

FAC 4321 COLD STORAGE, INSTALLATION

FY22 SUC: \$4.64 / SF
Source: Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 4321 COLD STORAGE, INSTALLATION

SUC \$4.64

Release 2021 Qtr 3
Zip Code Prefix 222
Type MRUM SF
Design Life 45
Average Size 9135.0

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
Rebuild flush valve tankless water closet	20	6.00 Ea.	\$1,082.60	\$1,304.74	2.2500	2	2	\$2,609.49	\$2,609.49
Unplug clogged line tankless water closet	5	6.00 Ea.	\$1,310.37	\$1,638.76	9.0000	9	9	\$14,748.85	\$14,748.85
Replace tankless water closet	35	6.00 Ea.	\$7,717.33	\$8,930.97	1.2857	1	1	\$8,930.97	\$8,930.97
Replace tankless flush valve	25	6.00 Ea.	\$1,513.29	\$1,776.66	1.8000	1	1	\$1,776.66	\$1,776.66
Replace wax ring gasket for tankless water closet	5	6.00 Ea.	\$849.12	\$1,060.96	9.0000	9	9	\$9,548.63	\$9,548.63
Replace flush valve diaphragm for a urinal	7	2.00 Ea.	\$52.44	\$65.07	6.4286	6	6	\$390.43	\$390.43
Rebuild flush valve for a urinal	20	2.00 Ea.	\$360.87	\$434.91	2.2500	2	2	\$869.83	\$869.83
Unplug line urinal	5	2.00 Ea.	\$290.14	\$362.86	9.0000	9	9	\$3,265.70	\$3,265.70
Replace wall-hung urinal	35	2.00 Ea.	\$1,937.73	\$2,338.21	1.2857	1	1	\$2,338.21	\$2,338.21
Replace washer in spud connection lavatory, vitreous china	7	6.00 Ea.	\$98.78	\$120.48	6.4286	6	6	\$722.88	\$722.88
Replace washer in faucet lavatory, vitreous china	2	6.00 Ea.	\$77.31	\$96.31	22.5000	22	22	\$2,118.84	\$2,118.84
Replace faucets lavatory, vitreous china	10	6.00 Ea.	\$1,090.36	\$1,312.53	4.5000	4	4	\$5,250.13	\$5,250.13
Clean out strainer and P trap lavatory, vitreous china	2	6.00 Ea.	\$209.22	\$261.65	22.5000	22	22	\$5,756.24	\$5,756.24
Replace lavatory, vitreous china	35	6.00 Ea.	\$4,035.45	\$4,849.33	1.2857	1	1	\$4,849.33	\$4,849.33
Replace faucet washer sink, iron enamel	2	1.00 Ea.	\$12.78	\$15.92	22.5000	22	22	\$350.15	\$350.15
Clean trap sink, iron enamel	3	1.00 Ea.	\$8.57	\$10.72	15.0000	15	15	\$160.78	\$160.78
Replace faucets sink, iron enamel	10	1.00 Ea.	\$181.73	\$218.76	4.5000	4	4	\$875.02	\$875.02
Unstop sink, iron enamel	2	1.00 Ea.	\$41.82	\$52.30	22.5000	22	22	\$1,150.65	\$1,150.65
Replace sink, P.E.C.I. sink, iron enamel kitchen	10	1.00 Ea.	\$636.70	\$757.51	4.5000	4	4	\$3,030.04	\$3,030.04
Check / minor repairs drinking fountain	1	2.00 Ea.	\$97.76	\$122.27	45.0000	45	45	\$5,501.93	\$5,501.93
Repair internal leaks drinking fountain	4	2.00 Ea.	\$90.16	\$112.76	11.2500	11	11	\$1,240.31	\$1,240.31
Correct water pressure drinking fountain	2	2.00 Ea.	\$83.64	\$104.60	22.5000	22	22	\$2,301.30	\$2,301.30
Replace refrigerant drinking fountain	2	2.00 Ea.	\$65.37	\$76.54	22.5000	22	22	\$1,683.85	\$1,683.85
Repair drain leak drinking fountain	4	2.00 Ea.	\$67.83	\$81.07	11.2500	11	9	\$891.76	\$729.62
Replace fountain drinking fountain	10	2.00 Ea.	\$2,562.31	\$3,029.12	4.5000	4	4	\$12,116.47	\$12,116.47
Inspect and clean shower head emergency shower station	3	1.00 Ea.	\$49.39	\$61.77	15.0000	15	15	\$926.57	\$926.57
Replace shower emergency shower station	25	1.00 Ea.	\$941.97	\$1,129.12	1.8000	1	1	\$1,129.12	\$1,129.12
Inspect and clean spray heads, emergency eye wash	3	1.00 Ea.	\$49.39	\$61.77	15.0000	15	15	\$926.57	\$926.57
Replace eye wash station, emergency eye wash	25	1.00 Ea.	\$1,114.34	\$1,325.00	1.8000	1	1	\$1,325.00	\$1,325.00
Remove old insulation & replace with new, pipe 3/4", wall 1"	15	16.00 L.F.	\$133.73	\$165.15	3.0000	3	3	\$495.46	\$495.46

