

**FAC 7415 BOWLING CENTER**

FY24 SUC: \$4.95 / SF  
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 7415 BOWLING CENTER

Release 2023 Qtr 4  
Zip Code Prefix 222  
Type MR

UM SF  
Design Life 40  
Average Size 17714.0

SUC \$4.95

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
Point and refinish painted concrete block wall, 1st floor	25	68.20 C.S.F.	\$35,254.60	\$43,451.08	1.6000	1	1	\$43,451.08	\$43,451.08
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	2.88 S.F.	\$37.87	\$44.47	40.0000	40	40	\$1,778.75	\$1,778.75
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	28.00 Ea.	\$4,376.77	\$5,215.60	2.0000	2	2	\$10,431.20	\$10,431.20
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	28.00 Ea.	\$18,971.13	\$22,268.48	0.8000	0	0	\$0.00	\$0.00
Repair aluminum storefront door	12	2.00 Ea.	\$1,020.45	\$1,219.37	3.3333	3	3	\$3,658.11	\$3,658.11
Replace 3'-0" x 7'-0" aluminum storefront doors	50	2.00 Ea.	\$4,818.39	\$5,676.62	0.8000	0	0	\$0.00	\$0.00
Replace insulating glass - (3% of glass) aluminum storefront door	1	1.89 S.F.	\$105.06	\$122.86	40.0000	40	40	\$4,914.27	\$4,914.27
Repair steel, painted, door	14	3.00 Ea.	\$2,107.00	\$2,502.58	2.8571	2	2	\$5,005.16	\$5,005.16
Refinish 3'-0" x 7'-0" steel, painted, door	4	3.00 Ea.	\$138.16	\$169.19	10.0000	10	10	\$1,691.89	\$1,691.89
Replace 3'-0" x 7'-0" steel, painted, door	45	3.00 Ea.	\$2,751.33	\$3,185.78	0.8889	0	0	\$0.00	\$0.00
Replace tempered glass - (3% of glass) steel painted door	1	1.26 S.F.	\$39.99	\$47.20	40.0000	40	40	\$1,888.17	\$1,888.17
Repair 12' x 12' steel roll-up door	10	1.00 Ea.	\$701.12	\$833.22	4.0000	4	4	\$3,332.89	\$3,332.89
Refinish 12' x 12' steel roll-up door	5	1.00 Ea.	\$230.37	\$280.95	8.0000	8	8	\$2,247.60	\$2,247.60
Replace 12' x 12' steel roll-up door	35	1.00 Ea.	\$2,804.46	\$3,332.89	1.1429	1	1	\$3,332.89	\$3,332.89
Debris removal and visual inspection of built-up roofing	0.5	17.70 M.S.F.	\$717.21	\$874.79	80.0000	80	80	\$69,983.03	\$69,983.03
Non-destructive moisture inspection of built-up roofing	5	17.70 M.S.F.	\$2,234.59	\$2,725.53	8.0000	8	8	\$21,804.25	\$21,804.25
Minor BUR membrane repairs, 2% of roof area	1	3.54 Sq.	\$1,883.31	\$2,233.04	40.0000	40	40	\$89,321.47	\$89,321.47
BUR flashing repairs, 2 S.F. per sq. repaired	1	86.00 S.F.	\$325.68	\$395.56	40.0000	40	40	\$15,822.47	\$15,822.47
Minor BUR membrane replacement, 25% of roof area	15	43.00 Sq.	\$39,348.26	\$46,598.25	2.6667	2	2	\$93,196.50	\$93,196.50
Total BUR roof replacement	28	172.00 Sq.	\$150,534.51	\$177,732.49	1.4286	1	1	\$177,732.49	\$177,732.49
Repair solid core wood door, interior	11	7.00 Ea.	\$1,952.92	\$2,279.78	3.6364	3	3	\$6,839.33	\$6,839.33
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	7.00 Ea.	\$308.10	\$379.66	10.0000	10	9	\$3,796.64	\$3,416.98
Replace 3'-0" x 7'-0" solid core wood door, interior	40	7.00 Ea.	\$3,965.85	\$4,578.68	1.0000	1	1	\$4,578.68	\$4,578.68
Repair acoustical tile - (2% of walls)	25	0.24 C.S.F.	\$204.10	\$236.28	1.6000	1	1	\$236.28	\$236.28
Refinish acoustical tile	10	11.89 C.S.F.	\$2,079.44	\$2,534.47	4.0000	4	4	\$10,137.87	\$10,137.87
Replace acoustical tile	60	11.89 C.S.F.	\$11,101.34	\$12,924.56	0.6667	0	0	\$0.00	\$0.00
Repair 5/8" drywall - (2% of walls)	20	133.20 S.F.	\$222.57	\$271.99	2.0000	2	2	\$543.99	\$543.99
Refinish drywall	4	6,660.00 S.F.	\$4,513.08	\$5,544.31	10.0000	10	10	\$55,443.08	\$55,443.08
Replace 5/8" drywall	75	6,660.00 S.F.	\$15,736.36	\$19,324.48	0.5333	0	0	\$0.00	\$0.00
Refinish concrete floor finished	25	18.60 C.S.F.	\$7,748.34	\$9,348.71	1.6000	1	1	\$9,348.71	\$9,348.71
Replace rubber tile floor	18	196.00 S.Y.	\$19,582.60	\$24,028.30	2.2222	2	2	\$48,056.59	\$48,056.59
Sand and refinish maple strip floor	10	5,314.00 S.F.	\$15,414.96	\$18,862.66	4.0000	4	4	\$75,450.65	\$75,450.65

