

**FAC 1403 MISSILE OPERATIONS BUILDING**

FY24 SUC:	\$7.76 / SF
Source:	Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 1403 MISSILE OPERATIONS BUILDING

SUC \$7.76

Release 2023 Qtr 4  
Zip Code Prefix 222  
Type MR

UM SF  
Design Life 50  
Average Size 6791.055555

Adjusted Occurrences are the occurrences remaining after subtracting Repair/Replacement Overlaps. Overlap reduction removes a repair when it occurs the same year as a replacement.

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace flush valve diaphragm tankless water closet	10	4.00 Ea.	\$109.06	\$135.42	5.0000	5	5	\$677.12	\$677.12
Rebuild flush valve tankless water closet	20	4.00 Ea.	\$767.52	\$925.08	2.5000	2	2	\$1,850.15	\$1,850.15
Unplug clogged line tankless water closet	5	4.00 Ea.	\$919.72	\$1,151.33	10.0000	10	10	\$11,513.27	\$11,513.27
Replace tankless water closet	35	4.00 Ea.	\$5,666.22	\$6,553.28	1.4286	1	1	\$6,553.28	\$6,553.28
Replace tankless flush valve	25	4.00 Ea.	\$1,080.97	\$1,268.87	2.0000	2	2	\$2,537.74	\$2,537.74
Replace wax ring gasket for tankless water closet	5	4.00 Ea.	\$596.66	\$746.21	10.0000	10	10	\$7,462.14	\$7,462.14
Replace flush valve diaphragm for a urinal	7	2.00 Ea.	\$54.53	\$67.71	7.1429	7	7	\$473.98	\$473.98
Rebuild flush valve for a urinal	20	2.00 Ea.	\$383.76	\$462.54	2.5000	2	2	\$925.08	\$925.08
Unplug line urinal	5	2.00 Ea.	\$305.28	\$382.16	10.0000	10	10	\$3,821.63	\$3,821.63
Replace wall-hung urinal	35	2.00 Ea.	\$2,175.04	\$2,616.09	1.4286	1	1	\$2,616.09	\$2,616.09
Replace washer in spud connection lavatory, vitreous china	7	4.00 Ea.	\$69.29	\$84.56	7.1429	7	7	\$591.94	\$591.94
Replace washer in faucet lavatory, vitreous china	2	4.00 Ea.	\$54.27	\$67.67	25.0000	25	25	\$1,691.72	\$1,691.72
Replace faucets lavatory, vitreous china	10	4.00 Ea.	\$781.89	\$940.49	5.0000	5	5	\$4,702.43	\$4,702.43
