

FAC 6106 REMOTE DELIVERY FACILITY

FY22 SUC:	\$13.70 / SF
Source:	Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 6106 REMOTE DELIVERY FACILITY
SUC \$13.70

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 55

Type MR

Average Size 197384.0

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 steel, painted, door	14	36.00 Ea.	\$22,502.67	\$26,784.21	3.9286	3	3	\$80,352.62	\$80,352.62
Refinish 3'-0" x 7'-0" steel, painted, door	4	36.00 Ea.	\$1,490.40	\$1,831.18	13.7500	13	13	\$23,805.40	\$23,805.40
Replace 3'-0" x 7'-0" steel, painted, door	45	36.00 Ea.	\$25,382.30	\$29,510.32	1.2222	1	1	\$29,510.32	\$29,510.32
Repair 12' x 12' steel roll-up door	10	54.00 Ea.	\$36,498.37	\$43,319.71	5.5000	5	5	\$216,598.54	\$216,598.54
Refinish 12' x 12' steel roll-up door	5	54.00 Ea.	\$10,986.18	\$13,456.21	11.0000	11	11	\$148,018.32	\$148,018.32
Replace 12' x 12' steel roll-up door	35	54.00 Ea.	\$145,993.47	\$173,278.83	1.5714	1	1	\$173,278.83	\$173,278.83
Debris removal by hand & visual inspection,modified bitum/thermoplastc	1	197.38 M.S.F.	\$7,433.40	\$9,066.54	55.0000	55	55	\$498,659.48	\$498,659.48
Non-destructive moisture inspection, modified bituminous/thermoplastic	5	197.38 M.S.F.	\$23,065.40	\$28,132.93	11.0000	11	11	\$309,462.21	\$309,462.21
Minor thermoplastic membrane repairs, 2% of roof area	1	39.47 Sq.	\$12,805.65	\$15,237.31	55.0000	55	55	\$838,051.98	\$838,051.98
Flashing repairs, 2 S.F. per sq. repaired, modified bitumen/thermoplastic	1	1,000.00 S.F.	\$3,853.07	\$4,611.52	55.0000	55	55	\$253,633.69	\$253,633.69
Membrane replacement-(25% of roof area),modified bitum/thermoplastic	20	496.00 Sq.	\$388,649.00	\$464,110.58	2.7500	2	2	\$928,221.17	\$928,221.17
Total roof replacement, modified bituminous / thermoplastic	25	1,974.00 Sq.	\$1,250,980.79	\$1,484,585.38	2.2000	2	2	\$2,969,170.75	\$2,969,170.75
Repair 8" concrete block wall - (2% of walls) painted	25	15.00 C.S.F.	\$16,344.81	\$19,625.33	2.2000	2	2	\$39,250.66	\$39,250.66
Refinish concrete block wall painted	4	710.00 C.S.F.	\$71,652.26	\$87,250.62	13.7500	13	13	\$1,134,258.02	\$1,134,258.02
Repair steel painted interior door	14	130.00 Ea.	\$38,148.79	\$44,403.32	3.9286	3	3	\$133,209.97	\$133,209.97
Refinish 3'-0" x 7'-0" steel painted interior door	4	130.00 Ea.	\$6,836.05	\$8,422.22	13.7500	13	13	\$109,488.90	\$109,488.90
Replace 3'-0" x 7'-0" steel painted interior door	60	130.00 Ea.	\$158,344.48	\$183,570.81	0.9167	0	0	\$0.00	\$0.00
Repair solid core wood door, interior	11	65.00 Ea.	\$19,074.40	\$22,201.66	5.0000	5	5	\$111,008.31	\$111,008.31
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	65.00 Ea.	\$2,818.71	\$3,461.23	13.7500	13	12	\$44,995.97	\$41,534.74
Replace 3'-0" x 7'-0" solid core wood door, interior	40	65.00 Ea.	\$31,812.77	\$36,777.66	1.3750	1	1	\$36,777.66	\$36,777.66
Replace brass lockset interior	30	130.00 Ea.	\$42,794.78	\$49,596.89	1.8333	1	1	\$49,596.89	\$49,596.89
Replace brass door closer	15	195.00 Ea.	\$44,430.78	\$52,264.97	3.6667	3	3	\$156,794.92	\$156,794.92
Replace panic bar	25	195.00 Ea.	\$231,374.16	\$265,841.62	2.2000	2	2	\$531,683.24	\$531,683.24
Replace toilet partitions, stainless steel-overhead braced, per stall	30	28.00 Ea.	\$42,869.69	\$49,319.23	1.8333	1	1	\$49,319.23	\$49,319.23
Replace urinal screen, stainless steel	30	10.00 Ea.	\$7,360.46	\$8,522.47	1.8333	1	1	\$8,522.47	\$8,522.47
Replace metal lockers, single tier	20	200.00 Ea.	\$67,930.92	\$78,587.35	2.7500	2	2	\$157,174.70	\$157,174.70
Repair 5/8" drywall - (2% of walls)	20	970.00 S.F.	\$1,625.08	\$1,977.33	2.7500	2	2	\$3,954.66	\$3,954.66
Refinish drywall	4	48,390.00 S.F.	\$30,049.29	\$36,965.61	13.7500	13	13	\$480,552.96	\$480,552.96
Office painting, 10' x 12', 10' high walls	5	40.00 Ea.	\$8,839.45	\$10,842.53	11.0000	11	11	\$119,267.78	\$119,267.78