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace maple floor	40	5,314.00 S.F.	\$68,216.35	\$80,182.06	1.0000	1	1	\$80,182.06	\$80,182.06
Replace carpet	8	298.00 S.Y.	\$16,090.98	\$18,607.86	5.0000	5	5	\$93,039.29	\$93,039.29
Replace acoustic tile ceiling, fire-rated	20	170.00 C.S.F.	\$88,557.75	\$104,668.54	2.0000	2	2	\$209,337.08	\$209,337.08
Replace flush valve diaphragm tankless water closet	10	8.00 Ea.	\$218.11	\$270.85	4.0000	4	4	\$1,083.39	\$1,083.39
Rebuild flush valve tankless water closet	20	8.00 Ea.	\$1,535.05	\$1,850.15	2.0000	2	2	\$3,700.30	\$3,700.30
Unplug clogged line tankless water closet	5	8.00 Ea.	\$1,839.43	\$2,302.65	8.0000	8	8	\$18,421.23	\$18,421.23
Replace tankless water closet	35	8.00 Ea.	\$11,332.44	\$13,106.57	1.1429	1	1	\$13,106.57	\$13,106.57
Replace tankless flush valve	25	8.00 Ea.	\$2,161.94	\$2,537.74	1.6000	1	1	\$2,537.74	\$2,537.74
Replace wax ring gasket for tankless water closet	5	8.00 Ea.	\$1,193.32	\$1,492.43	8.0000	8	8	\$11,939.42	\$11,939.42
Replace flush valve diaphragm for a urinal	7	4.00 Ea.	\$109.06	\$135.42	5.7143	5	5	\$677.12	\$677.12
Rebuild flush valve for a urinal	20	4.00 Ea.	\$767.52	\$925.08	2.0000	2	2	\$1,850.15	\$1,850.15
Unplug line urinal	5	4.00 Ea.	\$610.57	\$764.33	8.0000	8	8	\$6,114.61	\$6,114.61
Replace wall-hung urinal	35	4.00 Ea.	\$4,350.08	\$5,232.19	1.1429	1	1	\$5,232.19	\$5,232.19
Replace washer in spud connection lavatory, vitreous china	7	12.00 Ea.	\$207.86	\$253.69	5.7143	5	5	\$1,268.45	\$1,268.45
Replace washer in faucet lavatory, vitreous china	2	12.00 Ea.	\$162.81	\$203.01	20.0000	20	20	\$4,060.13	\$4,060.13
Replace faucets lavatory, vitreous china	10	12.00 Ea.	\$2,345.66	\$2,821.46	4.0000	4	4	\$11,285.83	\$11,285.83
Clean out strainer and P trap lavatory, vitreous china	2	12.00 Ea.	\$441.82	\$553.09	20.0000	20	20	\$11,061.77	\$11,061.77
Replace lavatory, vitreous china	35	12.00 Ea.	\$8,624.67	\$10,360.87	1.1429	1	1	\$10,360.87	\$10,360.87
Replace faucet washer sink, iron enamel	2	12.00 Ea.	\$161.39	\$201.23	20.0000	20	20	\$4,024.65	\$4,024.65
Clean trap sink, iron enamel	3	2.00 Ea.	\$18.01	\$22.55	13.3333	13	13	\$293.13	\$293.13
Replace faucets sink, iron enamel	10	2.00 Ea.	\$390.94	\$470.24	4.0000	4	4	\$1,880.97	\$1,880.97
Unstop sink, iron enamel	2	2.00 Ea.	\$88.02	\$110.19	20.0000	20	20	\$2,203.75	\$2,203.75
Replace sink, P.E.C.I. sink, iron enamel kitchen	10	2.00 Ea.	\$2,416.86	\$2,818.55	4.0000	4	4	\$11,274.21	\$11,274.21
Replace faucet washer sink, stainless steel	2	1.00 Ea.	\$13.45	\$16.77	20.0000	20	20	\$335.39	\$335.39
Clean trap sink, stainless steel	3	1.00 Ea.	\$9.01	\$11.27	13.3333	13	13	\$146.56	\$146.56
Replace faucets sink, stainless steel	10	1.00 Ea.	\$195.47	\$235.12	4.0000	4	4	\$940.49	\$940.49
Unstop sink, stainless steel	2	1.00 Ea.	\$44.01	\$55.09	20.0000	20	20	\$1,101.88	\$1,101.88
Replace sink, stainless steel	40	1.00 Ea.	\$1,211.87	\$1,420.01	1.0000	1	1	\$1,420.01	\$1,420.01
Check / minor repairs drinking fountain	1	1.00 Ea.	\$51.52	\$64.50	40.0000	40	40	\$2,580.00	\$2,580.00
Repair internal leaks drinking fountain	4	1.00 Ea.	\$47.77	\$59.80	10.0000	10	10	\$597.97	\$597.97
Correct water pressure drinking fountain	2	1.00 Ea.	\$44.01	\$55.09	20.0000	20	20	\$1,101.88	\$1,101.88
Replace refrigerant drinking fountain	2	1.00 Ea.	\$35.41	\$41.43	20.0000	20	20	\$828.59	\$828.59
Repair drain leak drinking fountain	4	1.00 Ea.	\$29.10	\$35.19	10.0000	10	8	\$351.89	\$281.51
Replace fountain drinking fountain	10	1.00 Ea.	\$1,620.81	\$1,904.30	4.0000	4	4	\$7,617.20	\$7,617.20
Remove old insulation & replace with new, pipe 3/4", wall 1"	15	16.00 L.F.	\$157.93	\$193.51	2.6667	2	2	\$387.02	\$387.02

