

FAC 7352 DEPENDENT SCHOOL

FY22 SUC:	\$4.76 / SF
Source:	Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 7352 DEPENDENT SCHOOL

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM SF
Design Life 45
Average Size 25715.578

SUC \$4.76

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 EMS, Mech, BTU, 3 Meters, 3 Duct Sensors, 3 Space Sensors	20	1.00 Ea.	\$17,137.72	\$20,030.68	2.2500	2	2	\$40,061.35	\$40,061.35
Replace EMS, Three Phase, 5 Meters	15	3.00 Ea.	\$47,407.38	\$55,199.37	3.0000	3	3	\$165,598.11	\$165,598.11
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	67.00 Ea.	\$9,697.36	\$11,564.80	2.2500	2	2	\$23,129.60	\$23,129.60
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	67.00 Ea.	\$32,704.82	\$38,761.12	0.9000	0	0	\$0.00	\$0.00
Repair aluminum storefront door	12	3.00 Ea.	\$1,390.26	\$1,663.54	3.7500	3	3	\$4,990.63	\$4,990.63
Replace 3'-0" x 7'-0" aluminum storefront doors	50	3.00 Ea.	\$6,137.30	\$7,257.30	0.9000	0	0	\$0.00	\$0.00
Replace insulating glass - (3% of glass) aluminum storefront door	1	1.89 S.F.	\$98.08	\$114.72	45.0000	45	45	\$5,162.45	\$5,162.45
Repair steel, painted, door	14	5.00 Ea.	\$3,125.37	\$3,720.03	3.2143	3	3	\$11,160.09	\$11,160.09
Refinish 3'-0" x 7'-0" steel, painted, door	4	5.00 Ea.	\$207.00	\$254.33	11.2500	11	11	\$2,797.64	\$2,797.64
Replace 3'-0" x 7'-0" steel, painted, door	45	5.00 Ea.	\$3,525.32	\$4,098.66	1.0000	1	1	\$4,098.66	\$4,098.66
Replace tempered glass - (3% of glass) steel painted door	1	3.15 S.F.	\$71.18	\$85.05	45.0000	45	45	\$3,827.37	\$3,827.37
Minor BUR membrane repairs, 2% of roof area	1	5.14 Sq.	\$2,489.97	\$2,954.77	45.0000	45	45	\$132,964.80	\$132,964.80
BUR flashing repairs, 2 S.F. per sq. repaired	1	10.29 S.F.	\$36.00	\$43.71	45.0000	45	45	\$1,966.74	\$1,966.74
Minor BUR membrane replacement, 25% of roof area	15	62.61 Sq.	\$50,389.28	\$59,813.93	3.0000	3	3	\$179,441.80	\$179,441.80
Place new BUR membrane over existing	20	257.16 Sq.	\$124,718.70	\$147,039.03	2.2500	2	2	\$294,078.06	\$294,078.06
Total BUR roof replacement	28	257.16 Sq.	\$200,491.52	\$237,093.10	1.6071	1	1	\$237,093.10	\$237,093.10
Repair solid core wood door, interior	11	10.00 Ea.	\$2,934.52	\$3,415.64	4.0909	4	4	\$13,662.56	\$13,662.56
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	10.00 Ea.	\$433.65	\$532.50	11.2500	11	10	\$5,857.46	\$5,324.97
Replace 3'-0" x 7'-0" solid core wood door, interior	40	10.00 Ea.	\$4,894.27	\$5,658.10	1.1250	1	1	\$5,658.10	\$5,658.10
Replace 3'-0" x 7'-0" solid core, w/ safety glass, door, interior	40	34.00 Ea.	\$19,854.22	\$22,889.46	1.1250	1	1	\$22,889.46	\$22,889.46
Repair 5/8" drywall - (2% of walls)	20	735.69 S.F.	\$1,232.53	\$1,499.69	2.2500	2	2	\$2,999.39	\$2,999.39
Refinish drywall	4	17,889.10 S.F.	\$11,108.80	\$13,665.66	11.2500	11	11	\$150,322.30	\$150,322.30
Replace 5/8" drywall	75	35,778.20 S.F.	\$83,384.94	\$102,046.78	0.6000	0	0	\$0.00	\$0.00
Refinish concrete floor finished	25	9.90 C.S.F.	\$4,176.09	\$5,016.13	1.8000	1	1	\$5,016.13	\$5,016.13
Replace vinyl tile flooring	18	1,322.20 S.Y.	\$65,321.28	\$80,217.93	2.5000	2	2	\$160,435.86	\$160,435.86
Quarry tile floor repairs - (2% of floors)	15	99.20 S.F.	\$627.75	\$782.69	3.0000	3	3	\$2,348.08	\$2,348.08
Replace quarry tile floor	50	4,960.00 S.F.	\$60,692.70	\$73,263.83	0.9000	0	0	\$0.00	\$0.00
Replace carpet	8	111.81 S.Y.	\$6,151.20	\$7,103.86	5.6250	5	5	\$35,519.31	\$35,519.31
Repair gypsum board ceiling - (2% of ceilings)	20	4.44 C.S.F.	\$1,607.60	\$1,973.57	2.2500	2	2	\$3,947.13	\$3,947.13
Refinish gypsum board ceiling, up to 12' high	20	221.94 C.S.F.	\$28,650.71	\$35,417.39	2.2500	2	2	\$70,834.78	\$70,834.78

