

FAC 1446 SECURITY FORCE BUILDING

FY22 SUC: \$4.62 / SF
Source: Calculated using R.S. Means CostWorks 2021 Qtr 3
component prices

FAC 1446 SECURITY FORCE BUILDING

SUC \$4.62

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM SF
Design Life 55
Average Size 11325.0

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
Repair clay brick wall, 1st floor	25	750.00 S.F.	\$32,232.46	\$39,558.35	2.2000	2	2	\$79,116.70	\$79,116.70
Replace clay brick wall, 2nd floor	75	7.50 C.S.F.	\$16,945.38	\$20,617.46	0.7333	0	0	\$0.00	\$0.00
Replace glass - 1st floor. (1% of glass) - alum. window	1	1.44 S.F.	\$17.36	\$20.41	55.0000	55	55	\$1,122.39	\$1,122.39
Repair 3' x 4' aluminum window - 1st floor	20	12.00 Ea.	\$3,142.77	\$3,699.62	2.7500	2	2	\$7,399.23	\$7,399.23
Replace 3' x 4' aluminum window - 1st floor	50	12.00 Ea.	\$9,777.45	\$11,396.69	1.1000	1	1	\$11,396.69	\$11,396.69
Replace glass - 2nd floor. (1% of glass) - alum. window	1	2.76 S.F.	\$46.30	\$55.28	55.0000	55	55	\$3,040.34	\$3,040.34
Repair 3' x 4' aluminum window - 2nd floor	20	23.00 Ea.	\$7,095.04	\$8,421.41	2.7500	2	2	\$16,842.82	\$16,842.82
Replace 3' x 4' aluminum window - 2nd floor	50	23.00 Ea.	\$19,811.52	\$23,174.14	1.1000	1	1	\$23,174.14	\$23,174.14
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	3.48 S.F.	\$41.96	\$49.32	55.0000	55	55	\$2,712.45	\$2,712.45
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	27.00 Ea.	\$3,907.89	\$4,660.44	2.7500	2	2	\$9,320.88	\$9,320.88
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	27.00 Ea.	\$13,179.55	\$15,620.15	1.1000	1	1	\$15,620.15	\$15,620.15
Repair smoke detector	10	15.00 Ea.	\$845.81	\$1,045.71	5.5000	5	4	\$5,228.55	\$4,182.84
Check operation smoke detector	1	15.00 Ea.	\$242.91	\$304.34	55.0000	55	55	\$16,738.44	\$16,738.44
Replace smoke detector	15	15.00 Ea.	\$4,263.56	\$5,091.93	3.6667	3	3	\$15,275.79	\$15,275.79
Check and repair manual pull station	10	5.00 Ea.	\$438.48	\$539.15	5.5000	5	4	\$2,695.76	\$2,156.61
Replace manual pull station	15	5.00 Ea.	\$1,017.34	\$1,224.71	3.6667	3	3	\$3,674.12	\$3,674.12
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.71	\$182.27	11.0000	11	11	\$2,005.02	\$2,005.02
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$43.18	\$54.10	110.0000	110	110	\$5,951.45	\$5,951.45
Replace fire alarm control panel	15	1.00 Ea.	\$1,953.46	\$2,391.92	3.6667	3	3	\$7,175.76	\$7,175.76
Replace fire alarm bell, 6"	20	2.00 Ea.	\$389.92	\$470.55	2.7500	2	2	\$941.10	\$941.10
Repair 2'-0" x 3'-0" aluminum window - 2nd floor	20	27.00 Ea.	\$5,165.62	\$6,222.31	2.7500	2	2	\$12,444.62	\$12,444.62
Replace 2'-0" x 3'-0" aluminum window - 2nd floor	50	27.00 Ea.	\$14,437.29	\$17,182.02	1.1000	1	1	\$17,182.02	\$17,182.02
Repair aluminum storefront door	12	1.00 Ea.	\$463.42	\$554.51	4.5833	4	4	\$2,218.06	\$2,218.06
Replace 3'-0" x 7'-0" aluminum storefront doors	50	1.00 Ea.	\$2,045.77	\$2,419.10	1.1000	1	1	\$2,419.10	\$2,419.10
Replace insulating glass - (3% of glass) aluminum storefront door	1	0.63 S.F.	\$32.69	\$38.24	55.0000	55	55	\$2,103.22	\$2,103.22
Repair steel, painted, door	14	4.00 Ea.	\$2,500.30	\$2,976.02	3.9286	3	3	\$8,928.07	\$8,928.07
Refinish 3'-0" x 7'-0" steel, painted, door	4	4.00 Ea.	\$165.60	\$203.46	13.7500	13	13	\$2,645.04	\$2,645.04
Replace 3'-0" x 7'-0" steel, painted, door	45	4.00 Ea.	\$2,820.26	\$3,278.92	1.2222	1	1	\$3,278.92	\$3,278.92
Replace tempered glass - (3% of glass) steel painted door	1	2.52 S.F.	\$56.95	\$68.04	55.0000	55	55	\$3,742.32	\$3,742.32
Debris removal by hand & visual inspection,modified bitum/thermoplstc	1	2.73 M.S.F.	\$102.74	\$125.31	55.0000	55	55	\$6,891.86	\$6,891.86

