

FAC 1721 FLIGHT SIMULATOR FACILITY

FY22 SUC: \$6.70 / SF
Source: Calculated using R.S. Means CostWorks 2021 Qtr 3
component prices

FAC 1721 FLIGHT SIMULATOR FACILITY

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM SF
Design Life 50
Average Size 14995.0

SUC \$6.70

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 central station A.H.U., 8000 CFM	10	1.00 Ea.	\$1,302.07	\$1,515.31	5.0000	5	4	\$7,576.53	\$6,061.23
Repair clay brick wall, 1st floor	25	6,603.00 S.F.	\$283,774.58	\$348,271.71	2.0000	2	2	\$696,543.42	\$696,543.42
Replace aluminum siding, 2nd floor	35	93.70 C.S.F.	\$67,083.76	\$81,246.36	1.4286	1	1	\$81,246.36	\$81,246.36
Refinish aluminum siding, 2nd floor	20	93.70 C.S.F.	\$26,308.75	\$32,557.10	2.5000	2	2	\$65,114.20	\$65,114.20
Replace glass - 1st floor, 1" insulating panel with heat reflective glass	30	1.00 S.F.	\$45.79	\$53.44	1.6667	1	1	\$53.44	\$53.44
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	48.00 Ea.	\$6,947.36	\$8,285.23	2.5000	2	2	\$16,570.46	\$16,570.46
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	48.00 Ea.	\$23,430.32	\$27,769.16	1.0000	1	1	\$27,769.16	\$27,769.16
Replace wax ring gasket for tankless water closet	5	5.00 Ea.	\$707.60	\$884.13	10.0000	10	10	\$8,841.32	\$8,841.32
Replace flush valve diaphragm for a urinal	7	3.00 Ea.	\$78.66	\$97.61	7.1429	7	7	\$683.25	\$683.25
Rebuild flush valve for a urinal	20	3.00 Ea.	\$541.30	\$652.37	2.5000	2	2	\$1,304.74	\$1,304.74
Unplug line urinal	5	3.00 Ea.	\$435.22	\$544.28	10.0000	10	10	\$5,442.84	\$5,442.84
Replace wall-hung urinal	35	3.00 Ea.	\$2,906.59	\$3,507.32	1.4286	1	1	\$3,507.32	\$3,507.32
Replace washer in spud connection lavatory, vitreous china	7	10.00 Ea.	\$164.63	\$200.80	7.1429	7	7	\$1,405.60	\$1,405.60
Replace washer in faucet lavatory, vitreous china	2	10.00 Ea.	\$128.85	\$160.52	25.0000	25	25	\$4,012.96	\$4,012.96
Replace faucets lavatory, vitreous china	10	10.00 Ea.	\$1,817.26	\$2,187.55	5.0000	5	5	\$10,937.77	\$10,937.77
Clean out strainer and P trap lavatory, vitreous china	2	10.00 Ea.	\$348.69	\$436.08	25.0000	25	25	\$10,901.98	\$10,901.98
Replace lavatory, vitreous china	35	10.00 Ea.	\$6,725.75	\$8,082.21	1.4286	1	1	\$8,082.21	\$8,082.21
Replace faucet washer sink, service/utility	2	1.00 Ea.	\$12.78	\$15.92	25.0000	25	25	\$397.90	\$397.90
Clean trap	3	1.00 Ea.	\$8.57	\$10.72	16.6667	16	16	\$171.50	\$171.50
Replace faucets sink, service/utility	10	1.00 Ea.	\$181.73	\$218.76	5.0000	5	5	\$1,093.78	\$1,093.78
Unstop sink	2	1.00 Ea.	\$41.82	\$52.30	25.0000	25	25	\$1,307.56	\$1,307.56
Replace sink, P.E.C.I. service/utility	35	1.00 Ea.	\$1,567.25	\$1,832.96	1.4286	1	1	\$1,832.96	\$1,832.96
Check / minor repairs drinking fountain	1	1.00 Ea.	\$48.88	\$61.13	50.0000	50	50	\$3,056.63	\$3,056.63
Repair internal leaks drinking fountain	4	1.00 Ea.	\$45.08	\$56.38	12.5000	12	12	\$676.53	\$676.53
Repair aluminum storefront door	12	4.00 Ea.	\$1,853.68	\$2,218.06	4.1667	4	4	\$8,872.23	\$8,872.23
Replace 3'-0" x 7'-0" aluminum storefront doors	50	4.00 Ea.	\$8,183.06	\$9,676.40	1.0000	1	1	\$9,676.40	\$9,676.40
Repair solid core, painted, door	12	20.00 Ea.	\$7,528.86	\$9,009.12	4.1667	4	4	\$36,036.49	\$36,036.49
Prepare and refinish solid core, painted, door	4	20.00 Ea.	\$1,066.15	\$1,295.79	12.5000	12	12	\$15,549.48	\$15,549.48
Replace 3'-0" x 7'-0" solid core, painted, door	40	20.00 Ea.	\$21,815.16	\$25,822.71	1.2500	1	1	\$25,822.71	\$25,822.71
Repair steel, painted, door	14	8.00 Ea.	\$5,000.59	\$5,952.05	3.5714	3	3	\$17,856.14	\$17,856.14