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	14.00 Ea.	\$367.08	\$455.50	4.5000	4	4	\$1,822.01	\$1,822.01
Rebuild flush valve tankless water closet	20	14.00 Ea.	\$2,526.07	\$3,044.40	2.2500	2	2	\$6,088.80	\$6,088.80
Unplug clogged line tankless water closet	5	14.00 Ea.	\$3,057.53	\$3,823.78	9.0000	9	9	\$34,413.98	\$34,413.98
Replace tankless water closet	35	14.00 Ea.	\$18,007.10	\$20,838.93	1.2857	1	1	\$20,838.93	\$20,838.93
Replace tankless flush valve	25	14.00 Ea.	\$3,531.01	\$4,145.55	1.8000	1	1	\$4,145.55	\$4,145.55
Replace wax ring gasket for tankless water closet	5	14.00 Ea.	\$1,981.27	\$2,475.57	9.0000	9	9	\$22,280.13	\$22,280.13
Replace flush valve diaphragm for a urinal	7	8.00 Ea.	\$209.76	\$260.29	6.4286	6	6	\$1,561.72	\$1,561.72
Rebuild flush valve for a urinal	20	8.00 Ea.	\$1,443.47	\$1,739.66	2.2500	2	2	\$3,479.31	\$3,479.31
Unplug line urinal	5	8.00 Ea.	\$1,160.57	\$1,451.42	9.0000	9	9	\$13,062.81	\$13,062.81
Replace wall-hung urinal	35	8.00 Ea.	\$7,750.90	\$9,352.85	1.2857	1	1	\$9,352.85	\$9,352.85
Replace washer in spud connection lavatory, vitreous china	7	12.00 Ea.	\$197.55	\$240.96	6.4286	6	6	\$1,445.76	\$1,445.76
Replace washer in faucet lavatory, vitreous china	2	12.00 Ea.	\$154.62	\$192.62	22.5000	22	22	\$4,237.68	\$4,237.68
Replace faucets lavatory, vitreous china	10	12.00 Ea.	\$2,180.71	\$2,625.06	4.5000	4	4	\$10,500.26	\$10,500.26
Clean out strainer and P trap lavatory, vitreous china	2	12.00 Ea.	\$418.43	\$523.29	22.5000	22	22	\$11,512.49	\$11,512.49
Replace lavatory, vitreous china	35	12.00 Ea.	\$8,070.89	\$9,698.65	1.2857	1	1	\$9,698.65	\$9,698.65
Replace faucet washer sink, iron enamel	2	3.00 Ea.	\$38.33	\$47.75	22.5000	22	22	\$1,050.45	\$1,050.45
Clean trap sink, iron enamel	3	3.00 Ea.	\$25.71	\$32.16	15.0000	15	15	\$482.34	\$482.34
Replace faucets sink, iron enamel	10	3.00 Ea.	\$545.18	\$656.27	4.5000	4	4	\$2,625.06	\$2,625.06
Unstop sink, iron enamel	2	3.00 Ea.	\$125.46	\$156.91	22.5000	22	22	\$3,451.95	\$3,451.95
Replace sink, P.E.C.I. sink, iron enamel kitchen	35	3.00 Ea.	\$1,910.10	\$2,272.53	1.2857	1	1	\$2,272.53	\$2,272.53
Check / minor repairs drinking fountain	1	12.00 Ea.	\$586.59	\$733.59	45.0000	45	45	\$33,011.60	\$33,011.60
Repair internal leaks drinking fountain	4	12.00 Ea.	\$540.96	\$676.53	11.2500	11	11	\$7,441.87	\$7,441.87
Correct water pressure drinking fountain	2	12.00 Ea.	\$501.86	\$627.63	22.5000	22	22	\$13,807.81	\$13,807.81
Replace refrigerant drinking fountain	2	12.00 Ea.	\$392.20	\$459.23	22.5000	22	22	\$10,103.08	\$10,103.08
Repair drain leak drinking fountain	4	12.00 Ea.	\$406.99	\$486.42	11.2500	11	9	\$5,350.57	\$4,377.74
Replace fountain drinking fountain	10	12.00 Ea.	\$15,373.87	\$18,174.71	4.5000	4	4	\$72,698.83	\$72,698.83
Overhaul water heater, gas / oil, 70 gallon	5	1.00 Ea.	\$163.70	\$204.73	9.0000	9	9	\$1,842.54	\$1,842.54
Clean & service water heater, gas / oil, 70 gallon	1	1.00 Ea.	\$196.62	\$245.89	45.0000	45	45	\$11,065.00	\$11,065.00
Replace water heater, gas / oil, 70 gallon	12	1.00 Ea.	\$3,315.17	\$3,847.40	3.7500	3	3	\$11,542.21	\$11,542.21
Inspect / check pump / motor operation, lubricate circulation pump, 1/12 HP	0.5	1.00 Ea.	\$8.03	\$10.04	90.0000	90	90	\$903.54	\$903.54
Replace pump / motor assembly circulation pump, 1/12 HP	10	1.00 Ea.	\$1,100.58	\$1,290.00	4.5000	4	4	\$5,159.98	\$5,159.98
Unclog main drain pipe & fittings, cast iron	10	1.00 Ea.	\$46.17	\$57.74	4.5000	4	4	\$230.95	\$230.95