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Non-destructive moisture inspection, modified bituminous/thermoplastic	5	2.73 M.S.F.	\$318.78	\$388.82	11.0000	11	11	\$4,277.01	\$4,277.01
Minor thermoplastic membrane repairs, 2% of roof area	1	0.55 Sq.	\$176.82	\$210.40	55.0000	55	55	\$11,571.78	\$11,571.78
Flashing repairs, 2 S.F. per sq. repaired, modified bitumen/thermoplastic	1	1.09 S.F.	\$4.20	\$5.03	55.0000	55	55	\$276.46	\$276.46
Membrane replacement-(25% of roof area),modified bitum/thermoplastic	20	14.10 Sq.	\$11,048.29	\$13,193.47	2.7500	2	2	\$26,386.93	\$26,386.93
Total roof replacement, modified bituminous / thermoplastic	25	57.00 Sq.	\$36,122.55	\$42,867.97	2.2000	2	2	\$85,735.93	\$85,735.93
Repair steel painted interior door	14	4.00 Ea.	\$1,173.81	\$1,366.26	3.9286	3	3	\$4,098.77	\$4,098.77
Refinish 3'-0" x 7'-0" steel painted interior door	4	1.00 Ea.	\$52.59	\$64.79	13.7500	13	13	\$842.22	\$842.22
Replace 3'-0" x 7'-0" steel painted interior door	60	1.00 Ea.	\$1,218.03	\$1,412.08	0.9167	0	0	\$0.00	\$0.00
Safety glass replacement, (3% of glass) steel painted interior door	1	0.63 S.F.	\$11.35	\$13.53	55.0000	55	55	\$744.18	\$744.18
Repair hollow core wood door, interior	7	28.00 Ea.	\$8,216.66	\$9,563.79	7.8571	7	7	\$66,946.55	\$66,946.55
Refinish 3'-0" x 7'-0" hollow core wood door, interior	4	28.00 Ea.	\$1,214.21	\$1,490.99	13.7500	13	13	\$19,382.88	\$19,382.88
Replace 3'-0" x 7'-0" hollow core wood door, interior	30	28.00 Ea.	\$8,455.65	\$9,965.02	1.8333	1	1	\$9,965.02	\$9,965.02
Repair solid core wood door, interior	11	37.00 Ea.	\$10,857.73	\$12,637.87	5.0000	5	5	\$63,189.34	\$63,189.34
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	37.00 Ea.	\$1,604.50	\$1,970.24	13.7500	13	12	\$25,613.09	\$23,642.85
Replace 3'-0" x 7'-0" solid core wood door, interior	40	37.00 Ea.	\$18,108.81	\$20,934.98	1.3750	1	1	\$20,934.98	\$20,934.98
Repair concrete steps	15	83.00 S.F.	\$1,896.56	\$2,195.41	3.6667	3	3	\$6,586.22	\$6,586.22
Replace concrete steps	100	83.00 S.F.	\$4,437.08	\$5,410.95	0.5500	0	0	\$0.00	\$0.00
Replace metal stair railing, interior	45	53.00 L.F.	\$2,276.65	\$2,664.83	1.2222	1	1	\$2,664.83	\$2,664.83
Repair fabric wall finish fabric interior	9	207.22 S.Y.	\$6,294.56	\$7,549.04	6.1111	6	6	\$45,294.23	\$45,294.23
Replace fabric wall finish fabric interior	50	207.22 S.Y.	\$30,461.83	\$37,601.51	1.1000	1	1	\$37,601.51	\$37,601.51
Repair 5/8" drywall - (2% of walls)	20	513.68 S.F.	\$860.59	\$1,047.13	2.7500	2	2	\$2,094.26	\$2,094.26
Refinish drywall	4	15.00 S.F.	\$9.31	\$11.46	13.7500	13	13	\$148.96	\$148.96
Replace 5/8" drywall	75	15.00 S.F.	\$34.96	\$42.78	0.7333	0	0	\$0.00	\$0.00
Refinish concrete floor finished	25	4.58 C.S.F.	\$1,931.97	\$2,320.60	2.2000	2	2	\$4,641.19	\$4,641.19
Replace vinyl tile flooring	18	90.00 S.Y.	\$4,446.31	\$5,460.30	3.0556	3	3	\$16,380.91	\$16,380.91
Ceramic tile floor repairs - (2% of floors)	15	5.20 C.S.F.	\$3,290.61	\$4,102.83	3.6667	3	3	\$12,308.49	\$12,308.49
Replace 2" x 2" thin set ceramic tile floor	50	2.62 C.S.F.	\$3,205.94	\$3,869.98	1.1000	1	1	\$3,869.98	\$3,869.98
Terrazzo floor repairs - (2% of floors)	15	8.84 S.F.	\$143.78	\$172.17	3.6667	3	3	\$516.50	\$516.50
Replace terrazzo floor	75	4.42 C.S.F.	\$6,877.73	\$8,212.41	0.7333	0	0	\$0.00	\$0.00
Replace carpet	8	489.00 S.Y.	\$26,902.99	\$31,069.55	6.8750	6	6	\$186,417.27	\$186,417.27
Repair gypsum board ceiling - (2% of ceilings)	20	0.71 C.S.F.	\$258.23	\$317.02	2.7500	2	2	\$634.03	\$634.03
Refinish gypsum board ceiling, up to 12' high	20	35.67 C.S.F.	\$4,604.79	\$5,692.34	2.7500	2	1	\$11,384.68	\$5,692.34