Clean out strainer and P trap lavatory, vitreous china	2	4.00 Ea.	\$147.27	\$184.36	25.0000	25	25	\$4,609.07	\$4,609.07
Replace lavatory, vitreous china	35	4.00 Ea.	\$2,874.89	\$3,453.62	1.4286	1	1	\$3,453.62	\$3,453.62
Replace faucet washer sink, iron enamel	2	1.00 Ea.	\$13.45	\$16.77	25.0000	25	25	\$419.23	\$419.23
Clean trap sink, iron enamel	3	1.00 Ea.	\$9.01	\$11.27	16.6667	16	16	\$180.39	\$180.39
Replace faucets sink, iron enamel	10	1.00 Ea.	\$195.47	\$235.12	5.0000	5	5	\$1,175.61	\$1,175.61
Unstop sink, iron enamel	2	1.00 Ea.	\$44.01	\$55.09	25.0000	25	25	\$1,377.35	\$1,377.35
Replace sink, P.E.C.I. sink, iron enamel kitchen	10	1.00 Ea.	\$1,208.43	\$1,409.28	5.0000	5	5	\$7,046.38	\$7,046.38
Drain and flush water heater, electric, 120 gallon	7	0.50 Ea.	\$154.57	\$193.50	7.1429	7	7	\$1,354.50	\$1,354.50
Replace pump / motor assembly circulation pump, 1/12 HP	10	1.00 Ea.	\$1,218.91	\$1,426.89	5.0000	5	5	\$7,134.47	\$7,134.47
Unclog main drain pipe & fittings, cast iron	10	1.00 Ea.	\$48.84	\$61.14	5.0000	5	5	\$305.70	\$305.70
Replace pipe & fittings, cast iron, 4"	40	8.00 L.F.	\$462.98	\$562.55	1.2500	1	1	\$562.55	\$562.55
Unclog floor drain, PVC	20	1.00 Ea.	\$50.45	\$63.16	2.5000	2	2	\$126.31	\$126.31
General maintenance & repair drain: roof, scupper, area	1	1.00 Ea.	\$39.18	\$49.05	50.0000	50	50	\$2,452.35	\$2,452.35
Replace drain: roof, scupper, area	40	1.00 Ea.	\$1,130.37	\$1,303.85	1.2500	1	1	\$1,303.85	\$1,303.85
Repair boiler, gas, 250 MBH	7	1.00 Ea.	\$2,758.88	\$3,222.41	7.1429	7	7	\$22,556.86	\$22,556.86
Replace boiler, gas, 250 MBH	30	1.00 Ea.	\$9,616.21	\$11,488.35	1.6667	1	1	\$11,488.35	\$11,488.35
Repair circulator pump, 1/12 - 3/4 H.P.	5	1.00 Ea.	\$103.47	\$122.05	10.0000	10	7	\$1,220.52	\$854.36
Replace circulator pump, 1/12 - 3/4 H.P.	15	1.00 Ea.	\$3,796.05	\$4,376.03	3.3333	3	3	\$13,128.10	\$13,128.10
Replace terminal reheat, 12" x 24" coil	15	1.00 Ea.	\$1,989.29	\$2,281.38	3.3333	3	3	\$6,844.13	\$6,844.13

