and metal work bench				
*Dorm and office furniture - NIC				
*Includes section 066100				
				193,112

DIVISION 07 - THERMAL & MOISTURE PROTECTION

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
071001 DAMPPROOF., WATERPROOF. & SEALANT*				
Found. Dampproofing - 6'D	3,492	SF	1.95	6,809
Found prot bld - 6'D	3,492	SF	3.00	10,476
Ext wind, OH , dr & louver sealant	2,072	LF	3.75	7,770
Misc. exterior sealants	1	LS	6,000.00	6,000
Int joint sealants	19,922	GSF	0.50	9,961
*Includes sections 071600 & 079200				
				41,016
070002 ROOFING & FLASHING*				
Flat Roof System:				
PVC membrane, cover bd & insul	16,346	SF	18.00	294,228
Protection bd		inc.		
Flash roof drain	10	EA	225.00	2,250
Roof Edge	938	LF	16.00	15,008
Base flashing	303	LF	24.50	7,424
Parapet membrane	1,408	SF	7.50	10,560
Walkway pads	1	LS	1,500.00	1,500
Membrane flashing	1,200	SF	7.50	9,000
Flat Roof -Adhered AVB	16,346	SF	5.50	89,903
*Includes sections 075423 & 076200				
				429,873
072100 THERMAL INSULATION				
2" Rigid slab insul. 2' @ perim GF		W / DIV 3		
2" Rigid found insul.- 4' int wall		W / DIV 3		
4" rock wool ext wall insul @ Fiber cement]	2,688	SF	3.85	10,349
4" rigid ext wall insul @ Corrugated metal p	3,764	SF	3.65	13,739
4" rigid ext wall insul @ Brick veneer	3,979	SF	3.65	14,523
Spray fireproofing		NIC		
Roof insulation		W /ROOFING		
				38,611
072500 WEATHER BARRIER,VAPOR RETARDERS & AIR BARRIERS				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Air and Vapor Barrier (39,754 TOTAL envelope):				
Seal slab to wall VB	582	LF	10.00	5,820
Exterior wall - Adhered AVB	10,431	SF	7.50	78,233
Exterior clg/soffit - Adhered AVB	2,371	SF	7.50	17,783
Exterior Fascia - Adhered AVB	1,097	SF	7.50	8,228
Ext wall air & vapor barrier - perim open	2,072	LF	8.00	16,576
*Includes sections 072500 & 0726000				

				126,639
074000 EXT SIDING & TRIM				
Ext Siding (Pre-Primed & Finished):				
STA - Fiber cement panel	2,688	SF	45.00	120,960
STA -Corrugated metal panel	1,540	SF	38.00	58,520
APP RM -Corrugated metal panel	2,224	SF	38.00	84,512
Air Cavity Clips		NIC		
Alum. Composite Panel Ceiling /Soffit Panel:				
STA High Roof	288	SF	55.00	15,840
STA Main entry canopy	160	SF	55.00	8,800
STA staff entry	211	SF	55.00	11,605
APP canopy	280	SF	55.00	15,400
Tower roof edge	160	SF	55.00	8,800
APP RM sloped roof edge	1,272	SF	55.00	69,960
Alum Comp Panel -Fascia:				
1' 6"H STA High Roof (292 LF)	438	SF	55.00	24,090
1' 6"H STA Main entry canopy (45 LF)	68	SF	55.00	3,740
1' 6"H STA staff entry (93 LF)	140	SF	55.00	7,700
1'H APP canopy (96 LF)	96	SF	55.00	5,280
2'2"H Tower roof edge (89 LF)	193	SF	55.00	10,615
6" H APP RM (323 LF)	162	SF	55.00	8,910
Misc Ext Wall Metal Trim :				
OH door trim	252	LF	35.00	8,820
Misc ext trim	1	LS	10,000.00	10,000
*Includes sections 066000 & 074646				

				473,552

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
077000 ROOF ACCESSORIES				
Louvered Roof Mech Screen Wall		N/A		
Premium - patio pedestal pavers	400	SF	38.00	15,200
Roof rails		N/A		
*Includes sections 077233 & 077600				

				15,200
078400 FIRESTOPPING				
Fire stopping	1	LS	7,500.00	7,500

				7,500
DIVISION 08 - OPENINGS				
080008 GLASS AND GLAZING*				
Allow- Interior Glass & Glazing- 1/4" Tempered Glass @:				
7' day rm HM sidelight	28	SF	48.00	1,344
7' fitness rm HM sidelight	112	SF	48.00	5,376
Misc HM Frame Sidelights & windows	250	SF	48.00	12,000
HM doors		W/ 081113		
WD doors		W/ 081416		
Allow -Mirror - 6'H:				
Fitness rm	48	SF	65.00	3,120

				21,840
081113 HOLLOW METAL DOORS AND FRAMES				
Exterior HM Frames:				
7' Typ door - sgl	1	EA	330.00	330
7' Typ door - dbl	1	EA	360.00	360
Exterior HM Doors (Inc Glass & Glazing):				
Roof access - sgl	1	EA	650.00	650
Storage - dbl	1	EA	1,300.00	1,300
Interior HM Frames:				
Door -sgl	58	EA	275.00	15,950

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Door -dbl	3	EA	295.00	885
7' day rm HM sidelight	28	SF	40.00	1,120
7' fitness rm HM sidelight	112	SF	40.00	4,480
Misc HM Sidelights & windows	250	SF	40.00	10,000
7'H Interior APP HM Doors (Inc Glass & Glazing):				
Tower stair - sgl	2	EA	550.00	1,100
Station conn - sgl	3	EA	550.00	1,650
APP support rm - sgl	7	EA	550.00	3,850
Storage - dbl	1	EA	1,100.00	1,100

				42,775

081416 FLUSH WOOD DOORS

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
7'H Station Interior (pre-finish) Wood Doors (Inc Glass & Glazing):				
Vestibule - sgl	2	EA	700.00	1,400
Corridor / stair hall - sgl	5	EA	700.00	3,500
Office - sgl	10	EA	660.00	6,600
Watch rm -sgl	2	EA	660.00	1,320
Dorm rm	11	EA	540.00	5,940
Fitness -sgl	1	EA	660.00	660
Kitchen & Dayroom -sgl	2	EA	540.00	1,080
Sgl user toilet rm	7	EA	540.00	3,780
Mech/elec - sgl	2	EA	515.00	1,030
Mech/elec - dbl	1	EA	1,030.00	1,030
Storage - sgl	4	EA	515.00	2,060
Storage - dbl	1	EA	1,030.00	1,030

				29,430

083100 ACCESS DOORS AND PANELS

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Access panels -allow	16	EA	450.00	7,200

				7,200

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
083613 SECTIONAL OVERHEAD DOORS				
O.H. Door (Elec. Op) - 14'x14'	6	EA	18,000.00	108,000

				108,000
084000 ALUM ENTRANCES & STOREFRONTS				
Ext Alum. Door, Frame, Hdw, Glass & Glazing:				
8' 6"H Main entry - sgl	1	EA	5,100.00	5,100
7'H Staff entry - sgl	2	EA	4,650.00	9,300
7'H Apparatus rm egress - sgl	1	EA	4,650.00	4,650
7'H STA Stair hall egress - sgl	1	EA	4,650.00	4,650
7'H Tower Stair hall egress - sgl	1	EA	4,650.00	4,650
Auto opener-allow	1	EA	6,500.00	6,500
Ext Entry Alum storefront frame, Glass & Glazing:				
Main entry 11' 6"H	383	SF	105.00	40,215
Transom Staff entry	7.5	SF	105.00	788
Transom Apparatus rm egress	7.5	SF	105.00	788
Transom Stair hall egress	7.5	SF	105.00	788
Transom Tower Stair hall egress	7.5	SF	105.00	788
Ext Alum storefront Window frame, Glass & Glazing:				
APP Clerestory Window 4'H	1,200	SF	105.00	126,000
Tower Clerestory Window 3'H	180	SF	105.00	18,900
STA stair hall #2 (1 loc)	75	SF	105.00	7,875
STA 6'H window (operable-13 LOC)	629	SF	105.00	66,045

				297,035
085414 WINDOWS				
Ext Alum window frame, Glass & Glazing:				
DH Tower Window (4' x 8' - 4 EA)	128	SF	95.00	12,160
STA 2nd flr Window (4' x 8' -12 EA)	384	SF	95.00	36,480

				48,640

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
085800 ALUM INTERIOR SLIDING WINDOW				
Allow- Vestibule sliding window (1EA)	16	SF	130.00	2,080
Allow- Watch rm sliding window (1EA)	24	SF	130.00	3,120

				5,200
087100 DOOR HARDWARE				
Ext Hdw Set HM Door :				
Roof access - sgl	1	EA	1,500.00	1,500
Storage - dbl	1	EA	750.00	750
Int App. Rm HM Door Hdw Set:				
Tower stair - sgl	2	EA	1,200.00	2,400
Station conn - sgl	3	EA	1,200.00	3,600
APP support rm - sgl	7	EA	1,200.00	8,400
Storage - dbl	1	EA	850.00	850
Int Sta. WD Door - Hdw Set:				
Vestibule - sgl	2	EA	2,500.00	5,000
Corridor / stair hall - sgl	5	EA	2,500.00	12,500
Office - sgl	10	EA	750.00	7,500
Watch rm -sgl	2	EA	750.00	1,500
Dorm rm	11	EA	750.00	8,250
Fitness -sgl	1	EA	750.00	750
Kitchen & Dayroom -sgl	2	EA	750.00	1,500
Sgl user toilet rm	7	EA	750.00	5,250
Mech/elec - sgl	2	EA	550.00	1,100
Mech/elec - dbl	1	EA	900.00	900
Storage - sgl	4	EA	500.00	2,000
Storage - dbl	1	EA	850.00	850
*Card access system, auto openers, OH doors and alum entry hardware specified elsewhere				

				64,600
089000 ARCHITECTURAL LOUVERS & VENTS				
Alum louvers -allow	10	SF	110.00	1,100

				1,100

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 09 - FINISHES				
090003 TILING, CERAMIC & STONE *				
Public Vestibule:				
Stone tile	168	SF	40.00	6,720
Stone tile wall base	46	LF	20.00	920
Stone thresholds	1	EA	200.00	200
Kitchen & Dining:				
Ceramic floor tile	494	SF	28.00	13,832
Ceramic tile wall base	72	LF	10.00	720
Thresholds & transitions	1	LS	500.00	500
Public Sgl User Toilet Room (2 EA):				
Ceramic floor tile	120	SF	36.00	4,320
Ceramic wall base	56	LF	12.50	700
SGL threshold	2	EA	150.00	300
Ceramic wall tile		NIC		
STA Staff Sgl User Toilet /SHW Room (4 EA):				
Typ Ceramic floor tile	230	SF	36.00	8,280
Ceramic wall tile	600	LF	28.00	16,800
SGL Marble threshold	4	EA	150.00	600
8' SHW Ceramic wall tile	528	SF	24.00	12,672
WPG membrane	316	SF	8.50	2,686
APP Staff Sgl User Toilet /SHW Room (3 EA):				
Ceramic floor tile	180	SF	35.00	6,300
SGL Marble threshold	4	EA	150.00	600
SHW receptor		W /Plumbing		
8' SHW Ceramic wall tile @ cmu partition		NIC		
DECON SHW Room (1 EA):				
Ceramic floor & wall tile		NIC		

				76,150
090006 RESILIENT FLOORING*				
Water vapor emission control sys	2,885	SF	5.50	15,868
Fitness rm rubber sports flooring	728	SF	18.50	13,468
Rubber tile	620	SF	16.00	9,920

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Resilient tile	1,537	SF	20.00	30,740
Rubber wall base	1	LS	3,000.00	3,000
Rubber Stair Finish:				
Stair #1 (1st- Loft)	1.5	FLT	1,500.00	2,250
Stair #2 (1st- 2nd)	1	FLT	1,500.00	1,500

				76,746
090009 PAINTING*				
Int. painting:				
Station	9,922	GSF	3.90	38,696
Apparatus rm w/ loft	12,176	GSF	3.90	47,486
*Excludes wall covering				
Exterior Painting (2) Coat field painted:				
HM door & HM frame	3	LVS	125.00	375
Fiber cement panel		N/A		
Corrugated metal panel		N/A		
Metal Trim		N/A		
Ext clg & soffit		N/A		
Misc ext painting	1	LS	5,000.00	5,000

				91,557
092900 GYPSUM WALLBOARD ASSEMBLIES				
1 lyr 5/8" at ext wall	10,431	SF	2.10	21,905
STA Partitions 13'H :				
Typical	10,576	SF	10.45	110,519
Stair hall	1,338	SF	15.65	20,940
Mech /elec rm	2,000	SF	13.85	27,700
Chase GWB - one side	992	SF	7.55	7,490
Shaft wall	700	SF	15.00	10,500
Furr CMU	1,100	SF	9.00	9,900
Premium tile backer bd	528	SF	2.00	1,056
STA Ceiling:				
Stair hall	448	SF	13.00	5,824

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Electric rms	236	SF	13.00	3,068
Typ Gyp ceiling	1,462	SF	13.00	19,006
Gyp soffit	9922	GSF	1.00	9,922
*GWB includes sound attenuation, tape and joint compound finish				

				247,830
095100 ACOUSTICAL CEILING SYSTEMS*				
STA ACT - 2x2x3/4	6,918	SF	6.50	44,967

				44,967
096723 SEAMLESS EPOXY FLOORING				
Epoxy Flooring W/ Int wall Base:				
APP Bay & support areas	8,206	SF	16.50	135,399

				135,399
096810 CARPET TILE*				
Water vapor emission control sys		n/a		
Carpet tile	4,172	SF	5.50	22,946

				22,946
DIVISION 10 - SPECIALTIES				
101100 VISUAL DISPLAY SURFACES				
Allow:				
Tack board	1	LS	1,500.00	1,500
Marker white board	1	LS	1,500.00	1,500
Motor op projection screen		NIC		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				3,000
101400 SIGNAGE				
Allow:				
SS Lobby signage	1	EA	5,000.00	5,000
Interior door signage	61	EA	125.00	7,625
Dedication plaque	1	EA	3,200.00	3,200
Misc ext signage	1	LS	5,000.00	5,000
*Site signage is included w/ 323000				

				20,825
102800 TOILET ACCESSORIES				
Allow Owner Furnished Contractor Install:				
Paper towel dispenser/disposal	9	EA	75.00	675
Toilet tissue dispenser	9	EA	75.00	675
Soap dispenser	9	EA	75.00	675
Allow GC Furnished And Install:				
Hand dryer		NIC		
Toilet grab bars	4	EA	95.00	380
Framed mirror	9	EA	325.00	2,925
STD shower accessories	7	EA	400.00	2,800
Coat hook	9	EA	35.00	315
Baby changing sta.	2	EA	475.00	950
SS Mop sink splash	2	EA	250.00	500
Janitor accessories	2	RM	175.00	350
*Excludes work rm accessories				

				10,245
104400 SAFETY SPECIALTIES				
Allow:				
Fire extinguishers & cab	4	EA	450.00	1,800
Fire extinguishers & bracket	2	EA	275.00	550
AED cab	2	EA	550.00	1,100

				3,450

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
109000 MISC. SPECIALTIES				
Metal Locker - Allow:				
Turn out gear - 30"w x24"D full HT	44	EA	1,850.00	81,400
Staff locker 12"x12" full HT	8	EA	350.00	2,800
Main vestibule entry mat	1	EA	3,500.00	3,500
Staff vestibule entry mat	1	EA	3,500.00	3,500

				91,200
DIVISION 11 - EQUIPMENT				
119000 MISC. EQUIPMENT				
Fitness equipment		NIC		
Kitchen /Dining Appliance -Allow :				
Freezer	1	EA	2,000.00	2,000
Refrigerator w/ icemaker	1	EA	4,000.00	4,000
36" Range - 6 burner	1	EA	6,000.00	6,000
Range hood	1	EA	1,500.00	1,500
Dishwasher	1	EA	1,500.00	1,500
Wall oven	1	EA	1,200.00	1,200
Disposal	1	EA	300.00	300
MW oven - built-in	1	EA	1,500.00	1,500
Coffee maker w/ water conn	1	EA	1,000.00	1,000
Laundry Closet Appliance :				
Washer		w/ ff&e		
Dryer		w/ ff&e		
App. Room -Allow:				
Extractor washer	1	LS	7,500.00	7,500
Gear drying cab	1	LS	7,500.00	7,500
Ice Maker 100#	1	EA	1,500.00	1,500
SCBA Rack and Equipment	1	LS	5,000.00	5,000
Wall mtd hose reel	1	EA	1,500.00	1,500
Hose storage & drying racks	1	LS	5,000.00	5,000
Rappelling roof gear		NIC		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				47,000
DIVISION 12 - FURNISHINGS				
122400 INTERIOR ROLLER SHADES				
Manual Op Roller Shade:				
Entry Storefront		NIC		
Clerestory Storefront		NIC		
STA 2nd flr Window (4' x 8' -12 EA)	384	SF	6.50	2,496
STA 6'H storefront window (operable-13 L(	629	SF	6.50	4,089
Tower Window		NIC		

				6,585
DIVISION 13 - SPECIAL CONSTRUCTION				
Allow:				
Vehicle exhaust system		W/HVAC		

				0
DIVISION 14 - CONVEYING EQUIPMENT				
142000 ELEVATOR*		N/A		

				0
DIVISION 21 - FIRE SUPPRESSION				
210000 FIRE PROTECTION*				
6" dbl check valve	1	EA	6,800.00	6,800
Wet Valve Assembly	1	EA	3,100.00	3,100
Dry Valve assembly (inc. compressor)	1	EA	6,200.00	6,200
2 1/2" fdv	2	EA	1,325.00	2,650
3" fcvs	2	EA	1,600.00	3,200
Siamese connection	1	EA	2,600.00	2,600
2" drain test line	50	LF	42.00	2,100

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Sched 40:				
6"	400	LF	72.00	28,800
4"	300	LF	61.00	18,300
4" app bay	75	LF	64.00	4,800
Head and Branch Piping:				
Concealed head	129	EA	410.00	52,890
Upright	5	EA	405.00	2,025
Dry head	15	EA	475.00	7,125
Dry head - app. Bay	72	EA	425.00	30,600
Test, permit, as built	1	LS	12,500.00	12,500
*Excludes fire pump				

				183,690
DIVISION 22 - PLUMBING				
220000 PLUMBING*				
Fixtures (per arch):				
Water closet	7	EA	1,850.00	12,950
ADA Water closet	2	EA	1,850.00	3,700
Wall lav	5	EA	1,275.00	6,375
Ctr mtd lav	4	EA	1,275.00	5,100
Kitchen Sink w/ DW conn	1	EA	1,425.00	1,425
Decon sink w/ eye wash	1	EA	2,500.00	2,500
Mop receptor	2	EA	1,975.00	3,950
Decon shower	1	EA	2,400.00	2,400
APP Staff shower	3	EA	3,000.00	9,000
STA Staff shower	4	EA	3,000.00	12,000
Hose reel	1	EA	1,200.00	1,200
Lobby Drinking Fountain	1	EA	3,110.00	3,110
Fitness Rm Drinking Fountain	1	EA	3,110.00	3,110
Workshop sink	1	EA	1,300.00	1,300
Fixture connection	34	EA	300.00	10,200
Hose bib	11	EA	430.00	4,730
Wall Hydrant	8	EA	430.00	3,440
Laundry conn	1	LOC	450.00	450
Ice maker connection	2	LOC	400.00	800
Extractor conn	1	LOC	450.00	450
Hot Water System:				
Hot water recirculation	1	EA	950.00	950