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Refinish 3'-0" x 7'-0" steel, painted, door	4	8.00 Ea.	\$331.20	\$406.93	12.5000	12	12	\$4,883.16	\$4,883.16
Replace 3'-0" x 7'-0" steel, painted, door	45	8.00 Ea.	\$5,640.51	\$6,557.85	1.1111	1	1	\$6,557.85	\$6,557.85
Repair 12' x 12' steel roll-up door	10	1.00 Ea.	\$675.90	\$802.22	5.0000	5	5	\$4,011.08	\$4,011.08
Refinish 12' x 12' steel roll-up door	5	1.00 Ea.	\$203.45	\$249.19	10.0000	10	10	\$2,491.89	\$2,491.89
Replace 12' x 12' steel roll-up door	35	1.00 Ea.	\$2,703.58	\$3,208.87	1.4286	1	1	\$3,208.87	\$3,208.87
Refinish 12' x 24' steel double roll-up door	5	2.00 Ea.	\$815.72	\$999.15	10.0000	10	10	\$9,991.53	\$9,991.53
Replace 12' x 24' steel double roll-up door	35	2.00 Ea.	\$10,814.33	\$12,835.47	1.4286	1	1	\$12,835.47	\$12,835.47
Debris removal, by hand and visual inspection, metal panel roofing	1	14.90 M.S.F.	\$339.48	\$414.07	50.0000	50	50	\$20,703.37	\$20,703.37
Minor metal roof finish repairs, 2% of roof area, metal panel roofing	5	299.30 S.F.	\$1,045.48	\$1,254.36	10.0000	10	10	\$12,543.56	\$12,543.56
Metal roof flashing replacement, 2 SF/sq repaired, metal panel roofing	1	13.00 S.F.	\$237.90	\$288.24	50.0000	50	50	\$14,412.11	\$14,412.11
Minor metal roof panel replacement, 2.5% of roof area	20	390.00 S.F.	\$4,456.77	\$5,293.11	2.5000	2	2	\$10,586.22	\$10,586.22
Total metal roof panel replacement	30	156.00 Sq.	\$131,842.87	\$156,158.53	1.6667	1	1	\$156,158.53	\$156,158.53
Repair 8" concrete block wall - (2% of walls) painted	25	19.20 C.S.F.	\$20,921.36	\$25,120.42	2.0000	2	2	\$50,240.85	\$50,240.85
Repair 5/8" drywall - (2% of walls)	20	344.00 S.F.	\$576.32	\$701.24	2.5000	2	2	\$1,402.48	\$1,402.48
Refinish drywall	4	17,200.00 S.F.	\$10,680.88	\$13,139.25	12.5000	12	12	\$157,671.06	\$157,671.06
Refinish concrete floor finished	25	90.00 C.S.F.	\$37,964.46	\$45,601.22	2.0000	2	2	\$91,202.45	\$91,202.45
Replace vinyl tile flooring	18	166.00 S.Y.	\$8,200.98	\$10,071.23	2.7778	2	2	\$20,142.45	\$20,142.45
Ceramic tile floor repairs - (2% of floors)	15	0.01 C.S.F.	\$6.33	\$7.89	3.3333	3	3	\$23.67	\$23.67
Replace 2" x 2" thin set ceramic tile floor	50	5.00 C.S.F.	\$6,118.22	\$7,385.47	1.0000	1	1	\$7,385.47	\$7,385.47
Replace carpet	8	333.00 S.Y.	\$18,320.44	\$21,157.79	6.2500	6	6	\$126,946.73	\$126,946.73
Replace flush valve diaphragm tankless water closet	10	5.00 Ea.	\$131.10	\$162.68	5.0000	5	5	\$813.40	\$813.40
Rebuild flush valve tankless water closet	20	5.00 Ea.	\$902.17	\$1,087.29	2.5000	2	2	\$2,174.57	\$2,174.57
Unplug clogged line tankless water closet	5	5.00 Ea.	\$1,091.98	\$1,365.63	10.0000	10	10	\$13,656.34	\$13,656.34
Replace tankless water closet	35	5.00 Ea.	\$6,431.11	\$7,442.48	1.4286	1	1	\$7,442.48	\$7,442.48
Replace tankless flush valve	25	5.00 Ea.	\$1,261.08	\$1,480.55	2.0000	2	2	\$2,961.10	\$2,961.10
Replace central station A.H.U., 8000 CFM	15	1.00 Ea.	\$36,431.80	\$42,017.17	3.3333	3	3	\$126,051.52	\$126,051.52
Inspect sprinkler system	1	1.00 Ea.	\$34.33	\$42.93	50.0000	50	50	\$2,146.43	\$2,146.43
Repair switchgear 1200 A mainframe	5	1.00 Ea.	\$1,904.54	\$2,227.57	10.0000	10	8	\$22,275.75	\$17,820.60
Maintenance and inspection switchgear, mainframe	1	1.00 Ea.	\$64.78	\$81.16	50.0000	50	50	\$4,057.80	\$4,057.80
Replace switchgear 1200 A mainframe	20	1.00 Ea.	\$4,350.12	\$5,225.48	2.5000	2	2	\$10,450.95	\$10,450.95
Maintenance and repair - (5% of total fuses) switchgear, indoor, 600 V	10	2.00 Ea.	\$826.33	\$949.40	5.0000	5	5	\$4,746.98	\$4,746.98