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Repair terminal reheat, 18" x 24" coil	10	1.00 Ea.	\$109.49	\$137.06	5.0000	5	5	\$685.31	\$685.31
Repair computer room A/C, chilled water, 5 ton	10	1.00 Ea.	\$8,542.57	\$9,995.14	5.0000	5	3	\$49,975.68	\$29,985.41
Replace computer room A/C, chilled water, 5 ton	20	1.00 Ea.	\$27,777.49	\$31,867.75	2.5000	2	2	\$63,735.51	\$63,735.51
Repair single zone rooftop unit, 15 ton	10	1.00 Ea.	\$36,484.26	\$42,109.15	5.0000	5	5	\$210,545.77	\$210,545.77
Replace single zone rooftop unit, 15 ton	15	1.00 Ea.	\$21,309.75	\$25,108.01	3.3333	3	3	\$75,324.04	\$75,324.04
Repair central station A.H.U., 8000 CFM	10	1.00 Ea.	\$1,802.39	\$2,085.97	5.0000	5	4	\$10,429.85	\$8,343.88
Replace central station A.H.U., 8000 CFM	15	1.00 Ea.	\$40,394.19	\$46,556.29	3.3333	3	3	\$139,668.88	\$139,668.88
Inspect sprinkler system	1	1.00 Ea.	\$36.17	\$45.28	50.0000	50	50	\$2,264.22	\$2,264.22
Replace sprinkler head	20	12.00 Ea.	\$1,051.77	\$1,297.82	2.5000	2	2	\$2,595.65	\$2,595.65
Rebuild double check 3" backflow preventer sprinkler system	1	1.00 Ea.	\$748.17	\$896.73	50.0000	50	50	\$44,836.44	\$44,836.44
Replace fire pump / electric motor assembly 100 H.P.	25	1.00 Ea.	\$48,011.97	\$55,351.32	2.0000	2	2	\$110,702.65	\$110,702.65
Repair switchboard meter	10	2.00 Ea.	\$2,437.24	\$2,868.25	5.0000	5	5	\$14,341.24	\$14,341.24
Maintenance and repair rectifier, up to 600 V	2	1.00 Ea.	\$670.93	\$802.03	25.0000	25	25	\$20,050.76	\$20,050.76
Maintenance and repair motor starter, up to 600 V	5	2.00 Ea.	\$525.64	\$638.99	10.0000	10	10	\$6,389.88	\$6,389.88
Maintenance and inspection motor starter, up to 600 V	0.5	2.00 Ea.	\$113.76	\$142.53	100.0000	100	100	\$14,252.54	\$14,252.54
Replace starter motor starter, up to 600 V	18	2.00 Ea.	\$1,682.04	\$2,001.49	2.7778	2	2	\$4,002.99	\$4,002.99
Maintenance and repair secondary transformer, dry	10	2.00 Ea.	\$508.21	\$607.25	5.0000	5	5	\$3,036.25	\$3,036.25
Maintenance and inspection secondary transformer, dry	0.5	2.00 Ea.	\$170.64	\$213.79	100.0000	100	100	\$21,378.82	\$21,378.82
Maintenance and inspection lighting panel, indoor	3	4.00 Ea.	\$169.38	\$212.20	16.6667	16	16	\$3,395.27	\$3,395.27
Maintenance and repair breaker, molded case, 480 V, 2 pole	20	16.00 Ea.	\$1,213.45	\$1,520.27	2.5000	2	2	\$3,040.54	\$3,040.54
Repair failed breaker, molded case, 600 V, 3 pole	10	1.00 Ea.	\$363.58	\$433.99	5.0000	5	5	\$2,169.95	\$2,169.95
Maintenance and inspection circuit breaker, molded case, 600 V, 3 pole	0.33	1.00 Ea.	\$34.13	\$42.76	151.5152	151	151	\$6,456.40	\$6,456.40
Maintenance and repair building structure ground	7	1.00 M.L.F.	\$92.28	\$115.32	7.1429	7	7	\$807.25	\$807.25
Replace building structure ground	50	1.00 M.L.F.	\$5,386.63	\$6,531.10	1.0000	1	1	\$6,531.10	\$6,531.10
Maintenance and repair of general wiring lightning protection system	1	2.00 M.L.F.	\$219.00	\$269.77	50.0000	50	50	\$13,488.67	\$13,488.67
Replace lightning protection general wiring system	25	2.00 M.L.F.	\$25,096.72	\$29,750.85	2.0000	2	2	\$59,501.71	\$59,501.71
Maintenance and repair lightning ground rod	1	4.00 Ea.	\$369.13	\$461.29	50.0000	50	48	\$23,064.31	\$22,141.74
Replace lightning ground rod	25	4.00 Ea.	\$982.42	\$1,214.69	2.0000	2	2	\$2,429.37	\$2,429.37
Check operation water heater, electric, 120 gallon	3	0.50 Ea.	\$1.36	\$1.70	16.6667	16	16	\$27.20	\$27.20
Replace water heater, electric, 120 gallon	15	0.50 Ea.	\$8,238.57	\$9,419.95	3.3333	3	3	\$28,259.86	\$28,259.86