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Inspect / check pump / motor operation, lubricate circulation pump, 1/12 HP	0.5	2.00 Ea.	\$16.06	\$20.08	90.0000	90	90	\$1,807.08	\$1,807.08
Replace pump / motor assembly circulation pump, 1/12 HP	10	2.00 Ea.	\$2,201.15	\$2,579.99	4.5000	4	4	\$10,319.96	\$10,319.96
Unclog floor drain, PVC	20	1.00 Ea.	\$47.80	\$59.77	2.2500	2	2	\$119.55	\$119.55
Repair joint pipe and fittings, PVC	10	1.00 Ea.	\$151.29	\$188.00	4.5000	4	4	\$752.00	\$752.00
Replace pipe, 4" pipe and fittings, PVC	30	16.00 L.F.	\$1,305.42	\$1,606.15	1.5000	1	1	\$1,606.15	\$1,606.15
General maintenance & repair drain: roof, scupper, area	1	2.00 Ea.	\$73.98	\$92.51	45.0000	45	45	\$4,163.13	\$4,163.13
Replace drain: roof, scupper, area	40	2.00 Ea.	\$1,573.86	\$1,824.72	1.1250	1	1	\$1,824.72	\$1,824.72
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 single zone rooftop unit, 5 ton	10	1.00 Ea.	\$2,372.90	\$2,849.79	4.5000	4	4	\$11,399.16	\$11,399.16
Replace single zone rooftop unit, 5 ton	15	1.00 Ea.	\$8,500.58	\$10,094.10	3.0000	3	3	\$30,282.30	\$30,282.30
Repair single zone rooftop unit, 25 ton	10	1.00 Ea.	\$47,397.42	\$54,623.55	4.5000	4	3	\$218,494.20	\$163,870.65
Replace single zone rooftop unit, 25 ton	15	1.00 Ea.	\$51,343.17	\$59,585.52	3.0000	3	3	\$178,756.56	\$178,756.56
Repair central station A.H.U., 5400 CFM	10	1.00 Ea.	\$827.08	\$970.82	4.5000	4	3	\$3,883.28	\$2,912.46
Replace central station A.H.U., 5400 CFM	15	1.00 Ea.	\$23,424.06	\$27,083.63	3.0000	3	3	\$81,250.90	\$81,250.90
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	40.00 Ea.	\$3,420.91	\$4,207.58	2.2500	2	2	\$8,415.16	\$8,415.16
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
Repair switchgear 1200 A mainframe	5	1.00 Ea.	\$1,904.54	\$2,227.57	9.0000	9	7	\$20,048.17	\$15,593.02
Maintenance and inspection switchgear, mainframe	1	1.00 Ea.	\$64.78	\$81.16	45.0000	45	45	\$3,652.02	\$3,652.02
Replace switchgear 1200 A mainframe	20	1.00 Ea.	\$4,350.12	\$5,225.48	2.2500	2	2	\$10,450.95	\$10,450.95
Replace fuse	25	56.00 Ea.	\$23,137.20	\$26,583.10	1.8000	1	1	\$26,583.10	\$26,583.10
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
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 repair secondary transformer, dry	10	4.00 Ea.	\$929.76	\$1,113.07	4.5000	4	4	\$4,452.26	\$4,452.26
Maintenance and inspection secondary transformer, dry	0.5	4.00 Ea.	\$322.61	\$404.19	90.0000	90	90	\$36,377.03	\$36,377.03
Maintenance and inspection lighting panel, indoor	3	1.00 Ea.	\$40.64	\$50.92	15.0000	15	15	\$763.82	\$763.82
Maintenance and inspection circuit breaker, molded case, 480 V, 1 pole	0.5	6.00 Ea.	\$194.33	\$243.47	90.0000	90	90	\$21,912.15	\$21,912.15
Replace circuit breaker molded case, 480 V, 1 pole circuit breaker	50	6.00 Ea.	\$3,289.73	\$3,832.23	0.9000	0	0	\$0.00	\$0.00
Repair failed breaker, molded case, 600 V, 3 pole	10	1.00 Ea.	\$372.07	\$442.63	4.5000	4	4	\$1,770.52	\$1,770.52