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Repair failed breaker, enclosed, 600 V, 3 pole	4	2.00 Ea.	\$1,474.50	\$1,715.22	12.5000	12	12	\$20,582.61	\$20,582.61
Maintenance and inspection circuit breaker, enclosed, 600 V, 3 pole	0.33	2.00 Ea.	\$64.78	\$81.16	151.5152	151	151	\$12,254.57	\$12,254.57
Replace circuit breaker enclosed, 600 V, 3 pole circuit breaker	50	2.00 Ea.	\$2,552.56	\$2,986.61	1.0000	1	1	\$2,986.61	\$2,986.61
Maintenance and repair receptacles and plugs	20	75.00 Ea.	\$3,168.26	\$3,955.40	2.5000	2	2	\$7,910.79	\$7,910.79
Replace receptacle/plug receptacles and plugs	20	75.00 Ea.	\$5,396.67	\$6,652.25	2.5000	2	2	\$13,304.50	\$13,304.50
Maintenance and repair wiring devices, switches	10	37.00 Ea.	\$1,563.01	\$1,951.33	5.0000	5	5	\$9,756.64	\$9,756.64
Replace wiring devices, switches	15	37.00 Ea.	\$2,418.98	\$3,005.21	3.3333	3	3	\$9,015.63	\$9,015.63
Replace fluorescent light fixture ballast, 80 W	10	220.00 Ea.	\$27,427.06	\$33,272.19	5.0000	5	3	\$166,360.96	\$99,816.58
Replace lamps (2 lamps), 4', 34 W energy saver	10	220.00 Ea.	\$5,547.08	\$6,947.37	5.0000	5	5	\$34,736.83	\$34,736.83
Replace fluorescent fixture, lay-in, recess mtd, 2' x 4', two 40 W	20	220.00 Ea.	\$50,036.15	\$61,031.33	2.5000	2	2	\$122,062.67	\$122,062.67
Repair smoke detector	10	7.00 Ea.	\$394.71	\$488.00	5.0000	5	4	\$2,439.99	\$1,951.99
Check operation smoke detector	1	7.00 Ea.	\$113.36	\$142.02	50.0000	50	50	\$7,101.16	\$7,101.16
Replace smoke detector	15	7.00 Ea.	\$1,989.66	\$2,376.23	3.3333	3	3	\$7,128.70	\$7,128.70
Check and repair manual pull station	10	3.00 Ea.	\$263.09	\$323.49	5.0000	5	4	\$1,617.45	\$1,293.96
Replace manual pull station	15	3.00 Ea.	\$610.40	\$734.82	3.3333	3	3	\$2,204.47	\$2,204.47
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.71	\$182.27	10.0000	10	10	\$1,822.75	\$1,822.75
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$43.18	\$54.10	100.0000	100	100	\$5,410.41	\$5,410.41
Replace fire alarm control panel	15	1.00 Ea.	\$1,953.46	\$2,391.92	3.3333	3	3	\$7,175.76	\$7,175.76
Maintenance and repair of general wiring lightning protection system	1	2.00 M.L.F.	\$193.45	\$239.65	50.0000	50	50	\$11,982.65	\$11,982.65
Replace lightning protection general wiring system	25	2.00 M.L.F.	\$22,018.24	\$26,191.98	2.0000	2	2	\$52,383.96	\$52,383.96
Repair boiler, gas, 2000 MBH	7	1.00 Ea.	\$5,785.82	\$6,733.75	7.1429	7	7	\$47,136.22	\$47,136.22
Replace boiler, gas, 2000 MBH	30	1.00 Ea.	\$39,838.14	\$46,620.21	1.6667	1	1	\$46,620.21	\$46,620.21
Repair feed water supply pump	15	1.00 Ea.	\$3,564.85	\$4,131.07	3.3333	3	3	\$12,393.21	\$12,393.21
Replace feed water pump	15	1.00 Ea.	\$24,968.01	\$28,633.35	3.3333	3	3	\$85,900.06	\$85,900.06
Replace metal flue, all fuel SS, 6" diameter metal flue / chimney	15	1.00 L.F.	\$129.05	\$149.45	3.3333	3	3	\$448.36	\$448.36
Repair cooling tower, 50 ton	10	1.00 Ea.	\$1,244.67	\$1,481.97	5.0000	5	4	\$7,409.84	\$5,927.87
Replace cooling tower, 50 ton	15	1.00 Ea.	\$16,033.09	\$18,465.51	3.3333	3	3	\$55,396.53	\$55,396.53
Repair water cooled chiller, 50 ton, reciprocating	10	1.00 Ea.	\$45,520.89	\$52,632.05	5.0000	5	5	\$263,160.26	\$263,160.26
Replace chiller, water cooled 50 ton, reciprocating	20	1.00 Ea.	\$52,675.18	\$61,378.40	2.5000	2	2	\$122,756.80	\$122,756.80
Replace fan coil, DX 20 ton, with heat	10	3.00 Ea.	\$39,819.39	\$47,490.56	5.0000	5	5	\$237,452.82	\$237,452.82
Replace roof mounted exhaust fan, 2000 CFM exhaust fan	20	1.00 Ea.	\$2,670.72	\$3,107.25	2.5000	2	2	\$6,214.50	\$6,214.50
Refill expansion tank	5	1.00 Ea.	\$14.83	\$18.54	10.0000	10	10	\$185.44	\$185.44
Replace expansion tank, 60 gal capacity	50	1.00 Ea.	\$2,901.94	\$3,327.45	1.0000	1	1	\$3,327.45	\$3,327.45
Repair damaged pipe insulation, fiberglass 3/4"	5	4.00 Ea.	\$75.76	\$93.26	10.0000	10	10	\$932.64	\$932.64