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Inspect / check pump / motor operation, lubricate circulation pump, 1/12 HP	0.5	1.00 Ea.	\$8.44	\$10.56	100.0000	100	100	\$1,056.19	\$1,056.19
Replace circuit breaker molded case, 600 V, 3 pole circuit breaker	50	1.00 Ea.	\$4,684.58	\$5,368.54	1.0000	1	1	\$5,368.54	\$5,368.54
Maintenance and repair safety switch, 3 pole safety switch, heavy duty	8	2.00 Ea.	\$84.69	\$106.10	6.2500	6	6	\$636.61	\$636.61
Maintenance and repair receptacles and plugs	20	97.00 Ea.	\$4,272.19	\$5,333.24	2.5000	2	2	\$10,666.48	\$10,666.48
Replace receptacle/plug receptacles and plugs	20	97.00 Ea.	\$7,258.57	\$8,949.94	2.5000	2	2	\$17,899.89	\$17,899.89
Maintenance and repair wiring devices, switches	10	36.00 Ea.	\$1,585.56	\$1,979.35	5.0000	5	5	\$9,896.73	\$9,896.73
Replace wiring devices, switches	15	36.00 Ea.	\$2,400.52	\$2,988.25	3.3333	3	3	\$8,964.74	\$8,964.74
Maintenance and repair incandescent lighting fixtures	10	48.00 Ea.	\$3,232.04	\$3,861.48	5.0000	5	5	\$19,307.41	\$19,307.41
Replace incandescent lighting fixture lamp	5	48.00 Ea.	\$616.32	\$741.78	10.0000	10	10	\$7,417.80	\$7,417.80
Replace fluorescent light fixture ballast, 80 W	10	14.00 Ea.	\$1,464.49	\$1,805.87	5.0000	5	5	\$9,029.36	\$9,029.36
Replace lamps (2 lamps), 4', 34 W energy saver	10	14.00 Ea.	\$370.80	\$464.37	5.0000	5	5	\$2,321.83	\$2,321.83
Repair smoke detector	10	32.00 Ea.	\$1,856.33	\$2,298.64	5.0000	5	4	\$11,493.21	\$9,194.57
Check operation smoke detector	1	32.00 Ea.	\$544.03	\$681.59	50.0000	50	50	\$34,079.42	\$34,079.42
Replace smoke detector	15	32.00 Ea.	\$9,681.68	\$11,558.99	3.3333	3	3	\$34,676.97	\$34,676.97
Check and repair manual pull station	10	8.00 Ea.	\$719.07	\$885.97	5.0000	5	4	\$4,429.87	\$3,543.90
Replace manual pull station	15	8.00 Ea.	\$1,670.07	\$2,014.10	3.3333	3	3	\$6,042.31	\$6,042.31
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.42	\$182.60	10.0000	10	10	\$1,825.95	\$1,825.95
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$45.50	\$57.01	100.0000	100	100	\$5,701.02	\$5,701.02
Minor repairs to annunciation panel	5	1.00 Ea.	\$149.42	\$182.60	10.0000	10	10	\$1,825.95	\$1,825.95
Maintenance and inspection annunciation panel	0.5	1.00 Ea.	\$45.50	\$57.01	100.0000	100	100	\$5,701.02	\$5,701.02
Replace fire alarm bell, 6"	20	4.00 Ea.	\$722.42	\$879.09	2.5000	2	2	\$1,758.17	\$1,758.17
Maintenance and repair electrical service ground	25	1.00 M.L.F.	\$92.28	\$115.32	2.0000	2	2	\$230.64	\$230.64
Replace electrical service ground	50	1.00 M.L.F.	\$4,504.18	\$5,489.97	1.0000	1	1	\$5,489.97	\$5,489.97
Replace 3'-0" x 7'-0" steel painted interior door	60	2.00 Ea.	\$2,559.10	\$2,967.83	0.8333	0	0	\$0.00	\$0.00
Repair solid core wood door, interior	11	10.00 Ea.	\$2,789.88	\$3,256.82	4.5455	4	4	\$13,027.29	\$13,027.29
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	10.00 Ea.	\$440.15	\$542.38	12.5000	12	11	\$6,508.53	\$5,966.16
Replace 3'-0" x 7'-0" solid core wood door, interior	40	10.00 Ea.	\$5,665.50	\$6,540.98	1.2500	1	1	\$6,540.98	\$6,540.98
Repair concrete steps	15	0.70 S.F.	\$21.89	\$25.23	3.3333	3	3	\$75.70	\$75.70
Replace concrete steps	100	16.00 S.F.	\$915.05	\$1,116.13	0.5000	0	0	\$0.00	\$0.00
Replace metal stair railing, interior	45	12.00 L.F.	\$559.69	\$654.97	1.1111	1	1	\$654.97	\$654.97
Refinish concrete floor finished	25	8.46 C.S.F.	\$3,524.24	\$4,252.15	2.0000	2	2	\$8,504.31	\$8,504.31
Replace vinyl tile flooring	18	5.11 S.Y.	\$261.12	\$321.34	2.7778	2	2	\$642.67	\$642.67
Terrazzo floor repairs - (2% of floors)	15	1.32 S.F.	\$22.57	\$27.06	3.3333	3	3	\$81.17	\$81.17