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 inspection circuit breaker, molded case, 600 V, 3 pole	0.33	1.00 Ea.	\$32.39	\$40.58	136.3636	136	136	\$5,518.61	\$5,518.61
Replace circuit breaker molded case, 600 V, 3 pole circuit breaker	50	1.00 Ea.	\$5,188.92	\$5,939.49	0.9000	0	0	\$0.00	\$0.00
Replace safety switch, heavy duty 30 A	25	6.00 Ea.	\$3,458.09	\$4,142.64	1.8000	1	1	\$4,142.64	\$4,142.64
Replace 4-pin receptacle	20	65.00 Ea.	\$9,506.29	\$11,300.30	2.2500	2	2	\$22,600.61	\$22,600.61
Replace wiring devices, switches	15	23.00 Ea.	\$1,503.69	\$1,868.10	3.0000	3	3	\$5,604.31	\$5,604.31
Replace fluorescent light fixture ballast, 80 W	10	25.00 Ea.	\$3,116.71	\$3,780.93	4.5000	4	4	\$15,123.72	\$15,123.72
Replace lamps (2 lamps), 4', 34 W energy saver	10	25.00 Ea.	\$630.35	\$789.47	4.5000	4	4	\$3,157.89	\$3,157.89
Replace metal halide ballast, 175 W	10	15.00 Ea.	\$2,227.27	\$2,674.51	4.5000	4	4	\$10,698.06	\$10,698.06
Replace metal halide fixture lamp, 175 W	5	15.00 Ea.	\$749.81	\$917.30	9.0000	9	9	\$8,255.74	\$8,255.74
Repair smoke detector	10	17.00 Ea.	\$958.59	\$1,185.14	4.5000	4	3	\$4,740.56	\$3,555.42
Check operation smoke detector	1	17.00 Ea.	\$275.30	\$344.91	45.0000	45	45	\$15,521.10	\$15,521.10
Replace smoke detector	15	17.00 Ea.	\$4,832.03	\$5,770.85	3.0000	3	3	\$17,312.56	\$17,312.56
Check and repair manual pull station	10	4.00 Ea.	\$350.79	\$431.32	4.5000	4	3	\$1,725.28	\$1,293.96
Replace manual pull station	15	4.00 Ea.	\$813.87	\$979.76	3.0000	3	3	\$2,939.29	\$2,939.29
Replace fire alarm bell, 6"	20	4.00 Ea.	\$779.85	\$941.10	2.2500	2	2	\$1,882.20	\$1,882.20
Remove and replace hydraulic dock leveler lift cylinder	15	1.00 Ea.	\$8,493.80	\$9,670.61	3.0000	3	3	\$29,011.82	\$29,011.82
Remove and replace hydraulic dock leveler hydraulic pump	20	1.00 Ea.	\$1,741.46	\$1,993.26	2.2500	2	2	\$3,986.51	\$3,986.51
Repair 8" concrete block wall, 1st floor	25	1,127.00 S.F.	\$27,290.10	\$33,385.38	1.8000	1	1	\$33,385.38	\$33,385.38
Waterproof concrete block wall, 2nd floor	10	12.70 C.S.F.	\$9,732.50	\$11,611.60	4.5000	4	4	\$46,446.41	\$46,446.41
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	0.36 S.F.	\$4.34	\$5.10	45.0000	45	45	\$229.58	\$229.58
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	18.00 Ea.	\$2,605.26	\$3,106.96	2.2500	2	2	\$6,213.92	\$6,213.92
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	18.00 Ea.	\$8,786.37	\$10,413.44	0.9000	0	0	\$0.00	\$0.00
Repair 2'-0" x 3'-0" aluminum window - 2nd floor	20	12.00 Ea.	\$2,295.83	\$2,765.47	2.2500	2	2	\$5,530.94	\$5,530.94
Replace 2'-0" x 3'-0" aluminum window - 2nd floor	50	12.00 Ea.	\$6,416.57	\$7,636.45	0.9000	0	0	\$0.00	\$0.00
Repair steel, painted, door	14	1.00 Ea.	\$625.07	\$744.01	3.2143	3	3	\$2,232.02	\$2,232.02
Refinish 3'-0" x 7'-0" steel, painted, door	4	1.00 Ea.	\$41.40	\$50.87	11.2500	11	11	\$559.53	\$559.53
Replace 3'-0" x 7'-0" steel, painted, door	45	1.00 Ea.	\$705.06	\$819.73	1.0000	1	1	\$819.73	\$819.73
Repair 12' x 12' steel roll-up door	10	3.00 Ea.	\$2,027.69	\$2,406.65	4.5000	4	4	\$9,626.60	\$9,626.60
Replace 12' x 12' steel roll-up door	35	3.00 Ea.	\$8,110.75	\$9,626.60	1.2857	1	1	\$9,626.60	\$9,626.60
Debris removal and visual inspection of built-up roofing	0.5	8.12 M.S.F.	\$305.87	\$373.07	90.0000	90	90	\$33,576.46	\$33,576.46
Non-destructive moisture inspection of built-up roofing	5	8.12 M.S.F.	\$949.10	\$1,157.62	9.0000	9	9	\$10,418.58	\$10,418.58
Minor BUR membrane repairs, 2% of roof area	1	1.72 Sq.	\$833.68	\$989.31	45.0000	45	45	\$44,518.81	\$44,518.81
BUR flashing repairs, 2 S.F. per sq. repaired	1	3.44 S.F.	\$12.05	\$14.63	45.0000	45	45	\$658.30	\$658.30