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Repair 4" x 4" thin set ceramic tile - (2% of walls)	10	10.00 C.S.F.	\$8,209.41	\$9,892.61	5.5000	5	5	\$49,463.03	\$49,463.03
Replace 4" x 4" thin set ceramic tile	75	50.00 C.S.F.	\$44,365.56	\$53,603.90	0.7333	0	0	\$0.00	\$0.00
Ceramic tile floor repairs - (2% of floors)	15	1.00 C.S.F.	\$632.81	\$789.01	3.6667	3	3	\$2,367.02	\$2,367.02
Replace 2" x 2" thin set ceramic tile floor	50	60.00 C.S.F.	\$73,418.59	\$88,625.60	1.1000	1	1	\$88,625.60	\$88,625.60
Acoustic tile repairs - (2% of ceilings)	9	20.00 C.S.F.	\$18,154.07	\$21,098.43	6.1111	6	6	\$126,590.57	\$126,590.57
Replace acoustic tile ceiling, fire-rated	20	930.00 C.S.F.	\$487,532.59	\$574,634.06	2.7500	2	2	\$1,149,268.12	\$1,149,268.12
Replace flush valve diaphragm tankless water closet	10	28.00 Ea.	\$734.17	\$911.00	5.5000	5	5	\$4,555.02	\$4,555.02
Rebuild flush valve tankless water closet	20	28.00 Ea.	\$5,052.15	\$6,088.80	2.7500	2	2	\$12,177.60	\$12,177.60
Unplug clogged line tankless water closet	5	28.00 Ea.	\$6,115.07	\$7,647.55	11.0000	11	11	\$84,123.06	\$84,123.06
Replace tankless water closet	35	28.00 Ea.	\$36,014.19	\$41,677.87	1.5714	1	1	\$41,677.87	\$41,677.87
Replace wax ring gasket for tankless water closet	5	28.00 Ea.	\$3,962.54	\$4,951.14	11.0000	11	11	\$54,462.55	\$54,462.55
Replace stainless steel detention water closet flush valve actuator	20	28.00 Ea.	\$10,915.76	\$12,648.82	2.7500	2	2	\$25,297.64	\$25,297.64
Replace flush valve diaphragm for a urinal	7	10.00 Ea.	\$262.20	\$325.36	7.8571	7	7	\$2,277.51	\$2,277.51
Rebuild flush valve for a urinal	20	10.00 Ea.	\$1,804.34	\$2,174.57	2.7500	2	2	\$4,349.14	\$4,349.14
Unplug line urinal	5	10.00 Ea.	\$1,450.72	\$1,814.28	11.0000	11	11	\$19,957.07	\$19,957.07
Replace wall-hung urinal	35	10.00 Ea.	\$9,688.63	\$11,691.06	1.5714	1	1	\$11,691.06	\$11,691.06
Replace washer in spud connection lavatory, vitreous china	7	32.00 Ea.	\$526.80	\$642.56	7.8571	7	7	\$4,497.93	\$4,497.93
Replace washer in faucet lavatory, vitreous china	2	32.00 Ea.	\$412.32	\$513.66	27.5000	27	27	\$13,868.77	\$13,868.77
Replace faucets lavatory, vitreous china	10	32.00 Ea.	\$5,815.23	\$7,000.17	5.5000	5	5	\$35,000.86	\$35,000.86
Clean out strainer and P trap lavatory, vitreous china	2	32.00 Ea.	\$1,115.82	\$1,395.45	27.5000	27	27	\$37,677.24	\$37,677.24
Replace lavatory, vitreous china	35	32.00 Ea.	\$21,522.39	\$25,863.07	1.5714	1	1	\$25,863.07	\$25,863.07
Inspect / clean shower head shower, terrazzo	3	20.00 Ea.	\$987.86	\$1,235.42	18.3333	18	18	\$22,237.59	\$22,237.59
Replace mixing valve barrel shower, terrazzo	2	20.00 Ea.	\$5,651.81	\$6,646.39	27.5000	27	27	\$179,452.47	\$179,452.47
Replace mixing valve shower, terrazzo	10	20.00 Ea.	\$5,517.64	\$6,711.10	5.5000	5	5	\$33,555.52	\$33,555.52
Replace terrazzo shower surface	30	20.00 Ea.	\$25,880.88	\$31,162.40	1.8333	1	1	\$31,162.40	\$31,162.40
Check / minor repairs drinking fountain	1	20.00 Ea.	\$977.65	\$1,222.65	55.0000	55	55	\$67,245.85	\$67,245.85
Repair internal leaks drinking fountain	4	20.00 Ea.	\$901.61	\$1,127.56	13.7500	13	13	\$14,658.24	\$14,658.24
Correct water pressure drinking fountain	2	20.00 Ea.	\$836.43	\$1,046.05	27.5000	27	27	\$28,243.26	\$28,243.26
Replace refrigerant drinking fountain	2	20.00 Ea.	\$653.66	\$765.38	27.5000	27	27	\$20,665.39	\$20,665.39
Repair drain leak drinking fountain	4	20.00 Ea.	\$678.31	\$810.69	13.7500	13	11	\$10,539.00	\$8,917.62
Replace fountain drinking fountain	10	20.00 Ea.	\$25,623.12	\$30,291.18	5.5000	5	5	\$151,455.89	\$151,455.89