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
HWH - 1 Gas water heater "bxt 99"	1	LS	6,800.00	6,800
MV-1 Temp valve	1	EA	2,600.00	2,600
HW piping, valve and connection	1	LS	3,000.00	3,000
4" Flue	92	LF	48.50	4,462
Roof/Storm Drain System				
Underground D/W/V Pipe:				
8"	200	LF	103.00	20,600
FCO	4	EA	425.00	1,700
Above Ground D/W/V Pipe:				
4"	175	LF	44.00	7,700
8"	175	LF	97.50	17,063
RD - 1	8	EA	1,345.00	10,760
OF - 1	2	EA	1,345.00	2,690
OF Nozzle	2	EA	850.00	1,700
Insulate leader	150	LF	13.00	1,950
Sanitary System				
Underground D/W/V Pipe:				
2"	222	LF	38.00	8,436
4"	546	LF	49.00	26,754
4" - FD A	11	EA	650.00	7,150
GT - 1	1	EA	5,500.00	5,500
Above Ground D/W/V Pipe:				
2"	528	LF	34.00	17,952
3"	228	LF	42.00	9,576
4"	424	LF	48.00	20,352
4" - FD A	1	EA	650.00	650
Trap primer Pipe	480	LF	21.00	10,080
Electric Trap Primer	1	LS	4,200.00	4,200
Domestic Piping:				
1 1/2"	124	LF	34.00	4,216
1"	381	LF	22.50	8,573
1/2"	1,050	LF	18.10	19,005
2"	218	LF	26.00	5,668
3"	308	LF	91.00	28,028
3/4"	552	LF	20.15	11,123
4"	12	LF	99.00	1,188
Water Hammer arrestors	1	LS	2,000.00	2,000
1" Pipe Insulation:				
1 1/2"	124	LF	8.00	992
1"	381	LF	7.50	2,858
1/2"	1,050	LF	7.10	7,455
2"	218	LF	8.45	1,842

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
3"	308	LF	9.50	2,926
3/4"	552	LF	7.40	4,085
4"	12	LF	11.90	143
Gas:				
1/2"	26	LF	17.00	442
3/4"	25	LF	21.00	525
1 1/4"	40	LF	26.00	1,040
2 1/2"	28	LF	52.00	1,456
2"	18	LF	43.00	774
3"	72	LF	68.00	4,896
Appliance connection	1	EA	300.00	300
Boiler Connections	2	EA	1,000.00	2,000
Boiler Room Master shut off	1	EA	2,650.00	2,650
Meter rough in	1	EA	1,200.00	1,200
Garage Drainage:				
4" Drain vent	195	LF	48.00	9,360
4" Under slab	275	LF	46.00	12,650
Floor cleanout	4	EA	600.00	2,400
Garage drain catch basin	9	EA	1,200.00	10,800
Sand & gas separator		W /site		
Backflow preventer	1	LS	1,850.00	1,850
APP Trench drain grate	110	LF	85.00	9,350
Air compressor	1	EA	7,500.00	7,500
1 1/2" Pipe	220	LF	28.00	6,160
Garage nozzle	5	EA	950.00	4,750
Misc.:				
1" RPBP - Wash down	1	EA	1,150.00	1,150
Misc. Valves	1	LS	1,500.00	1,500
Underground Water Service:				
Domestic	10	LF	115.00	1,150
Back flow preventer (mech)	1	EA	500.00	500
Service rough in and 4" BFP valve	1	EA	4,450.00	4,450
Test, Perm, Clean, Misc	1	LS	15,000.00	15,000

				484,768

DIVISION 23 - HVAC

230000 HVAC*

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Boiler (Hot Water) Schedule:				
B-1 400 MBH	1	EA	12,000.00	12,000
B-2 400 MBH	1	EA	12,000.00	12,000
4" Flue	65	LF	48.00	3,120
6" Flue	65	LF	57.00	3,705
P-1	1	EA	1,400.00	1,400
P-2	1	EA	1,400.00	1,400
P-3	1	EA	3,900.00	3,900
P-4	1	EA	3,900.00	3,900
Expansion tank and air separator	1	LS	6,500.00	6,500
Glycol treatment	1	LS	7,500.00	7,500
Neutralization kit	1	EA	1,200.00	1,200
Boiler rough in and trim	1	LS	5,000.00	5,000
Energy Recovery Ventilator (Packaged DX Cooling & Indirect Gas Heating:				
ERV-1	3,000	CFM	18.00	54,000
VRF System:				
AC-1-1 (4.0 tons)	1	EA	4,800.00	4,800
AC-1-2 (0.5 tons)	1	EA	2,800.00	2,800
AC-1-3 (1.0 tons)	1	EA	3,100.00	3,100
AC-1-4 (0.5 tons)	1	EA	2,800.00	2,800
AC-1-5 (1.0 tons)	1	EA	3,100.00	3,100
AC-1-6 (1.0 tons)	1	EA	3,100.00	3,100
AC-1-7 (0.75 tons)	1	EA	2,950.00	2,950
AC-2-1 (1.5 tons)	1	EA	3,500.00	3,500
AC-2-2 (0.75 tons)	1	EA	2,950.00	2,950
AC-2-3 (1.0 tons)	1	EA	3,100.00	3,100
AC-2-4 (1.5 tons)	1	EA	3,500.00	3,500
AC-2-5 (1.0 tons)	1	EA	3,100.00	3,100
ACCU:				
ACCU-1 7.5 TON	2	EA	15,000.00	30,000
BC Controller Schedule:				
BC-1	1	EA	10,500.00	10,500
BC-2	1	EA	10,500.00	10,500
Refrigerant Piping:				
Main	360	LF	42.00	15,120
Lin set	13	EA	2,100.00	27,300
Condensate pump	13	EA	325.00	4,225
Condensate Pipe	400	LF	22.00	8,800
CMCN	1	LS	30,000.00	30,000
Misc. VRF Accessories	1	LS	50,000.00	50,000
Fan Schedule:				
EF-1 - garage	1	EA	3,600.00	3,600
EF-2 - garage	1	EA	2,500.00	2,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
EF-3 - turnout	1	EA	1,800.00	1,800
EF-4 - janitor	1	EA	1,800.00	1,800
EF-5 -SCBA	1	EA	1,800.00	1,800
EF-6 - workshop	1	EA	1,800.00	1,800
EF-7 - storage	1	EA	1,800.00	1,800
EF-1A - vehicle tail pipe	1	EA	3,500.00	3,500
EF-3A - vehicle tail pipe	1	EA	3,500.00	3,500
Hydronic Heat:				
Radiant Ceiling Panel	360	LF	145.00	52,200
UH-1	1	EA	1,400.00	1,400
UH-2	1	EA	1,400.00	1,400
UH-3	1	EA	1,400.00	1,400
UH-4	1	EA	1,400.00	1,400
UH-5	1	EA	1,400.00	1,400
UH-6	1	EA	1,400.00	1,400
UH-7	1	EA	1,400.00	1,400
UH-8	1	EA	1,400.00	1,400
UH-9	1	EA	1,400.00	1,400
UH-10	1	EA	1,400.00	1,400
UH-11	1	EA	1,400.00	1,400
UH-12	1	EA	1,400.00	1,400
UH-13	1	EA	1,400.00	1,400
CUH-1	1	EA	2,100.00	2,100
CUH-2	1	EA	2,100.00	2,100
CUH-3	1	EA	2,100.00	2,100
CUH-4	1	EA	3,100.00	3,100
Modulating Valve	44	EA	320.00	14,080
Isolation valve	88	EA	110.00	9,680
Hot Water Piping:	19,922	SF	4.50	89,649
Ductwork:				
Galvanized Ductwork	10,000	LBS	10.75	107,500
Supply duct insul.	7,500	SF	4.20	31,500
Volume damper	35	EA	210.00	7,350
Linear diffuser	18	EA	245.00	4,410
Return Grill	40	EA	185.00	7,400
Supply grill	36	EA	205.00	7,380
App bay s&r grill	4	EA	300.00	1,200
Motor damper	2	EA	1,800.00	3,600
Automatic Temperature Control	19,922	SF	6.00	119,532
Vehicular Exhaust System	7	DROPS	15,000.00	105,000
Carbon Monoxide Detection:				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Garage Make up air louver damper	1	EA	4,500.00	4,500
CO sensor	2	EA	1,200.00	2,400
Alarm panel	1	LS	4,800.00	4,800
Exhaust fan control	1	EA	3,000.00	3,000
Test and balance	19,922	GSF	0.65	12,949

				978,700
DIVISION 25 - INTEGRATED AUTOMATION				
260000 ELECTRICAL				
Sitework:				
Duct bank				
PVC-2"C-w/PS	110	LF	4.59	505
PVC-4"C-w/PS	970	LF	4.59	4,452
PVC-5"C-w/PS	208	LF	5.30	1,101
Pole dressing	2	EA	1,850.00	3,700
Xfmr pad grounding	1	EA	1,363.00	1,363
Xfmr pad 90 deg & sleeves	1	EA	901.00	901
Gen/Set pad grounding	1	EA	1,218.00	1,218
Gen/Set pad 90 deg & sleeves	1	EA	901.00	901
Site Lighting:				
SL1 - Pole light	8	EA	3,100.00	24,800
UL - Feature up light	2	EA	550.00	1,100
PVC-1 1/4"C - 2#8 & 1#10	475	LF	4.04	1,919
Mech & plumb equip wiring - allow	1	LS	35,000.00	35,000
Grounding allowance	1	LS	6,500.00	6,500
G/S:				
PVC-4#600 & 1&1/0	64	LF	59.46	3,805
WIC - 4#600 MCM	330	LF	51.62	17,035
Interior Lighting	19,922	SF	6.75	134,474
Lighting control allowance	19,922	SF	1.75	34,864
Lightning protection allowance	1	LS	25,000.00	25,000
Power Devices:				
MS Mon sw	29	EA	97.00	2,813
DC contact	8	EA	191.00	1,528
CP cont pnl	8	EA	86.00	688
Motor & disc	8	EA	659.00	5,272

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Green go light	8	EA	492.00	3,936
Up/down/hold	8	EA	226.50	1,812
GFI	15	EA	85.90	1,289
WP GFI	12	EA	111.20	1,334
Duplex	76	EA	65.80	5,001
Duplex double	30	EA	103.75	3,113
Range rec	1	EA	146.50	147
Dryer rec	1	EA	142.50	143
Clg proj outlet	1	EA	167.00	167
Double floor box	1	EA	834.00	834
SCBA connection	1	LS	1,500.00	1,500
6/3	60	LF	5.55	333
8/3	60	LF	4.34	260
12/2	7,500	LF	1.87	14,025
12/3	500	LF	2.40	1,202
EMT-3/4"C-3#12	460	LF	5.31	2,443
Fire Alarm:				
Beacon	1	EA	488.00	488
Sprinkler bell	1	EA	162.00	162
Knox box	1	EA	613.00	613
Master box	1	EA	5,355.00	5,355
FACP Cont. pnl	1	EA	10,198.00	10,198
Annunciator	1	EA	1,026.00	1,026
F pull	9	EA	146.00	1,314
F a	12	EA	271.50	3,258
Strobe only	16	EA	256.50	4,104
Smoke det	42	EA	151.00	6,342
CoO2 det	4	EA	271.00	1,084
RI remote indicator	14	EA	136.00	1,904
A/V WP	8	EA	342.00	2,736
Clg surf A/V	4	EA	286.50	1,146
S smoke w/sounder base	5	EA	221.00	1,105
FS flow sw	1	EA	237.00	237
TS tamper sw	1	EA	237.00	237
D duct smoke	4	EA	779.00	3,116
RTS remote test sta	4	EA	175.35	701
J	41	EA	34.82	1,428
J square	38	EA	41.50	1,577
BB	38	EA	52.60	1,999
MC-14/4C red	2,500	LF	3.38	8,438
AFC-4901 16/2 14/2	1,500	LF	4.53	6,795
Programming & pretest	1	EA	5,636.00	5,636
MFD testing & cert	1	EA	5,636.00	5,636
Dist. antenna system	1	LS	35,000.00	35,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Monitor & control modules	18	EA	196.50	3,537
G/S & Pnls:				
180kw gen/set	1	EA	68,692.00	68,692
Em. GS load bank	1	EA	5,284.00	5,284
Em. GS remote annun.	1	EA	976.00	976
PVC-1 1/4"C-14#12	110	LF	6.97	767
Receive rig & set	1	EA	9,136.00	9,136
Bldg EPO	1	EA	1,960.00	1,960
Unit mtd EPO	1	EA	584.00	584
Generator dock	1	LS	7,500.00	
Internal pnl	1	EA	142.00	142
Output C/B	1	EA	142.00	142
800A ATS	1	EA	8,068.00	8,068
EMT-4"C-4#500 & 1#1/0	160	LF	72.82	11,651
1000A MDP	1	EA	13,556.00	13,556
NEDP 800 dist panel	1	EA	8,200.00	8,200
Meter socket	1	EA	784.00	784
SPD surge prot device (1000A)	1	EA	1,284.00	1,284
Grounds	4	EA	363.00	1,452
SPD Pnl mtd surge pro dev	3	EA	442.00	1,326
Pnl MP1 - 400A	3	EA	5,375.00	16,125
Pnl PP - 225A	3	EA	3,349.00	10,047
Pnl lp.elp,tep - 100A	2	EA	3,078.00	6,156
EMT-1 1/2"C-w/PS	20	LF	8.18	164
EMT-1 1/2"C-4#1/0 & 1/6	200	LF	20.16	4,032
pv Rough-in (future system)	1	LS	10,000.00	10,000
Intercom/Door Security Setups:				
IC - ent sta	1	EA	3,684.00	3,684
ICMS master	1	EA	355.00	355
ICSS sub master	1	EA	284.00	284
DR door release	1	EA	213.00	213
ES strike	1	EA	142.00	142
18/2 Belden	500	LF	2.02	1,010
18/4 Belden	100	LF	2.84	284
MC-12/2	100	LF	1.87	187
Door rough in setups w/power & cont. wiring	13	EA	1,526.00	19,838
Security/Technology/Clock/Paging:				
WP - ext. camera	9	EA	3,284.00	29,556
Int. camera	7	EA	2,284.00	15,988
DC door contact	12	EA	151.00	1,812
CR card reader	4	EA	859.00	3,436
DR release	13	EA	333.00	4,329

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Belden cabling	1	EA	6,640.00	6,640
WP wifi	15	EA	290.00	4,350
V/D	29	EA	300.00	8,700
AN V/D	4	EA	350.00	1,400
LCD cable	5	EA	400.00	2,000
Rack, Patch panel and cable management	1	LS	15,000.00	15,000
Clock & paging - allow	1	LS	28,000.00	28,000
UPS System - 24 KW	1	LS	26,500.00	26,500
Head end rack	1	EA	14,208.00	14,208
MDF room fitout	1	EA	8,900.00	8,900
10% OH&P	1	LS	83,899.06	83,899
DJE	1	LS	20,000.00	20,000

				942,890

DIVISION 31 - EARTHWORK

310000 EARTHWORK

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Site -allow(87,000 SF):				
Grading	9,667	SY	1.85	17,884
Cut & Fill	3,000	CY	12.00	36,000
Building-Allow:				
Foundation excavation(580 LF)	516	CY	15.00	7,740
Foundation backfill(580 LF)	344	CY	15.00	5,160
Excavate under slab lines	1	LS	5,000.00	5,000
24" - 12" Gravel base @ slab	805	CY	34.00	27,370
Perimeter foundation drain		NIC		
*Assumes suitable soils				

				99,154

311000 SITE CLEARING

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Allow (No Site Prep Plan):				
Construction entrance	1	LOC	3,000.00	3,000
Construction fence	1,200	LF	11.00	13,200
Erosion control	400	LF	7.25	2,900
Catch basin filter	3	EA	75.00	225

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Saw cut street	279	LF	4.50	1,256
Saw cut site parking	144	LF	6.00	864
Strip & stack topsoil-6"	800	CY	6.50	5,200
Tree removal	22	EA	750.00	16,500
Tree protection	5	EA	450.00	2,250
Site Remove Existing-Allow:				
Street curb	200	LF	22.00	4,400
Bituminous drive /parking	35,000	SF	0.90	31,500
Site curb	600	LF	22.00	13,200
Walk	1,000	SF	1.50	1,500
Misc site prep	87,000	SF	0.15	13,050

				109,045

321000 PAVING SIDEWALKS AND CURBING

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Pavement patch @ utilities		W / Utility		
Concrete apron - 6'	676	SF	13.50	9,126
3 1/2" Bituminous - drive/parking	4,076	SY	27.50	112,090
Bituminous w/hvy duty topcoat		NIC		
Site new granite curb straight	881	LF	42.00	37,002
Site new granite curb radius	246	LF	44.00	10,824
Pavement markings	1	LS	3,500.00	3,500
HC paver	5	EA	310.00	1,550
6" Conc. walk	4,868	SF	8.75	42,595
Bituminous walk		N/A		
12" Gravel paving base @ drives	1,384	CY	32.00	44,288
6" Gravel paving base @ walk	90	CY	34.00	3,060
Patch @ entry & curb	279	LF	25.00	6,975
Exist lot patch @ tie	144	LF	25.00	3,600

				274,610

323000 SITE IMPROVEMENTS

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Site Stair(1 loc):				
Cast conc stair	25	LFR	85.00	2,125
Concrete foundation	2.5	CY	650.00	1,625
Guardrail	10	LF	150.00	1,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Allow:				
Flagpole w/conc ftg	1	EA	9,000.00	9,000
Bollards @ ext equip pad	W / MISC METALS			
Bollards @ OH door	W / MISC METALS			
6" Conc dumpster pad	60	SF	22.00	1,320
12" Gravel base @ Conc dumpster pad	2.5	CY	36.00	90
Retaining wall	48	LF	100.00	4,800
Equipment / dumpster enclosure fence	80	LF	100.00	8,000
DBL gate 6' W @Equipment / dumpster encl	1	EA	4,500.00	4,500
Site sign	1	EA	7,500.00	7,500
Parking / traffic signage	1	LS	1,200.00	1,200
Traffic lights		NIC		
Misc site improvements	1	LS	2,500.00	2,500

				44,160
328000 IRRIGATION		NIC		

				0
329000 LANDSCAPING WORK				
Trees:				
Red Maple (3-3.5" cal)	7	EA	850.00	5,950
Eastern Redbud (2-2.5" cal)	3	EA	700.00	2,100
Common Beech (8-10' B&B)	3	EA	525.00	1,575
Honey Locust (3-3.5" cal B&B)	4	EA	850.00	3,400
American Sycamore (3-3.5" cal B&B)	9	EA	850.00	7,650
Shrubs:				
Red Twig Dogwood (24-30" H/W)	33	EA	125.00	4,125
Daphne (24-30" H/W)	5	EA	125.00	625
Sargent Juniper (24-30" H/W)	15	EA	125.00	1,875
Coastal Leucothoe (24-30" H/W)	6	EA	125.00	750
Russian Arborvitae(30-36" H/W)	9	EA	125.00	1,125
Azalea - Pleasant White (24-30" H/W)	3	EA	125.00	375
Azalea - Guy Jerkes (24-30" H/W)	6	EA	125.00	750
Hicks Yew(24-30" H/W)	54	EA	125.00	6,750
American Arborvitae (24-30" H/W)	1	EA	125.00	125
Perennials, grasses, groundcovers:				
Sedge (5" oc)	28	SF	5.00	140

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Threadleaf Coreopsis (12: oc)	119	SF	5.00	595
Indian Woodoats (12" oc)	47	SF	5.00	235
Blue Fescue (6" oc)	47	SF	5.00	235
Hosta (24" oc)	0	SF	5.00	0
Siberian Iris (12" oc)	50	SF	5.00	250
Fountain Grass (15" oc)	64	SF	5.00	320
Common Periwinkle (18" oc)	177	SF	5.00	885
12-18" Planting soil	118	CY	65.00	7,670
3" Mulch	20	CY	48.00	960
6" Loam	464	CY	65.00	30,160
Rake seed and fertilize lawn	25,072	SF	0.32	8,023