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Replace gypsum board ceiling, up to 12' high	40	35.67 C.S.F.	\$13,244.26	\$16,263.89	1.3750	1	1	\$16,263.89	\$16,263.89
Replace acoustic tile ceiling, fire-rated	20	29.78 C.S.F.	\$15,611.53	\$18,400.65	2.7500	2	2	\$36,801.30	\$36,801.30
Replace flush valve diaphragm tankless water closet	10	9.00 Ea.	\$235.98	\$292.82	5.5000	5	5	\$1,464.11	\$1,464.11
Rebuild flush valve tankless water closet	20	9.00 Ea.	\$1,623.90	\$1,957.11	2.7500	2	2	\$3,914.23	\$3,914.23
Replace tankless water closet	35	9.00 Ea.	\$11,575.99	\$13,396.46	1.5714	1	1	\$13,396.46	\$13,396.46
Replace tankless flush valve	25	9.00 Ea.	\$2,269.94	\$2,664.99	2.2000	2	2	\$5,329.99	\$5,329.99
Replace wax ring gasket for tankless water closet	5	9.00 Ea.	\$1,273.67	\$1,591.44	11.0000	11	11	\$17,505.82	\$17,505.82
Replace flush valve diaphragm for a urinal	7	4.00 Ea.	\$104.88	\$130.14	7.8571	7	7	\$911.00	\$911.00
Rebuild flush valve for a urinal	20	4.00 Ea.	\$721.74	\$869.83	2.7500	2	2	\$1,739.66	\$1,739.66
Unplug line urinal	5	4.00 Ea.	\$580.29	\$725.71	11.0000	11	11	\$7,982.83	\$7,982.83
Replace wall-hung urinal	35	4.00 Ea.	\$3,875.45	\$4,676.42	1.5714	1	1	\$4,676.42	\$4,676.42
Replace washer in spud connection lavatory, vitreous china	7	9.00 Ea.	\$148.16	\$180.72	7.8571	7	7	\$1,265.04	\$1,265.04
Replace washer in faucet lavatory, vitreous china	2	9.00 Ea.	\$115.96	\$144.47	27.5000	27	27	\$3,900.59	\$3,900.59
Replace faucets lavatory, vitreous china	10	9.00 Ea.	\$1,635.53	\$1,968.80	5.5000	5	5	\$9,843.99	\$9,843.99
Clean out strainer and P trap lavatory, vitreous china	2	9.00 Ea.	\$313.82	\$392.47	27.5000	27	27	\$10,596.72	\$10,596.72
Replace lavatory, vitreous china	35	9.00 Ea.	\$6,053.17	\$7,273.99	1.5714	1	1	\$7,273.99	\$7,273.99
Replace faucet washer sink, iron enamel	2	1.00 Ea.	\$12.78	\$15.92	27.5000	27	27	\$429.73	\$429.73
Clean trap sink, iron enamel	3	1.00 Ea.	\$8.57	\$10.72	18.3333	18	18	\$192.93	\$192.93
Replace faucets sink, iron enamel	10	1.00 Ea.	\$181.73	\$218.76	5.5000	5	5	\$1,093.78	\$1,093.78
Unstop sink, iron enamel	2	1.00 Ea.	\$41.82	\$52.30	27.5000	27	27	\$1,412.16	\$1,412.16
Replace sink, P.E.C.I. sink, iron enamel kitchen	35	1.00 Ea.	\$636.70	\$757.51	1.5714	1	1	\$757.51	\$757.51
Inspect / clean shower head fiberglass	3	4.00 Ea.	\$197.57	\$247.08	18.3333	18	18	\$4,447.52	\$4,447.52
Replace mixing valve barrel shower, fiberglass	2	4.00 Ea.	\$1,130.36	\$1,329.28	27.5000	27	27	\$35,890.49	\$35,890.49
Replace mixing valve shower, fiberglass	10	4.00 Ea.	\$1,103.53	\$1,342.22	5.5000	5	5	\$6,711.10	\$6,711.10
Replace shower and fittings, fiberglass	20	4.00 Ea.	\$3,866.55	\$4,624.64	2.7500	2	2	\$9,249.28	\$9,249.28
Check / minor repairs drinking fountain	1	1.00 Ea.	\$48.88	\$61.13	55.0000	55	55	\$3,362.29	\$3,362.29
Repair internal leaks drinking fountain	4	1.00 Ea.	\$45.08	\$56.38	13.7500	13	13	\$732.91	\$732.91
Correct water pressure drinking fountain	2	1.00 Ea.	\$41.82	\$52.30	27.5000	27	27	\$1,412.16	\$1,412.16
Replace refrigerant drinking fountain	2	1.00 Ea.	\$32.68	\$38.27	27.5000	27	27	\$1,033.27	\$1,033.27
Repair drain leak drinking fountain	4	1.00 Ea.	\$33.92	\$40.53	13.7500	13	11	\$526.95	\$445.88
Replace fountain drinking fountain	10	1.00 Ea.	\$1,281.16	\$1,514.56	5.5000	5	5	\$7,572.79	\$7,572.79
Resolder joint pipe & fittings, copper	10	2.00 Ea.	\$89.19	\$110.56	5.5000	5	5	\$552.79	\$552.79
Replace pipe and fittings, copper 3/4"	20	16.00 L.F.	\$416.86	\$502.12	2.7500	2	2	\$1,004.24	\$1,004.24
Replace pipe and fittings, copper 2"	25	16.00 L.F.	\$983.75	\$1,170.32	2.2000	2	2	\$2,340.64	\$2,340.64