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
Minor BUR membrane replacement, 25% of roof area	15	21.52 Sq.	\$17,319.05	\$20,558.34	3.0000	3	3	\$61,675.03	\$61,675.03	
Total BUR roof replacement	28	91.00 Sq.	\$70,948.15	\$83,900.40	1.6071	1	1	\$83,900.40	\$83,900.40	
Replace galvanized smoke hatch single unit 4' x 4'	40	2.00 Ea.	\$4,389.57	\$5,034.85	1.1250	1	1	\$5,034.85	\$5,034.85	
Repair steel painted interior door	14	3.00 Ea.	\$880.36	\$1,024.69	3.2143	3	3	\$3,074.08	\$3,074.08	
Refinish 3'-0" x 7'-0" steel painted interior door	4	3.00 Ea.	\$157.76	\$194.36	11.2500	11	11	\$2,137.95	\$2,137.95	
Replace 3'-0" x 7'-0" steel painted interior door	60	3.00 Ea.	\$3,654.10	\$4,236.25	0.7500	0	0	\$0.00	\$0.00	
Repair solid core wood door, interior	11	7.00 Ea.	\$2,054.17	\$2,390.95	4.0909	4	4	\$9,563.79	\$9,563.79	
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	7.00 Ea.	\$303.55	\$372.75	11.2500	11	10	\$4,100.22	\$3,727.48	
Replace 3'-0" x 7'-0" solid core wood door, interior	40	7.00 Ea.	\$3,425.99	\$3,960.67	1.1250	1	1	\$3,960.67	\$3,960.67	
Repair 5/8" drywall - (2% of walls)	20	41.98 S.F.	\$70.33	\$85.58	2.2500	2	2	\$171.15	\$171.15	
Refinish drywall	4	2,099.00 S.F.	\$1,303.44	\$1,603.45	11.2500	11	11	\$17,637.92	\$17,637.92	
Replace 5/8" drywall	75	2,099.00 S.F.	\$4,891.95	\$5,986.78	0.6000	0	0	\$0.00	\$0.00	
Refinish concrete floor finished	25	75.97 C.S.F.	\$32,046.22	\$38,492.50	1.8000	1	1	\$38,492.50	\$38,492.50	
Replace vinyl tile flooring	18	35.89 S.Y.	\$1,773.09	\$2,177.45	2.5000	2	2	\$4,354.90	\$4,354.90	
Replace rubber tile floor	18	42.00 S.Y.	\$8,149.07	\$9,616.59	2.5000	2	2	\$19,233.18	\$19,233.18	
Repair gypsum board ceiling - (2% of ceilings)	20	0.06 C.S.F.	\$23.18	\$28.46	2.2500	2	2	\$56.91	\$56.91	
Refinish gypsum board ceiling, up to 12' high	20	3.23 C.S.F.	\$416.97	\$515.45	2.2500	2	1	\$1,030.91	\$515.45	
Replace gypsum board ceiling, up to 12' high	40	3.23 C.S.F.	\$1,199.30	\$1,472.73	1.1250	1	1	\$1,472.73	\$1,472.73	
Replace acoustic tile ceiling, fire-rated	20	6.89 C.S.F.	\$3,611.93	\$4,257.24	2.2500	2	2	\$8,514.47	\$8,514.47	
Replace flush valve diaphragm tankless water closet	10	6.00 Ea.	\$157.32	\$195.22	4.5000	4	4	\$780.86	\$780.86	
			\$495,207.72	\$584,524.13				MR Subtotal	\$1,466,936.61	
									MR Per Year	\$32,545.47
									PM Total	\$9,837.35
									Subtotal	\$42,382.82
									Total Per Unit	\$4.64