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Unclog floor drain, PVC	20	1.00 Ea.	\$47.80	\$59.77	2.2500	2	2	\$119.55	\$119.55
Replace pipe or gutter distribution	20	6.00 L.F.	\$269.02	\$330.80	2.2500	2	2	\$661.60	\$661.60
Repair boiler, gas, 250 MBH	7	1.00 Ea.	\$2,031.05	\$2,390.45	6.4286	6	6	\$14,342.70	\$14,342.70
Replace boiler, gas, 250 MBH	30	1.00 Ea.	\$9,398.04	\$11,210.13	1.5000	1	1	\$11,210.13	\$11,210.13
Repair boiler, gas, 2000 MBH	7	1.00 Ea.	\$5,785.82	\$6,733.75	6.4286	6	6	\$40,402.47	\$40,402.47
Replace boiler, gas, 2000 MBH	30	1.00 Ea.	\$39,838.14	\$46,620.21	1.5000	1	1	\$46,620.21	\$46,620.21
Repair chemical feed system	15	1.00 Ea.	\$843.44	\$1,008.19	3.0000	3	3	\$3,024.57	\$3,024.57
Replace chemical feed system	15	1.00 Ea.	\$912.01	\$1,057.34	3.0000	3	3	\$3,172.03	\$3,172.03
Point and refinish painted concrete block wall, 1st floor	25	55.90 C.S.F.	\$26,262.15	\$32,413.10	1.8000	1	1	\$32,413.10	\$32,413.10
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	19.00 S.F.	\$229.10	\$269.26	45.0000	45	45	\$12,116.73	\$12,116.73
Replace metal flue, all fuel SS, 6" diameter metal flue / chimney	15	1.00 L.F.	\$129.05	\$149.45	3.0000	3	3	\$448.36	\$448.36
Repair cooling tower, 100 ton	10	2.00 Ea.	\$9,218.47	\$10,943.18	4.5000	4	3	\$43,772.74	\$32,829.55
Replace cooling tower, 100 ton	15	2.00 Ea.	\$44,865.41	\$51,662.26	3.0000	3	3	\$154,986.77	\$154,986.77
Repair water cooled chiller, 50 ton, reciprocating	10	2.00 Ea.	\$91,041.79	\$105,264.10	4.5000	4	4	\$421,056.42	\$421,056.42
Replace chiller, water cooled 50 ton, reciprocating	20	2.00 Ea.	\$105,350.37	\$122,756.80	2.2500	2	2	\$245,513.60	\$245,513.60
Repair steam converter, commercial	5	1.00 Ea.	\$439.94	\$550.19	9.0000	9	9	\$4,951.74	\$4,951.74
Inspect for leaks steam converter, commercial	2	1.00 Ea.	\$6.85	\$8.57	22.5000	22	22	\$188.59	\$188.59