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Remove old insulation & replace with new, pipe 1-1/2", wall 1"	15	16.00 L.F.	\$180.41	\$220.05	2.6667	2	2	\$440.09	\$440.09
Overhaul water heater, gas / oil, 30 gallon	5	1.00 Ea.	\$123.53	\$154.64	8.0000	8	8	\$1,237.11	\$1,237.11
Clean and service water heater, gas / oil, 30 gallon	1	1.00 Ea.	\$206.10	\$258.00	40.0000	40	40	\$10,320.02	\$10,320.02
Replace water heater, gas / oil, 30 gallon	10	1.00 Ea.	\$2,957.73	\$3,432.65	4.0000	4	4	\$13,730.60	\$13,730.60
Unclog floor drain, PVC	20	1.00 Ea.	\$50.45	\$63.16	2.0000	2	2	\$126.31	\$126.31
Repair joint pipe and fittings, PVC	10	1.00 Ea.	\$168.16	\$208.23	4.0000	4	4	\$832.91	\$832.91
Replace pipe, 4" pipe and fittings, PVC	30	16.00 L.F.	\$1,327.08	\$1,638.04	1.3333	1	1	\$1,638.04	\$1,638.04
General maintenance & repair drain: roof, scupper, area	1	2.00 Ea.	\$78.36	\$98.09	40.0000	40	40	\$3,923.76	\$3,923.76
Replace drain: roof, scupper, area	40	2.00 Ea.	\$2,260.75	\$2,607.70	1.0000	1	1	\$2,607.70	\$2,607.70
Repair boiler, gas, 2000 MBH	7	1.00 Ea.	\$5,734.80	\$6,685.15	5.7143	5	5	\$33,425.73	\$33,425.73
Replace boiler, gas, 2000 MBH	30	1.00 Ea.	\$40,588.94	\$47,558.43	1.3333	1	1	\$47,558.43	\$47,558.43
Repair reciprocating chiller, air cooled, 50 ton	10	1.00 Ea.	\$65,382.68	\$76,404.48	4.0000	4	4	\$305,617.92	\$305,617.92
Replace chiller, air cooled, 50 ton	20	1.00 Ea.	\$68,387.09	\$79,593.44	2.0000	2	2	\$159,186.87	\$159,186.87
Replace fan & motor, propeller exhaust, 4700 CFM exhaust fan	15	1.00 Ea.	\$2,240.66	\$2,607.59	2.6667	2	2	\$5,215.17	\$5,215.17
Repair circulator pump, 1/12 - 3/4 H.P.	5	1.00 Ea.	\$103.47	\$122.05	8.0000	8	6	\$976.41	\$732.31
Replace circulator pump, 1/12 - 3/4 H.P.	15	1.00 Ea.	\$3,796.05	\$4,376.03	2.6667	2	2	\$8,752.06	\$8,752.06