FAC 4321 COLD STORAGE, INSTALLATION

SUC \$4.64

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 45

Type PM

Average Size 9135.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	2.00	0.52	\$29.18	\$21.50	\$0.00	\$50.68	\$60.05	\$70.88
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	3.00	1.18	\$42.96	\$43.67	\$0.00	\$86.64	\$104.03	\$123.58
Urinals, annualized	2.00	0.46	\$12.64	\$22.91	\$0.00	\$35.54	\$43.68	\$52.45
Toilet (vacuum breaker type), annualized	6.00	1.06	\$50.65	\$53.39	\$0.00	\$104.04	\$125.12	\$148.74
Lavatories, annualized	6.00	2.09	\$35.79	\$124.22	\$0.00	\$160.01	\$200.86	\$243.49
Drink fountain, annualized	2.00	1.24	\$41.45	\$62.55	\$0.00	\$104.00	\$126.91	\$151.90
Boiler, hot water, oil, gas, or comb. fired, up to 120 MBH, annualized	1.00	12.53	\$77.34	\$753.25	\$0.00	\$830.60	\$1,064.31	\$1,301.88
Fan, axial, up to 5,000 CFM, annualized	2.00	2.49	\$23.46	\$125.10	\$0.00	\$148.56	\$188.43	\$229.48
Fan, centrifugal, up to 5,000 CFM, annualized	2.00	2.16	\$71.78	\$108.36	\$0.00	\$180.14	\$219.83	\$263.11
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
Dehumidifier, desiccant wheel, annualized	2.00	10.12	\$146.59	\$507.46	\$0.00	\$654.05	\$820.95	\$995.17
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
Switchboard, annualized	6.00	4.21	\$23.94	\$276.61	\$0.00	\$300.55	\$385.93	\$472.50
Circuit breaker, high voltage air, annualized	6.00	2.82	\$90.93	\$186.48	\$0.00	\$277.41	\$342.45	\$412.04
Transformer, dry type 500 KVA and over, annualized	4.00	3.08	\$60.62	\$203.06	\$0.00	\$263.68	\$330.66	\$400.67
Panelboard, 225 A and above, annualized	4.00	1.76	\$92.79	\$116.03	\$0.00	\$208.82	\$252.91	\$301.64
Motor control center, over 400 A, annualized	1.00	0.39	\$23.20	\$25.90	\$0.00	\$49.10	\$59.19	\$70.44
Light, emergency, hardwired system, annualized	1.00	0.25	\$7.73	\$14.76	\$0.00	\$22.50	\$27.70	\$33.29
Hydraulic lift, loading dock, annualized	1.00	1.63	\$24.64	\$55.61	\$0.00	\$80.25	\$99.40	\$119.78
Refrigerator freezer, walk-in box w/external condenser, annualized	4.00	5.86	\$829.70	\$200.93	\$0.00	\$1,030.63	\$1,173.88	\$1,358.61
						\$6,639.17	\$8,182.17	\$9,837.35