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Remove old insulation & replace with new, pipe 3/4", wall 1"	15	16.00 L.F.	\$133.73	\$165.15	3.6667	3	3	\$495.46	\$495.46
Overhaul water heater, gas / oil, 70 gallon	5	1.00 Ea.	\$163.70	\$204.73	11.0000	11	11	\$2,251.99	\$2,251.99
Clean & service water heater, gas / oil, 70 gallon	1	1.00 Ea.	\$196.62	\$245.89	55.0000	55	55	\$13,523.89	\$13,523.89
Replace water heater, gas / oil, 70 gallon	12	1.00 Ea.	\$3,315.17	\$3,847.40	4.5833	4	4	\$15,389.62	\$15,389.62
Inspect / check pump / motor operation, lubricate circulation pump, 1/12 HP	0.5	1.00 Ea.	\$8.03	\$10.04	110.0000	110	110	\$1,104.33	\$1,104.33
Replace pump / motor assembly circulation pump, 1/12 HP	10	1.00 Ea.	\$1,100.58	\$1,290.00	5.5000	5	5	\$6,449.98	\$6,449.98
Unclog main drain pipe & fittings, cast iron	10	1.00 Ea.	\$46.17	\$57.74	5.5000	5	5	\$288.68	\$288.68
Replace pipe & fittings, cast iron, 4"	40	16.00 L.F.	\$1,071.15	\$1,285.72	1.3750	1	1	\$1,285.72	\$1,285.72
Unclog floor drain, PVC	20	1.00 Ea.	\$47.80	\$59.77	2.7500	2	2	\$119.55	\$119.55
Repair joint pipe and fittings, PVC	10	1.00 Ea.	\$151.29	\$188.00	5.5000	5	5	\$940.00	\$940.00
Replace pipe, 4" pipe and fittings, PVC	30	16.00 L.F.	\$1,305.42	\$1,606.15	1.8333	1	1	\$1,606.15	\$1,606.15
General maintenance & repair drain: roof, scupper, area	1	1.00 Ea.	\$36.99	\$46.26	55.0000	55	55	\$2,544.13	\$2,544.13
Replace drain: roof, scupper, area	40	1.00 Ea.	\$786.93	\$912.36	1.3750	1	1	\$912.36	\$912.36
Install new 4" gasket, 1 per M.L.F. natural gas, steel/iron	30	1.00 Ea.	\$210.95	\$261.69	1.8333	1	1	\$261.69	\$261.69
Replace 10' of buried 4" diam steel pipe/M.L.F. natural gas	12	1.00 Ea.	\$930.64	\$1,130.78	4.5833	4	4	\$4,523.14	\$4,523.14
Repair fan coil unit, 1 ton	10	6.00 Ea.	\$2,310.16	\$2,778.57	5.5000	5	4	\$13,892.85	\$11,114.28