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Repair damaged pipe insulation, fiberglass 2"	5	2.00 Ea.	\$48.01	\$58.68	10.0000	10	10	\$586.76	\$586.76
Repair computer room A/C, chilled water, 5 ton	10	1.00 Ea.	\$7,987.62	\$9,348.50	5.0000	5	3	\$46,742.48	\$28,045.49
Replace computer room A/C, chilled water, 5 ton	20	1.00 Ea.	\$26,191.59	\$30,049.22	2.5000	2	2	\$60,098.44	\$60,098.44
Correct water pressure drinking fountain	2	1.00 Ea.	\$41.82	\$52.30	25.0000	25	25	\$1,307.56	\$1,307.56
Replace refrigerant drinking fountain	2	1.00 Ea.	\$32.68	\$38.27	25.0000	25	25	\$956.73	\$956.73
Repair drain leak drinking fountain	4	1.00 Ea.	\$33.92	\$40.53	12.5000	12	10	\$486.42	\$405.35
Replace fountain drinking fountain	10	1.00 Ea.	\$1,281.16	\$1,514.56	5.0000	5	5	\$7,572.79	\$7,572.79
Replace pipe and fittings, copper 3/4"	20	42.00 L.F.	\$1,094.26	\$1,318.07	2.5000	2	2	\$2,636.14	\$2,636.14
Replace pipe and fittings, copper 2"	25	21.00 L.F.	\$1,291.18	\$1,536.05	2.0000	2	2	\$3,072.09	\$3,072.09
Drain and flush water heater, electric, 120 gallon	7	1.00 Ea.	\$294.38	\$368.15	7.1429	7	7	\$2,577.08	\$2,577.08
Check operation water heater, electric, 300 gallon	3	1.00 Ea.	\$2.59	\$3.23	16.6667	16	16	\$51.73	\$51.73
Replace water heater, electric, 300 gallon	15	1.00 Ea.	\$81,101.11	\$92,341.54	3.3333	3	3	\$277,024.61	\$277,024.61
Repair joint pipe and fittings, PVC	10	300.00 Ea.	\$45,387.49	\$56,399.87	5.0000	5	5	\$281,999.34	\$281,999.34
Replace pipe, 4" pipe and fittings, PVC	30	2.00 L.F.	\$163.18	\$200.77	1.6667	1	1	\$200.77	\$200.77
Clean floor drain w/o bucket	4	1.00 Ea.	\$117.32	\$146.72	12.5000	12	12	\$1,760.62	\$1,760.62
Replace floor drain w/o bucket	40	1.00 Ea.	\$2,160.71	\$2,479.87	1.2500	1	1	\$2,479.87	\$2,479.87
General maintenance & repair distribution: gutters, pipe	1	1.00 M.L.F.	\$302.04	\$377.73	50.0000	50	50	\$18,886.57	\$18,886.57
Replace pipe or gutter distribution	20	1.00 L.F.	\$44.84	\$55.13	2.5000	2	2	\$110.27	\$110.27
General maintenance & repair drain: roof, scupper, area	1	1.00 Ea.	\$36.99	\$46.26	50.0000	50	50	\$2,312.85	\$2,312.85
Replace drain: roof, scupper, area	40	1.00 Ea.	\$786.93	\$912.36	1.2500	1	1	\$912.36	\$912.36
Maintenance and repair lightning ground rod	1	8.00 Ea.	\$703.11	\$878.30	50.0000	50	48	\$43,914.86	\$42,158.27
Replace lightning ground rod	25	8.00 Ea.	\$1,808.72	\$2,242.32	2.0000	2	2	\$4,484.65	\$4,484.65
Maintenance and inspection generator, gasoline, 175 KW	0.08	1.00 Ea.	\$64.78	\$81.16	625.0000	625	625	\$50,722.56	\$50,722.56
Replace generator component gasoline, 175 KW	25	1.00 Ea.	\$90,918.17	\$104,263.04	2.0000	2	2	\$208,526.09	\$208,526.09
Refinish concrete block wall painted	4	130.00 C.S.F.	\$13,119.43	\$15,975.47	12.5000	12	12	\$191,705.58	\$191,705.58
			\$1,423,060.90	\$1,696,121.79				MR Subtotal	\$4,485,879.70
								MR Per Year	\$89,582.92
								PM Total	\$10,948.29
								Subtotal	\$100,531.21
								Total Per Unit	\$6.70