Replace steam converter, commercial	30	1.00 Ea.	\$5,115.75	\$5,861.01	1.5000	1	1	\$5,861.01	\$5,861.01
Replace steam trap, 15 PSIG, 3/4" threaded	7	2.00 Ea.	\$569.30	\$663.43	6.4286	6	6	\$3,980.60	\$3,980.60
Replace finned radiator wall, 10' section	20	10.00 Ea.	\$13,847.17	\$16,529.66	2.2500	2	2	\$33,059.33	\$33,059.33
Repair circulator pump, 1 H.P.	5	2.00 Ea.	\$196.72	\$232.03	9.0000	9	6	\$2,088.30	\$1,392.20
Replace circulator. pump, 1 H.P.	15	2.00 Ea.	\$11,536.96	\$13,227.58	3.0000	3	3	\$39,682.74	\$39,682.74
Refill expansion tank	5	1.00 Ea.	\$14.83	\$18.54	9.0000	9	9	\$166.89	\$166.89
Replace expansion tank, 60 gal capacity	50	1.00 Ea.	\$2,901.94	\$3,327.45	0.9000	0	0	\$0.00	\$0.00
Repair terminal reheat, 18" x 24" coil	10	1.00 Ea.	\$103.74	\$129.74	4.5000	4	4	\$518.95	\$518.95
Replace terminal reheat, 18" x 24" coil	15	1.00 Ea.	\$2,009.00	\$2,312.37	3.0000	3	3	\$6,937.11	\$6,937.11
Repair central station A.H.U., 16,000 CFM	10	1.00 Ea.	\$1,502.82	\$1,746.04	4.5000	4	3	\$6,984.14	\$5,238.11
Replace central station A.H.U., 16,000 CFM	15	1.00 Ea.	\$66,939.65	\$77,045.08	3.0000	3	3	\$231,135.23	\$231,135.23
Rebuild 4" diameter reduced pressure backflow preventer	10	1.00 Ea.	\$664.67	\$779.78	4.5000	4	4	\$3,119.13	\$3,119.13
Inspect sprinkler system	1	1.00 Ea.	\$34.33	\$42.93	45.0000	45	45	\$1,931.79	\$1,931.79
Replace sprinkler head	20	134.00 Ea.	\$11,460.05	\$14,095.39	2.2500	2	2	\$28,190.79	\$28,190.79
Rebuild double check 3" backflow preventer sprinkler system	1	1.00 Ea.	\$710.41	\$851.09	45.0000	45	45	\$38,299.22	\$38,299.22
Replace fire pump / electric motor assembly 100 H.P.	25	2.00 Ea.	\$88,278.17	\$101,820.68	1.8000	1	1	\$101,820.68	\$101,820.68
Maintenance and repair motor starter, up to 600 V	5	6.00 Ea.	\$1,677.83	\$2,025.59	9.0000	9	9	\$18,230.29	\$18,230.29
Maintenance and inspection motor starter, up to 600 V	0.5	6.00 Ea.	\$323.88	\$405.78	90.0000	90	90	\$36,520.24	\$36,520.24

