

FAC 8421 WATER DISTRIBUTION LINE, POTABLE

FY22 SUC: \$0.83 / LF

Source: Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 8421 WATER DISTRIBUTION LINE, POTABLE

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM LF
Design Life 60
Average Size 14346.0

SUC \$0.83

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	
Replace threaded steel pipe and fittings, 4"	75	420.00 L.F.	\$37,076.24	\$44,873.73	0.8000	0	0	\$0.00	\$0.00	
Overhaul water meter	13	19.00 Ea.	\$465.57	\$577.40	4.6154	4	4	\$2,309.60	\$2,309.60	
Remove old meter, install new water meter 6"	25	19.00 Ea.	\$184,688.91	\$214,377.38	2.4000	2	2	\$428,754.76	\$428,754.76	
Repack gate valve gland, 8" - 12" valves	5	18.00 Ea.	\$3,062.56	\$3,721.43	12.0000	12	12	\$44,657.21	\$44,657.21	
Remove and replace fire hydrant	25	8.00 Ea.	\$64,664.10	\$74,626.75	2.4000	2	2	\$149,253.49	\$149,253.49	
			\$289,957.39	\$338,176.69				MR Subtotal	\$624,975.06	
									MR Per Year	\$10,416.25
									PM Total	\$1,422.38
									Subtotal	\$11,838.63
									Total Per Unit	\$0.83

FAC 8421 WATER DISTRIBUTION LINE, POTABLESUC \$0.83

Release 2021 Qtr 3UM LF

Zip Code Prefix 222Design Life 60

Type PMAverage Size 14346.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Valve, check, above 4", annualized	2.00	0.51	\$11.73	\$25.90	\$0.00	\$37.63	\$46.57	\$56.10
Valve, gate, above 4", annualized	4.00	0.64	\$23.46	\$32.07	\$0.00	\$55.52	\$67.49	\$80.63
Valve, globe, auto, above 4", annualized	1.00	0.33	\$5.86	\$16.34	\$0.00	\$22.21	\$27.70	\$33.48
Water flow meter, turbine, annualized	2.00	1.18	\$37.93	\$56.95	\$0.00	\$94.88	\$115.75	\$138.53
Fire hydrant, annualized	8.00	5.09	\$211.68	\$248.20	\$0.00	\$459.88	\$555.51	\$661.72
Cathodic protection system, annualized	3.00	4.38	\$57.99	\$237.15	\$0.00	\$295.14	\$372.09	\$451.93
						\$965.26	\$1,185.10	\$1,422.38

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Modeled Component List

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D20 Plumbing

Water Meter	19.0 Ea.
Valve Gate	4.0 Each

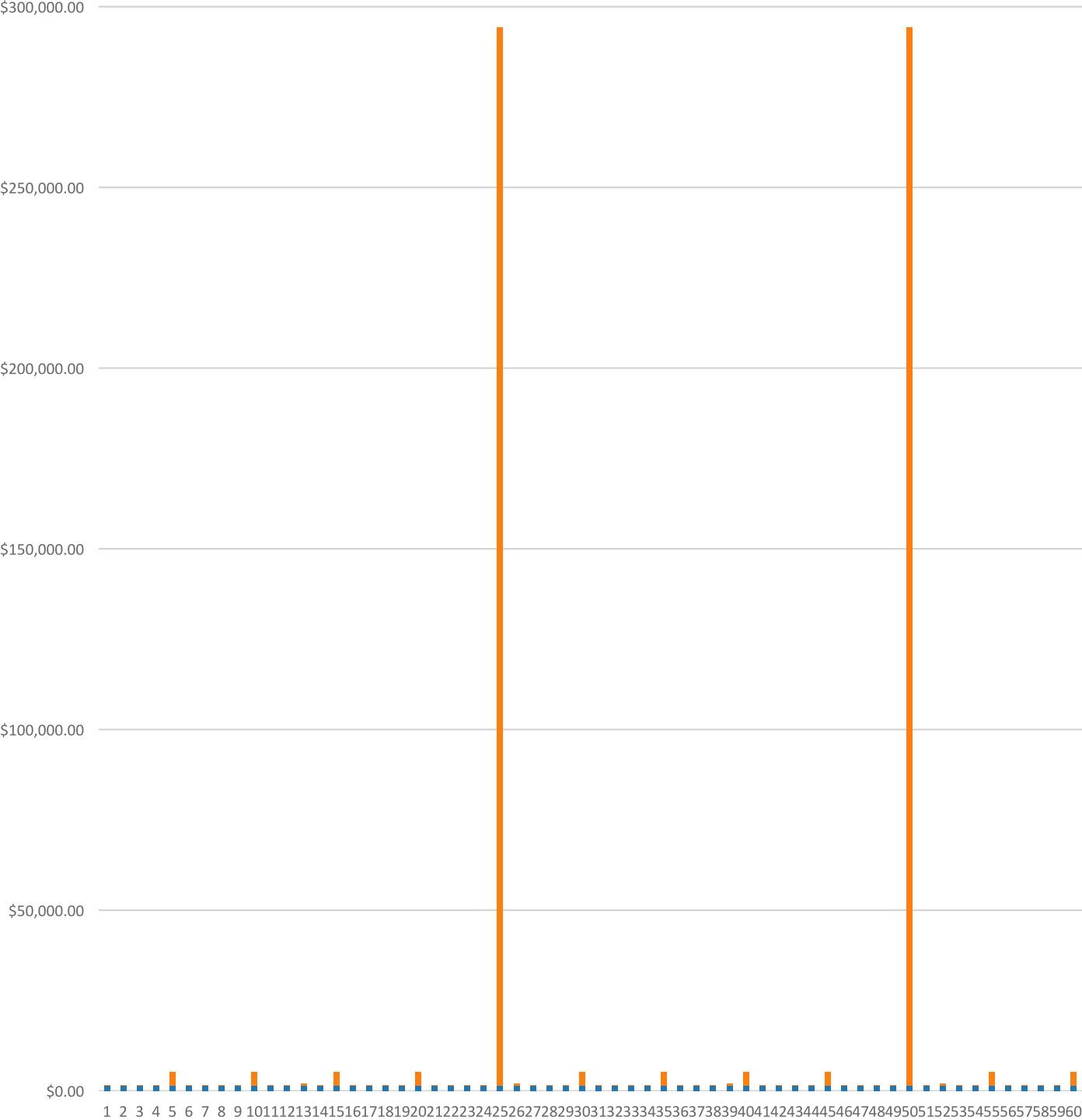
G30 Site Mechanical Utilities

Fire Hydrants	8.0 Ea.
Water Flow Meter, Turbine, annualized	2.0 Each

G40 Site Electrical Utilities

Cathodic Protection, annualized	3.0 Each
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Sustainment by Year
CostWorks Release 2021 Qtr 3



PM Cost
MR Cost