Repair terminal reheat, 12" x 24" coil	10	4.00 Ea.	\$373.55	\$467.63	4.0000	4	3	\$1,870.50	\$1,402.88
Replace terminal reheat, 12" x 24" coil	15	4.00 Ea.	\$7,957.15	\$9,125.50	2.6667	2	2	\$18,251.00	\$18,251.00
Repair central station A.H.U., 16,000 CFM	10	1.00 Ea.	\$2,244.53	\$2,591.25	4.0000	4	3	\$10,365.00	\$7,773.75
Replace central station A.H.U., 16,000 CFM	15	1.00 Ea.	\$74,641.96	\$85,855.33	2.6667	2	2	\$171,710.66	\$171,710.66
Inspect sprinkler system	1	1.00 Ea.	\$36.17	\$45.28	40.0000	40	40	\$1,811.38	\$1,811.38
Replace sprinkler head	20	35.00 Ea.	\$3,067.67	\$3,785.32	2.0000	2	2	\$7,570.63	\$7,570.63
Rebuild double check 3" backflow preventer sprinkler system	1	1.00 Ea.	\$748.17	\$896.73	40.0000	40	40	\$35,869.16	\$35,869.16
Replace fire pump / electric motor assembly 100 H.P.	25	2.00 Ea.	\$96,023.93	\$110,702.65	1.6000	1	1	\$110,702.65	\$110,702.65
Maintenance and inspection lighting panel, indoor	3	6.00 Ea.	\$254.07	\$318.31	13.3333	13	13	\$4,137.99	\$4,137.99
Replace load center, 100 A	20	4.00 Ea.	\$4,724.12	\$5,762.14	2.0000	2	2	\$11,524.28	\$11,524.28
Maintenance and repair breaker, molded case, 480 V, 1 pole	20	15.00 Ea.	\$1,137.61	\$1,425.25	2.0000	2	2	\$2,850.51	\$2,850.51
Maintenance and inspection circuit breaker, molded case, 480 V, 1 pole	0.5	15.00 Ea.	\$511.92	\$641.36	80.0000	80	80	\$51,309.16	\$51,309.16
Replace circuit breaker molded case, 480 V, 1 pole circuit breaker	50	15.00 Ea.	\$11,826.39	\$13,686.19	0.8000	0	0	\$0.00	\$0.00
Maintenance and repair breaker, molded case, 480 V, 2 pole	20	13.00 Ea.	\$985.92	\$1,235.22	2.0000	2	2	\$2,470.44	\$2,470.44
Maintenance and inspection circuit breaker, molded case, 480 V, 2 pole	0.5	13.00 Ea.	\$443.67	\$555.85	80.0000	80	80	\$44,467.94	\$44,467.94
Replace circuit breaker molded case, 480 V, 2 pole circuit breaker	50	13.00 Ea.	\$14,326.22	\$16,572.44	0.8000	0	0	\$0.00	\$0.00