				86,648

DIVISION 33 - UTILITIES

330000 UTILITIES

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
STA Sanitary:				
Site connect exist. SMH - Adj rim	1	LOC	2,500.00	2,500
Sanitary manhole	1	EA	3,850.00	3,850
6" Sewer line - new bldg	90	LF	80.00	7,200
Reroute Sewer line - exist bldg	40	LF	80.00	3,200
APP RM Drainage:				
Site connection	1	LOC	3,000.00	3,000
6" Garage line- new bldg	125	LF	75.00	9,375
Ext. oil/sand separator	1	EA	6,500.00	6,500
Sanitary manhole	1	EA	3,850.00	3,850
Water-New BLDG:				
Street connection	1	LOC	10,000.00	10,000
6" Main	50	LF	95.00	4,750
4" Fire service	173	LF	88.00	15,224
2" Domestic	113	LF	72.00	8,136
Fire gate valve	1	EA	1,350.00	1,350
Dom gate valve	1	EA	1,250.00	1,250
Fire hydrant		NIC		
Walnut St cut & patch	1	LOC	3,500.00	3,500
Water-Existing BLDG:		REMAINS		
Roof Drainage-Allow:				
Downspout boot		N/A		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Perim collection drain		N/A		
Clean out	1	EA	750.00	750
8" Roof drain line	25	LF	82.00	2,050
Site Drainage:				
Street connection w/ new DMH	1	LOC	10,000.00	10,000
Site connect exist. CB - Adj rim	1	LOC	2,500.00	2,500
Yard drain	2	EA	2,200.00	4,400
Catch basin	1	EA	4,000.00	4,000
Typ 12" HDPE drain line	100	LF	85.00	8,500
Yard drain line	120	LF	75.00	9,000
Walnut St cut & patch	1	LOC	3,500.00	3,500
Rain Garden (2 LOC -3,156 SF):				
Perf 6" HDPE drain line	229	LF	38.00	8,702
Perf 12" HDPE drain line	67	LF	55.00	3,685
Catch basin control structure	3	EA	4,500.00	13,500
Jute matting erosion control	650	SF	2.00	1,300
Excavation		W/ 310000		
Loam & seed		W/ 329000		
Electric -New BLDG:				
8" Blast wall 8'H	12	LF	400.00	4,800
Transformer pad	1	EA	2,500.00	2,500
Generator pad	1	EA	3,000.00	3,000
New utility pole		By Others		
A-A Ext duct bank pole -transformer	76	LF	85.00	6,460
B-B Ext duct bank transformer - bldg	10	LF	85.00	850
C-C Ext duct bank gen - bldg	46	LF	75.00	3,450
D-D IT/DATA/CATV /Spare	30	LF	75.00	2,250
Site Lighting:				
Conc parking light pole base	8	EA	775.00	6,200
Trenching @ site light	460	LF	12.00	5,520
Electric -Existing BLDG:				
Ext duct bank New bldg -Existing	10	LF	85.00	850
Mechanical-New BLDG:				
Gas service - Trench and Backfill	89	LF	45.00	4,005
Gas meter pad	1	EA	500.00	500
Walnut St cut & patch	1	LOC	2,500.00	2,500

*Utilities include excavation and backfill
*Excludes Utility Co. back charges

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				198,457

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 1 - RENOVATION OF EXISTING 1ST FLOOR HEADQUARTERS BUILDING				
Phase 3 Concrete:				
Foundation wall infill -dr open	1	LOC	2,500.00	2,500
Phase 3 Earthwork:				
10' Partial basement fill	840	CY	55.00	46,200
Gut 1st flr office	688	GSF	8.00	5,504
Gut 1st flr APP RM	1,453	GSF	8.00	11,624
Renovation 1st flr Training Rm(2,141 GSF):				
Concrete:				
Cut & patch slab & plumbing	1	LS	5,000.00	5,000
Misc slab patching	2,141	GSF	1.00	2,141
Masonry-Complete:				
Cut and Point Exterior	2,786	SF	30.00	83,580
West wall infill passage open(15'x10')	150	SF	150.00	22,500
Partial infill sgl dr @ new DH window open	1	LOC	2,500.00	2,500
Infill sgl dr / passage open	2	LOC	1,800.00	3,600
Cut in /repair new sgl dr open	1	LOC	2,200.00	2,200
Repair @ tower vest wall rem'l	1	LOC	2,500.00	2,500
Int masonry restoration & partitions		NIC		
Misc metals	2,141	GSF	2.00	4,282
Int blocking	2,141	GSF	1.00	2,141
Int trim	2,141	GSF	1.00	2,141
Casework:				
Lav counter (2 EA)	11	LF	265.00	2,915
Training rm kitchenette	11	LF	600.00	6,600
Training rm coat storage	8	LF	45.00	360
Misc Casework	2,141	GSF	1.00	2,141
Int sealants	2,141	GSF	0.50	1,071
Ext sealants		W/ UNIT COST		
Patch / flash roof @ MEP	1	LS	2,500.00	2,500
Reinsulate ext wall 14'H	2,786	SF	7.50	20,895
Firestopping	2,141	GSF	0.75	1,606
Interior Door, Frame, Glass, Glazing & HDW:				
Vestibule - sgl	2	EA	3,000.00	6,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Training rm -sgl	1	EA	1,500.00	1,500
Multi user toilet rm	2	EA	1,250.00	2,500
Storage - sgl	1	EA	1,100.00	1,100
Access panels	1	LS	750.00	750
Exterior Door, Frame, Glass, Glazing & HDW:				
Entry -sgl	2	EA	5,000.00	10,000
Auto opener -allow	1	EA	5,500.00	5,500
New Window:				
DH window replacement(4'x6')	120	SF	100.00	12,000
OH door infill (14' x 14')	196	SF	105.00	20,580
GWB Partition-Complete:				
Ext wall fur w/ 1 lyr gyp	3,184	SF	9.50	30,248
Typical	1,300	SF	12.00	15,600
Stair hall	175	SF	15.00	2,625
Chase GWB - one side	1,048	SF	10.00	10,480
Misc GWB assemblies	2,141	GSF	1.00	2,141
Public Sgl User Toilet Room (2 EA):				
Ceramic floor tile	280	SF	36.00	10,080
Ceramic wall base	90	LF	12.50	1,125
SGL threshold	2	EA	150.00	300
Ceramic wall tile		NIC		
Flooring & Wall Base:				
Floor prep	2,141	GSF	4.00	8,564
Stone tile -Vestibule	194	SF	35.00	6,790
Stone tile -Lobby	482	SF	35.00	16,870
Carpet tile -Training Rm	977	SF	6.00	5,862
Rubber tile - Storage Rm	202	SF	15.00	3,030
Rubber base	450	LF	2.95	1,328
Ceiling:				
ACT - Public Sgl User Toilet Room (2 EA)	280	SF	7.00	1,960
GWB -Vestibule	194	SF	12.00	2,328
ACT -Lobby	482	SF	7.00	3,374
ACT -Training Rm	977	SF	7.00	6,839
ACT -Storage Rm	202	SF	7.00	1,414
Interior painting	2,141	GSF	4.00	8,564
Solid Plastic Toilet Partition CLG Hung:				
HC stall	2	EA	1,350.00	2,700
Standard partition	2	EA	1,200.00	2,400

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Allow Owner Furnished And Contractor Install:				
Paper towel dispensers/disposal	2	EA	75.00	150
Toilet tissue dispensers	4	EA	75.00	300
Soap dispenser	4	EA	75.00	300
Allow GC Furnished And Install:				
Grab bars	4	EA	95.00	380
Tilt mirror	4	EA	250.00	1,000
Sanitary prod. vendors	1	EA	75.00	75
Sanitary prod. disposal units	2	EA	60.00	120
Coat hook	4	EA	35.00	140
Baby changing stations	2	EA	450.00	900
Lobby display case	1	EA	2,500.00	2,500
Pamphlet rack	1	EA	1,500.00	1,500
Marker bd & tack boards	1	LS	2,500.00	2,500
Misc specialties	2,141	GSF	1.00	2,141
Misc. Equipment:				
Coffee kitchen equipment	1	LS	2,500.00	2,500
Projection screen	1	EA	4,500.00	4,500
AV equipment		NIC		
Window blinds:				
DH window replacement(4'x6')	120	SF	7.00	840
OH door infill (14' x 14')	196	SF	7.00	1,372
Entry mat	2	EA	2,500.00	5,000
Fire protection	2,141	GSF	12.00	25,692
Plumbing Fixtures:				
Water closet	2	EA	5,500.00	11,000
ADA Water closet	2	EA	5,500.00	11,000
Ctr mtd lav	4	EA	5,500.00	22,000
Kitchen Sink	1	EA	5,500.00	5,500
Drinking fountain	1	EA	5,500.00	5,500
Misc plumbing	2,141	GSF	10.00	21,410
HVAC	2,141	GSF	40.00	85,640
Electrical	2,141	GSF	40.00	85,640
Exterior Restoration & Repairs:				
Ext painting		NIC		
Masonry & Trim		NIC		
UL Window replacement		NIC		
Roofing replacement		NIC		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Interior Restoration & Repairs:				
Upgrade stair		NIC		
Renovation Basement		NIC		
Renovation 2nd floor		NIC		
Renovation Tower		NIC		
Future Elevator/Stair		NIC		
Site Improvements		W/Base Estimate		
New building utilities		W/Base Estimate		

SUBTOTAL				740,652
GENERAL CONDITIONS		6 %		44,439

SUBTOTAL				785,091
GENERAL ADMINISTRATIVE O&P		5 %		39,255

SUBTOTAL				824,345
P&P BOND AND INSURANCE		1.85 %		15,250

SUBTOTAL				839,596
PERMIT		0 %		0

SUBTOTAL				839,596
DESIGN CONTINGENCY		10 %		83,960

SUBTOTAL				923,555
ESCALATION		6 %		55,413

TOTAL ALTERNATE NO. 1				1,008,338

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 2 - DEDUCT CUT AND POINT				
Deduct				
Cut and Point Exterior	-2,786	SF	30.00	-83,580
SUBTOTAL				-83,580
GENERAL CONDITIONS		6 %		-5,015
SUBTOTAL				-88,595
GENERAL ADMINISTRATIVE O&P		5 %		-4,430
SUBTOTAL				-93,025
P&P BOND AND INSURANCE		1.85 %		-1,721
SUBTOTAL				-94,745
PERMIT		0 %		0
SUBTOTAL				-94,745
DESIGN CONTINGENCY		10 %		-9,475
SUBTOTAL				-104,220
ESCALATION		6 %		-6,253
TOTAL - ALTERNATE NO. 2				-113,787

A.M. Fogarty & Assoc., Inc.
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"Construction Cost Consultants"

Milton Atherton Fire Station
Milton, MA

December 16, 2019

GRAND SUMMARY

NEW BUILDING AND SITEWORK		$2,845,931
RENOVATION		$1,774,842
HAZARDOUS MATERIALS ABATEMENT *W/RENOVATION ALTERNATE*		

TOTAL DIRECT COST		$4,620,773
GENERAL CONDITIONS	6%	$277,246
GENERAL ADMINISTRATIVE O&P	5%	$244,901
P&P BOND AND INSURANCE	1.85%	$95,144
PERMIT WAIVED	0%	$0
DESIGN CONTINGENCY	7.5%	$392,855
ESCALATION (Summer 2021)	6%	$337,855

TOTAL CONSTRUCTION COST		$5,968,774
COST PER SF		$502.97

OPTION:

OPTION NO. 1 - REPLACE EXISTING STATION TBD

EXCLUDES :
1. FF&E
2. IT & AV EQUIPMENT INSTALLATION. AV CABLING
3. PUBLIC SAFETY ALERTING/COMMUNICATION SYSTEM
4. COMMUNICATION EQUIPMENT & INSTALLATION
5. CATV EQUIPMENT & INSTALLATION

PROJECT:	Milton Atherton Fire Station	NO. OF SQ. FT.:	5,031
LOCATION:	Milton, MA	COST PER SQ. FT.:	565.68
CLIENT:	Context Architecture		
DATE:	16-Dec-19		

No. 19093

FIRE STATION ADDITION

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 02 - EXISTING CONDITIONS			
022820 HAZARDOUS MATERIAL REMEDIATION	0	0%	0.00
024116 DEMOLITION	0	0%	0.00
DIVISION 03 - CONCRETE			
033000 CAST IN PLACE CONCRETE	186,375	7%	37.05
DIVISION 04 - MASONRY			
042000 UNIT MASONRY*	314,803	11%	62.57
DIVISION 05 - METALS			
051200 STRUCTURAL STEEL	127,139	4%	25.27
053000 METAL DECKING	12,369	0%	2.46
054100 EXTERIOR METAL FRAMING & SHEATHING	0	0%	0.00
055000 METAL FABRICATIONS	92,928	3%	18.47
DIVISION 06 - WOOD, PLASTICS & COMPOSITES			
061000 ROUGH CARPENTRY	154,287	5%	30.67
062000 FINISH CARPENTRY	38,498	1%	7.65
DIVISION 07 - THERMAL & MOISTURE PROTECTION			
071001 DAMPPROOF., WATERPROOF. & SEALANT*	24,901	1%	4.95
070002 ROOFING & FLASHING*	64,130	2%	12.75
072100 THERMAL INSULATION	33,755	1%	6.71
072500 WEATHER BARRIER,VAPOR RETARDERS & AIR BA	47,068	2%	9.36
074000 EXT SIDING & TRIM	110,109	4%	21.89
077000 ROOF ACCESSORIES	28,300	1%	5.63
078400 FIRESTOPPING	2,000	0%	0.40
DIVISION 08 - OPENINGS			
080008 GLASS AND GLAZING*	3,960	0%	0.79
081113 HOLLOW METAL DOORS AND FRAMES	12,035	0%	2.39
081416 FLUSH WOOD DOORS	8,750	0%	1.74
083100 ACCESS DOORS AND PANELS	4,500	0%	0.89
083613 SECTIONAL OVERHEAD DOORS	18,000	1%	3.58
084000 ALUM ENTRANCES & STOREFRONTS	9,500	0%	1.89
085414 WINDOWS	73,600	3%	14.63
085800 ALUM INTERIOR SLIDING WINDOW	0	0%	0.00
087100 DOOR HARDWARE	16,250	1%	3.23
089000 ARCHITECTURAL LOUVERS & VENTS	0	0%	0.00

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 09 - FINISHES			
090003 TILING, CERAMIC & STONE *	0	0%	0.00
090006 RESILIENT FLOORING*	25,498	1%	5.07
090009 PAINTING*	25,621	1%	5.09
092900 GYPSUM WALLBOARD ASSEMBLIES	37,277	1%	7.41
095100 ACOUSTICAL CEILING SYSTEMS*	0	0%	0.00
096723 SEAMLESS EPOXY FLOORING	35,172	1%	6.99
096810 CARPET TILE*	0	0%	0.00
DIVISION 10 - SPECIALTIES			
101100 VISUAL DISPLAY SURFACES	1,500	0%	0.30
101400 SIGNAGE	7,575	0%	1.51
102800 TOILET ACCESSORIES	1,400	0%	0.28
104400 SAFETY SPECIALTIES	2,000	0%	0.40
109000 MISC. SPECIALTIES	32,100	1%	6.38
DIVISION 11 - EQUIPMENT			
119000 MISC. EQUIPMENT	21,500	1%	4.27
DIVISION 12 - FURNISHINGS			
122400 INTERIOR ROLLER SHADES	1,309	0%	0.26
DIVISION 13 - SPECIAL CONSTRUCTION			
DIVISION 13 - SPECIAL CONSTRUCTION	0	0%	0.00
DIVISION 14 - CONVEYING EQUIPMENT			
142000 ELEVATOR*	0	0%	0.00
DIVISION 21 - FIRE SUPPRESSION			
210000 FIRE PROTECTION*	47,795	2%	9.50
DIVISION 22 - PLUMBING			
220000 PLUMBING*	105,185	4%	20.91
DIVISION 23 - HVAC			
230000 HVAC*	284,288	10%	56.51
DIVISION 26 - ELECTRICAL			
260000 ELECTRICAL	276,869	10%	55.03
DIVISION 31 - EARTHWORK			
310000 EARTHWORK	60,550	2%	12.04
311000 SITE CLEARING	36,911	1%	7.34

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 32 - EXTERIOR IMPROVEMENTS			
321000 PAVING SIDEWALKS AND CURBING	66,849	2%	13.29
323000 SITE IMPROVEMENTS	138,014	5%	27.43
328000 IRRIGATION	0	0%	0.00
329000 LANDSCAPING WORK	45,334	2%	9.01
DIVISION 33 - UTILITIES			
330000 UTILITIES	209,927	7%	41.73

DIRECT COST	2,845,931	100%	565.68

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 02 - EXISTING CONDITIONS				
022820 HAZARDOUS MATERIAL REMEDIATION	W/RENOVATION			

				0
024116 DEMOLITION	W/RENOVATION			

				0
DIVISION 03 - CONCRETE				
033000 CAST IN PLACE CONCRETE				
Column Footing (25 ea):				
3,500 psi, NW, (incl. placement)	36	CY	210.00	7,560
Formwork	1,000	SFCA	6.50	6,500
Rebar	2,700	LBS	1.18	3,186
**unit cost $479.06*				
Wall Footing (3'x 1' x 250 lf):				
3,500 psi, NW, (incl. placement)	28	CY	185.00	5,180
Formwork	400	SFCA	8.00	3,200
Stepped Formwork	100	SFCA	10.00	1,000
Rebar	1,400	LBS	1.18	1,652
Tie to exist	3	LOC	250.00	750
**unit cost $394.00*				
Foundation Wall (12- 16" x 4-8' H x lf):				
3,500 psi, NW, (incl. placement)	67	CY	205.00	13,735
Formwork	2,400	SFCA	12.50	30,000
Stepped Formwork	300	SFCA	10.00	3,000
Masonry shelf	184	LF	18.00	3,312
Tie to exist	2	LOC	250.00	500
Reinforcing steel	10,050	LBS	1.18	11,859
**unit cost $931.43*				
Foundation Wall (12- 16" x 10-12' H x 38 lf):				
3,500 psi, NW, (incl. placement)	19	CY	205.00	3,895
Formwork	600	SFCA	15.00	9,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Stepped Formwork	200	SFCA	18.00	3,600
Masonry shelf	12	LF	18.00	216
Tie to exist	1	LOC	250.00	250
Reinforcing steel	2,850	LBS	1.18	3,363
**unit cost $1,069.68*				
Allow:				
Pier/Pilaster	5	CY	950.00	4,750
5" Slab on Grade -STA :				
3,500 psi, NW, (incl. placement)	19	CY	210.00	3,990
6x6 W2.9 X W2.9	1,211	SF	1.85	2,240
Barrier One Admix		NIC		
Control Joint	90	LF	3.80	342
Trowel Finish	1,211	SF	3.00	3,633
*unit cost $8.43				
8" Slab on grade - apparatus bay & supply area :				
3,500 psi, NW, (incl. placement)	36.5	CY	210.00	7,665
6x6 W2.9 X W2.9 -top	1,468	SF	1.48	2,173
Reinforcing steel - 1.4 lbs/sf	2,055	LBS	1.30	2,672
Barrier One Admix		NIC		
Control Joint	100	LF	3.80	380
Trowel Finish	1,468	SF	3.00	4,404
*unit cost $11.78				
Form trench drain	30	LF	44.00	1,320
Slab thickening	3	CY	208.00	624
Conc. Deck Fill-total 5":				
1st Floor	1,194	SF	9.00	10,746
2nd Floor	1,160	SF	9.00	10,440
2nd Floor -roof deck	380	SF	9.00	3,420
Premium @ deck stair (3 riser)	1	LS	500.00	500
Metal Pan Stair Concrete Fill:				
Stair (B-2nd)	2	FLT	1,500.00	3,000
3'H Fitness rm (6 risers w/ landing)	1	LS	750.00	750
Conc slab sealer w/ Hardener:				
Building /Grounds	193	SF	2.00	386
Int. mech equip pads	1	LS	2,500.00	2,500
2" Rigid slab insul. 2' @ perim GF	434	SF	4.00	1,736
2" Rigid found insul.	1,000	SF	4.00	4,000
Slab vapor barrier 15 mil - 100%	2,679	SF	1.10	2,947