Replace fan coil unit, 1 ton	15	6.00 Ea.	\$7,323.64	\$8,560.59	3.6667	3	3	\$25,681.76	\$25,681.76
Replace fan & motor, propeller exhaust, 4700 CFM exhaust fan	15	1.00 Ea.	\$2,039.86	\$2,375.64	3.6667	3	3	\$7,126.93	\$7,126.93
Repair single zone rooftop unit, 25 ton	10	2.00 Ea.	\$94,794.84	\$109,247.10	5.5000	5	4	\$546,235.50	\$436,988.40
Replace single zone rooftop unit, 25 ton	15	2.00 Ea.	\$102,686.34	\$119,171.04	3.6667	3	3	\$357,513.12	\$357,513.12
Inspect sprinkler system	1	1.00 Ea.	\$34.33	\$42.93	55.0000	55	55	\$2,361.08	\$2,361.08
Replace sprinkler head	20	53.00 Ea.	\$4,532.71	\$5,575.04	2.7500	2	2	\$11,150.09	\$11,150.09
Rebuild double check 3" backflow preventer sprinkler system	1	1.00 Ea.	\$710.41	\$851.09	55.0000	55	55	\$46,810.15	\$46,810.15
Maintenance and inspection lighting panel, indoor	3	3.00 Ea.	\$121.93	\$152.76	18.3333	18	18	\$2,749.76	\$2,749.76
Repair failed breaker, molded case, 600 V, 3 pole	10	2.00 Ea.	\$744.14	\$885.26	5.5000	5	5	\$4,426.31	\$4,426.31
Maintenance and inspection circuit breaker, molded case, 600 V, 3 pole	0.33	2.00 Ea.	\$64.78	\$81.16	166.6667	166	166	\$13,471.91	\$13,471.91
Replace circuit breaker molded case, 600 V, 3 pole circuit breaker	50	6.00 Ea.	\$31,133.55	\$35,636.94	1.1000	1	1	\$35,636.94	\$35,636.94
Maintenance and repair receptacles and plugs	20	297.00 Ea.	\$12,546.30	\$15,663.37	2.7500	2	2	\$31,326.73	\$31,326.73
Replace receptacle/plug receptacles and plugs	20	297.00 Ea.	\$21,370.80	\$26,342.90	2.7500	2	2	\$52,685.81	\$52,685.81
Maintenance and repair wiring devices, switches	10	119.00 Ea.	\$5,026.97	\$6,275.89	5.5000	5	5	\$31,379.47	\$31,379.47
Replace wiring devices, switches	15	119.00 Ea.	\$7,779.96	\$9,665.41	3.6667	3	3	\$28,996.22	\$28,996.22
Replace fluorescent light fixture ballast, 80 W	10	77.00 Ea.	\$9,599.47	\$11,645.27	5.5000	5	5	\$58,226.34	\$58,226.34