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Maintenance and repair receptacles and plugs	20	48.00 Ea.	\$2,114.07	\$2,639.13	2.0000	2	2	\$5,278.26	\$5,278.26
Replace receptacle/plug receptacles and plugs	20	48.00 Ea.	\$3,591.87	\$4,428.84	2.0000	2	2	\$8,857.68	\$8,857.68
Maintenance and repair wiring devices, switches	10	12.00 Ea.	\$528.52	\$659.78	4.0000	4	4	\$2,639.13	\$2,639.13
Replace wiring devices, switches	15	12.00 Ea.	\$800.17	\$996.08	2.6667	2	2	\$1,992.16	\$1,992.16
Replace fluorescent light fixture ballast, 80 W	10	78.00 Ea.	\$8,159.28	\$10,061.28	4.0000	4	4	\$40,245.13	\$40,245.13
Replace lamps (2 lamps), 4', 34 W energy saver	10	78.00 Ea.	\$2,065.88	\$2,587.18	4.0000	4	4	\$10,348.71	\$10,348.71
Repair smoke detector	10	24.00 Ea.	\$1,392.24	\$1,723.98	4.0000	4	3	\$6,895.93	\$5,171.94
Check operation smoke detector	1	24.00 Ea.	\$408.02	\$511.19	40.0000	40	40	\$20,447.65	\$20,447.65
Replace smoke detector	15	24.00 Ea.	\$7,261.26	\$8,669.24	2.6667	2	2	\$17,338.48	\$17,338.48
Repair heat detector	10	24.00 Ea.	\$1,502.48	\$1,849.25	4.0000	4	4	\$7,397.01	\$7,397.01
Check operation heat detector	1	24.00 Ea.	\$408.02	\$511.19	40.0000	40	40	\$20,447.65	\$20,447.65
Replace heat detector	15	24.00 Ea.	\$4,250.56	\$5,203.82	2.6667	2	2	\$10,407.63	\$10,407.63
Check and repair manual pull station	10	4.00 Ea.	\$359.53	\$442.99	4.0000	4	3	\$1,771.95	\$1,328.96
Replace manual pull station	15	4.00 Ea.	\$835.03	\$1,007.05	2.6667	2	2	\$2,014.10	\$2,014.10
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.42	\$182.60	8.0000	8	8	\$1,460.76	\$1,460.76
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$45.50	\$57.01	80.0000	80	80	\$4,560.81	\$4,560.81
Replace fire alarm control panel	15	1.00 Ea.	\$2,196.12	\$2,675.47	2.6667	2	2	\$5,350.95	\$5,350.95
Maintenance and repair building structure ground	7	2.00 M.L.F.	\$184.57	\$230.64	5.7143	5	5	\$1,153.22	\$1,153.22
Replace building structure ground	50	2.00 M.L.F.	\$10,773.25	\$13,062.20	0.8000	0	0	\$0.00	\$0.00
Maintenance and repair of general wiring lightning protection system	1	2.00 M.L.F.	\$219.00	\$269.77	40.0000	40	40	\$10,790.94	\$10,790.94
Replace lightning protection general wiring system	25	2.00 M.L.F.	\$25,096.72	\$29,750.85	1.6000	1	1	\$29,750.85	\$29,750.85
Maintenance and repair lightning ground rod	1	4.00 Ea.	\$369.13	\$461.29	40.0000	40	39	\$18,451.45	\$17,990.16
Replace lightning ground rod	25	4.00 Ea.	\$982.42	\$1,214.69	1.6000	1	1	\$1,214.69	\$1,214.69
Replace lamp emergency lighting fixture	2	8.00 Ea.	\$435.94	\$526.84	20.0000	20	20	\$10,536.81	\$10,536.81
Replace emergency lighting fixture	20	8.00 Ea.	\$4,598.45	\$5,438.99	2.0000	2	2	\$10,877.98	\$10,877.98
Maintenance and repair exit light	20	8.00 Ea.	\$307.92	\$381.36	2.0000	2	2	\$762.73	\$762.73
Replace lamp exit light	5	8.00 Ea.	\$130.77	\$155.51	8.0000	8	8	\$1,244.07	\$1,244.07
Replace lighting fixture exit light	20	8.00 Ea.	\$1,408.52	\$1,708.06	2.0000	2	2	\$3,416.11	\$3,416.11
			\$1,059,994.94	\$1,250,307.11				MR Subtotal	\$2,606,139.83
								MR Per Year	\$64,986.37
								PM Total	\$22,659.22
								Subtotal	\$87,645.59
								Total Per Unit	\$4.95