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				186,375
DIVISION 04 - MASONRY				
042000 UNIT MASONRY*				
Exterior Wall :				
Basement 8" CMU Back Up	700	SF	28.50	19,950
APP RM 8" CMU Back Up	1,850	SF	28.50	52,725
4" Granite Veneer Basement wall	700	SF	120.00	84,000
4" Granite Veneer Exposed fnd wall	550	SF	120.00	66,000
Cap stone @ Granite Veneer	164	LF	150.00	24,600
Stone window & dr trim trim	112	LF	150.00	16,800
Stainless Steel Masonry flashing		INC.		
APP RM Interior Masonry Partition:				
APP support 4" CMU int of ext wall		N/A		
6" CMU	372	SF	23.00	8,556
8" CMU	1,622	SF	26.00	42,172
Glazed CMU premium		NIC		

				314,803
DIVISION 05 - METALS				
051200 STRUCTURAL STEEL				
Steel Floor Framing:				
1st Floor (12lbs/sf @ 1,194 SF)	7.164	TON	4,800.00	34,387
2nd Floor (12 lbs/sf @ 1,160 SF)	6.96	TON	4,800.00	33,408
2nd Floor -roof deck (12 lbs/sf @ 380 SF)	2.28	TON	4,800.00	10,944
Premium @ deck stair (3 riser)	1	LS	10,000.00	10,000
Supplemental Steel @ Wood Roof Framing:				
Sloped Roof (5#/ 3,200 SF)	8	TON	4,800.00	38,400

				127,139
053000 METAL DECKING				
Shear stud (10/100 sf)	273	EA	5.25	1,433

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1st floor 2" x 20 ga comp deck	1,194	SF	4.00	4,776
2nd floor 2" x 20 ga comp deck	1,160	SF	4.00	4,640
2nd Floor -roof deck 2" x 20 ga comp deck	380	SF	4.00	1,520

				12,369
054100 EXTERIOR METAL FRAMING & SHEATHING				
*carried w/ rough carpentry				

				0
055000 METAL FABRICATIONS				
Metal Pan Stair & Rails:				
Stair (B-2nd)	2	FLT	25,000.00	50,000
3'H Fitness rm (6 risers w/ landing)	1	LS	7,500.00	7,500
SS surround @ Decon shower /basin	1	EA	4,000.00	4,000
SS shelf @ Decon rm	5	LF	250.00	1,250
SS counter @ Decon wash rm	5	LF	300.00	1,500
Ext Galv antenna support	1	LOC	3,500.00	3,500
Fire pole		N/A		
OH door surround-plt & angle	1	EA	750.00	750
Galv Slab edge angle @ OH	14	LF	48.00	672
Angle clip @ CMU partitions	42	EA	135.00	5,670
Loose lintels	35	LF	33.00	1,155
Galv lintel	20	LF	45.00	900
Bollard @ OH door	2	EA	1,100.00	2,200
Bollards @ ext equip pad	8	EA	1,100.00	8,800
Misc. bldg. metals	5,031	GSF	1.00	5,031

				92,928
DIVISION 06 - WOOD, PLASTICS & COMPOSITES				
061000 ROUGH CARPENTRY				
Exterior Wall Framing:				
6" x 16 ga. ext 1st Flr APP support wall	900	SF	10.00	9,000
Wd 2x6 2nd Flr wall ,dormer & gable	1,200	SF	10.00	12,000
Wd 2x6 ext deck low wall	240	SF	10.00	2,400
8" x 16 ga. ext APP UL wall		N/A		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1/2" Dens Glass Wall Sheathing	2,340	SF	3.50	8,190
1/2" ply @ Fiber cement panel	3,000	SF	3.50	10,500
Weather Resis Barrier @ Fiber cement panel	3,000	SF	0.85	2,550
Wood Roof Framing:				
Sloped roof	3200	SF	25.00	80,000
Sloped roof overframe	500	SF	10.00	5,000
Roof sheathing	3200	SF	3.75	12,000
Frame Ext :				
Fascia w/soffit	151	LF	12.00	1,812
Rake w/soffit	262	LF	12.00	3,144
Ext wall -Blk perim wind,dr & louver	756	LF	4.85	3,667
Interior blocking	5,031	GSF	0.30	1,509
Misc. rough carpentry	5,031	GSF	0.50	2,516

				154,287
062000 FINISH CARPENTRY				
Running Trim:				
Misc interior wd trim STA	5,031	GSF	0.75	3,773
Misc Casework-Allow:				
Laundry rm shelf	5	LF	45.00	225
Lobby pamphlet rack	1	EA	1,000.00	1,000
Dorm rm wardrobe	16	EA	2,000.00	32,000
Misc Casework & shelving	1	LS	1,500.00	1,500
*Dorm and office furniture - NIC				
*Includes section 066100				

				38,498
DIVISION 07 - THERMAL & MOISTURE PROTECTION				
071001 DAMPPROOF., WATERPROOF. & SEALANT*				
Basement Found. waterproofing	700	SF	8.00	5,600
Found. Dampproofing	1,100	SF	5.50	6,050
Found prot bld	1,800	SF	3.00	5,400

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Ext wind, OH , dr & louver sealant	756	LF	3.75	2,835
Misc. exterior sealants	1	LS	2,500.00	2,500
Int joint sealants	5,031	GSF	0.50	2,516
*Includes sections 071600 & 079200				

				24,901
070002 ROOFING & FLASHING*				
New Sloped Roof System:				
Arch Grade Fiberglass shingle(30YR)	3,200	SF	7.50	24,000
Ice and water shield	1,600	SF	4.50	7,200
Misc Flashing, guuters & downspouts	1	LS	3,000.00	3,000
A & V barrier below Sloped Roof insul(R30	3,000	SF	5.50	16,500
Deck Flat Roof System:				
PVC membrane, cover bd & insul	380	SF	25.00	9,500
Flash roof drain	1	EA	250.00	250
Low wall cap	60	LF	25.00	1,500
Base flashing	60	LF	28.00	1,680
Membrane flashing	1	LS	500.00	500
*Includes sections 075423 & 076200				

				64,130
072100 THERMAL INSULATION				
2" Rigid slab insul.		W / DIV 3		
2" Rigid found insul.		W / DIV 3		
4" rock wool ext wall insul	3,900	SF	4.65	18,135
4" rigid ext wall insul	700	SF	4.10	2,870
Spray fireproofing		NIC		
Sloped Roof insul(R30)	3,000	SF	4.25	12,750

				33,755
072500 WEATHER BARRIER,VAPOR RETARDERS & AIR BARRIERS				
Air and Vapor Barrier:				
Seal slab to wall VB	250	LF	10.00	2,500
Exterior wall - Adhered AVB	3,900	SF	7.50	29,250
Exterior Rake/Fascia - Adhered AVB	1,236	SF	7.50	9,270

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Ext wall air & vapor barrier - perim open	756	LF	8.00	6,048
*Includes sections 072500 & 0726000				

				47,068
074000 EXT SIDING & TRIM				
Ext Siding (Pre-Primed & Finished):				
Fiber cement siding-10" exp ship lap	3,000	SF	20.00	60,000
Red cedar shake shingle	950	SF	18.00	17,100
Deck Low Wall:				
Fiber cement siding-10" exp ship lap	240	SF	20.00	4,800
Air Cavity Clips	4,100	SF	1.50	6,150
*Red Cedar shingles are back painted and sealed				
Ext PVC Trim :				
Corner board	212	LF	11.50	2,438
Horiz band	113	LF	10.00	1,130
Fascia w/soffit	151	LF	15.00	2,265
Rake w/soffit	262	LF	22.00	5,764
Low wall cap	60	LF	12.50	750
Window sill/trim	562	LF	12.00	6,744
Door trim	40	LF	9.50	380
OH door trim	42	LF	14.00	588
Misc ext trim	1	LS	2,000.00	2,000
*Includes sections 066000 & 074646				

				110,109
077000 ROOF ACCESSORIES				
Rail @ - patio low wall	60	LF	250.00	15,000
Premium - patio pedestal pavers	380	SF	35.00	13,300
*Includes sections 077233 & 077600				

				28,300
078400 FIRESTOPPING				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Fire stopping	1	LS	2,000.00	2,000

				2,000
DIVISION 08 - OPENINGS				
080008 GLASS AND GLAZING*				
Allow- Interior Glass & Glazing- 1/4" Tempered Glass @:				
Misc HM Frame Sidelights & windows	50	SF	48.00	2,400
HM doors		W/ 081113		
WD doors		W/ 081416		
Allow -Mirror - 6'H:				
Fitness rm	24	SF	65.00	1,560

				3,960
081113 HOLLOW METAL DOORS AND FRAMES				
Exterior Door & Frames		W / 084000		
Interior HM Frames:				
Door -sgl	13	EA	265.00	3,445
Door -dbl	2	EA	295.00	590
Misc HM Sidelights & windows	50	SF	50.00	2,500
7'H Interior APP HM Doors (Inc Glass & Glazing):				
Station conn - sgl	1	EA	550.00	550
Decon Sgl user toilet/shw rm	1	EA	550.00	550
APP support rm - sgl	4	EA	550.00	2,200
APP support rm - dbl	1	EA	1,100.00	1,100
Basement Storage - dbl	1	EA	1,100.00	1,100

				12,035
081416 FLUSH WOOD DOORS				
7'H Station Interior (pre-finish) Wood Doors (Inc Glass & Glazing):				
Stair hall - sgl	2	EA	2,500.00	5,000
Dorm rm	4	EA	750.00	3,000
Fitness -sgl	1	EA	750.00	750

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				8,750
083100 ACCESS DOORS AND PANELS				
Access panels -allow	10	EA	450.00	4,500

				4,500
083613 SECTIONAL OVERHEAD DOORS				
O.H. Door (Elec. Op) - 14'x14'	1	EA	18,000.00	18,000

				18,000
084000 ALUM ENTRANCES & STOREFRONTS				
Ext Insul Metal w/ Full Light Door, Frame, Hdw, Glass & Glazing:				
7'H Basement lobby entry - sgl	1	EA	4,500.00	4,500
7'H 1st Flr Apparatus rm egress - sgl	1	EA	2,500.00	2,500
7'H Deck access - sgl	1	EA	2,500.00	2,500
Auto opener		NIC		
Ext Entry Alum storefront		NIC		
Ext Alum storefront Window		NIC		

				9,500
085414 WINDOWS				
Ext Alum Clad wood window frame, Glass & Glazing:				
Allow	800	SF	92.00	73,600
*Marvin Integrity primed int and black ext				

				73,600
085800 ALUM INTERIOR SLIDING WINDOW		N/A		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				0

087100 DOOR HARDWARE

Ext Door Hdw Set		W / Unit cost		
Int App. Rm HM Door Hdw Set:				
Station conn - sgl	1	EA	1,200.00	1,200
Decon Sgl user toilet/shw rm	1	EA	850.00	850
APP support rm - sgl	4	EA	850.00	3,400
APP support rm - dbl	1	EA	1,300.00	1,300
Basement Storage - dbl	1	EA	750.00	750
Int Sta. WD Door - Hdw Set:				
Stair hall - sgl	2	EA	2,500.00	5,000
Dorm rm	4	EA	750.00	3,000
Fitness -sgl	1	EA	750.00	750
*Card access system, auto openers, OH doors and alum entry hardware specified elsewhere				

				16,250

089000 ARCHITECTURAL LOUVERS & VENTS

Alum louvers -allow		W/HVAC		

				0

DIVISION 09 - FINISHES

090003 TILING, CERAMIC & STONE *		N/A		

				0

090006 RESILIENT FLOORING*

Water vapor emission control sys	832	SF	5.50	4,576
Fitness rm rubber sports flooring	480	SF	18.00	8,640
Rubber tile	112	SF	16.00	1,792

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
VCT	1,118	SF	5.00	5,590
Rubber wall base	1	LS	1,500.00	1,500
Rubber Stair Finish:				
Stair (B-2nd)	2	FLT	1,450.00	2,900
3'H Fitness rm (6 risers w/ landing)	1	LS	500.00	500

				25,498
090009 PAINTING*				
Int. painting:				
Station	2,554	GSF	3.90	9,961
Apparatus & support rm	2,477	GSF	3.90	9,660
*Excludes wall covering				
Exterior Painting (2) Coat field painted:				
Doors & windows		N/A		
Fiber cement siding	3,000	SF	3.00	
Red cedar shake shingle		N/A		
Exterior Painting PVC Trim	1,500	SF	4.00	6,000

				25,621
092900 GYPSUM WALLBOARD ASSEMBLIES				
1 lyr 5/8" at exist wall	300	SF	2.10	630
2nd flr STA Partitions :				
Typical	810	SF	10.45	8,465
Stair hall	190	SF	16.00	3,040
Gyp Ceiling -100%:				
2nd flr Gyp ceiling	1,160	SF	13.00	15,080
APP sloped Ceiling		N/A		
Gyp soffit	5031	GSF	2.00	10,062
*GWB includes sound attenuation, tape and joint compound finish				

				37,277
095100 ACOUSTICAL CEILING SYSTEMS*				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
STA ACT - 2x2x3/4		NIC		

				0
096723 SEAMLESS EPOXY FLOORING				
Epoxy Flooring W/ Int wall Base:				
APP Bay & support areas	1,954	SF	18.00	35,172

				35,172
096810 CARPET TILE*		N/A		

				0
DIVISION 10 - SPECIALTIES				
101100 VISUAL DISPLAY SURFACES				
Addition & Renovation - Allow:				
Tack board	1	LS	750.00	750
Marker white board	1	LS	750.00	750
Motor op projection screen		NIC		

				1,500
101400 SIGNAGE				
Addition & Renovation - Allow:				
Interior door signage	15	EA	125.00	1,875
Dedication plaque	1	EA	3,200.00	3,200
Misc ext signage	1	LS	2,500.00	2,500
*Site signage is included w/ 323000				

				7,575

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
102800 TOILET ACCESSORIES				
Allow Owner Furnished Contractor Install:				
Paper towel dispenser/disposal	1	EA	75.00	75
Toilet tissue dispenser	1	EA	75.00	75
Soap dispenser	1	EA	75.00	75
Allow GC Furnished And Install:				
Hand dryer		NIC		
Toilet grab bars	2	EA	95.00	190
Framed mirror	1	EA	250.00	250
Decon shower accessories	1	EA	400.00	400
Coat hook	1	EA	35.00	35
SS Mop sink splash	1	EA	150.00	150
Janitor accessories	1	RM	150.00	150
*Excludes work rm accessories				

				1,400
104400 SAFETY SPECIALTIES				
Allow:				
Fire extinguishers & cab	2	EA	450.00	900
Fire extinguishers & bracket	2	EA	275.00	550
AED cab	1	EA	550.00	550

				2,000
109000 MISC. SPECIALTIES				
Metal Locker - Allow:				
Turn out gear - 30"w x24"D full HT	16	EA	1,850.00	29,600
Fitness locker		NIC		
Lobby entry mat	1	EA	2,500.00	2,500

				32,100

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 11 - EQUIPMENT				
119000 MISC. EQUIPMENT				
Fitness equipment		NIC		
Janitor Closet Appliance :				
Washer		W/ FF&E		
Dryer		W/ FF&E		
App. Room -Allow:				
Compressor		By Owner		
Extractor washer	1	LS	7,500.00	7,500
Gear drying cab	1	LS	7,500.00	7,500
~~Ice Maker 100#~~	~~1~~	~~EA~~	~~1,500.00~~	~~1,500~~
Wall mtd hose reel	1	EA	2,500.00	2,500
Hose storage & drying racks	1	LS	2,500.00	2,500

				21,500
DIVISION 12 - FURNISHINGS				
122400 INTERIOR ROLLER SHADES				
Manual Op Roller Shade:				
Station	238	SF	5.50	1,309
APP RM & Stairhall		NIC		

				1,309
DIVISION 13 - SPECIAL CONSTRUCTION				
Allow:				
Vehicle exhaust system		W/HVAC ???		

				0
DIVISION 14 - CONVEYING EQUIPMENT				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
142000 ELEVATOR*		N/A		

				0
DIVISION 21 - FIRE SUPPRESSION				
210000 FIRE PROTECTION*				
Fire Protection	5,031	SF	9.50	47,795
*Excludes fire pump				

				47,795
DIVISION 22 - PLUMBING				
220000 PLUMBING*				
Fixtures per arch):				
P- 1 Water closet	3	EA	1,850.00	5,550
P- 2 Wall lav	1	EA	1,275.00	1,275
P- 3 Ctr mtd lav	2	EA	1,275.00	2,550
P-8 Laundry Tub	1	EA	1,425.00	1,425
P-9 Decon sink w/ eye wash	1	EA	2,500.00	2,500
P- 5 Mop receptor	2	EA	1,400.00	2,800
P- 6 Mop receptor	1	EA	1,975.00	1,975
P - 10 Decon shower	1	EA	3,200.00	3,200
P-11 APP Staff shower	1	EA	2,400.00	2,400
P - 4 STA Staff shower	2	EA	2,400.00	4,800
P - 12 Hose reel	3	EA	1,200.00	3,600
P - 14 Kitchen sink	1	EA	1,550.00	1,550
P- 16 ER Eye wash	1	EA	1,875.00	1,875
Fixture connection	20	EA	300.00	6,000
Hose bib	3	EA	430.00	1,290
Wall Hydrant	2	EA	430.00	860
P-7 Laundry conn	2	LOC	450.00	900
Ice maker connection	2	LOC	400.00	800
Extractor conn	1	LOC	450.00	450
Hot Water System:				
Hot water recirculation	1	EA	950.00	950
HWH - 1 Gas water heater 30,000 btu	1	LS	4,500.00	4,500
MV-1 Temp valve	1	EA	2,600.00	2,600
HW piping, valve and connection	1	LS	3,000.00	3,000
4" Flue	60	LF	48.50	2,910

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Sanitary System				
Underground D/W/V Pipe:				
2"	30	LF	38.00	1,140
4"	150	LF	49.00	7,350
4" - FD A	10	EA	650.00	6,500
Sewage ejector	1	EA	12,000.00	12,000
Above Ground D/W/V Pipe:				
2"-4"	750	LF	34.00	25,500
Electric Trap Primer	1	LS	4,200.00	4,200
Domestic Piping:				
Branch	550	LF	26.00	14,300
Main	550	LF	41.00	22,550
1" Pipe Insulation:				
Branch	550	LF	7.75	4,263
Main	550	LF	9.50	5,225
Gas:				
1" - 2"	150	LF	60.00	9,000
Appliance connection	1	EA	300.00	300
Boiler Connections	3	EA	1,000.00	3,000
Boiler Room Master shut off	1	EA	2,650.00	2,650
Meter rough in	1	EA	1,200.00	1,200
Garage Drainage:				
4" Drain vent	150	LF	48.00	7,200
4" Under slab	200	LF	46.00	9,200
Floor cleanout	4	EA	600.00	2,400
Garage drain catch basin	2	EA	1,200.00	2,400
Sand & gas separator		W /site		
Backflow preventer	1	LS	1,850.00	1,850
APP Trench drain grate	92	LF	85.00	7,820
Air compressor	1	EA	7,500.00	7,500
1 1/2" Pipe	150	LF	28.00	4,200
Garage nozzle	3	EA	950.00	2,850
Misc.:				
1" RPBP - Wash down	1	EA	1,150.00	1,150
Misc. Valves	1	LS	1,500.00	1,500
Underground Water Service:				
Domestic	10	LF	115.00	1,150
Back flow preventer (mech)	1	EA	500.00	500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Service rough in and 4" BFP valve	1	EA	4,450.00	4,450
Test, Perm, Clean, Misc	1	LS	15,000.00	15,000