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Replace lamps (2 lamps), 4', 34 W energy saver	10	77.00 Ea.	\$1,941.48	\$2,431.58	5.5000	5	5	\$12,157.89	\$12,157.89	
			\$723,654.63	\$857,240.15				MR Subtotal	\$2,395,553.23	
									MR Per Year	\$43,555.51
									PM Total	\$8,762.47
									Subtotal	\$52,317.98
									Total Per Unit	\$4.62

FAC 1446 SECURITY FORCE BUILDING

Release 2021 Qtr 3

Zip Code Prefix 222

Type PM

UM SF

Design Life 55

Average Size 11325.0

SUC \$4.62

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	12.00	3.12	\$175.10	\$128.99	\$0.00	\$304.10	\$360.31	\$425.27
Fire doors, swinging, annualized	29.00	11.37	\$415.32	\$422.17	\$0.00	\$837.48	\$1,005.67	\$1,194.61
Urinals, annualized	4.00	0.91	\$25.27	\$45.81	\$0.00	\$71.09	\$87.36	\$104.89
Toilet (vacuum breaker type), annualized	9.00	1.59	\$75.98	\$80.08	\$0.00	\$156.06	\$187.68	\$223.10
Lavatories, annualized	9.00	3.13	\$53.68	\$186.33	\$0.00	\$240.02	\$301.28	\$365.24
Showers, annualized	4.00	0.91	\$51.56	\$54.45	\$0.00	\$106.01	\$127.50	\$151.56
Drink fountain, annualized	1.00	0.62	\$20.73	\$31.28	\$0.00	\$52.00	\$63.46	\$75.95
Fan coil unit, annualized	3.00	10.01	\$339.70	\$504.81	\$0.00	\$844.51	\$1,029.92	\$1,232.32
VAV Boxes, annualized	8.00	7.47	\$76.84	\$451.07	\$0.00	\$527.91	\$670.91	\$817.76
Fan, axial, up to 5,000 CFM, annualized	2.00	2.49	\$23.46	\$125.10	\$0.00	\$148.56	\$188.43	\$229.48
Package unit, air cooled, 3 thru 24 ton, annualized	2.00	4.79	\$353.85	\$288.97	\$0.00	\$642.82	\$764.89	\$904.66
Backflow prevention device, up to 4", annualized	1.00	0.33	\$13.40	\$19.82	\$0.00	\$33.22	\$40.50	\$48.46
Extinguishing system, wet pipe, annualized	1.00	11.34	\$68.24	\$678.37	\$0.00	\$746.61	\$956.95	\$1,170.70
Circuit breaker, high voltage air, annualized	1.00	0.47	\$15.16	\$31.08	\$0.00	\$46.24	\$57.08	\$68.67
Panelboard, 225 A and above, annualized	2.00	0.88	\$46.39	\$58.02	\$0.00	\$104.41	\$126.46	\$150.82
Water heater, gas, to 120 gal., annualized	2.00	3.44	\$117.28	\$173.56	\$0.00	\$290.83	\$354.63	\$424.29
Light, emergency, hardwired system, annually	4.00	0.50	\$23.51	\$29.63	\$0.00	\$53.14	\$64.38	\$76.79
Security, intrusion alarm system, annualized	1.00	3.83	\$162.90	\$226.88	\$0.00	\$389.78	\$474.14	\$566.64
Uninterrupted power system, up to 200 KVA, annually	1.00	3.01	\$196.92	\$178.19	\$0.00	\$375.11	\$448.26	\$531.26
						\$5,969.88	\$7,309.80	\$8,762.47