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
Replace terrazzo floor	75	0.66 C.S.F.	\$1,081.13	\$1,291.98	0.6667	0	0	\$0.00	\$0.00	
Replace carpet	8	48.89 S.Y.	\$2,639.89	\$3,052.81	6.2500	6	6	\$18,316.88	\$18,316.88	
Repair gypsum board ceiling - (2% of ceilings)	20	0.01 C.S.F.	\$5.76	\$7.08	2.5000	2	2	\$14.15	\$14.15	
Refinish gypsum board ceiling, up to 12' high	20	0.78 C.S.F.	\$113.19	\$139.25	2.5000	2	1	\$278.50	\$139.25	
Replace gypsum board ceiling, up to 12' high	40	0.78 C.S.F.	\$307.40	\$377.59	1.2500	1	1	\$377.59	\$377.59	
Replace acoustic tile ceiling, fire-rated	20	5.18 C.S.F.	\$2,698.41	\$3,189.31	2.5000	2	2	\$6,378.62	\$6,378.62	
Repair steel painted interior door	14	2.00 Ea.	\$557.98	\$651.36	3.5714	3	3	\$1,954.09	\$1,954.09	
Repair 8" concrete block wall, 1st floor	25	6,500.00 S.F.	\$167,044.64	\$204,546.78	2.0000	2	2	\$409,093.56	\$409,093.56	
Replace 8" concrete block wall, 1st floor	60	50.00 C.S.F.	\$63,607.86	\$76,900.33	0.8333	0	0	\$0.00	\$0.00	
Repair clay brick wall, 1st floor	25	31.30 S.F.	\$1,416.30	\$1,740.86	2.0000	2	2	\$3,481.71	\$3,481.71	
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	1.20 S.F.	\$15.78	\$18.53	50.0000	50	50	\$926.43	\$926.43	
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	20.00 Ea.	\$3,126.26	\$3,725.43	2.5000	2	2	\$7,450.86	\$7,450.86	
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	20.00 Ea.	\$13,550.81	\$15,906.06	1.0000	1	1	\$15,906.06	\$15,906.06	
Replace glass - 2nd floor (1% of glass) - alum. window fixed	1	2.00 S.F.	\$226.62	\$279.76	50.0000	50	50	\$13,987.83	\$13,987.83	
Repair steel, painted, door	14	0.10 Ea.	\$70.23	\$83.42	3.5714	3	3	\$250.26	\$250.26	
Refinish 3'-0" x 7'-0" steel, painted, door	4	3.00 Ea.	\$138.16	\$169.19	12.5000	12	12	\$2,030.26	\$2,030.26	
Replace 3'-0" x 7'-0" steel, painted, door	45	3.00 Ea.	\$2,751.33	\$3,185.78	1.1111	1	1	\$3,185.78	\$3,185.78	
Debris removal and visual inspection of built-up roofing	0.5	0.91 M.S.F.	\$36.83	\$44.93	100.0000	100	100	\$4,492.55	\$4,492.55	
Non-destructive moisture inspection of built-up roofing	5	0.91 M.S.F.	\$114.76	\$139.97	10.0000	10	10	\$1,399.72	\$1,399.72	
Minor BUR membrane repairs, 2% of roof area	1	0.18 Sq.	\$96.29	\$114.18	50.0000	50	50	\$5,708.75	\$5,708.75	
BUR flashing repairs, 2 S.F. per sq. repaired	1	0.36 S.F.	\$1.37	\$1.67	50.0000	50	50	\$83.48	\$83.48	
Debris removal, by hand and visual inspection, metal panel roofing	1	5.60 M.S.F.	\$137.43	\$167.62	50.0000	50	50	\$8,381.19	\$8,381.19	
Minor metal roof finish repairs, 2% of roof area, metal panel roofing	5	113.00 S.F.	\$522.29	\$620.70	10.0000	10	10	\$6,207.05	\$6,207.05	
Metal roof flashing replacement, 2 SF/sq repaired, metal panel roofing	1	5.00 S.F.	\$126.54	\$151.23	50.0000	50	50	\$7,561.58	\$7,561.58	
Minor metal roof panel replacement, 2.5% of roof area	20	141.00 S.F.	\$1,815.80	\$2,152.53	2.5000	2	2	\$4,305.06	\$4,305.06	
Total metal roof panel replacement	30	57.00 Sq.	\$50,441.47	\$59,797.68	1.6667	1	1	\$59,797.68	\$59,797.68	
			\$648,931.09	\$772,789.34				MR Subtotal	\$1,871,738.17	
									MR Per Year	\$37,370.32
									PM Total	\$15,351.56
									Subtotal	\$52,721.88
									Total Per Unit	\$7.76