				248,108

ADDITION & RENOVATION SF TOTAL:	11,867
COST PER SF:	$20.91

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Plumbing - Addition	5,031	SF	20.91	105,185

				105,185
DIVISION 23 - HVAC				
230000 HVAC*				
Boiler (Hot Water) Schedule:				
B-1 300 MBH	1	EA	10,000.00	10,000
B-2 300 MBH	1	EA	10,000.00	10,000
4" Flue	65	LF	48.00	3,120
6" Flue	65	LF	57.00	3,705
P-1	1	EA	1,400.00	1,400
P-2	1	EA	1,400.00	1,400
Expansion tank and air separator	1	LS	6,500.00	6,500
Glycol treatment	1	LS	7,500.00	7,500
Neutralization kit	1	EA	1,200.00	1,200
Boiler rough in and trim	1	LS	5,000.00	5,000
Energy Recovery Ventilator (Packaged DX Cooling & Indirect Gas Heating:				
AHU-1	2,500	CFM	16.00	40,000
VRF System:				
AC-1-1 (4.0 tons)	4	EA	4,800.00	19,200
AC-1-2 (0.5 tons)	1	EA	2,800.00	2,800
AC-1-3 (1.0 tons)	1	EA	3,100.00	3,100
AC-1-4 (0.5 tons)	1	EA	2,800.00	2,800
AC-1-5 (1.0 tons)	1	EA	3,100.00	3,100
AC-1-6 (1.0 tons)	1	EA	3,100.00	3,100
ACCU:				
ACCU-1 5 TON	2	EA	12,500.00	25,000
ACCU-2 12.5 TON	2	EA	24,000.00	48,000
BC Controller Schedule:				
BC-1	1	EA	10,500.00	10,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
BC-2	1	EA	10,500.00	10,500
Refrigerant Piping:				
Main	600	LF	42.00	25,200
Lin set	9	EA	2,100.00	18,900
Condensate pump	9	EA	325.00	2,925
Condensate Pipe	400	LF	22.00	8,800
Misc. VRF Accessories	1	LS	30,000.00	30,000
Fan Schedule:				
EF-1 - garage	1	EA	3,600.00	3,600
EF-2 - garage	1	EA	2,500.00	2,500
EF-3 - turnout	1	EA	1,800.00	1,800
EF-4 - janitor	1	EA	1,800.00	1,800
EF-5 -SCBA	1	EA	1,800.00	1,800
EF-6 - workshop	1	EA	1,800.00	1,800
EF-7 - storage	1	EA	1,800.00	1,800
EF-1A - vehicle tail pipe	1	EA	3,500.00	3,500
EF-3A - vehicle tail pipe	1	EA	3,500.00	3,500
Hydronic Heat:				
Radiant Ceiling Panel	198	LF	145.00	28,710
UH-1	1	EA	1,400.00	1,400
UH-2	1	EA	1,400.00	1,400
UH-3	1	EA	1,400.00	1,400
UH-4	1	EA	1,400.00	1,400
UH-5	1	EA	1,400.00	1,400
CUH-1	1	EA	2,100.00	2,100
Modulating Valve	22	EA	320.00	7,040
Isolation valve	44	EA	110.00	4,840
Hot Water Piping:	11,867	SF	4.50	53,402
Ductwork:				
Galvanized Ductwork	6,500	LBS	10.75	69,875
Supply duct insul.	4,500	SF	4.20	18,900
Grills and dampers	11,867	SF	1.20	14,240
Automatic Temperature Control	11,867	SF	6.00	71,202
Vehicular Exhaust System	3	DROPS	15,000.00	45,000
Carbon Monoxide Detection:				
Garage Make up air louver damper	1	EA	4,500.00	4,500
CO sensor	2	EA	1,200.00	2,400
Alarm panel	1	LS	4,800.00	4,800
Exhaust fan control	1	EA	3,000.00	3,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Test and balance	11,867	GSF	0.65	7,714

				670,572
ADDITION & RENOVATION SF TOTAL:	11,867			
COST PER SF:	$56.51			
HVAC- Addition	5,031	SF	56.51	284,288

				284,288
DIVISION 25 - INTEGRATED AUTOMATION				
260000 ELECTRICAL				
Sitework:				
Duct bank				
PVC-2"C-w/PS	63	LF	4.32	272
PVC-4"C-w/PS	350	LF	4.59	1,607
PVC-5"C-w/PS	72	LF	5.30	381
Pole dressing	2	EA	1,850.00	3,700
Xfmr pad grounding	1	EA	1,363.00	1,363
Xfmr pad 90 deg & sleeves	1	EA	901.00	901
Gen/Set pad grounding	1	EA	1,218.00	1,218
Gen/Set pad 90 deg & sleeves	1	EA	901.00	901
Site Lighting:				
SL1 - Pole light	3	EA	3,100.00	9,300
UL - Feature up light	1	EA	550.00	550
PVC-1 1/4"C - 2#8 & 1#10	210	LF	4.04	848
Mech & plumb equip wiring - allow	1	LS	22,000.00	22,000
Grounding allowance	1	LS	5,000.00	5,000
G/S:				
PVC-4#600 & 1&1/0	56	LF	59.46	3,330
WIC - 4#600 MCM	58	LF	51.62	2,994
Interior Lighting	8,735	SF	7.50	65,513
Lighting control allowance	8,735	SF	1.75	15,286
Lightning protection allowance	1	LS	25,000.00	25,000
Power Devices	8,735	SF	3.50	30,573
Fire Alarm	11,867	SF	4.25	50,435

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Dist. antenna system	1	LS	30,000.00	30,000
G/S & Pnls:				
125kw gen/set	1	EA	50,908.00	50,908
Em. GS load bank	1	EA	5,284.00	5,284
Em. GS remote annun.	1	EA	976.00	976
PVC-1 1/4"C-14#12	110	LF	6.97	767
Receive rig & set	1	EA	7,636.00	7,636
Bldg EPO	1	EA	1,960.00	1,960
Unit mtd EPO	1	EA	584.00	584
Internal pnl	1	EA	142.00	142
Output C/B	1	EA	142.00	142
100A ATS	1	EA	6,268.00	6,268
EMT-4"C-4#500 & 1#1/0	125	LF	72.82	9,103
800A MDP	1	EA	12,356.00	12,356
NEDP 800 dist panel	1	EA	8,200.00	8,200
Meter socket	1	EA	784.00	784
Generator doc	1	EA	7,500.00	7,500
SPD surge prot device (1000A)	1	EA	1,284.00	1,284
Grounds	4	EA	363.00	1,452
SPD Pnl mtd surge pro dev	3	EA	442.00	1,326
Pnl MP1 - 400A	1	EA	5,375.00	5,375
Pnl PP - 225A	1	EA	3,349.00	3,349
Pnl lp.elp,tep - 100A	3	EA	3,078.00	9,234
EMT-1 1/2"C-w/PS	20	LF	8.18	164
EMT-1 1/2"C-4#1/0 & 1/6	150	LF	20.16	3,024
pv Rough-in (future system)	1	LS	10,000.00	10,000
Intercom/Door Security Setups:				
IC - ent sta	1	EA	3,684.00	3,684
ICMS master	1	EA	355.00	355
ICSS sub master	1	EA	284.00	284
DR door release	1	EA	213.00	213
ES strike	1	EA	142.00	142
18/2 Belden	500	LF	2.02	1,010
18/4 Belden	100	LF	2.84	284
MC-12/2	100	LF	1.87	187
Door rough in setups w/power & cont. wiring	4	EA	1,526.00	6,104
Security/Technology/Clock/Paging:				
WP - ext. camera	4	EA	3,284.00	13,136
Int. camera	9	EA	2,284.00	20,556
DC door contact	12	EA	151.00	1,812
CR card reader	4	EA	859.00	3,436

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DR release	4	EA	333.00	1,332
M Motion sensor	7	EA	285.00	1,995
Belden cabling	1	EA	6,640.00	6,640
Tele/data	8,735	SF	4.00	34,940
UPS System	1	LS	12,500.00	12,500
Head end rack	1	EA	14,000.00	14,000
MDF room fitout	1	EA	8,900.00	8,900
15% OH&P	1	LS	82,574.67	82,575
DJE	1	LS	20,000.00	20,000

				653,072

ADDITION & RENOVATION SF TOTAL:	11,867
COST PER SF:	$55.03

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Electrical - Addition	5,031	SF	55.03	276,869

				276,869

DIVISION 31 - EARTHWORK

310000 EARTHWORK

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Site -allow(27,500 SF):				
Grading	3,055	SY	2.00	6,110
Cut & Fill	1,200	CY	13.00	15,600
Building-Allow:				
LL Basement excavation	600	CY	25.00	15,000
UL APP Rm fill	100	CY	34.00	3,400
Foundation excavation(LF)	516	CY	15.00	7,740
Foundation backfill(LF)	344	CY	15.00	5,160
Excavate under slab lines	1	LS	2,500.00	2,500
12" Gravel base @ slab	144	CY	35.00	5,040
Perimeter foundation drain		NIC		
*Assumes suitable soils				

				60,550

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
311000 SITE CLEARING				
Allow (No Site Prep Plan):				
Construction entrance	1	LOC	3,000.00	3,000
Construction fence	300	LF	15.00	4,500
Erosion control	360	LF	7.25	2,610
Catch basin filter	3	EA	75.00	225
Saw cut street	128	LF	4.50	576
Saw cut site parking	50	LF	6.00	300
Clear & grub	8,000	SF	0.35	2,800
Strip & stack topsoil-6"	1	LS	4,000.00	4,000
Tree removal	10	EA	750.00	7,500
Tree protection	5	EA	450.00	2,250
Site Remove Existing-Allow:				
Front Bituminous drive /parking	1,200	SF	0.90	1,080
Rear Broken Bituminous drive /parking	2,800	SF	0.90	2,520
Trash enclosure	1	LOC	750.00	750
S retaining wall	15	LF	45.00	675
Misc site prep	27,500	SF	0.15	4,125

				36,911
321000 PAVING SIDEWALKS AND CURBING				
Pavement patch @ utilities		W / Utility		
Bradlee Rd Parking Lot:				
3 1/2" Bituminous - drive/parking	548	SY	29.00	15,892
12" Gravel paving base @ drives	183	CY	31.00	5,673
Site new granite curb straight	410	LF	44.00	18,040
Site new granite curb radius	43	LF	48.00	2,064
Pavement markings	1	LS	2,000.00	2,000
Patch @ new entry	42	LF	25.00	1,050
Bradlee Rd Entry Drive -allow:				
New APP Bay - Concrete apron 6'	153	SF	15.00	2,295
3 1/2" Bituminous - drive/parking	185	SY	29.00	5,365
Bituminous w/hvy duty topcoat		NIC		
12" Gravel paving base @ drives	68	CY	31.00	2,108

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Site new granite curb straight	38	LF	44.00	1,672
Site new granite curb radius	23	LF	48.00	1,104
Patch @ new entry & curb	86	LF	25.00	2,150
Exist lot patch @ tie	50	LF	25.00	1,250
Walk -allow:				
6" Conc. walk	462	SF	12.00	5,544
Bituminous walk		N/A		
6" Gravel paving base @ walk	8.5	CY	39.00	332
HC paver	1	EA	310.00	310

				66,849
323000 SITE IMPROVEMENTS				
New App Bay:				
Concrete retaining wall	60	LF	550.00	33,000
Guardrail @ Retaining wall	60	LF	225.00	13,500
Stone veneer@ Retaining wall	600	SF	65.00	39,000
New South Basement Enty:				
Concrete retaining wall	30	LF	550.00	16,500
Guardrail @ Retaining wall	15	LF	225.00	3,375
Stone veneer@ Retaining wall	300	SF	65.00	19,500
Trash Enclosure:				
6" Conc pad	93	SF	22.00	2,046
12" Gravel base @ Conc pad	3.0	CY	36.00	108
Enclosure fence	37	LF	125.00	4,625
SGL gate 3' W @ enclosure	1	EA	2,500.00	2,500
Allow:				
Gravel @ equipment pads	180	SF	2.00	360
Site Stair		N/A		
Flagpole w/conc ftg		REMAINS		
Bollards @ ext equip pad		W / MISC METALS		
Bollards @ OH door		W / MISC METALS		
Site sign		N/A		
Parking / traffic signage	1	LS	1,000.00	1,000
Traffic lights		NIC		
Misc site improvements	1	LS	2,500.00	2,500

				138,014

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
328000 IRRIGATION		NIC		

				0
329000 LANDSCAPING WORK				
Trees:				
Red Maple (3-3.5" cal)	3	EA	850.00	2,550
Tulip Tree (3-3.5" cal B&B)	1	EA	850.00	850
Shrubs:				
Azalea Gumbo Pink (24-30" H/W)	5	EA	125.00	625
Cranberry Cotoneaster (30-36" H/W)	19	EA	165.00	3,135
Daphne (24-30" H/W)	6	EA	125.00	750
Oakleaf Hydrangea (24-30" H/W)	10	EA	125.00	1,250
Inkberry (24-30" H/W)	11	EA	125.00	1,375
Blue Holly (30-36" H/W)	6	EA	165.00	990
Sargent Juniper (24-30" H/W)	31	EA	125.00	3,875
Coastal Leucothoe (24-30" H/W)	5	EA	125.00	625
Chionoides Rhdodandron (30-36"H/W)	3	EA	165.00	495
European Cranberrybush (30-36"H/W)	4	EA	165.00	660
Perennials, grasses, groundcovers:				
Walker's Low Catmint (18" oc)	42	SF	5.00	210
Black-eyed Susan (18" oc)	44	SF	5.00	220
Common Periwinkle (18" oc)	66	SF	5.00	330
12-18" Planting soil	60	CY	65.00	3,900
3" Mulch	13	CY	48.00	624
6" Loam	278	CY	65.00	18,070
Rake seed and fertilize lawn	15,000	SF	0.32	4,800

				45,334
DIVISION 33 - UTILITIES				
330000 UTILITIES				
STA Sanitary:				
Atherton St connect exist. SMH	1	LOC	10,000.00	10,000
Sanitary manhole		NIC		
6" Sewer line	38	LF	95.00	3,610

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Cut & cap exsit Sewer line	1	LOC	2,500.00	2,500
Atherton St cut & patch	1	LOC	2,500.00	2,500
APP RM Sanitary-Allow:				
ST connection	1	LOC	10,000.00	10,000
6" Garage line- new bldg	100	LF	90.00	9,000
Ext. oil/sand separator	1	EA	7,500.00	7,500
Water :				
Atherton Street connection	1	LOC	8,000.00	8,000
6" Main	33	LF	85.00	2,805
4" Fire service	15	LF	85.00	1,275
2" Domestic	15	LF	78.00	1,170
Fire gate valve	1	EA	1,350.00	1,350
Dom gate valve	1	EA	1,250.00	1,250
Fire hydrant		NIC		
Atherton St cut & patch	1	LOC	2,500.00	2,500
Roof Drainage-Allow:				
8" Addition Roof drain line(1 LOC)	77	LF	75.00	5,775
Downspout boot	3	EA	650.00	1,950
Perim collection drain	100	LF	68.00	6,800
Clean out	2	EA	450.00	900
Cistern water storage tank(A2.1)		see alternates		
Site Drainage:				
Bradlee Rd exist CB connection	1	LOC	6,500.00	6,500
Catch basin	3	EA	4,000.00	12,000
Typ 12" HDPE drain line(2 loc)	88	LF	85.00	7,480
Outlet @ Typ 12" HDPE drain	2	LOC	3,000.00	6,000
Bradlee Rd 12" HDPE drain line	141	LF	85.00	11,985
Bradlee Rd cut & patch	1	LS	2,500.00	2,500
Rain Garden (2 LOC - SF):				
Perf 6" HDPE under drain line garden #2	46	LF	65.00	2,990
Perf 8" HDPE under drain line garden #1	77	LF	69.00	5,313
Catch basin control structure		NIC		
Outlet pipe 6" HDPE drain line	80	LF	62.00	4,960
Outlet pipe 8" HDPE drain line	52	LF	66.00	3,432
ADS flared end @ Outlet pipe	2	LOC	3,000.00	6,000
Excavation		W/ 310000		
Loam & seed		W/ 329000		
Infiltration field	1,276	SF	32.00	40,832
Electric :				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Transformer pad	1	EA	2,500.00	2,500
Generator pad	1	EA	3,000.00	3,000
New utility pole		By Others		
Ext duct bank pole -transformer	32	LF	85.00	2,720
Ext duct bank transformer - bldg	18	LF	85.00	1,530
Ext duct bank gen - bldg	33	LF	75.00	2,475
Site Lighting:				
Conc parking light pole base	3	EA	775.00	2,325
Trenching @ site light	210	LF	12.00	2,520
Mechanical-New BLDG:				
Gas service - Trench and Backfill	44	LF	45.00	1,980
Gas meter pad	1	EA	500.00	500
Atherton St cut & patch	1	LOC	1,500.00	1,500
*Utilities include excavation and backfill				
*Excludes Utility Co. back charges				

				209,927

EXISTING BUILDING

PROJECT:	Milton Atherton Fire Station	NO. OF SQ. FT.:	6,836
LOCATION:	Milton, MA	COST PER SQ. FT.:	259.63
CLIENT:	Context Architecture		
DATE:	16-Dec-19	*Scaled GSF A2.0 includes exterior wall	

No. 19093

HISTORIC FIRE STATION RENOVATIO

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 02 - EXISTING CONDITIONS			
022820 HAZARDOUS MATERIAL REMEDIATION	94,750	5%	13.86
024116 DEMOLITION	48,990	3%	7.17
DIVISION 03 - CONCRETE			
033000 CAST IN PLACE CONCRETE	12,184	1%	1.78
DIVISION 04 - MASONRY			
042000 UNIT MASONRY*	74,860	4%	10.95
DIVISION 05 - METALS			
051200 STRUCTURAL STEEL	4,200	0%	0.61
053000 METAL DECKING	0	0%	0.00
054100 EXTERIOR METAL FRAMING & SHEATHING	0	0%	0.00
055000 METAL FABRICATIONS	6,836	0%	1.00
DIVISION 06 - WOOD, PLASTICS & COMPOSITES			
061000 ROUGH CARPENTRY	16,836	1%	2.46
062000 FINISH CARPENTRY	30,470	2%	4.46
DIVISION 07 - THERMAL & MOISTURE PROTECTION			
071001 DAMPPROOF., WATERPROOF. & SEALANT*	6,751	0%	0.99
070002 ROOFING & FLASHING*	81,900	5%	11.98
072100 THERMAL INSULATION	50,250	3%	7.35
072500 WEATHER BARRIER,VAPOR RETARDERS & AIR BA	9,276	1%	1.36
074000 EXT SIDING & TRIM	39,200	2%	5.73
077000 ROOF ACCESSORIES	0	0%	0.00
078400 FIRESTOPPING	1,000	0%	0.15
DIVISION 08 - OPENINGS			
080008 GLASS AND GLAZING*	2,000	0%	0.29
081113 HOLLOW METAL DOORS AND FRAMES	4,750	0%	0.69
081416 FLUSH WOOD DOORS	3,500	0%	0.51
083100 ACCESS DOORS AND PANELS	900	0%	0.13
083613 SECTIONAL OVERHEAD DOORS	0	0%	0.00
084000 ALUM ENTRANCES & STOREFRONTS	0	0%	0.00
085414 WINDOWS	26,790	2%	3.92
085800 ALUM INTERIOR SLIDING WINDOW	0	0%	0.00
087100 DOOR HARDWARE	16,100	1%	2.36
089000 ARCHITECTURAL LOUVERS & VENTS	0	0%	0.00