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Replace starter motor starter, up to 600 V	18	6.00 Ea.	\$4,831.87	\$5,748.45	2.5000	2	2	\$11,496.89	\$11,496.89
Maintenance and inspection lighting panel, indoor	3	1.12 Ea.	\$45.44	\$56.93	15.0000	15	15	\$854.01	\$854.01
Maintenance and repair breaker, molded case, 480 V, 1 pole	20	42.00 Ea.	\$3,014.03	\$3,776.15	2.2500	2	2	\$7,552.29	\$7,552.29
Replace circuit breaker molded case, 480 V, 1 pole circuit breaker	50	42.00 Ea.	\$23,028.13	\$26,825.62	0.9000	0	0	\$0.00	\$0.00
Maintenance and repair breaker, molded case, 480 V, 2 pole	20	6.00 Ea.	\$430.58	\$539.45	2.2500	2	2	\$1,078.90	\$1,078.90
Replace circuit breaker molded case, 480 V, 2 pole circuit breaker	50	6.00 Ea.	\$7,567.64	\$8,728.11	0.9000	0	0	\$0.00	\$0.00
Replace fluorescent light fixture ballast, 80 W	10	335.42 Ea.	\$41,816.36	\$50,728.08	4.5000	4	4	\$202,912.33	\$202,912.33
Replace lamps (2 lamps), 4', 34 W energy saver	10	335.42 Ea.	\$8,457.30	\$10,592.22	4.5000	4	4	\$42,368.90	\$42,368.90
Repair smoke detector	10	40.00 Ea.	\$2,255.50	\$2,788.56	4.5000	4	3	\$11,154.25	\$8,365.69
Check operation smoke detector	1	40.00 Ea.	\$647.77	\$811.56	45.0000	45	45	\$36,520.24	\$36,520.24
Replace smoke detector	15	40.00 Ea.	\$11,369.49	\$13,578.48	3.0000	3	3	\$40,735.43	\$40,735.43
Check and repair manual pull station	10	10.00 Ea.	\$876.97	\$1,078.30	4.5000	4	3	\$4,313.21	\$3,234.91
Replace manual pull station	15	10.00 Ea.	\$2,034.68	\$2,449.41	3.0000	3	3	\$7,348.23	\$7,348.23
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.71	\$182.27	9.0000	9	9	\$1,640.47	\$1,640.47
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$43.18	\$54.10	90.0000	90	90	\$4,869.37	\$4,869.37
Replace fire alarm control panel	15	1.00 Ea.	\$1,953.46	\$2,391.92	3.0000	3	3	\$7,175.76	\$7,175.76
Minor repairs to annunciation panel	5	1.00 Ea.	\$149.71	\$182.27	9.0000	9	9	\$1,640.47	\$1,640.47
Maintenance and inspection annunciation panel	0.5	1.00 Ea.	\$43.18	\$54.10	90.0000	90	90	\$4,869.37	\$4,869.37
Replace annunciation panel	15	1.00 Ea.	\$1,126.52	\$1,354.55	3.0000	3	3	\$4,063.66	\$4,063.66
Replace fire alarm bell, 6"	20	24.00 Ea.	\$4,679.09	\$5,646.61	2.2500	2	2	\$11,293.22	\$11,293.22
Maintenance and repair of general wiring lightning protection system	1	1.00 M.L.F.	\$96.72	\$119.83	45.0000	45	45	\$5,392.19	\$5,392.19
Replace lightning protection general wiring system	25	1.00 M.L.F.	\$11,009.12	\$13,095.99	1.8000	1	1	\$13,095.99	\$13,095.99
Maintenance and repair lightning ground rod	1	1.00 Ea.	\$87.89	\$109.79	45.0000	45	44	\$4,940.42	\$4,830.63
Replace lightning ground rod	25	1.00 Ea.	\$226.09	\$280.29	1.8000	1	1	\$280.29	\$280.29
Maintenance and repair computer ground system	4	1.00 Ea.	\$21.59	\$27.05	11.2500	11	11	\$297.57	\$297.57
Replace computer ground system	50	1.00 M.L.F.	\$1,865.81	\$2,278.85	0.9000	0	0	\$0.00	\$0.00
Replace lamp emergency lighting fixture	2	50.00 Ea.	\$2,734.47	\$3,293.78	22.5000	22	22	\$72,463.23	\$72,463.23
Replace emergency lighting fixture	20	50.00 Ea.	\$30,118.41	\$35,488.07	2.2500	2	2	\$70,976.15	\$70,976.15
Maintenance and repair exit light	20	50.00 Ea.	\$1,860.08	\$2,300.16	2.2500	2	2	\$4,600.31	\$4,600.31
			\$1,574,128.45	\$1,863,128.13				MR Subtotal	\$4,071,935.82
								MR Per Year	\$90,284.70
								PM Total	\$32,123.15
								Subtotal	\$122,407.85
								Total Per Unit	\$4.76