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Inspect and clean spray heads, emergency eye wash	3	14.00 Ea.	\$691.50	\$864.80	18.3333	18	18	\$15,566.31	\$15,566.31
Replace eye wash station, emergency eye wash	25	14.00 Ea.	\$15,600.78	\$18,549.95	2.2000	2	2	\$37,099.90	\$37,099.90
Replace old valve, non-drain, 4"	10	1,680.00 Ea.	\$4,216,819.45	\$4,953,419.60	5.5000	5	5	\$24,767,098.02	\$24,767,098.02
Replace old valve, non-drain, 10"	10	80.00 Ea.	\$783,651.94	\$901,523.80	5.5000	5	5	\$4,507,618.99	\$4,507,618.99
Inspect for leaks steam converter, domestic hot water	1	18.00 Ea.	\$121.81	\$152.34	55.0000	55	55	\$8,378.83	\$8,378.83
Replace steam converter, domestic hot water	20	18.00 Ea.	\$63,002.75	\$72,331.19	2.7500	2	2	\$144,662.38	\$144,662.38
General maintenance & repair distribution: gutters, pipe	1	43.00 M.L.F.	\$12,987.64	\$16,242.45	55.0000	55	55	\$893,334.95	\$893,334.95
Replace pipe or gutter distribution	20	43.00 L.F.	\$1,927.99	\$2,370.73	2.7500	2	2	\$4,741.46	\$4,741.46
Repair cooling tower, 1000 ton	10	5.00 Ea.	\$96,478.16	\$112,789.04	5.5000	5	4	\$563,945.19	\$451,156.15
Replace cooling tower, 1000 ton	15	5.00 Ea.	\$533,733.98	\$618,894.95	3.6667	3	3	\$1,856,684.85	\$1,856,684.85
Repair hermetic centrifugal chiller, 1000 ton	10	5.00 Ea.	\$695,238.54	\$810,826.66	5.5000	5	3	\$4,054,133.29	\$2,432,479.98
Replace hermetic centrifugal chiller, 1000 ton	20	5.00 Ea.	\$2,642,358.06	\$3,032,029.47	2.7500	2	2	\$6,064,058.95	\$6,064,058.95
Repair fan coil unit, 5 ton	10	32.00 Ea.	\$16,999.36	\$20,226.86	5.5000	5	4	\$101,134.31	\$80,907.45
Replace fan coil unit, 5 ton	15	32.00 Ea.	\$83,932.56	\$97,343.67	3.6667	3	3	\$292,031.02	\$292,031.02
Repair fan coil unit, 10 ton	10	56.00 Ea.	\$45,890.39	\$53,833.46	5.5000	5	4	\$269,167.29	\$215,333.83
Replace fan coil unit, 10 ton	15	56.00 Ea.	\$312,796.09	\$366,639.04	3.6667	3	3	\$1,099,917.12	\$1,099,917.12
Replace fan & motor, propeller exhaust, 1000 CFM exhaust fan	15	8.00 Ea.	\$6,835.02	\$8,056.43	3.6667	3	3	\$24,169.30	\$24,169.30
Replace utility set, belt drive, 3600 CFM exhaust fan	10	6.00 Ea.	\$19,694.26	\$22,813.89	5.5000	5	5	\$114,069.44	\$114,069.44
Replace axial flow fan, 3800 CFM exhaust fan	10	6.00 Ea.	\$13,038.28	\$15,327.44	5.5000	5	5	\$76,637.20	\$76,637.20
Replace axial flow fan, 6400 CFM exhaust fan	10	6.00 Ea.	\$18,822.83	\$22,007.63	5.5000	5	5	\$110,038.16	\$110,038.16
Replace circulator. pump, 1 H.P.	15	42.00 Ea.	\$242,276.14	\$277,779.19	3.6667	3	3	\$833,337.56	\$833,337.56
Repair terminal reheat, 12" x 24" coil	10	32.00 Ea.	\$2,850.38	\$3,564.71	5.5000	5	4	\$17,823.55	\$14,258.84
Replace terminal reheat, 12" x 24" coil	15	32.00 Ea.	\$56,238.72	\$64,539.06	3.6667	3	3	\$193,617.17	\$193,617.17
Repair computer room A/C, chilled water, 5 ton	10	12.00 Ea.	\$95,851.41	\$112,181.94	5.5000	5	3	\$560,909.70	\$336,545.82
Replace computer room A/C, chilled water, 5 ton	20	12.00 Ea.	\$314,299.07	\$360,590.67	2.7500	2	2	\$721,181.33	\$721,181.33
Repair central station A.H.U., 16,000 CFM	10	5.00 Ea.	\$7,514.10	\$8,730.18	5.5000	5	4	\$43,650.88	\$34,920.71
Replace central station A.H.U., 16,000 CFM	15	5.00 Ea.	\$334,698.25	\$385,225.39	3.6667	3	3	\$1,155,676.17	\$1,155,676.17
Inspect sprinkler system	1	16.00 Ea.	\$549.22	\$686.86	55.0000	55	55	\$37,777.22	\$37,777.22
Replace sprinkler head	20	3,665.00 Ea.	\$313,441.06	\$385,519.53	2.7500	2	2	\$771,039.06	\$771,039.06
Rebuild double check 4" backflow preventer sprinkler system	1	16.00 Ea.	\$12,113.12	\$14,555.18	55.0000	55	55	\$800,534.94	\$800,534.94
Replace fire pump / electric motor assembly 100 H.P.	25	4.00 Ea.	\$176,556.33	\$203,641.36	2.2000	2	2	\$407,282.72	\$407,282.72
Repair 15 KV primary transformer, dry	15	12.00 Ea.	\$3,092.47	\$3,739.66	3.6667	3	3	\$11,218.98	\$11,218.98
Maintenance and inspection primary transformer, dry	0.5	12.00 Ea.	\$487.73	\$611.06	110.0000	110	110	\$67,216.34	\$67,216.34
Replace transformer 500 KVA, dry	30	12.00 Ea.	\$517,929.14	\$596,212.10	1.8333	1	1	\$596,212.10	\$596,212.10

