

**FAC 8271 CHILLED WATER AND REFRIGERANT DISTRIBUTION LINE**

FY24 SUC:	\$3.56 / LF
Source:	Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 8271 CHILLED WATER AND REFRIGERANT DISTRIBUTION LINE

Release 2023 Qtr 4

Zip Code Prefix 222

Type MR

UM LF

Design Life 28

Average Size 2400.0

SUC \$3.56

Adjusted Occurences 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
Maintenance and repair special ground system	4	1.00 Ea.	\$22.69	\$28.43	7.0000	7	7	\$198.98	\$198.98
Replace special ground system	50	1.00 M.L.F.	\$2,425.55	\$2,923.14	0.5600	0	0	\$0.00	\$0.00
Remove old insulation & replace with new, pipe 1-1/2", wall 3/4"	15	2,400.00 L.F.	\$35,928.12	\$43,677.11	1.8667	1	1	\$43,677.11	\$43,677.11
Insp/chk pump/mtr oper, lub, chk align circulation pump, 3 HP	0.5	2.00 Ea.	\$27.24	\$34.10	56.0000	56	56	\$1,909.85	\$1,909.85
Replace pump / motor assembly circulation pump, 3 HP	20	2.00 Ea.	\$27,227.05	\$31,152.98	1.4000	1	1	\$31,152.98	\$31,152.98
Overhaul water meter	13	1.00 Ea.	\$25.45	\$31.59	2.1538	2	2	\$63.17	\$63.17
Remove old meter, install new water meter 8"	25	1.00 Ea.	\$13,363.94	\$15,498.63	1.1200	1	1	\$15,498.63	\$15,498.63
Refill expansion tank	5	1.00 Ea.	\$15.56	\$19.48	5.6000	5	5	\$97.42	\$97.42
Replace expansion tank, 400 gal capacity	50	1.00 Ea.	\$14,251.18	\$16,284.75	0.5600	0	0	\$0.00	\$0.00
Replace old valve, non-drain, 10"	10	5.00 Ea.	\$51,706.88	\$59,490.32	2.8000	2	2	\$118,980.65	\$118,980.65
General maintenance & repair distribution: gutters, pipe	1	0.24 M.L.F.	\$76.13	\$95.30	28.0000	28	28	\$2,668.37	\$2,668.37
			\$145,069.79	\$169,235.83					
								MR Subtotal	\$214,247.16
								MR Per Year	\$7,651.68
								PM Total	\$885.45
								Subtotal	\$8,537.13
								Total Per Unit	\$3.56

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Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Valve, check, above 4", annualized	1.00	0.26	\$4.14	\$13.73	\$0.00	\$17.87	\$22.41	\$27.15
Valve, motor operated, above 4", annualized	2.00	2.00	\$33.19	\$107.26	\$0.00	\$140.45	\$175.95	\$213.10
Valve, pressure relief, above 4", annualized	2.00	0.30	\$11.84	\$15.78	\$0.00	\$27.62	\$33.54	\$40.05
Valve, sediment strainer, above 4", annualized	1.00	0.31	\$5.92	\$16.74	\$0.00	\$22.66	\$28.28	\$34.19
Controls, central system, electro/pneumatic, annualized	1.00	1.92	\$169.00	\$121.21	\$0.00	\$290.21	\$343.47	\$405.19
Cathodic protection system, annualized	1.00	1.46	\$26.08	\$83.23	\$0.00	\$109.31	\$136.89	\$165.77
						\$608.13	\$740.53	\$885.45



# **FAC 8271 CHILLED WATER AND REFRIGERANT DISTRIBUTION LINE**

## **Modeled Component List CostWorks Release 2023 Qtr 4**

D50 Electrical		
Special Ground System		1.0 M.L.F.
D20 Plumbing		
Water Meter		1.0 Ea.
Valve, Non-Drain, 10"		5.0 Ea.
G40 Site Electrical Utilities		
Cathodic Protection, annualized		1.0 Each

**FAC 8271 CHILLED WATER AND REFRIGERANT DISTRIBUTION LINE**  
**Sustainment by Year**  
**CostWorks Release 2023 Qtr 4**