FAC 1721 FLIGHT SIMULATOR FACILITY

Release 2021 Qtr 3

Zip Code Prefix 222

Type PM

SUC \$6.70

UM SF

Design Life 50

Average Size 14995.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	9.00	2.34	\$131.33	\$96.74	\$0.00	\$228.07	\$270.23	\$318.95
Door, overhead, electric, roll up, to 24' high x 25' wide, annualized	3.00	12.21	\$122.88	\$506.43	\$0.00	\$629.31	\$793.53	\$963.89
Fire doors, swinging, annualized	20.00	7.84	\$286.42	\$291.15	\$0.00	\$577.58	\$693.56	\$823.87
Urinals, annualized	3.00	0.68	\$18.96	\$34.36	\$0.00	\$53.32	\$65.52	\$78.67
Toilet (vacuum breaker type), annualized	7.00	1.24	\$59.09	\$62.29	\$0.00	\$121.38	\$145.97	\$173.52
Lavatories, annualized	11.00	3.83	\$65.61	\$227.74	\$0.00	\$293.35	\$368.24	\$446.40
Drink fountain, annualized	1.00	0.62	\$20.73	\$31.28	\$0.00	\$52.00	\$63.46	\$75.95
Boiler, hot water, oil, gas, or comb. fired, 500 -1000 MBH, annualized	1.00	17.38	\$77.34	\$1,057.20	\$0.00	\$1,134.54	\$1,459.44	\$1,788.20
Water cooling tower, up to 50 tons, annualized	1.00	4.55	\$26.29	\$273.11	\$0.00	\$299.40	\$383.96	\$469.83
Chiller, recip., water cooled, up to 50 tons, annualized	1.00	7.94	\$27.30	\$480.14	\$0.00	\$507.44	\$654.22	\$802.35
Air handling unit, 25 thru 50 tons, annualized	1.00	1.94	\$379.12	\$97.79	\$0.00	\$476.92	\$544.17	\$630.37
VAV Boxes, annualized	10.00	9.34	\$96.04	\$563.84	\$0.00	\$659.88	\$838.64	\$1,022.20
Controls, central system, electro/pneumatic, annualized	1.00	1.92	\$70.77	\$115.41	\$0.00	\$186.18	\$227.88	\$273.12
Circuit breaker, high voltage air, annualized	2.00	0.94	\$30.31	\$62.16	\$0.00	\$92.47	\$114.15	\$137.35
Emergency diesel or gas generator, over 15 KVA, annualized	1.00	16.15	\$86.09	\$953.12	\$0.00	\$1,039.21	\$1,333.75	\$1,632.60
Light, emergency, hardwired system, annualized	37.00	9.25	\$286.10	\$546.23	\$0.00	\$832.33	\$1,024.81	\$1,231.60
Storage tank, ground level, annualized	1.00	0.72	\$18.38	\$35.27	\$0.00	\$53.65	\$66.07	\$79.41