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Repair switchgear 1200 A mainframe	5	55.00 Ea.	\$104,749.60	\$122,516.61	11.0000	11	9	\$1,347,682.69	\$1,102,649.47
Maintenance and inspection switchgear, mainframe	1	55.00 Ea.	\$3,562.73	\$4,463.59	55.0000	55	55	\$245,497.19	\$245,497.19
Replace switchgear 1200 A mainframe	20	55.00 Ea.	\$239,256.56	\$287,401.21	2.7500	2	2	\$574,802.41	\$574,802.41
Maintenance and repair motor starter, 600 V	3	20.00 Ea.	\$13,775.66	\$16,920.69	18.3333	18	18	\$304,572.49	\$304,572.49
Maintenance and inspection motor starter, 600 V	0.25	20.00 Ea.	\$1,079.62	\$1,352.60	220.0000	220	220	\$297,572.35	\$297,572.35
Replace starter motor starter, 600 V	18	20.00 Ea.	\$86,823.28	\$101,841.05	3.0556	3	3	\$305,523.15	\$305,523.15
Maintenance and repair breaker, molded case, 480 V, 1 pole	20	4,200.00 Ea.	\$301,403.27	\$377,614.54	2.7500	2	2	\$755,229.08	\$755,229.08
Maintenance and inspection circuit breaker, molded case, 480 V, 1 pole	0.5	4,200.00 Ea.	\$136,031.57	\$170,427.80	110.0000	110	110	\$18,747,058.18	\$18,747,058.18
Maintenance and inspection circuit breaker, enclosed, 600 V, 3 pole	0.33	100.00 Ea.	\$3,238.85	\$4,057.80	166.6667	166	166	\$673,595.60	\$673,595.60
Replace circuit breaker enclosed, 600 V, 3 pole circuit breaker	50	100.00 Ea.	\$127,627.99	\$149,330.33	1.1000	1	1	\$149,330.33	\$149,330.33
Replace fluorescent light fixture ballast, 80 W	10	800.00 Ea.	\$99,734.76	\$120,989.79	5.5000	5	5	\$604,948.95	\$604,948.95
Replace lamps (2 lamps), 4', 34 W energy saver	10	800.00 Ea.	\$20,171.21	\$25,263.15	5.5000	5	5	\$126,315.74	\$126,315.74
Replace metal halide ballast, 175 W	10	20.00 Ea.	\$2,969.69	\$3,566.02	5.5000	5	5	\$17,830.10	\$17,830.10
Replace metal halide fixture lamp, 175 W	5	20.00 Ea.	\$999.74	\$1,223.07	11.0000	11	11	\$13,453.81	\$13,453.81
Replace high pressure sodium ballast, 250 W	10	450.00 Ea.	\$87,231.85	\$103,432.94	5.5000	5	5	\$517,164.72	\$517,164.72
Replace high pressure sodium fixture lamp, 250 W	10	450.00 Ea.	\$25,045.97	\$30,418.84	5.5000	5	5	\$152,094.18	\$152,094.18
Check and repair manual pull station	10	72.00 Ea.	\$6,314.17	\$7,763.78	5.5000	5	4	\$38,818.90	\$31,055.12
Replace manual pull station	15	72.00 Ea.	\$14,649.68	\$17,635.76	3.6667	3	3	\$52,907.27	\$52,907.27
Minor repairs to fire alarm control panel	5	16.00 Ea.	\$2,395.29	\$2,916.40	11.0000	11	11	\$32,080.39	\$32,080.39
Maintenance and inspection fire alarm control panel	0.5	16.00 Ea.	\$690.95	\$865.67	110.0000	110	110	\$95,223.15	\$95,223.15
Replace fire alarm control panel	15	16.00 Ea.	\$31,255.44	\$38,270.73	3.6667	3	3	\$114,812.18	\$114,812.18
Minor repairs to annunciation panel	5	2.00 Ea.	\$299.41	\$364.55	11.0000	11	11	\$4,010.05	\$4,010.05
Maintenance and inspection annunciation panel	0.5	2.00 Ea.	\$86.37	\$108.21	110.0000	110	110	\$11,902.89	\$11,902.89
Replace annunciation panel	15	2.00 Ea.	\$2,253.03	\$2,709.11	3.6667	3	3	\$8,127.32	\$8,127.32
Maintenance and repair electrical service ground	25	3.00 M.L.F.	\$263.67	\$329.36	2.2000	2	2	\$658.72	\$658.72
Replace electrical service ground	50	3.00 M.L.F.	\$11,301.90	\$13,904.16	1.1000	1	1	\$13,904.16	\$13,904.16
Maintenance and repair building structure ground	7	3.00 M.L.F.	\$263.67	\$329.36	7.8571	7	7	\$2,305.53	\$2,305.53
Replace building structure ground	50	3.00 M.L.F.	\$13,012.27	\$15,955.84	1.1000	1	1	\$15,955.84	\$15,955.84
Maintenance and repair of general wiring lightning protection system	1	3.00 M.L.F.	\$290.17	\$359.48	55.0000	55	55	\$19,771.38	\$19,771.38