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SUC \$4.76

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 45

Type PM

Average Size 25715.578

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Controls, central system, electro/pneumatic, annually	1.00	1.92	\$70.77	\$115.41	\$0.00	\$186.18	\$227.88	\$273.12
Door, emergency egress, swinging, annualized	8.00	2.08	\$116.74	\$86.00	\$0.00	\$202.73	\$240.20	\$283.51
Elevator, hydraulic, passenger / freight, annualized	1.00	10.22	\$1,489.80	\$863.03	\$0.00	\$2,352.82	\$2,760.71	\$3,243.09
Urinals, annualized	8.00	1.82	\$50.55	\$91.62	\$0.00	\$142.17	\$174.72	\$209.79
Toilet (vacuum breaker type), annualized	14.00	2.48	\$118.19	\$124.57	\$0.00	\$242.76	\$291.95	\$347.05
Lavatories, annualized	12.00	4.18	\$71.58	\$248.44	\$0.00	\$320.02	\$401.71	\$486.98
Drink fountain, annualized	12.00	7.44	\$248.71	\$375.31	\$0.00	\$624.01	\$761.47	\$911.37
Water heater, gas, to 120 gal., annualized	1.00	1.72	\$58.64	\$86.78	\$0.00	\$145.42	\$177.31	\$212.14
Boiler, steam, oil, gas, or comb. fired, up to 120 MBH, annualized	1.00	16.19	\$88.97	\$969.10	\$0.00	\$1,058.07	\$1,357.69	\$1,661.77
Water cooling tower, 50 thru 500 tons, annualized	2.00	19.82	\$315.43	\$1,198.16	\$0.00	\$1,513.59	\$1,904.58	\$2,311.35
Chiller, centrif., water cooled, up to 100 tons, annualized	2.00	53.54	\$166.81	\$3,215.65	\$0.00	\$3,382.47	\$4,363.84	\$5,353.56
Air handling unit, over 50 tons, annualized	1.00	3.28	\$399.34	\$164.75	\$0.00	\$564.09	\$653.45	\$762.78
Hood and blower, annualized	1.00	2.32	\$54.09	\$116.29	\$0.00	\$170.38	\$210.68	\$253.68
Heat exchanger, steam, annualized	1.00	0.92	\$22.75	\$46.69	\$0.00	\$69.44	\$85.72	\$103.14
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
Fire pump, electric motor driven, annualized	2.00	95.50	\$106.15	\$5,682.45	\$0.00	\$5,788.60	\$7,503.96	\$9,224.61
Panelboard, 225 A and above, annualized	6.00	2.65	\$139.19	\$174.05	\$0.00	\$313.23	\$379.37	\$452.46
Motor control center, over 400 A, annualized	6.00	2.33	\$139.19	\$155.40	\$0.00	\$294.59	\$355.12	\$422.62
Fire alarm annunciator system, annualized	1.00	11.05	\$179.39	\$652.68	\$0.00	\$832.07	\$1,045.82	\$1,268.53
Light, emergency, hardwired system, annualized	50.00	12.50	\$386.62	\$738.15	\$0.00	\$1,124.78	\$1,384.88	\$1,664.32
Refrigerator display, walk-in w/ external condenser case, annualized	2.00	4.75	\$414.85	\$162.66	\$0.00	\$577.51	\$667.79	\$778.81
Refrigerator freezer, walk-in box w/external condenser, annualized	2.00	2.93	\$414.85	\$100.46	\$0.00	\$515.32	\$586.94	\$679.31
						\$21,200.08	\$26,533.26	\$32,123.15