						\$7,237.03	\$9,047.59	\$10,948.29

FAC 1721 FLIGHT SIMULATOR FACILITY

Modeled Component List

CostWorks Release 2021 Qtr 3

B20 Exterior Enclosure

Aluminum Siding, 2nd floor	93.7 C.S.F.
Aluminum Window, Fixed, 1st floor	48.0 Ea.
Glazed Aluminum	4.0 Ea.
Solid Core, Painted	20.0 Ea.
Steel, Painted	8.0 Ea.
Steel Single, Roll-Up	1.0 Ea.
Steel Double, Roll-Up	2.0 Ea.

D20 Plumbing

Urinal	3.0 Ea.
Lavatory, Vitreous China	10.0 Ea.
Service/Utility Sink	1.0 Ea.
Tankless Water Closet	5.0 Ea.
Drinking Fountain	1.0 Ea.
Water Heater, Electric, 300 Gallon	1.0 Ea.
Floor Drain W/O Bucket	1.0 Ea.
Drain: Roof, Scupper, Area	1.0 Ea.

B30 Roofing

Metal Steep Roofing	156.0 Sq.
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C30 Interior Finishes

Concrete, Finished	90.0 C.S.F.
Vinyl	166.0 S.Y.
Carpet	333.0 S.Y.

D30 HVAC

Central Station Air Conditioning Air Handling Unit, 8000 CFM	1.0 Ea.
Boiler, Gas, 2000 MBH	1.0 Ea.
Feed Water Supply	1.0 Ea.
Metal Flue / Chimney, 6" diameter	1.0 L.F.
Cooling Tower, 50 ton	1.0 Ea.
Chiller, Water Cooled, Reciprocating, 50 ton	1.0 Ea.
Fan Coil, DX Air Conditioner W/ Heat, 20 ton	3.0 Ea.
Exhaust Fan, roof mounted exhaust fan, 2000 CFM exhaust	1.0 Ea.
Expansion Tank	1.0 Ea.
Computer Room A/C Units, Chilled Water, 5 ton	1.0 Ea.
VAV Box	10.0 Each

D50 Electrical

Switchgear, Mainframe	1.0 Ea.
Circuit Breaker, enclosed, 600 V, 3 pole	2.0 Ea.
Fluorescent Lighting Fixture	220.0 Ea.
Smoke Detector	7.0 Ea.
Manual Pull Station	3.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Lightning Protection System	2.0 M.L.F.
Lightning Ground Rod	8.0 Ea.
Generator, Gasoline, 175 KW	1.0 Ea.

C10 Interior Construction

Concrete Block, Painted	130.0 C.S.F.
Fire Doors, Swinging, annualized	20.0 Each

G30 Site Mechanical Utilities

Storage Tank Ground Level, annualized	1.0 Each
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FAC 1721 FLIGHT SIMULATOR FACILITY
Sustainment by Year
CostWorks Release 2021 Qtr 3