FAC 7415 BOWLING CENTER

Release 2023 Qtr 4

Zip Code Prefix 222

Type PM

UM SF

Design Life 40

Average Size 17714.0

SUC \$4.95

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	3.00	0.78	\$50.29	\$34.45	\$0.00	\$84.74	\$100.10	\$117.98
Door, overhead, electric, roll up, to 24' high x 25' wide, annualized	1.00	4.07	\$43.08	\$179.97	\$0.00	\$223.04	\$281.34	\$341.79
Urinals, annualized	4.00	0.91	\$26.51	\$48.66	\$0.00	\$75.17	\$92.42	\$111.00
Toilet (vacuum breaker type), annualized	8.00	1.42	\$70.84	\$75.69	\$0.00	\$146.53	\$176.32	\$209.65
Lavatories, annualized	12.00	4.18	\$93.51	\$261.60	\$0.00	\$355.11	\$442.94	\$535.45
Drink fountain, annualized	2.00	1.24	\$74.89	\$66.27	\$0.00	\$141.16	\$168.53	\$199.65
Boiler, hot water, oil, gas, or comb. fired, 500 -1000 MBH, annualized	2.00	34.76	\$177.10	\$2,180.00	\$0.00	\$2,357.10	\$3,028.81	\$3,709.38
Chiller, recip., air cooled, over 25 tons, annualized	1.00	12.89	\$95.63	\$815.32	\$0.00	\$910.95	\$1,165.11	\$1,424.05
Air handling unit, 25 thru 50 tons, annualized	1.00	1.94	\$244.90	\$103.77	\$0.00	\$348.67	\$404.29	\$472.16
VAV Boxes, annualized	12.00	11.21	\$130.55	\$706.32	\$0.00	\$836.87	\$1,061.82	\$1,293.30
Fan, axial, up to 5,000 CFM, annualized	4.00	4.98	\$33.19	\$266.83	\$0.00	\$300.03	\$383.39	\$468.42
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	2.00	95.50	\$74.89	\$5,973.20	\$0.00	\$6,048.09	\$7,847.54	\$9,650.73
Motor control center, over 400 A, annualized	12.00	4.67	\$264.01	\$321.67	\$0.00	\$585.68	\$708.59	\$844.69
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	40.00	10.00	\$359.20	\$630.97	\$0.00	\$990.17	\$1,215.38	\$1,458.56
						\$14,588.85	\$18,575.25	\$22,659.22



**FAC 7415 BOWLING CENTER**  
**Modeled Component List**  
**CostWorks Release 2023 Qtr 4**

<b>B20 Exterior Enclosure</b>		
Aluminum Window, Fixed, 1st floor		28.0 Ea.
Glazed Aluminum		2.0 Ea.
Steel, Painted		3.0 Ea.
Steel Single, Roll-Up		1.0 Ea.
<b>B30 Roofing</b>		
Built-Up Roofing		172.0 Sq.
<b>C10 Interior Construction</b>		
Solid Core Interior Doors		7.0 Ea.
<b>C30 Interior Finishes</b>		
Acoustical Tile		11.89 C.S.F.
Drywall		6660.0 S.F.
Concrete, Finished		18.6 C.S.F.
Rubber Tile		196.0 S.Y.
Maple Strip		5314.0 S.F.
Carpet		298.0 S.Y.
Acoustic Tile, fire-rated		170.0 C.S.F.
<b>D20 Plumbing</b>		
Tankless Water Closet		8.0 Ea.
Urinal		4.0 Ea.
Lavatory, Vitreous China		12.0 Ea.
Sink, Iron Enamel		2.0 Ea.
Sink, Stainless Steel		1.0 Ea.
Drinking Fountain		1.0 Ea.
Water Heater, Gas / Oil, 30 Gallon		1.0 Ea.
Drain: Roof, Scupper, Area		2.0 Ea.
<b>D30 HVAC</b>		
Boiler, Gas, 2000 MBH		1.0 Ea.
Chiller, Air Cooled, Reciprocating, 50 ton		1.0 Ea.
Exhaust Fan, propeller exh., 4700 CFM		1.0 Ea.
Circulator Pump, 1/12 - 3/4 H.P.		1.0 Ea.
Terminal Reheat Coil, 12" x 24"		4.0 Ea.
Central Station Air Conditioning Air Handling Unit, 16,000 CFM		1.0 Ea.
VAV Box		12.0 Each
<b>D40 Fire Protection</b>		
Sprinkler System, Fire Supression, sprinkler head		35.0 Ea.
Sprinkler System, Fire Supression , 3" backflow preventer		1.0 Ea.
Fire Pump Electric Motor		2.0 Ea.
Fire Pump, Electric, annualized		2.0 Each
<b>D50 Electrical</b>		
Load Center, 100 A, maintenance & inspection		6.0 Ea.
Load Center, 100 A, replacement		4.0 Ea.
Circuit Breaker, molded case, 480 V, 1 pole		15.0 Ea.
Smoke Detector		24.0 Ea.
Heat Detector		24.0 Ea.
Manual Pull Station		4.0 Ea.
Fire Alarm Control Panel		1.0 Ea.
Building Structure Ground		2.0 M.L.F.
Lightning Protection System		2.0 M.L.F.
Lightning Ground Rod		4.0 Ea.
Emergency Lighting Fixture		8.0 Ea.
Exit Light		8.0 Ea.



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Sustainment by Year  
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