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Replace lightning protection general wiring system	25	3.00 M.L.F.	\$33,027.37	\$39,287.97	2.2000	2	2	\$78,575.94	\$78,575.94
Maintenance and repair lightning ground rod	1	16.00 Ea.	\$1,406.22	\$1,756.59	55.0000	55	53	\$96,612.70	\$93,099.51
Replace lightning ground rod	25	16.00 Ea.	\$3,617.44	\$4,484.65	2.2000	2	2	\$8,969.30	\$8,969.30
Maintenance and inspection generator, diesel, 750 KW	0.08	10.00 Ea.	\$647.77	\$811.56	687.5000	687	687	\$557,542.38	\$557,542.38
Replace diesel generator component, 750 KW	25	10.00 Ea.	\$2,279,669.34	\$2,611,025.75	2.2000	2	2	\$5,222,051.49	\$5,222,051.49
Maintenance and repair transfer switch	5	10.00 Ea.	\$3,570.51	\$4,308.18	11.0000	11	11	\$47,390.03	\$47,390.03
Maintenance and inspection transfer switch	0.5	10.00 Ea.	\$406.44	\$509.21	110.0000	110	110	\$56,013.62	\$56,013.62
Replace transfer switch	18	10.00 Ea.	\$262,925.07	\$301,002.73	3.0556	3	3	\$903,008.18	\$903,008.18
Replace lamp emergency lighting fixture	2	144.00 Ea.	\$7,875.28	\$9,486.09	27.5000	27	27	\$256,124.56	\$256,124.56
Replace emergency lighting fixture	20	144.00 Ea.	\$86,741.01	\$102,205.65	2.7500	2	2	\$204,411.31	\$204,411.31
Maintenance and repair exit light	20	70.00 Ea.	\$2,604.11	\$3,220.22	2.7500	2	2	\$6,440.44	\$6,440.44
Replace lamp exit light	5	70.00 Ea.	\$1,179.26	\$1,397.44	11.0000	11	11	\$15,371.87	\$15,371.87
Replace lighting fixture exit light	20	70.00 Ea.	\$13,372.44	\$16,083.25	2.7500	2	2	\$32,166.50	\$32,166.50
Maintenance and inspection UPS battery	0.17	60.00 Ea.	\$3,886.62	\$4,869.37	323.5294	323	323	\$1,572,805.14	\$1,572,805.14
Replace motor generator UPS battery	15	60.00 Ea.	\$66,057.91	\$78,084.19	3.6667	3	3	\$234,252.57	\$234,252.57
Repair central station A.H.U., 63,000 CFM	10	25.00 Ea.	\$185,073.60	\$212,952.71	5.5000	5	4	\$1,064,763.53	\$851,810.82
Replace central station A.H.U., 63,000 CFM	15	25.00 Ea.	\$6,685,817.94	\$7,694,319.06	3.6667	3	3	\$23,082,957.18	\$23,082,957.18
			\$26,190,537.12	\$30,480,520.70				MR Subtotal	\$119,372,689.22
								MR Per Year	\$2,170,412.53
								PM Total	\$534,439.15
								Subtotal	\$2,704,851.68
								Total Per Unit	\$13.70