FAC 4321 COLD STORAGE, INSTALLATION

Modeled Component List

CostWorks Release 2021 Qtr 3

D20 Plumbing

Tankless Water Closet	6.0 Ea.
Urinal	2.0 Ea.
Lavatory, Vitreous China	6.0 Ea.
Sink, Iron Enamel	1.0 Ea.
Drinking Fountain	2.0 Ea.
Emergency Shower Station	1.0 Ea.
Emergency Eye Wash	1.0 Ea.
Circulation Pump, 1/12 HP	2.0 Ea.
Drain: Roof, Scupper, Area	2.0 Ea.

D30 HVAC

Boiler, Gas, 250 MBH	1.0 Ea.
Single Zone Air Conditioner, 5 ton	1.0 Ea.
Single Zone Air Conditioner, 25 ton	1.0 Ea.
Central Station Air Conditioning Air Handling Unit, 5400 CFM	1.0 Ea.

D40 Fire Protection

Sprinkler System, Fire Supression, sprinkler head	40.0 Ea.
Sprinkler System, Fire Supression , 3" backflow preventer	1.0 Ea.

D50 Electrical

Switchgear, Mainframe	1.0 Ea.
Motor Starter, Up To 600 V	6.0 Ea.
Load Center, 100 A, maintenance & inspection	1.0 Ea.
Circuit Breaker, molded case, 480 V, 1 pole	6.0 Ea.
Circuit Breaker, molded case, 600 V, 3 pole	1.0 Ea.
Safety Switch, Heavy Duty	6.0 Ea.
Smoke Detector	17.0 Ea.
Manual Pull Station	4.0 Ea.
Fire Alarm Bell	4.0 Ea.

B20 Exterior Enclosure

Aluminum Window, Fixed, 1st floor	18.0 Ea.
Aluminum Window, Fixed, 2nd floor	12.0 Ea.
Steel, Painted	1.0 Ea.
Steel Single, Roll-Up	3.0 Ea.

B30 Roofing

Built-Up Roofing	91.0 Sq.
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C10 Interior Construction

Steel Painted Interior Doors	3.0 Ea.
Solid Core Interior Doors	7.0 Ea.
Fire Doors, Swinging, annualized	3.0 Each