FAC 1446 SECURITY FORCE BUILDING

Modeled Component List

CostWorks Release 2021 Qtr 3

B20 Exterior Enclosure

Aluminum Window, Operating, 1st floor	12.0 Ea.
Aluminum Window, Operating, 2nd floor	23.0 Ea.
Aluminum Window, Fixed, 1st floor	27.0 Ea.
Aluminum Window, Fixed, 2nd floor	27.0 Ea.
Glazed Aluminum	1.0 Ea.
Steel, Painted	4.0 Ea.

D50 Electrical

Smoke Detector	15.0 Ea.
Manual Pull Station	5.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Fire Alarm Bell	2.0 Ea.
Load Center, 100 A, maintenance & inspection	3.0 Ea.
Circuit Breaker, molded case, 600 V, 3 pole	6.0 Ea.

B30 Roofing

Modified Bituminous / Thermoplastic	57.0 Sq.
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C10 Interior Construction

Steel Painted Interior Doors	1.0 Ea.
Hollow Core Interior Doors	28.0 Ea.
Solid Core Interior Doors	37.0 Ea.
Fire Doors, Swinging, annualized	29.0 Each

C20 Stairs

Concrete Steps	83.0 S.F.
Metal Interior Stair Railing	53.0 L.F.

C30 Interior Finishes

Fabric Interior Wall Finish	207.22 S.Y.
Drywall	15.0 S.F.
Concrete, Finished	4.58 C.S.F.
Vinyl	90.0 S.Y.
Terrazzo	4.42 C.S.F.
Carpet	489.0 S.Y.
Gypsum Wall Board	35.67 C.S.F.
Acoustic Tile, fire-rated	29.78 C.S.F.

D20 Plumbing

Tankless Water Closet	9.0 Ea.
Urinal	4.0 Ea.
Lavatory, Vitreous China	9.0 Ea.
Sink, Iron Enamel	1.0 Ea.
Shower, Fiberglass	4.0 Ea.
Drinking Fountain	1.0 Ea.
Water Heater, Gas / Oil, 70 Gallon	1.0 Ea.
Circulation Pump, 1/12 HP	1.0 Ea.
Drain: Roof, Scupper, Area	1.0 Ea.