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 09 - FINISHES			
090003 TILING, CERAMIC & STONE *	66,572	4%	9.74
090006 RESILIENT FLOORING*	9,600	1%	1.40
090009 PAINTING*	59,144	3%	8.65
092900 GYPSUM WALLBOARD ASSEMBLIES	64,164	4%	9.39
095100 ACOUSTICAL CEILING SYSTEMS*	0	0%	0.00
096723 SEAMLESS EPOXY FLOORING	41,232	2%	6.03
096810 CARPET TILE*	0	0%	0.00
DIVISION 10 - SPECIALTIES			
101100 VISUAL DISPLAY SURFACES	0	0%	0.00
101400 SIGNAGE	4,000	0%	0.59
102800 TOILET ACCESSORIES	2,270	0%	0.33
104400 SAFETY SPECIALTIES	2,000	0%	0.29
109000 MISC. SPECIALTIES	3,500	0%	0.51
DIVISION 11 - EQUIPMENT			
119000 MISC. EQUIPMENT	19,300	1%	2.82
DIVISION 12 - FURNISHINGS			
122400 INTERIOR ROLLER SHADES	1,166	0%	0.17
DIVISION 13 - SPECIAL CONSTRUCTION			
DIVISION 13 - SPECIAL CONSTRUCTION	0	0%	0.00
DIVISION 14 - CONVEYING EQUIPMENT			
142000 ELEVATOR*	0	0%	0.00
DIVISION 21 - FIRE SUPPRESSION			
210000 FIRE PROTECTION*	64,942	4%	9.50
DIVISION 22 - PLUMBING			
220000 PLUMBING*	142,923	8%	20.91
DIVISION 23 - HVAC			
230000 HVAC*	386,284	22%	56.51
DIVISION 26 - ELECTRICAL			
260000 ELECTRICAL	376,203	21%	55.03
DIVISION 31 - EARTHWORK			
310000 EARTHWORK	0	0%	0.00
311000 SITE CLEARING	0	0%	0.00

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 32 - EXTERIOR IMPROVEMENTS			
321000 PAVING SIDEWALKS AND CURBING	0	0%	0.00
323000 SITE IMPROVEMENTS	0	0%	0.00
328000 IRRIGATION	0	0%	0.00
329000 LANDSCAPING WORK	0	0%	0.00
DIVISION 33 - UTILITIES			
330000 UTILITIES	0	0%	0.00

DIRECT COST	1,774,842	100%	259.63

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 02 - EXISTING CONDITIONS				
022820 HAZARDOUS MATERIAL REMEDIATION				
Hazardous mat removal	1	LS	94,750.00	94,750

				94,750
024116 DEMOLITION				
Addition Tie -Building Exterior Remove Existing(Non Haz Mat):				
2nd flr shingle siding @ rear wall	400	SF	2.00	800
2nd flr framing sheathing @ rear wall	400	SF	4.00	1,600
Gable Roof fascia @ rear wall	98	LF	15.00	1,470
Gambrel Roof fascia @ side wall	35	LF	15.00	525
1st flr stone rear wall @ new sgl dr		W/Masonry		
1st flr stone side wall @ APP passage		W/Masonry		
Misc demolition @ addition tie	1	LS	2,500.00	2,500
Interior Demolition:				
Misc Basement Int Demo (Non Haz Mat)	2,342	GSF	5.00	11,710
Misc 1st Flr Int Demo (Non Haz Mat)	2,371	GSF	5.00	11,855
2nd Floor Remove Existing(Non Haz Mat):				
STA Gut complete (non bearing walls)	2,123	GSF	5.00	10,615
Reno Building Exterior Remove Existing(Non Haz Mat):				
Red cedar shake shingle 2nd flr/ gable(2 loc	700	SF	2.00	1,400
Red cedar shake shingle dormer	4	EA	350.00	1,400
Red cedar shake shingle cupola	1	LS	500.00	500
Asphalt roof shingles & flashing		W /ROOFING		
Windows for replacement(11 EA)	282	SF	7.50	2,115
Misc exterior demolition	1	LS	2,500.00	2,500

				48,990
DIVISION 03 - CONCRETE				
033000 CAST IN PLACE CONCRETE				
Basement:				
Cut & patch slab & plumbing	1	LS	5,000.00	5,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Int. mech equip pads	1	LS	2,500.00	2,500
Misc slab patching	2,342	GSF	2.00	4,684
Existing slab new sealant		NIC		

				12,184

DIVISION 04 - MASONRY

042000 UNIT MASONRY*

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Field stone veneer - minor repoint/repair:				
Exterior Wall Restoration	1,456	SF	30.00	43,680
Interior Wall Restoration	700	SF	30.00	21,000
Cut in /Repair Connector Wall Open:				
Basement door		Existing		
1st flr door	1	EA	2,500.00	2,500
1st flr APP passage (7'x8')	1	EA	2,500.00	2,500
New Interior Masonry Partition:				
Basement @ transfer switch rm	148	SF	35.00	5,180

				74,860

DIVISION 05 - METALS

051200 STRUCTURAL STEEL

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Supplemental Steel @ :				
Reinforce 1st Floor Framing		NIC		
Reinforce 2nd Floor Framing		NIC		
Reinforce Roof Framing		NIC		
Seismic upgrade		NIC		
Frame Connector Wall Open:				
1st flr sgl door	4	LF	350.00	1,400
1st flr APP passage (7'x8')	8	LF	350.00	2,800

				4,200

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
053000 METAL DECKING		N/A		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				0
054100 EXTERIOR METAL FRAMING & SHEATHING				
*carried w/ rough carpentry				

				0
055000 METAL FABRICATIONS				
Upgrade Stair & Rails:				
Stair (B-2nd)		NIC		
Fire pole		N/A		
OH door surround-plt & angle		REMAINS		
Galv Slab edge angle @ OH		REMAINS		
Bollard @ OH door		REMAINS		
Misc. bldg. metals	6,836	GSF	1.00	6,836

				6,836
DIVISION 06 - WOOD, PLASTICS & COMPOSITES				
061000 ROUGH CARPENTRY				
Allowance:				
Reframe 2nd Flr Ext Rear Wall @ addtiion t	1	LS	2,500.00	2,500
Reframe Sloped Roof @ APP addtiion tie	1	LS	2,500.00	2,500
Over frame		W / Addition		
Allowance				
Replace Roof Blocking		NIC		
Replace Ext wall -Blk perim exist wind		NIC		
Damaged roof sheathing @ roofing replacer	1	LS	2,500.00	2,500
Damaged wall sheathing @ siding replaceme	1	LS	2,500.00	2,500
Misc. rough carpentry & blocking:				
Basement	2,342	GSF	1.00	2,342
1st Floor	2,371	GSF	1.00	2,371
2nd Floor	2,123	GSF	1.00	2,123

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				16,836
062000 FINISH CARPENTRY				
2nd Floor STA Running Trim:				
Window sill		NIC		
Wd wall base		NIC		
Wd wall panel		NIC		
Wd chair rail		NIC		
Window Trim		NIC		
Door Trim		NIC		
Misc interior wd trim 2nd Floor STA	2,123	GSF	0.75	1,592
2nd Floor STA Casework:				
Kitchen:				
25" Solid Surface Counter	12.5	LF	225.00	2,813
Base cab (nic ctr)	10	LF	275.00	2,750
Wall cab	12.5	LF	210.00	2,625
30" W Tall storage cabinets	3	EA	1,400.00	4,200
Wall oven cabinet	2.5	LF	400.00	1,000
Island Solid Surface ctr	37	SF	95.00	3,515
Island base cab (nic ctr)	9.5	LF	550.00	5,225
Refrigerator box	1	EA	1,500.00	1,500
Freezer box	1	EA	1,200.00	1,200
Misc STA Casework-Allow:				
Vanity w/ ctr(2 EA)	5	LF	265.00	1,325
Day Room		NIC		
Laundry rm shelf	5	LF	45.00	225
Misc Casework & shelving	1	LS	2,500.00	2,500
*Includes section 066100				

				30,470
DIVISION 07 - THERMAL & MOISTURE PROTECTION				
071001 DAMPPROOF., WATERPROOF. & SEALANT*				
Perim new wind sealant	222	LF	3.75	833
Misc. exterior sealants	1	LS	2,500.00	2,500
Int joint sealants	6,836	GSF	0.50	3,418

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				6,751
070002 ROOFING & FLASHING*				
Remove existing roofing & Flashing @ :				
Gambrel Roof	3,800	SF	4.00	15,200
Small dormer	4	EA	450.00	1,800
Cupola	1	LS	1,500.00	1,500
Arch Grade Fiberglass Shingle:				
Gambrel Roof	3,600	SF	12.00	43,200
Ice and water shield	1,800	SF	4.00	7,200
Small dormer	4	EA	1,000.00	4,000
Cupola	1	LS	4,000.00	4,000
Misc flashing	1	LS	5,000.00	5,000
*Includes sections 075423 & 076200				

				81,900
072100 THERMAL INSULATION				
Reinsulate Exterior Envelope	3,500	SF	7.50	26,250
Spray Insul at Roof DECK	4,000	SF	6.00	24,000

				50,250
072500 WEATHER BARRIER,VAPOR RETARDERS & AIR BARRIERS				
Air and Vapor Barrier :				
New siding Exterior wall - Adhered AVB	1,000	SF	7.50	7,500
Exterior soffit		REMAINS		
Exterior Fascia		REMAINS		
Ext wall air & vapor barrier - perim open	222	LF	8.00	1,776
*Includes sections 072500 & 0726000				

				9,276
074000 EXT SIDING & TRIM				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
New Ext Siding (Pre-Primed & Finished):				
Red cedar shake shingle 2nd flr/ gable(2 loc	700	SF	22.00	15,400
Red cedar shake shingle dormer	4	EA	1,200.00	4,800
Red cedar shake shingle cupola	1	LS	4,000.00	4,000
*Red Cedar shingles are back painted and sealed				
Existing ext rim restoration -allow	1	LS	15,000.00	15,000
*Includes sections 066000 & 074646				

				39,200
077000 ROOF ACCESSORIES				
Restore cupola accessories		NIC		
*Includes sections 077233 & 077600				

				0
078400 FIRESTOPPING				
Fire stopping	1	LS	1,000.00	1,000

				1,000
DIVISION 08 - OPENINGS				
080008 GLASS AND GLAZING*				
Upgrade Ext Door, Frame, Hdw, Glass & Glazing				
Main entry - sgl	1	EA	2,000.00	2,000
Auto opener		NIC		
Allow- Interior Glass & Glazing- 1/4" Tempered Glass @:				
HM doors		W/ 081113		
WD doors		W/ 081416		

				2,000
081113 HOLLOW METAL DOORS AND FRAMES				
New Interior HM Frames:				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Door -sgl	7	EA	265.00	1,855
Door -dbl	1	EA	295.00	295
Cased open -sgl	1	EA	400.00	400
Misc HM Sidelights & windows		NIC		
7'H Interior APP HM Doors:				
Storage - sgl	2	EA	550.00	1,100
Mech/elec - dbl	1	EA	1,100.00	1,100

				4,750

081416 FLUSH WOOD DOORS

7'H Station Interior (pre-finish) Wood Doors (Inc Glass & Glazing):				
Office - sgl	1	EA	750.00	750
Laundry rm -sgl	1	EA	750.00	750
Sgl user toilet rm	2	EA	750.00	1,500
Storage - sgl	1	EA	500.00	500

				3,500

083100 ACCESS DOORS AND PANELS

Access panels -allow	2	EA	450.00	900

				900

083613 SECTIONAL OVERHEAD DOORS

Upgrade existing:				
O.H. Door	2	EA	NIC	

				0

084000 ALUM ENTRANCES & STOREFRONTS N/A

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				0
085414 WINDOWS				
Replacement -Ext Alum Clad wood window frame, Glass & Glazing:				
Basement		NIC		
1st flr	70	SF	95.00	6,650
STA 2nd flr	212	SF	95.00	20,140
Cupola /Tower Window		NIC		
*Marvin Integrity primed int and black ext				

				26,790
085800 ALUM INTERIOR SLIDING WINDOW		N/A		

				0
087100 DOOR HARDWARE				
Upgrade Ext Door, Frame, Hdw, Glass & Glazing				
Main entry - sgl	1	EA	1,500.00	1,500
APP Storage egress - sgl	1	EA	1,000.00	1,000
Auto opener		NIC		
Upgrade Int Door, Frame, Hdw, Glass & Glazing				
Stair hall - sgl	3	EA	2,500.00	7,500
Lobby / App storage -dbl	1	EA	750.00	750
New Int App. Rm HM Door Hdw Set:				
Storage - sgl	2	EA	500.00	1,000
Mech/elec - dbl	1	EA	850.00	850
Int Sta. WD Door - Hdw Set:				
Office - sgl	1	EA	750.00	750
Laundry rm -sgl	1	EA	750.00	750
Sgl user toilet rm	2	EA	750.00	1,500
Storage - sgl	1	EA	500.00	500
*Card access system, auto openers, OH doors and alum entry hardware specified elsewhere				
*Excludes hardware upgrades at doors to remain				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				16,100
089000 ARCHITECTURAL LOUVERS & VENTS				
Alum louvers -allow		W/HVAC		

				0
DIVISION 09 - FINISHES				
090003 TILING, CERAMIC & STONE *				
Kitchen, Dining & Dayroom:				
Porcelain floor tile	1,160	SF	28.00	32,480
Porcelain tile wall base	154	LF	10.00	1,540
WPG membrane	1,160	SF	8.50	9,860
STA Staff Sgl User Toilet /SHW Room (2 EA):				
TYP Porcelain floor tile	100	SF	36.00	3,600
SHW floor tile	60	SF	45.00	2,700
Porcelain tile wall base	100	LF	12.00	1,200
SGL Marble threshold	2	EA	150.00	300
SHW curb	2	EA	150.00	300
3' Ceramic wall tile wainscot	144	SF	28.00	4,032
8' SHW Ceramic wall tile	320	SF	28.00	8,960
WPG membrane	160	SF	10.00	1,600

				66,572
090006 RESILIENT FLOORING*				
Floor prep	770	SF	4.00	3,080
Rubber tile	90	SF	18.00	1,620
VCT	680	SF	5.00	3,400
Rubber wall base	1	LS	1,500.00	1,500
Replace Stair Finish:				
Stair (B-2nd)		NIC		

				9,600

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
090009 PAINTING*				
Int. prep & painting:				
Basement	2,342	GSF	4.00	9,368
1st Floor	2,371	GSF	4.00	9,484
2nd Floor	2,123	GSF	4.00	8,492
*Excludes wall covering				
Exterior Painting:				
New Ext Siding (Pre-Primed & Finished)		NIC		
Exterior Prep & Painting of Existitng:				
Main entry - sgl	1	EA	150.00	150
APP Storage egress - sgl	1	EA	150.00	150
OH door	2	EA	750.00	1,500
Wood trim	1	LS	25,000.00	25,000
Cupola trim	1	LS	5,000.00	5,000

				59,144
092900 GYPSUM WALLBOARD ASSEMBLIES				
2nd Flr -1 lyr 5/8" at exist wall	1,750	SF	7.50	13,125
2nd Flr STA Partitions :				
Typical	768	SF	12.00	9,216
Eave chase GWB - one side	718	SF	10.00	7,180
Plumb chase GWB - one side	187	SF	10.00	1,870
Premium tile backer bd	464	SF	2.00	928
2nd Flr STA Ceiling:				
Typ Gyp ceiling	2,123	SF	13.00	27,599
Gyp soffit	2,123	GSF	2.00	4,246
*GWB includes sound attenuation, tape and joint compound finish				

				64,164
095100 ACOUSTICAL CEILING SYSTEMS*				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
2nd Flr STA ACT - 2x2x3/4		NIC		

				0
096723 SEAMLESS EPOXY FLOORING				
Floor prep	1,718	SF	4.00	6,872
Epoxy Flooring W/ Int wall Base:				
1st flr APP Bay storage area	1,718	SF	20.00	34,360

				41,232
096810 CARPET TILE*		N/A		

				0
DIVISION 10 - SPECIALTIES				
101100 VISUAL DISPLAY SURFACES				
Allow:				
Tack board		W/ADDITION		
Marker white board		W/ADDITION		

				0
101400 SIGNAGE				
Allow:				
Interior door signage	12	EA	125.00	1,500
Ext signage	1	LS	2,500.00	2,500

				4,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
102800 TOILET ACCESSORIES				
Allow Owner Furnished Contractor Install:				
Paper towel dispenser/disposal	2	EA	75.00	150
Toilet tissue dispenser	2	EA	75.00	150
Soap dispenser	2	EA	75.00	150
Allow GC Furnished And Install:				
Hand dryer		NIC		
Framed mirror	2	EA	250.00	500
STD shower accessories	2	EA	450.00	900
Coat hook	2	EA	35.00	70
SS Mop sink splash	1	EA	150.00	150
Janitor accessories	1	RM	200.00	200
*Excludes work rm accessories				

				2,270
104400 SAFETY SPECIALTIES				
Allow:				
Fire extinguishers & cab	2	EA	450.00	900
Fire extinguishers & bracket	2	EA	275.00	550
AED cab	1	EA	550.00	550

				2,000
109000 MISC. SPECIALTIES				
Main vestibule entry mat	1	EA	3,500.00	3,500

				3,500
DIVISION 11 - EQUIPMENT				
119000 MISC. EQUIPMENT				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Kitchen /Dining Appliance -Allow :				
Freezer	1	EA	2,000.00	2,000
Refrigerator w/ icemaker	1	EA	4,000.00	4,000
36" Range - 6 burner	1	EA	6,000.00	6,000
Range hood	1	EA	1,500.00	1,500
Dishwasher	1	EA	1,500.00	1,500
Wall oven	1	EA	1,500.00	1,500
Disposal	1	EA	300.00	300
MW oven - built-in	1	EA	1,500.00	1,500
Coffee maker w/ water conn	1	EA	1,000.00	1,000
Laundry Closet Appliance :				
Washer		W/ FF&E		
Dryer		W/ FF&E		

				19,300
DIVISION 12 - FURNISHINGS				
122400 INTERIOR ROLLER SHADES				
Manual Op Roller Shade:				
STA 2nd flr Window	212	SF	5.50	1,166

				1,166
DIVISION 13 - SPECIAL CONSTRUCTION		N/A		

				0
DIVISION 14 - CONVEYING EQUIPMENT				
142000 ELEVATOR*		N/A		

				0
DIVISION 21 - FIRE SUPPRESSION				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
210000 FIRE PROTECTION*				
Fire Protection	6,836	SF	9.50	64,942
*Excludes fire pump				

				64,942
DIVISION 22 - PLUMBING				
220000 PLUMBING*				
Plumbing - Renovation	6,836	SF	20.91	142,923

				142,923
DIVISION 23 - HVAC				
230000 HVAC*				
HVAC - Renovation	6,836	SF	56.51	386,284

				386,284
DIVISION 25 - INTEGRATED AUTOMATION				
260000 ELECTRICAL				
Electrical - Renovation	6,836	SF	55.03	376,203

				376,203
DIVISION 31 - EARTHWORK	W /ADDITION			
DIVISION 32 - EXTERIOR IMPROVEMENTS	W /ADDITION			
DIVISION 33 - UTILITIES	W /ADDITION			

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

A.M. Fogarty
& Assoc., Inc.
175 Derby St., Suite 5, Hingham, MA 02043
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ptim@amfogarty.com
"Construction Cost Consultants"

Milton East Fire Station
Milton, MA

January 14, 2021

GRAND SUMMARY

NEW BUILDING AND SITEWORK			$3,931,756
BUILDING REMOVAL			NIC
HAZARDOUS MATERIALS ABATEMENT			NIC

TOTAL DIRECT COST			$3,931,756
GENERAL CONDITIONS		9%	$353,858
GENERAL ADMINISTRATIVE O&P		6%	$257,137
P&P BOND AND INSURANCE		1.85%	$84,041
PERMIT	WAIVED	0%	$0
DESIGN CONTINGENCY		10.0%	$462,679
ESCALATION (fall 2021)		3.5%	$178,131