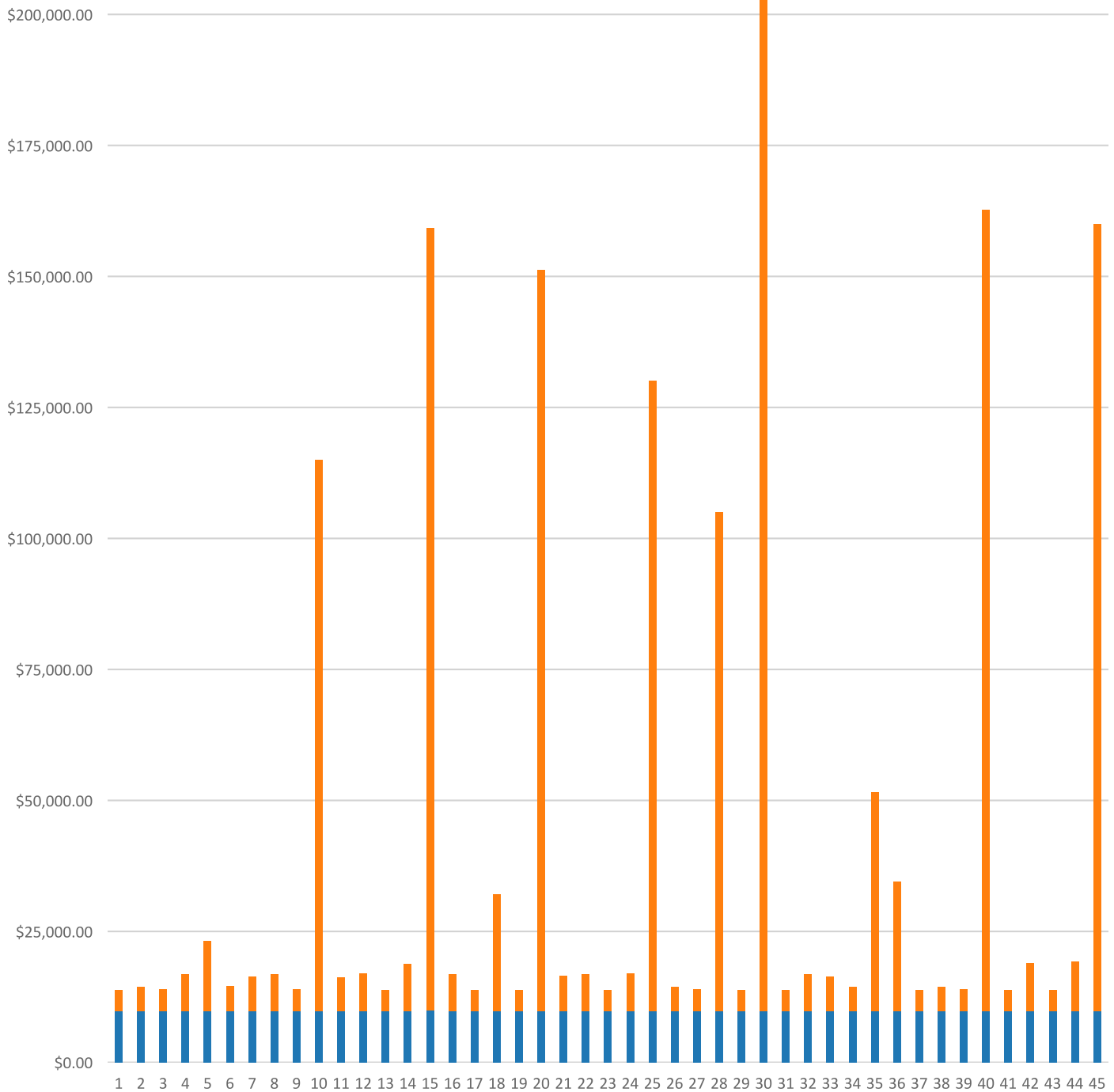
C30 Interior Finishes

Drywall	2099.0 S.F.
Concrete, Finished	75.97 C.S.F.
Vinyl	35.89 S.Y.
Rubber Tile	42.0 S.Y.
Gypsum Wall Board	3.23 C.S.F.
Acoustic Tile, fire-rated	6.89 C.S.F.

E10 Equipment

Hydraulic Lift, Loading Dock, annualized	1.0 Each
Refrigerator freezer, walk-in, annualized	4.0 Each

FAC 4321 COLD STORAGE, INSTALLATION
Sustainment by Year
CostWorks Release 2021 Qtr 3



PM Cost
MR Cost