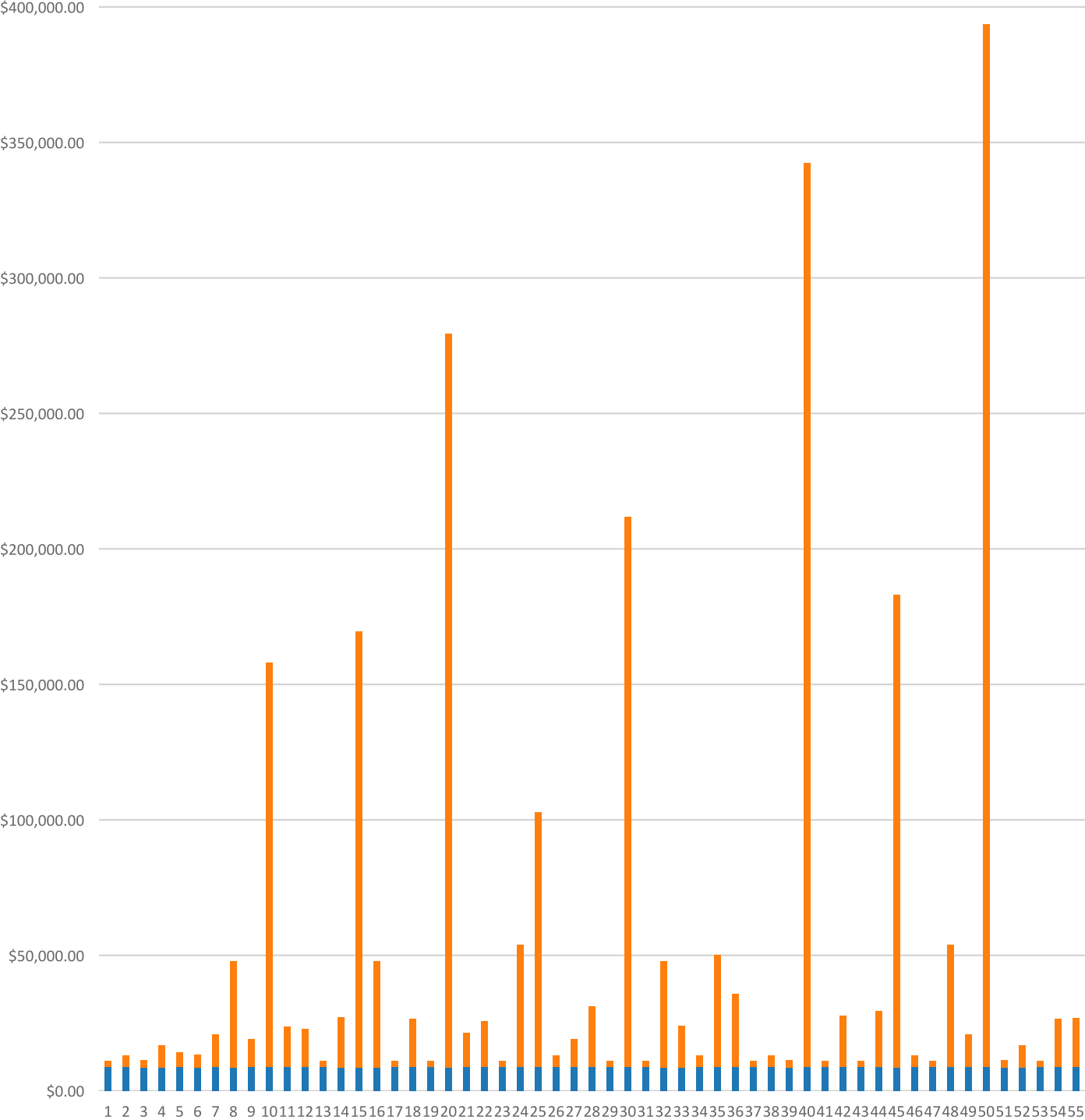
D30 HVAC

Fan Coil, 1 ton	6.0 Ea.
Exhaust Fan, propeller exh., 4700 CFM	1.0 Ea.
Single Zone Air Conditioner, 25 ton	2.0 Ea.
VAV Box	8.0 Each

D40 Fire Protection

Sprinkler System, Fire Suppression, sprinkler head	53.0 Ea.
Sprinkler System, Fire Suppression, 3" backflow preventer	1.0 Ea.

FAC 1446 SECURITY FORCE BUILDING
Sustainment by Year
CostWorks Release 2021 Qtr 3



PM Cost
MR Cost