TOTAL CONSTRUCTION COST			$5,267,602
COST PER SF			$898.91

EXCLUDES :
1. FF&E
2. IT & AV EQUIPMENT INSTALLATION. AV CABLING
3. PUBLIC SAFETY ALERTING/COMMUNICATION SYSTEM
4. COMMUNICATION EQUIPMENT & INSTALLATION
5. CATV EQUIPMENT & INSTALLATION

PROJECT:	Milton East Fire Station	NO. OF SQ. FT.:	5,860
LOCATION:	Milton, MA	COST PER SQ. FT.:	670.95
CLIENT:	Context Architecture		
DATE:	14-Jan-21	*Noted GSF A2.1	

No. 21000

NEW FIRE STATION

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 02 - EXISTING CONDITIONS			
022820 HAZARDOUS MATERIAL REMEDIATION	0	0%	0.00
024116 DEMOLITION	0	0%	0.00
DIVISION 03 - CONCRETE			
033000 CAST IN PLACE CONCRETE	161,186	4%	27.51
DIVISION 04 - MASONRY			
042000 UNIT MASONRY*	414,099	11%	70.67
DIVISION 05 - METALS			
051200 STRUCTURAL STEEL	186,068	5%	31.75
053000 METAL DECKING	17,675	0%	3.02
054100 EXTERIOR METAL FRAMING & SHEATHING	0	0%	0.00
055000 METAL FABRICATIONS	96,327	2%	16.44
DIVISION 06 - WOOD, PLASTICS & COMPOSITES			
061000 ROUGH CARPENTRY	29,677	1%	5.06
062000 FINISH CARPENTRY	48,945	1%	8.35
DIVISION 07 - THERMAL & MOISTURE PROTECTION			
071001 DAMPPROOF., WATERPROOF. & SEALANT*	17,950	0%	3.06
070002 ROOFING & FLASHING*	115,177	3%	19.65
072100 THERMAL INSULATION	27,198	1%	4.64
072500 WEATHER BARRIER,VAPOR RETARDERS & AIR BA	60,190	2%	10.27
074000 EXT SIDING & TRIM	250,240	6%	42.70
077000 ROOF ACCESSORIES	4,850	0%	0.83
078400 FIRESTOPPING	2,500	0%	0.43
DIVISION 08 - OPENINGS			
080008 GLASS AND GLAZING*	12,213	0%	2.08
081113 HOLLOW METAL DOORS AND FRAMES	18,937	0%	3.23
081416 FLUSH WOOD DOORS	7,775	0%	1.33
083100 ACCESS DOORS AND PANELS	1,800	0%	0.31
083613 SECTIONAL OVERHEAD DOORS	18,500	0%	3.16
084000 ALUM ENTRANCES, STOREFRONTS & CURTAINW/	189,920	5%	32.41
085414 WINDOWS	0	0%	0.00
087100 DOOR HARDWARE	29,275	1%	5.00
089000 ARCHITECTURAL LOUVERS & VENTS	8,140	0%	1.39

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 09 - FINISHES			
090003 TILING, CERAMIC & STONE *	41,328	1%	7.05
090006 RESILIENT FLOORING*	28,707	1%	4.90
090009 PAINTING*	37,035	1%	6.32
092900 GYPSUM WALLBOARD ASSEMBLIES	182,951	5%	31.22
095100 ACOUSTICAL CEILING SYSTEMS*	17,595	0%	3.00
096723 SEAMLESS EPOXY FLOORING	38,850	1%	6.63
096810 CARPET TILE*	3,163	0%	0.54
DIVISION 10 - SPECIALTIES			
101100 VISUAL DISPLAY SURFACES	84,800	2%	14.47
101400 SIGNAGE	22,135	1%	3.78
102800 TOILET ACCESSORIES	4,815	0%	0.82
104400 SAFETY SPECIALTIES	2,900	0%	0.49
109000 MISC. SPECIALTIES	81,200	2%	13.86
DIVISION 11 - EQUIPMENT			
119000 MISC. EQUIPMENT	45,050	1%	7.69
DIVISION 12 - FURNISHINGS			
129000 FIXED FURNISHINGS	7,244	0%	1.24
DIVISION 13 - SPECIAL CONSTRUCTION			
DIVISION 13 - SPECIAL CONSTRUCTION	0	0%	0.00
DIVISION 14 - CONVEYING EQUIPMENT			
142000 ELEVATOR*	0	0%	0.00
DIVISION 21 - FIRE SUPPRESSION			
210000 FIRE PROTECTION*	72,900	2%	12.44
DIVISION 22 - PLUMBING			
220000 PLUMBING*	271,273	7%	46.29
DIVISION 23 - HVAC			
230000 HVAC*	351,600	9%	60.00
DIVISION 26 - ELECTRICAL			
260000 ELECTRICAL	468,800	12%	80.00
DIVISION 31 - EARTHWORK			
310000 EARTHWORK	103,694	3%	17.70
311000 SITE CLEARING	49,082	1%	8.38

SUMMARY	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 32 - EXTERIOR IMPROVEMENTS			
321000 PAVING SIDEWALKS AND CURBING	79,250	2%	13.52
323000 SITE IMPROVEMENTS	34,100	1%	5.82
328000 IRRIGATION	0	0%	0.00
329000 LANDSCAPING WORK	20,230	1%	3.45
DIVISION 33 - UTILITIES			
330000 UTILITIES	164,415	4%	28.06

DIRECT COST	3,931,756	100%	670.95

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 02 - EXISTING CONDITIONS				
022820 HAZARDOUS MATERIAL REMEDIATION		SEE SUMMARY		

				0
024116 DEMOLITION		SEE SUMMARY		

				0
DIVISION 03 - CONCRETE				
033000 CAST IN PLACE CONCRETE				
Allow -Column Footing (5 x 5 x 1'-6" @ 20 ea):				
3,500 psi, NW, (incl. placement)	28	CY	216.00	6,048
Formwork	800	SFCA	8.50	6,800
Rebar	2,100	LBS	1.20	2,520
**unit cost $548.86*				
Perim Ext Wall Footing (1' x 2'-6" x 250 lf):				
3,500 psi, NW, (incl. placement)	23	CY	220.00	5,060
Formwork	500	SFCA	7.00	3,500
Rebar	1,150	LBS	1.20	1,380
**unit cost $432.17*				
Perim Ext Frost Wall (16" x 4' H x 250 lf):				
3,500 psi, NW, (incl. placement)	50	CY	225.00	11,250
Formwork	2,000	SFCA	15.00	30,000
Masonry shelf	250	LF	16.50	4,125
Reinforcing steel	7,500	LBS	1.18	8,850
**unit cost $1,084.50*				
Allow:				
Pier/Pilaster	10	CY	950.00	9,500
Grade Beam	5	CY	775.00	3,875
5" Slab on Grade -STA :				
3,500 psi, NW, (incl. placement)	41.5	CY	225.00	9,338
6x6 W2.9 X W2.9	2,668	SF	1.66	4,429
Barrier One Admix		NIC		
Control Joint	180	LF	3.80	684
Trowel Finish	2,668	SF	2.15	5,736

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
*unit cost $800.49				
8" Slab on grade - apparatus bay:				
3,500 psi, NW, (incl. placement)	26	CY	225.00	5,850
6x6 W2.9 X W2.9 -top	1,050	SF	1.66	1,743
Reinforcing steel - 1.4 lbs/sf	1,470	LBS	1.50	2,205
Barrier One Admix		NIC		
Control Joint	100	LF	3.80	380
Trowel Finish	1,050	SF	2.15	2,258
*unit cost $11.84				
Slab vapor barrier 15 mil - 100%	3,718	SF	0.94	3,495
Form trench drain	20	LF	44.00	880
Slab thickening	5	CY	208.00	1,040
Int. mech equip pads	1	LS	3,000.00	3,000
Conc. Deck Fill-total 5":				
STA 2nd Floor	2,012	SF	9.50	19,114
Flat Roof @ mech equip.		NIC		
Metal Pan Stair Fill:				
4'W x 14'H Switchback Stair (1st- 2nd)	1	FLT	2,200.00	2,200
Conc slab sealer w/ Hardener:				
Storage, mech & elec rm	630	SF	1.55	977
Foundation Insulation:				
2" Rigid slab insul. 2' @ perim GF	500	SF	3.50	1,750
2" Rigid found insul.- 4' int wall	1,000	SF	3.20	3,200

				161,186

DIVISION 04 - MASONRY

042000 UNIT MASONRY*

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Exterior Wall(Per Elev A3.01& 3.02- Not SD Presentation) :				
Brick Veneer Type A & B	2,747	SF	42.00	115,374
Masonry veneer @ Green-screen Facade Sys	350	SF	42.00	14,700
PC Water Table Veneer 30"H	325	SF	72.00	23,400
PC Water Table Cap	130	LF	60.00	7,800
PC Band 2nd flr LVL	245	LF	54.00	13,230
PC 2nd flr Window Sill	4	LF	64.50	258
PC 2nd flr Window Lintel	30	LF	70.00	2,100
Stainless Steel Masonry flashing	500	LF	14.50	7,250

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Roof Mech Screen Wall(74 LF x 7' 6"H):				
Brick Veneer Type A	555	SF	42.00	23,310
Stainless Steel Masonry flashing	74	LF	14.50	1,073
APP Interior CMU Partition-Allow:				
APP 4" CMU int of ext wall	2,200	SF	28.00	61,600
8" CMU	4,208	SF	30.50	128,344
6" CMU	540	SF	29.00	15,660

				414,099

DIVISION 05 - METALS

051200 STRUCTURAL STEEL

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Allow:				
2nd Floor Frame(13 lbs/sf @ 2,142 SF)	13.923	TON	3,900.00	54,300
Flat Roof Frame(13 lbs/sf @ 3,978 SF)	25.857	TON	3,900.00	100,842
Wide Flange Beam	Included Above			
HSS Beam and Column	Included Above			
HSS Brace Frame	Included Above			
Relieving angle	Included Above			
Roof edge angle/plate	Included Above			
Moment Connection	12	EA	775.00	9,300
2nd Floor Shear stud (10/100 sf)	201	EA	5.25	1,055
Galv OH door frame	1	EA	650.00	650
Wall Frame -Roof Mech Screen (10 lbs/sf (	2.775	TON	3,575.00	9,921
Roof top equip support	1	LS	10,000.00	10,000
Metal canopy -complete(1 LOC)	W / 084000			

				186,068

053000 METAL DECKING

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Floor - 2" x 18 ga. Comp deck	2,012	SF	3.15	6,338
Flat Roof - 2" x 18 ga. Comp deck		NIC		
Flat Roof - 1 1/2" x 20 ga Roof deck	3,978	SF	2.85	11,337

				17,675

054100 EXTERIOR METAL FRAMING & SHEATHING

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
*carried w/ 092900				

				0
055000 METAL FABRICATIONS				
Metal Pan Stair & Rails:				
4'W x 14'H Switchback Stair (1st- 2nd)	1	FLT	36,000.00	36,000
Roof Access Ext Ladder	1	EA	4,500.00	4,500
Roof Access Int Ship Ladder	1	EA	6,500.00	6,500
SS surround @ Decon shower /basin 3'x3'	1	EA	2,000.00	2,000
SS surround @ Decon shower /basin 5'x3'	1	EA	2,500.00	2,500
SS counter @ Decon wash rm	4	LF	440.00	1,760
Ext Galv antenna support	1	LOC	10,000.00	10,000
Fire pole		N/A		
OH door surround-plt & angle	1	EA	450.00	450
Galv Slab edge angle @ OH	14	LF	48.00	672
Angle clip @ CMU partitions	100	EA	135.00	13,500
Loose lintels	65	LF	33.00	2,145
Galv. Lintel	130	LF	48.00	6,240
Bollard @ OH door	4	EA	1,050.00	4,200
Misc. bldg. metals	5,860	GSF	1.00	5,860

				96,327
DIVISION 06 - WOOD, PLASTICS & COMPOSITES				
061000 ROUGH CARPENTRY				
Roof Blocking @ :				
Flat roof edge, fascia & soffit	365	LF	24.00	8,760
Base flashing	96	LF	18.00	1,728
Screen wall cap	74	LF	25.00	1,850
Mech equipment	1	LS	2,500.00	2,500
Ext wall -Blk perim wind,dr & louver	758	LF	7.35	5,571
Ext wall -Blk 1st flr wall cap	66	LF	25.00	1,650
Interior blocking	5,860	GSF	0.30	1,758
Misc. rough carpentry	5,860	GSF	1.00	5,860

				29,677

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
062000 FINISH CARPENTRY				
Running Trim:				
CW / Window sill	116	LF	65.00	7,540
Misc interior wd trim	1	LS	2,500.00	2,500
Kitchen Casework:				
25" Solid Surface Counter	15	LF	225.00	3,375
Base cab (nic ctr)	13	LF	275.00	3,575
Wall cab	6	LF	210.00	1,260
30" W Tall pantry storage cabinets	4	EA	1,250.00	5,000
Island Solid Surface ctr	32	SF	110.00	3,520
Island base cab (nic ctr)	8	LF	500.00	4,000
Refrigerator box	1	EA	1,650.00	1,650
Misc Casework-Allow:				
Watch Rm	1	EA	1,500.00	1,500
Wellness Ctr	1	EA	1,500.00	1,500
2nd Flr Office	1	EA	2,500.00	2,500
Vanity w/ ctr		NIC		
Day Room		NIC		
Laundry rm shelf	25	LF	45.00	1,125
Lobby display case		NIC		
Dorm rm wardrobe		NIC		
APP RM work bench		NIC		
Charging station ctr @ turn out rm		NIC		
BLDG & Grounds work bench		NIC		
Gear supply rm shelving 5 tier	200	LF	42.00	8,400
Storage shelving	1	LS	1,500.00	1,500
*Includes section 066100				
				48,945
DIVISION 07 - THERMAL & MOISTURE PROTECTION				
071001 DAMPPROOF., WATERPROOF. & SEALANT*				
Found. Dampproofing - 6'D	1,500	SF	2.50	3,750
Found prot bld - 6'D	1,500	SF	3.00	4,500
Ext wind, OH , dr & louver sealant	800	LF	5.25	4,200
Misc. exterior sealants	1	LS	500.00	500
Int joint sealants	1	LS	5,000.00	5,000
*Includes sections 071600 & 079200				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				17,950
070002 ROOFING & FLASHING*				
Flat Roof System:				
PVC Membrane	3,978	SF	7.35	29,238
Cover Board	3,978	SF	1.65	6,564
Insulation	3,978	SF	6.80	27,050
AVB - adhered memb.	3,978	SF	5.50	21,879
Protection bd	3,978	SF	1.90	7,558
Flash roof drain	8	EA	225.00	1,800
Gravel stop	365	LF	16.00	5,840
Base flashing	96	LF	24.50	2,352
Membrane flashing	3,978	SF	1.00	3,978
Walkway pads	1	LS	500.00	500
Roof Mech Screen Wall(74 LF x 7' 6"H):				
Wall membrane sys- backside	555	SF	8.50	4,718
Cap flashing	74	LF	25.00	1,850
Base flashing	74	LF	25.00	1,850
*Includes sections 075423 & 076200				

				115,177
072100 THERMAL INSULATION				
2" Rigid slab insul. 2' @ perim GF		W / DIV 3		
2" Rigid found insul.- 4' int wall		W / DIV 3		
4" Mineral wool wall insul	5,333	SF	5.10	27,198
Roof insulation		W /ROOFING		
Roof Mech Screen Wall Insul (74 LF x 7' 6"H)		NIC		

				27,198
072500 WEATHER BARRIER,VAPOR RETARDERS & AIR BARRIERS				
Air and Vapor Barrier:				
Seal slab to wall VB	250	LF	10.00	2,500
Exterior wall - Adhered AVB	5,333	SF	7.75	41,331
Exterior fascia W /soffit - Adhered AVB	730	SF	7.75	5,658
Roof Mech Screen Wall- Adhered AVB	555	SF	7.75	4,301
Ext wall air & vapor barrier - perim open	800	LF	8.00	6,400

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
*Includes sections 072500 & 0726000				

				60,190
074000 EXT SIDING & TRIM				
Exterior Panel Sys:				
Wd Veneer Inset Wall Panel	108	SF	85.00	9,180
MTL Corrugated Wall Panel	857	SF	55.00	47,135
ACM MTL Flush Wall Panel	946	SF	75.00	70,950
ACM MTL Band /1st flr wall cap	66	LF	100.00	6,600
ACM MTL 15" Built-up Fascia Panel	365	LF	125.00	45,625
ACM MTL 12"W Soffit Panel	365	SF	100.00	36,500
Roof Screen Wall Panel Sys:				
ACM MTL 15" Built-up Fascia Panel	74	LF	125.00	9,250
Misc Ext Wall Metal Trim :				
Green-screen Facade Sys(1 lock)	350	SF	50.00	17,500
Misc ext trim	1	LS	7,500.00	7,500
*Includes sections 066000 & 074646				

				250,240
077000 ROOF ACCESSORIES				
High Roof hatch	1	EA	4,850.00	4,850
Roof rails		N/A		
PV Solar panel		NIC		
*Includes sections 077233 & 077600				

				4,850
078400 FIRESTOPPING				
Fire stopping	1	LS	2,500.00	2,500

				2,500
DIVISION 08 - OPENINGS				
080008 GLASS AND GLAZING*				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Interior Glass & Glazing@:				
HM sidelight	21	SF	48.00	1,008
FR HM sidelight	38.5	SF	210.00	8,085
HM door		W / Unit Cost		
WD door		W / Unit Cost		
Allow :				
Mirror 6'H Fitness rm	48	SF	65.00	3,120

				12,213
081113 HOLLOW METAL DOORS AND FRAMES				
Exterior HM Frames:				
3' x 7'H Door -sgl	1	EA	310.00	310
5' x 8'H Door -dbl	1	EA	345.00	345
Exterior HM Doors (Inc Glass & Glazing):				
3' x 7'H Apparatus rm - sgl	1	EA	650.00	650
5 'x 8'H Apparatus Support rm - dbl	1	EA	1,300.00	1,300
Interior HM Frames:				
7' Door -sgl	23	EA	255.00	5,865
7' Door -dbl	1	EA	275.00	275
Sidelight 7'H	21	SF	44.00	924
FR Sidelight 7'H	38.5	SF	75.00	2,888
7'H Interior HM Doors :				
Lobby - sgl	1	EA	725.00	725
Decon rm - sgl	1	EA	550.00	550
Sgl user toilet rm	3	EA	510.00	1,530
Mech/elec - sgl	2	EA	510.00	1,020
Mech/elec - dbl	1	EA	1,025.00	1,025
Storage - sgl	3	EA	510.00	1,530

				18,937
081416 FLUSH WOOD DOORS				
7'H Station Interior (pre-finish) Wood Doors (Inc Glass & Glazing):				
Watch Rm - sgl	1	EA	675.00	675
Wellness Ctr - sgl	1	EA	675.00	675
2nd Flr Corridor / stair hall - sgl	2	EA	750.00	1,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Laundry Rm - sgl	1	EA	535.00	535
Dorm rm	4	EA	535.00	2,140
2nd Flr Office - sgl	1	EA	675.00	675
Sgl user toilet rm	3	EA	525.00	1,575

				7,775
083100 ACCESS DOORS AND PANELS				
Access panels -allow	4	EA	450.00	1,800

				1,800
083613 SECTIONAL OVERHEAD DOORS				
O.H. Door (Elec. Op) - 14'x14'	1	EA	18,500.00	18,500