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Modeled Component List
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B20 Exterior Enclosure		
Aluminum Window, Fixed, 1st floor		67.0 Ea.
Glazed Aluminum		3.0 Ea.
Steel, Painted		5.0 Ea.
B30 Roofing		
Built-Up Roofing		257.15578 Sq.
C10 Interior Construction		
Solid Core Interior Doors		10.0 Ea.
Solid Core Interior Doors, w/ safety glass		34.0 Ea.
C30 Interior Finishes		
Drywall	35778.19547826087 S.F.	
Concrete, Finished		9.9 C.S.F.
Vinyl		1322.2 S.Y.
Quarry Tile		4960.0 S.F.
Carpet	111.80686086956521 S.Y.	
D20 Plumbing		
Tankless Water Closet		14.0 Ea.
Urinal		8.0 Ea.
Lavatory, Vitreous China		12.0 Ea.
Sink, Iron Enamel		3.0 Ea.
Drinking Fountain		12.0 Ea.
Water Heater, Gas / Oil, 70 Gallon		1.0 Ea.
Circulation Pump, 1/12 HP		1.0 Ea.
D30 HVAC		
Boiler, Gas, 250 MBH		1.0 Ea.
Boiler, Gas, 2000 MBH		1.0 Ea.
Chemical Feed System		1.0 Ea.
Metal Flue / Chimney, 6" diameter		1.0 L.F.
Cooling Tower, 100 ton		2.0 Ea.
Chiller, Water Cooled, Reciprocating, 50 ton		2.0 Ea.
Steam Converter, Commercial		1.0 Ea.
Circulator Pump, 1 H.P.		2.0 Ea.
Expansion Tank		1.0 Ea.
Terminal Reheat Coil, 18" x 24"		1.0 Ea.
Central Station Air Conditioning Air Handling Unit, 16,000 CFM		1.0 Ea.
D40 Fire Protection		
Backflow Preventer		1.0 Ea.
Sprinkler System, Fire Supression, sprinkler head		134.0 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
D50 Electrical		
Motor Starter, Up To 600 V		6.0 Ea.
Load Center, 100 A, maintenance & inspection	1.1180686086956522 Ea.	
Circuit Breaker, molded case, 480 V, 1 pole		42.0 Ea.
Smoke Detector		40.0 Ea.
Manual Pull Station		10.0 Ea.
Fire Alarm Control Panel		1.0 Ea.
Annunciation Panel		1.0 Ea.
Fire Alarm Bell		24.0 Ea.
Lightning Protection System		1.0 M.L.F.

Lightning Ground Rod	1.0 Ea.
Computer Ground System	1.0 M.L.F.
Emergency Lighting Fixture	50.0 Ea.
D10 Conveying	
Elevator, hydraulic annualized	1.0 Each
E10 Equipment	
Refrigerator display, walk-in, annualized	2.0 Each
Refrigerator freezer, walk-in, annualized	2.0 Each

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Sustainment by Year
CostWorks Release 2021 Qtr 3