FAC 1403 MISSILE OPERATIONS BUILDING

SUC \$7.76

Release 2023 Qtr 4

UM SF

Zip Code Prefix 222

Design Life 50

Type PM

Average Size 6791.055555

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	4.00	1.04	\$67.05	\$45.93	\$0.00	\$112.99	\$133.47	\$157.31
Fire doors, swinging, annualized	1.00	0.39	\$15.67	\$15.46	\$0.00	\$31.12	\$37.32	\$44.31
Urinals, annualized	2.00	0.46	\$13.26	\$24.33	\$0.00	\$37.59	\$46.21	\$55.50
Toilet (vacuum breaker type), annualized	4.00	0.71	\$35.42	\$37.84	\$0.00	\$73.26	\$88.16	\$104.83
Lavatories, annualized	4.00	1.39	\$31.17	\$87.20	\$0.00	\$118.37	\$147.65	\$178.48
Duplex sump, annualized	2.00	3.31	\$53.64	\$177.89	\$0.00	\$231.52	\$290.25	\$351.67
Boiler, hot water, oil, gas, or comb. fired, up to 120 MBH, annualized	1.00	12.53	\$88.55	\$793.52	\$0.00	\$882.07	\$1,128.98	\$1,380.32
Air handling unit, computer room, annualized	1.00	3.42	\$92.60	\$182.25	\$0.00	\$274.85	\$338.78	\$407.34
VAV Boxes, annualized	8.00	7.47	\$87.03	\$470.88	\$0.00	\$557.91	\$707.88	\$862.20
Package unit, air cooled, 3 thru 24 ton, annualized	1.00	2.40	\$166.98	\$151.73	\$0.00	\$318.71	\$380.92	\$451.49
Backflow prevention device, up to 4", annually	1.00	0.33	\$14.02	\$20.93	\$0.00	\$34.94	\$42.62	\$51.01
Backflow prevention device, up to 4", annualized	1.00	0.33	\$14.02	\$20.93	\$0.00	\$34.94	\$42.62	\$51.01
Extinguishing system, wet pipe, annualized	1.00	11.34	\$49.59	\$710.68	\$0.00	\$760.27	\$978.43	\$1,199.07
Fire pump, electric motor driven, annualized	1.00	47.75	\$37.44	\$2,986.60	\$0.00	\$3,024.04	\$3,923.77	\$4,825.37
Extinguishing system, foam pump electric, annualized	1.00	17.72	\$328.90	\$959.20	\$0.00	\$1,288.10	\$1,608.75	\$1,945.85
Switchboard, with air circuit breaker, annually	1.00	4.26	\$15.98	\$295.90	\$0.00	\$311.88	\$402.25	\$493.42
Circuit breaker, high voltage air, annualized	1.00	0.47	\$13.83	\$32.48	\$0.00	\$46.31	\$57.43	\$69.25
Transformer, dry type 500 KVA and over, annualized	1.00	0.77	\$13.83	\$53.61	\$0.00	\$67.44	\$84.91	\$103.07
Panelboard, 225 A and above, annualized	1.00	0.44	\$22.00	\$30.41	\$0.00	\$52.42	\$63.74	\$76.16
Motor control center, over 400 A, annualized	1.00	0.39	\$22.00	\$26.81	\$0.00	\$48.81	\$59.05	\$70.39
Fire alarm annunciator system, annualized	1.00	11.05	\$163.44	\$695.92	\$0.00	\$859.36	\$1,084.48	\$1,317.78
Security, intrusion alarm system, annualized	1.00	3.83	\$149.07	\$241.25	\$0.00	\$390.32	\$477.61	\$572.34
Light, emergency, hardwired system, annualized	16.00	4.00	\$143.68	\$252.39	\$0.00	\$396.07	\$486.15	\$583.42
						\$9,953.29	\$12,611.45	\$15,351.56