				18,500
084000 ALUM ENTRANCES, STOREFRONTS & CURTAINWALL				
Ext Alum. Door, Frame, Hdw, Glass & Glazing:				
7'H Main entry - sgl	1	EA	4,650.00	4,650
7'H Wellness Ctr - sgl	1	EA	4,650.00	4,650
Alum Curtainwall Frame, Glass & Glazing:				
App rm window(1 LOC)	420	SF	130.00	54,600
Main entrance & stair hall	185	SF	130.00	24,050
Wellness Ctr entrance	38	SF	130.00	4,940
Sta 1st flr window(4 LOC)	240	SF	130.00	31,200
Sta 2nd flr window(11 LOC)	297	SF	130.00	38,610
Sta 2nd flr Kit window(1 LOC)	15	SF	130.00	1,950
Sta 2nd flr TR window(2 LOC)	24	SF	130.00	3,120
Allow:				
Main entrance auto opener -sgl	1	EA	6,800.00	6,800
Interior Alum Storefront		N/A		
Sun shade awning-30"proj (5 LOC)	30	LF	225.00	6,750
Metal canopy -complete(1 LOC)	43	SF	200.00	8,600

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				189,920
085414 WINDOWS		W/ 084000		

				0
087100 DOOR HARDWARE				
Ext Hdw Set HM Door :				
3'X7'H Apparatus rm - sgl	1	EA	1,800.00	1,800
5'X8'H Apparatus Support rm - dbl	1	EA	2,750.00	2,750
Int App. Rm HM Door Hdw Set:				
Lobby - sgl	1	EA	1,500.00	1,500
Decon rm - sgl	1	EA	850.00	850
Sgl user toilet rm	3	EA	850.00	2,550
Mech/elec - sgl	2	EA	850.00	1,700
Mech/elec - dbl	1	EA	1,200.00	1,200
Storage - sgl	3	EA	525.00	1,575
Int Sta. WD Door - Hdw Set:				
Watch Rm - sgl	1	EA	850.00	850
Wellness Ctr - sgl	1	EA	850.00	850
2nd Flr Corridor / stair hall - sgl	2	EA	3,000.00	6,000
Laundry Rm - sgl	1	EA	850.00	850
Dorm rm	4	EA	850.00	3,400
2nd Flr Office - sgl	1	EA	850.00	850
Sgl user toilet rm	3	EA	850.00	2,550
*Card access system, auto openers, OH doors and alum entry hardware specified elsewhere				

				29,275
089000 ARCHITECTURAL LOUVERS & VENTS				
Alum louver- N Elev (4EA)	74	SF	110.00	8,140

				8,140

DESCRIPTION		QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 09 - FINISHES					
090003 TILING, CERAMIC & STONE *					
Public Entry:					
Stone tile		172	SF	40.00	6,880
Stone tile wall base		44	LF	20.00	880
Stone thresholds		4	EA	200.00	800
Kitchen & Dining:					
Ceramic floor tile		400	SF	28.00	11,200
Ceramic tile wall base		60	LF	10.00	600
Thresholds & transitions		1	LS	500.00	500
STA Toilet /SHW Room (3 EA):					
Typ Ceramic floor tile		208	SF	36.00	7,488
Ceramic wall tile -4' dado		372	SF	28.00	10,416
Premium tile backer bd		372	SF	2.00	744
SGL Marble threshold		3	EA	125.00	375
SHW Receptor & Ceramic wall tile (2 EA)			W / Plumbing		
WPG membrane		170	SF	8.50	1,445
*Excludes FF & Decom toilet/ SHW RMS					

					41,328
090006 RESILIENT FLOORING*					
Wellness Ctr rubber sports flooring			SF	18.50	9,343
Typ Sta rubber tile	505		SF	16.00	9,600
Rubber wall base	600		LF	3.10	6,820
	2,200				
Rubber Stair Finish(1 FLT):					
Tread /riser			LFT	16.50	1,584
Landing /hall	96		SF	20.00	1,360
	68				

					28,707
090009 PAINTING*					
Int. painting			GSF	6.00	35,160
*Excludes wall cove	5,860				
Exterior Painting (2) Coat field painted:					

DESCRIPTION		QUANTITY	UNIT	UNIT COST	TOTAL
HM door & HM frame			LVS	125.00	375
Siding	3		N/A		
Trim			N/A		
Ext clg & soffit			N/A		
Misc ext painting		1	LS	1,500.00	1,500

					37,035
092900 GYPSUM WALLBOARD ASSEMBLIES					
Exterior Wall Framing:					
6" x 16 ga. Ext wall		5,333	SF	9.75	51,997
Fascia W /soffit		730	SF	10.00	7,300
1/2" Dens Glass Sheathing		6,063	SF	3.22	19,523
Thermal Clip bracket		2,000	SF	4.75	9,500
1 lyr 5/8" at ext wall		5,333	SF	2.45	13,066
Roof Mech Screen Wall Frame(74 LF x 7' 6"H):					
6" x 16 ga. ext sta. wall		555	SF	9.75	5,411
1/2" Dens Glass Sheathing		1,110	SF	3.22	3,574
Interior Partitions-Allow:					
Stair hall/Corridor		2,125	SF	12.75	27,094
Typical		991	SF	12.75	12,635
3" Chase gyp 1 side		1,404	SF	10.50	14,742
6" Chase gyp 1 side (APP - STA Sep)		428	SF	11.25	4,815
APP Bay & Support rm Ceiling (2,732 SF)			NIC		
STA Ceiling:					
Typ Gyp ceiling 25%		782	SF	13.00	10,166
Gyp soffit		3,128	GSF	1.00	3,128
*GWB includes sound attenuation, tape and joint compound finish					

					182,951
095100 ACOUSTICAL CEILING SYSTEMS*					
STA ACT - 2x2x3/4 75%		2,346	SF	7.50	17,595

					17,595

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
096723 SEAMLESS EPOXY FLOORING				
Epoxy Flooring W/ Int wall Base:				
APP Bay & support areas	1,850	SF	21.00	38,850
*Includes FF & Decom toilet/ SHW RMS				

				38,850
096810 CARPET TILE*				
Water vapor emission control sys		n/a		
Carpet tile:				
Dorm rm	400	SF	5.50	2,200
Office (2 lock)	175	SF	5.50	963

				3,163
DIVISION 10 - SPECIALTIES				
101100 VISUAL DISPLAY SURFACES				
Allow:				
Tack board	64	EA	525.00	33,600
Marker white board	64	EA	800.00	51,200
Motor op projection screen		NIC		

				84,800
101400 SIGNAGE				
Allow:				
Interior door signage	24	EA	125.00	3,000
Dedication plaque	1	EA	2,850.00	2,850
Misc int signage	1	LS	500.00	500
Ext bldg mtd letter 6"	21	EA	385.00	8,085
Ext bldg mtd letter 16"	10	EA	520.00	5,200
Misc ext signage	1	LS	2,500.00	2,500
*Site signage is included w/ 323000				

				22,135

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
102800 TOILET ACCESSORIES				
Allow Owner Furnished Contractor Install:				
Paper towel dispenser/disposal	5	EA	75.00	375
Toilet tissue dispenser	5	EA	75.00	375
Soap dispenser	5	EA	75.00	375
Allow GC Furnished And Install:				
Hand dryer		NIC		
Toilet grab bars	2	EA	95.00	190
Framed mirror	5	EA	325.00	1,625
STD shower accessories	2	EA	400.00	800
Coat hook	5	EA	35.00	175
Baby changing sta.	1	EA	475.00	475
SS Mop sink splash	1	EA	250.00	250
Janitor accessories	1	RM	175.00	175
*Excludes work rm accessories				

				4,815
104400 SAFETY SPECIALTIES				
Allow:				
Fire extinguishers & cab	4	EA	450.00	1,800
Fire extinguishers & bracket	2	EA	275.00	550
AED cab	1	EA	550.00	550

				2,900
109000 MISC. SPECIALTIES				
Metal Locker - Allow:				
Decon Rm - 12"w x24"D full HT	8	EA	1,500.00	12,000
Turn out gear - 30"w x24"D full HT	16	EA	2,000.00	32,000
Personal locker 18"wx24" D full HT	16	EA	1,700.00	27,200
Misc specialties- Allow	1	LS	10,000.00	10,000

				81,200

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 11 - EQUIPMENT				
119000 MISC. EQUIPMENT				
Fitness equipment		NIC		
Kitchen /Dining Appliance -Allow :				
Refrigerator w/ icemaker (48" x 30"D)	1	EA	4,000.00	4,000
36" Range - 6 burner	1	EA	6,000.00	6,000
Range hood	1	EA	1,500.00	1,500
Dishwasher	1	EA	1,500.00	1,500
Disposal	1	EA	300.00	300
MW oven - built-in	1	EA	1,500.00	1,500
Coffee maker w/ water conn	1	EA	1,000.00	1,000
Laundry Closet Appliance :				
Washer		w/ ff&e		
Dryer		w/ ff&e		
App. Room -Allow:				
Extractor washer	1	EA	7,500.00	7,500
Gear drying cab	1	EA	7,500.00	7,500
Wall mtd hose reel	1	EA	1,500.00	1,500
Hose storage & drying racks	1	LS	5,000.00	5,000
Ice Maker 100#	1	EA	1,500.00	1,500
SCBA Rack and Equipment	1	LS	5,000.00	5,000
Rappelling roof gear	1	EA	1,250.00	1,250

				45,050
DIVISION 12 - FURNISHINGS				
129000 FIXED FURNISHINGS				
Manual Op Roller Shade:				
Entry Storefront		NIC		
APP Window	576	SF	6.50	3,744
STA Window		NIC		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Main vestibule entry mat	1	EA	3,500.00	3,500

				7,244
DIVISION 13 - SPECIAL CONSTRUCTION				
Vehicle exhaust system		W/HVAC		
DIVISION 14 - CONVEYING EQUIPMENT				
142000 ELEVATOR*		N/A		
DIVISION 21 - FIRE SUPPRESSION				
210000 FIRE PROTECTION*				
6" dbl check valve	1	EA	8,800.00	8,800
Wet Valve Assembly	1	EA	3,100.00	3,100
Dry Valve assembly (inc. compressor)	1	EA	6,200.00	6,200
2 1/2" fdv	2	EA	1,325.00	2,650
4" fcvs	2	EA	1,800.00	3,600
Siamese connection	1	EA	2,600.00	2,600
2" drain test line	25	LF	42.00	1,050
Sched 40:				
4"	225	LF	61.00	13,725
Head and Branch Piping:	55	EA	385.00	21,175
Concealed head				Included Above
Upright				Included Above
Dry head				Included Above
Test, permit, as built	1	LS	10,000.00	10,000
*Excludes fire pump				

				72,900
DIVISION 22 - PLUMBING				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
220000 PLUMBING*				
Fixtures:				
P-1A ADA Water closet	5	EA	1,850.00	9,250
P-2 ADA Wall lav	5	EA	1,275.00	6,375
P-3 Urinal	4	EA	1,325.00	5,300
P-5 Staff shower	2	EA	3,000.00	6,000
P-6 Mop receptor	1	EA	1,975.00	1,975
P-9 Decon sink w/ eye wash	1	EA	2,500.00	2,500
P-10 Decon shower	2	EA	2,400.00	4,800
P-11 Hose reel	2	EA	1,200.00	2,400
P-12 Drinking Fountain	1	EA	3,110.00	3,110
P-13 Kitchen Sink	1	EA	1,500.00	1,500
P-14 SS Ctr mtd Sink	1	EA	1,350.00	1,350
P-15 Truck Fill Valve NPCW	2	EA	1,300.00	2,600
P-16 Emergency Eyewash	1	EA	3,500.00	3,500
Fixture connection	28	EA	300.00	8,400
P-8 Washing Machine Connection	2	EA	500.00	1,000
Hose bib	7	EA	430.00	3,010
Wall Hydrant	2	EA	430.00	860
Extractor conn	1	LOC	450.00	450
Hot Water System:				
Hot water recirculation	5	EA	1,500.00	7,500
EWH - 1	1	EA	10,000.00	10,000
EWH - (instantaneous)	3	EA	6,500.00	19,500
MV-1 Temp valve	1	EA	2,600.00	2,600
HW piping, valve and connection	1	LS	3,000.00	3,000
Roof/Storm Drain System				
Underground D/W/V Pipe:				
8"	65	LF	103.00	6,695
FCO	4	EA	425.00	1,700
Above Ground D/W/V Pipe:				
4"	75	LF	44.00	3,300
8"	45	LF	97.50	4,388
RD - 1	6	EA	1,345.00	8,070
OF - 1	2	EA	1,345.00	2,690
OF Nozzle	2	EA	850.00	1,700
Insulate leader	50	LF	13.00	650
Sanitary System				
Underground D/W/V Pipe:				
4"	100	LF	49.00	4,900
Above Ground D/W/V Pipe:				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
2"-4"	700	LF	42.00	29,400
FD	8	EA	650.00	5,200
Electric Trap Primer	1	LS	2,500.00	2,500
Domestic Piping:				
Branch	400	LF	20.00	8,000
Main	400	LF	26.00	10,400
Water Hammer arrestors	1	LS	2,000.00	2,000
1" Pipe Insulation:				
Branch	400	LF	7.30	2,920
Main	400	LF	8.45	3,380
Gas Piping	1	LS	4,500.00	4,500
Garage Drainage	1	LS	25,000.00	25,000
Air compressor (Install Only)	1	EA	2,500.00	2,500
1 1/2" Pipe	100	LF	28.00	2,800
Garage nozzle	4	EA	950.00	3,800
Compressor By Fire Dept				
Misc.:				
1" RPBP - Wash down	1	EA	1,150.00	1,150
Misc. Valves	1	LS	1,500.00	1,500
Underground Water Service:				
Domestic	10	LF	115.00	1,150
Back flow preventer (mech)	1	EA	500.00	500
Service rough in and 4" BFP valve	1	EA	3,500.00	3,500
Test, Perm, Clean, Misc GC	1	LS	20,000.00	20,000

				271,273

DIVISION 23 - HVAC

230000 HVAC*

HVAC	5,860	SF	60.00	351,600

				351,600

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DIVISION 25 - INTEGRATED AUTOMATION				
260000 ELECTRICAL				
Electrical	5,860	SF	80.00	468,800

				468,800
DIVISION 31 - EARTHWORK				
310000 EARTHWORK				
Site -allow(24,850 SF):				
Grading	2,761	SY	1.00	2,761
Site Cut	900	CY	45.00	40,500
Clear & grub	24,849	SF	0.50	12,425
Ledge Removal Allowance	1	LS	10,000.00	10,000
Building-Allow:				
Perim found. excavation(250 LF)	222	CY	24.00	5,328
Perim found. backfill(250 LF)	148	CY	24.00	3,552
Excavate under slab lines	3,718	SF	2.00	7,436
12" Gravel base @ slab	138	CY	34.00	4,692
Structural fill	500	CY	34.00	17,000
Under slab drain		NIC		
Perim found. drain - frost wall		NIC		
*Assumes suitable soils				

				103,694
311000 SITE CLEARING				
Allow (No Site Prep Plan):				
Construction entrance	1	LOC	5,000.00	5,000
Construction fence	600	LF	14.00	8,400
Erosion control	600	LF	8.00	4,800
Catch basin filter	5	EA	125.00	625
Saw cut street @ entry drive (2 LOC)	50	LF	4.50	225
Saw cut sidewalk @ entry drive (2 LOC)	24	LF	4.50	108
Saw cut site parking	50	LF	6.00	300
Strip & stack topsoil-6"	322	CY	6.50	2,093
Tree removal	5	EA	750.00	3,750
Tree protection	5	EA	450.00	2,250

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Clear & grub	1	LS	3,000.00	3,000
Site Remove Existing-Allow:				
Street curb @ entry drive (2 LOC)	50	LF	30.00	1,500
Town sidewalk @ entry drive (2 LOC)	300	SF	5.00	1,500
30% Bituminous walk,drive,parking & curbi	7,455	SF	1.25	9,319
Misc site prep	24,850	SF	0.25	6,213

				49,082

321000 PAVING SIDEWALKS AND CURBING

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Pavement patch @ utilities		W / Utility		
Concrete apron - 6' @ APP dr	96	SF	16.00	1,536
Concrete apron/ sidewalk - 6' @ entry drive	250	SF	10.00	2,500
3 1/2" Bituminous - APP drive	111	SY	30.00	3,330
3 1/2" Bituminous - rear drive/parking	555	SY	30.00	16,650
Granite curb straight	400	LF	44.00	17,600
Granite curb radius	50	LF	48.00	2,400
Pavement markings	1	LS	2,500.00	2,500
HC paver	5	EA	550.00	2,750
6" Site conc. walk -front entry	250	SF	8.75	2,188
6" Site conc. walk - Rear egress	700	SF	8.75	6,125
12" Gravel paving base @ drives	521	CY	35.00	18,235
8" Gravel paving base @ walk	24	CY	39.00	936
St patch @ entry (2 loc)	50	LF	50.00	2,500
*Excludes town sidewalk & st curb replacement				
*Excludes rerouting St Agatha Rd				

				79,250

323000 SITE IMPROVEMENTS

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Allow:				
Site Stair		NIC		
Site ramp		NIC		
Retaining wall		NIC		
Flagpole w/conc ftg	1	EA	10,500.00	10,500
Bollards @ ext equip pad	8	EA	1,200.00	9,600
Bollards @ OH door		W / MISC METALS		
Conc dumpster pad & enclosure		NIC		
Mech equip enclosure		NIC		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Site sign	1	EA	7,500.00	7,500
Parking / traffic signage	1	LS	1,500.00	1,500
Traffic lights		NIC		
Misc site improvements	1	LS	5,000.00	5,000

				34,100
328000 IRRIGATION		NIC		

				0
329000 LANDSCAPING WORK				
Planting allowance	1	LS	1,000.00	1,000
6" Loam	222	CY	65.00	14,430
Rake seed and fertilize lawn	12,000	SF	0.40	4,800

				20,230
DIVISION 33 - UTILITIES				
330000 UTILITIES				
Sanitary:				
St Connection	1	LOC	2,500.00	2,500
Sanitary manhole	1	EA	4,400.00	4,400
6" Sewer line	100	LF	88.00	8,800
Ext. oil/sand separator	1	EA	6,500.00	6,500
St & sidewalk - cut & patch	1	LOC	3,500.00	3,500
Water:				
Street connection	1	LOC	10,000.00	10,000
6" Main/Fire	100	LF	95.00	9,500
2" Domestic	10	LF	72.00	720
Fire gate valve	1	EA	1,350.00	1,350
Dom gate valve	1	EA	1,250.00	1,250
St & sidewalk - cut & patch	1	LOC	3,500.00	3,500
Flat Roof Drainage:				
Roof drain line	30	LF	82.00	2,460

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Site Drainage:				
Street connection	2	LOC	10,000.00	20,000
Front drive trench drain	18	LF	145.00	2,610
Rear drive catch basin	3	EA	4,200.00	12,600
Rear drive drain manhole	2	EA	4,200.00	8,400
Typ 12" HDPE drain line	200	LF	85.00	17,000
St & sidewalk - cut & patch	1	LOC	3,500.00	3,500
Electric:				
Transformer pad	1	EA	2,500.00	2,500
Generator pad	1	EA	3,000.00	3,000
New utility pole		By Others		
Ext duct bank pole -transformer	100	LF	85.00	8,500
Ext duct bank transformer - bldg	20	LF	85.00	1,700
Ext duct bank gen - bldg	50	LF	75.00	3,750
IT/DATA/CATV /Spare	100	LF	75.00	7,500
St & sidewalk - cut & patch	1	LOC	3,500.00	3,500
Site Lighting:				
Conc parking light pole base	5	EA	775.00	3,875
Trenching @ site light	250	LF	12.00	3,000
Mechanical:				
Gas service - Trench and Backfill	100	LF	45.00	4,500
Gas meter pad	1	EA	500.00	500
St & sidewalk - cut & patch	1	LOC	3,500.00	3,500
*Utilities include excavation and backfill				
*Excludes Utility Co. back charges				

				164,415