FAC 6106 REMOTE DELIVERY FACILITY

SUC \$13.70

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 55

Type PM

Average Size 197384.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, overhead, electric, roll up, to 24' high x 25' wide, annualized	54.00	219.78	\$2,211.84	\$9,115.79	\$0.00	\$11,327.63	\$14,283.56	\$17,350.07
Fire doors, swinging, annualized	260.00	101.92	\$3,723.52	\$3,784.95	\$0.00	\$7,508.47	\$9,016.31	\$10,710.33
Urinals, annualized	10.00	2.28	\$63.19	\$114.53	\$0.00	\$177.72	\$218.40	\$262.23
Toilet (vacuum breaker type), annualized	27.00	4.78	\$227.93	\$240.25	\$0.00	\$468.18	\$563.05	\$669.31
Lavatories, annualized	32.00	11.14	\$190.88	\$662.51	\$0.00	\$853.39	\$1,071.23	\$1,298.62
Showers, annualized	20.00	4.56	\$257.81	\$272.23	\$0.00	\$530.03	\$637.48	\$757.82
Drink fountain, annualized	14.00	8.68	\$290.16	\$437.86	\$0.00	\$728.01	\$888.39	\$1,063.27
Valve, motor operated, above 4", annualized	1,760.00	1,763.52	\$40,925.28	\$88,381.92	\$0.00	\$129,307.20	\$159,914.30	\$192,567.67
Water heater, steam 2500 gal., annualized	18.00	27.88	\$2,584.12	\$1,403.43	\$0.00	\$3,987.55	\$4,666.99	\$5,475.64
Valve, pressure relief, above 4", annualized	40.00	5.92	\$224.44	\$297.78	\$0.00	\$522.22	\$634.00	\$757.00
Valve, pressure regular, above 4", annualized	40.00	14.36	\$224.44	\$722.42	\$0.00	\$946.86	\$1,186.03	\$1,436.42
Water cooling tower, 500 thru 1000 tons, annualized	5.00	88.64	\$788.58	\$5,286.00	\$0.00	\$6,074.58	\$7,739.24	\$9,443.33
Chiller, centrif., water cooled, over 100 tons, annualized	5.00	166.82	\$437.26	\$10,021.38	\$0.00	\$10,458.63	\$13,508.77	\$16,580.77
Air handling unit, over 50 tons, annualized	20.00	65.52	\$7,986.90	\$3,294.94	\$0.00	\$11,281.84	\$13,069.01	\$15,255.53
Air handling unit, computer room, annualized	12.00	40.99	\$1,528.63	\$2,061.54	\$0.00	\$3,590.17	\$4,361.50	\$5,209.25
Fan coil unit, annualized	20.00	66.76	\$2,264.64	\$3,365.42	\$0.00	\$5,630.06	\$6,866.15	\$8,215.47
VAV Boxes, annualized	95.00	88.73	\$912.43	\$5,356.48	\$0.00	\$6,268.91	\$7,967.09	\$9,710.90
Fire dampers, annualized	35.00	40.50	\$320.23	\$2,435.97	\$0.00	\$2,756.20	\$3,519.01	\$4,297.84
Fan, axial, 5,000 to 10,000 CFM, annualized	36.00	46.44	\$1,292.06	\$2,331.13	\$0.00	\$3,623.18	\$4,451.73	\$5,344.87
Centrifugal, over 1 HP, annualized	42.00	50.23	\$492.56	\$2,516.14	\$0.00	\$3,008.70	\$3,812.79	\$4,641.52
Controls, central system, electro/pneumatic, annualized	16.00	30.74	\$1,132.32	\$1,846.58	\$0.00	\$2,978.90	\$3,646.10	\$4,369.92
Extinguishing system, wet pipe, annualized	6.00	68.05	\$409.45	\$4,070.22	\$0.00	\$4,479.67	\$5,741.69	\$7,024.17
Extinguishing system, deluge / preaction, annualized	6.00	69.52	\$409.45	\$4,149.51	\$0.00	\$4,558.96	\$5,844.76	\$7,151.03
Fire pump, electric motor driven, annualized	4.00	191.01	\$212.31	\$11,364.90	\$0.00	\$11,577.21	\$15,007.91	\$18,449.23
Extinguishing system, dry pipe, annualized	16.00	208.30	\$1,957.30	\$12,404.48	\$0.00	\$14,361.78	\$18,278.85	\$22,293.79
Switchboard, with air circuit breaker, annualized	55.00	732.49	\$944.14	\$48,148.10	\$0.00	\$49,092.24	\$63,631.08	\$78,217.13
Circuit breaker, high voltage oil, annualized	55.00	47.02	\$6.80	\$3,105.41	\$0.00	\$3,112.21	\$4,044.52	\$4,977.16
Transformer, dry type 500 KVA and over, annualized	12.00	9.23	\$181.87	\$609.17	\$0.00	\$791.04	\$991.97	\$1,202.00
Panelboard, 225 A and above, annualized	58.00	25.58	\$1,345.45	\$1,682.46	\$0.00	\$3,027.92	\$3,667.20	\$4,373.76
Motor control center, over 400 A, annualized	20.00	7.78	\$463.95	\$518.00	\$0.00	\$981.95	\$1,183.74	\$1,408.74
Fire alarm annunciator system, annualized	2.00	22.10	\$358.79	\$1,305.36	\$0.00	\$1,664.15	\$2,091.63	\$2,537.06
Emergency diesel generator, turbine, annualized	10.00	166.33	\$1,340.30	\$9,842.00	\$0.00	\$11,182.30	\$14,268.93	\$17,422.58
Power stablizer, annualized	10.00	6.25	\$92.79	\$367.78	\$0.00	\$460.57	\$580.18	\$704.44
Uninterrupted power system, 200 KVA to 800 KVA, annualized	4.00	312.23	\$1,158.84	\$18,440.80	\$0.00	\$19,599.64	\$25,247.77	\$30,953.83
Light, emergency, hardwired system, annualized	500.00	125.00	\$3,866.25	\$7,381.50	\$0.00	\$11,247.75	\$13,848.83	\$16,643.21
Hydraulic lift, loading dock, annualized	35.00	57.12	\$862.37	\$1,946.49	\$0.00	\$2,808.86	\$3,479.04	\$4,192.34
Refrigerator freezer, walk-in box w/external condenser, annualized	3.00	4.40	\$622.28	\$150.70	\$0.00	\$772.97	\$880.41	\$1,018.96
Cathodic protection system, annualized	3.00	4.38	\$57.99	\$237.15	\$0.00	\$295.14	\$372.09	\$451.93
						\$352,042.81	\$441,181.74	\$534,439.15