# FAC 1403 MISSILE OPERATIONS BUILDING

## Modeled Component List

### CostWorks Release 2023 Qtr 4

#### D20 Plumbing

Tankless Water Closet	4.0 Ea.
Urinal	2.0 Ea.
Lavatory, Vitreous China	4.0 Ea.
Sink, Iron Enamel	1.0 Ea.
Circulation Pump, 1/12 HP	1.0 Ea.
Drain: Roof, Scupper, Area	1.0 Ea.
Water Heater, Electric, 120 Gallon	0.5 Ea.

#### D30 HVAC

Boiler, Gas, 250 MBH	1.0 Ea.
Circulator Pump, 1/12 - 3/4 H.P.	1.0 Ea.
Terminal Reheat Coil, 12" x 24"	1.0 Ea.
Computer Room A/C Units, Chilled Water, 5 ton	1.0 Ea.
Single Zone Air Conditioner, 15 ton	1.0 Ea.
Central Station Air Conditioning Air Handling Unit, 8000 CFM	1.0 Ea.
VAV Box	8.0 Each

#### D40 Fire Protection

Sprinkler System, Fire Supression, sprinkler head	12.0 Ea.
Sprinkler System, Fire Supression , 3" backflow preventer	1.0 Ea.
Fire Pump Electric Motor	1.0 Ea.
Fire Pump, Electric, annualized	1.0 Each

#### D50 Electrical

Motor Starter, Up To 600 V	2.0 Ea.
Load Center, 100 A, maintenance & inspection	4.0 Ea.
Building Structure Ground	1.0 M.L.F.
Lightning Protection System	2.0 M.L.F.
Lightning Ground Rod	4.0 Ea.
Circuit Breaker, molded case, 600 V, 3 pole	1.0 Ea.
Smoke Detector	32.0 Ea.
Manual Pull Station	8.0 Ea.
Fire Alarm Bell	4.0 Ea.
Electrical Service Ground	1.0 M.L.F.

#### C10 Interior Construction

Steel Painted Interior Doors	2.0 Ea.
Solid Core Interior Doors	10.0 Ea.
Fire Doors, Swinging, annualized	1.0 Each

#### C20 Stairs

Concrete Steps	16.0 S.F.
Metal Interior Stair Railing	12.0 L.F.

#### C30 Interior Finishes

Concrete, Finished	8.46 C.S.F.
Vinyl	5.111 S.Y.
Terrazzo	0.66 C.S.F.
Carpet	48.89 S.Y.
Gypsum Wall Board	0.78 C.S.F.
Acoustic Tile, fire-rated	5.18 C.S.F.

#### B20 Exterior Enclosure

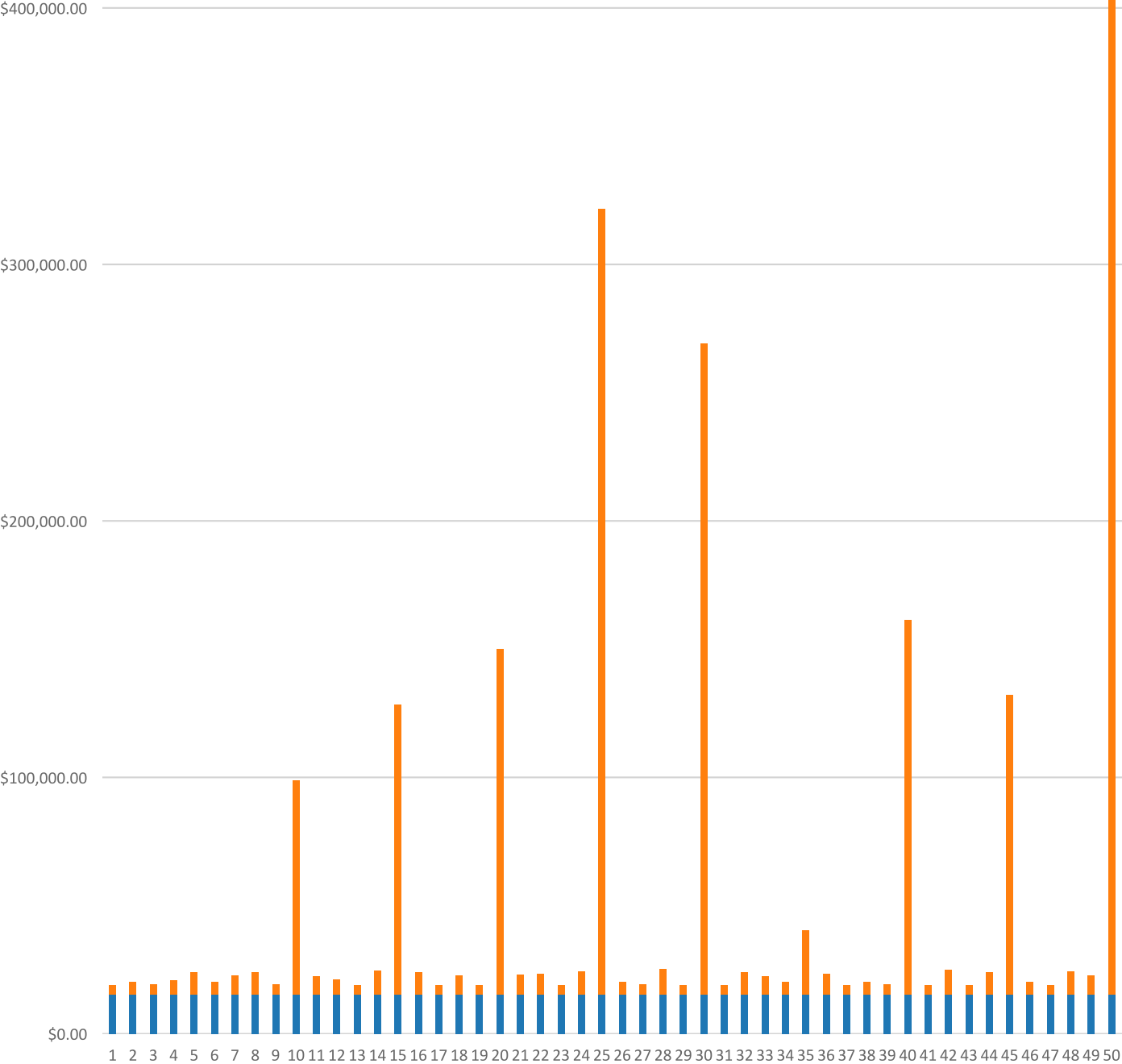
Concrete Block, 1st floor	50.0 C.S.F.
Aluminum Window, Fixed, 1st floor	20.0 Ea.
Steel, Painted	3.0 Ea.

#### B30 Roofing

Metal Steep Roofing	57.0 Sq.
---------------------	----------



FAC 1403 MISSILE OPERATIONS BUILDING  
Sustainment by Year  
CostWorks Release 2023 Qtr 4



PM Cost  
MR Cost