FAC 6106 REMOTE DELIVERY FACILITY

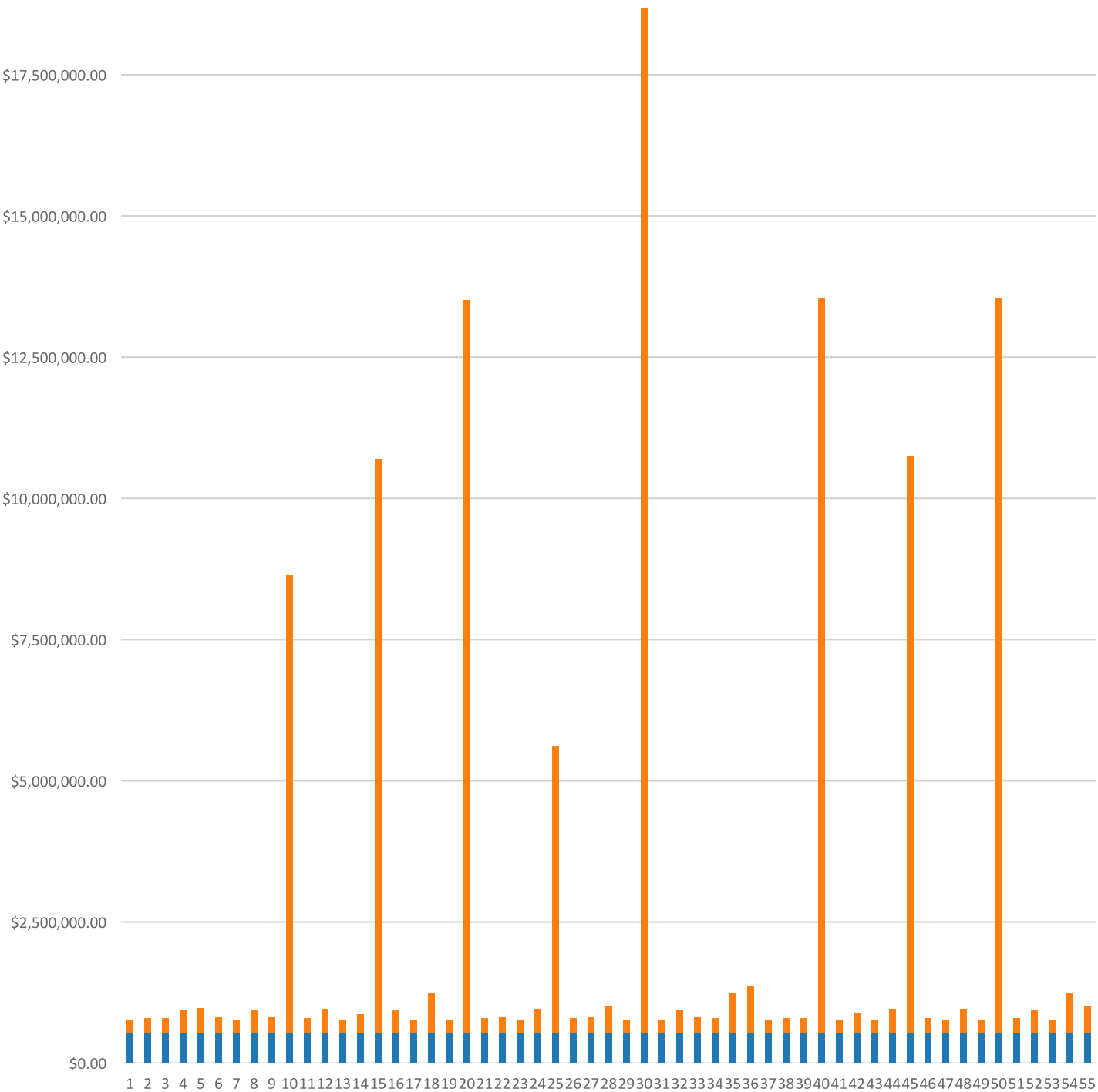
Modeled Component List

CostWorks Release 2021 Qtr 3

B20 Exterior Enclosure	
Steel, Painted	36.0 Ea.
Steel Single, Roll-Up	54.0 Ea.
B30 Roofing	
Modified Bituminous / Thermoplastic	1974.0 Sq.
C10 Interior Construction	
Concrete Block, Painted	710.0 C.S.F.
Steel Painted Interior Doors	130.0 Ea.
Solid Core Interior Doors	65.0 Ea.
Lockset, Brass	130.0 Ea.
Door Closer, Brass	195.0 Ea.
Panic Bar	195.0 Ea.
Toilet Partitions, painted metal	28.0 Ea.
Urinal Screen	10.0 Ea.
Metal Lockers	200.0 Ea.
Fire Doors, Swinging, annualized	260.0 Each
C30 Interior Finishes	
Tile	50.0 C.S.F.
Acoustic Tile, fire-rated	930.0 C.S.F.
D20 Plumbing	
Tankless Water Closet	28.0 Ea.
Urinal	10.0 Ea.
Lavatory, Vitreous China	32.0 Ea.
Shower, Terrazzo	20.0 Ea.
Drinking Fountain	20.0 Ea.
Emergency Eye Wash	14.0 Ea.
Valve, Non-Drain, 4"	1680.0 Ea.
Valve, Non-Drain, 10"	80.0 Ea.
Steam Converter, Domestic Hot Water	18.0 Ea.
D30 HVAC	
Cooling Tower, 1000 ton	5.0 Ea.
Chiller, Hermetic Centrifugal, 1000 ton	5.0 Ea.
Fan Coil, 5 ton	32.0 Ea.
Fan Coil, 10 ton	56.0 Ea.
Exhaust Fan, propeller exh., 4700 CFM	8.0 Ea.
Exhaust Fan, axial flow, 3800 CFM	6.0 Ea.
Exhaust Fan, axial flow, 6400 CFM	6.0 Ea.
Circulator Pump, 1 H.P.	42.0 Ea.
Terminal Reheat Coil, 12" x 24"	32.0 Ea.
Computer Room A/C Units, Chilled Water, 5 ton	12.0 Ea.
Central Station Air Conditioning Air Handling Unit, 16,000 CFM	5.0 Ea.
Central Station Air Conditioning Air Handling Unit, 63,000 CFM	25.0 Ea.
VAV Box	95.0 Each
D40 Fire Protection	
Sprinkler System, Fire Suppression, sprinkler head	3665.0 Ea.
Fire Pump Electric Motor	4.0 Ea.
Fire Pump, Electric, annualized	4.0 Each
Extinguishing system, dry pipe, annualized	16.0 Each
D50 Electrical	
Primary Transformer, Dry	12.0 Ea.
Switchgear, Mainframe	55.0 Ea.
Motor Starter, 600 V	20.0 Ea.

Circuit Breaker, enclosed, 600 V, 3 pole	100.0 Ea.
Manual Pull Station	72.0 Ea.
Fire Alarm Control Panel	16.0 Ea.
Annunciation Panel	2.0 Ea.
Electrical Service Ground	3.0 M.L.F.
Building Structure Ground	3.0 M.L.F.
Lightning Protection System	3.0 M.L.F.
Lightning Ground Rod	16.0 Ea.
Generator, Diesel, 750 KW	10.0 Ea.
Transfer Switch	10.0 Ea.
Emergency Lighting Fixture	144.0 Ea.
Exit Light	70.0 Ea.
UPS Battery, maintenance & inspection	60.0 Ea.
UPS Battery, replace motor	60.0 Ea.
UPS, 200 KVA to 800 KVA, annualized	4.0 Each
E10 Equipment	
Hydraulic Lift, Loading Dock, annualized	35.0 Each
Refrigerator freezer, walk-in, annualized	3.0 Each
G40 Site Electrical Utilities	
Cathodic Protection, annualized	3.0 Each

FAC 6106 REMOTE DELIVERY FACILITY
Sustainment by Year
CostWorks Release 2021 Qtr 3



PM Cost
MR Cost