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**EXHIBIT K. CAPITAL IMPROVEMENT PLAN**

**Lake Whatcom Water and Sewer District - Capital Improvement Plan 2020 thru 2029**

Program Area / CIP Project # / CIP Project Name		Fund	Total	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
<b>Maintenance - General</b>													
0210	8 Johnson Well Storage Building - New Siding and Paint		27,500	27,500									
A0011	1 Annual Aphalt Patching		350,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000
A0012	2 Annual Tree Trimming		100,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
	<b>Subtotal</b>		<b>477,500</b>	<b>72,500</b>	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>
<b>Maintenance - Water</b>													
W0005	35 Reservoirs - Inspection & Maintenance		63,654				31,827					31,827	
W0007	35 SVWTP Filter 1&2 Media - Replace		25,714							25,714			
	<b>Subtotal</b>		<b>89,368</b>				<b>31,827</b>			<b>25,714</b>		<b>31,827</b>	
<b>System Reinvestment - General</b>													
0207	1 Quick connect fitting kit for new CAT backhoe		4,000	4,000									
0208	1 Used Fork Lift for Shop		20,000	20,000									
0209	18 SCADA Telemetry - Install and Configure Managed Ethernet Switches		20,000	20,000									
0218	Snowplow Blade and Sander Attachment for Tool Truck		14,300	14,300									
A0005	50 Accounting & Administration Server - Replace/Update Hardware, Network Security, & OS		100,000	25,000			25,000			25,000			25,000
E0002	10 Replace 5-yard Dump Truck		131,127					131,127					
E0007	12 Replace Mini Excavator		71,027						71,027				
E0008	18 Replace Flush and Vac Truck		525,000	525,000									
V0001	18 Replace Tool Truck (7 tool trucks in fleet)		360,000	72,000		72,000		72,000		72,000		72,000	
V0002	9 Replace Administrative Staff Vehicle (4 cars in fleet)		82,750		27,583				27,583				27,583
V0003	18 Replace Locator / Meter Reading Van		36,071									36,071	
	<b>Subtotal</b>		<b>1,364,275</b>	<b>680,300</b>	<b>27,583</b>	<b>72,000</b>	<b>25,000</b>	<b>203,127</b>	<b>98,611</b>	<b>97,000</b>		<b>108,071</b>	<b>52,583</b>
<b>System Reinvestment - Sewer</b>													
0032a	36 Agate Bay Sewer Pump Station - Predesign and Shorelines Permitting		103,000			103,000							
0032b	36 Agate Bay Sewer Pump Station - Design and Bidding		128,750				128,750						
0032c	36 Agate Bay Sewer Pump Station - Construction		540,750					540,750					
0055a	30 Rocky Ridge Pump Station - Predesign and Shorelines Permitting (with Lakewood)		51,500		51,500								
0055b	30 Rocky Ridge Pump Station - Design and Bidding		103,000			103,000							
0055c	30 Rocky Ridge Pump Station - Construction		300,000				300,000						
0056a	30 Lakewood Pump Station - Predesign and Shorelines Permitting (with Rocky Ridge)		51,500		51,500								
0056b	30 Lakewood Pump Station - Design and Bidding		103,000			103,000							
0056c	30 Lakewood Pump Station - Construction		300,000				300,000						
0124a	42 Flat Car Reverse Flow to SVPS Piping and Valves - Design & Permitting		50,000		50,000								

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0124b 42 Flat Car Reverse Flow to SVPS Piping and Valves - Construction		100,000			100,000							
0157 12 Install Ball Check Valves at Cable, Ranch House, Flat Car, Beaver		112,551			112,551							
0161 30 Stationary Generator Closed Loop Cooling Retrofit - North Point, SV, Flat Car, Beaver		225,102				225,102						
0163 Euclid Electrical Controls Replacement and New Stationary Generator		415,090		415,090								
0171 18 Sudden Valley Sewer Pump Station - Recondition Electrical Controls		168,826					168,826					
0172 16 Flat Car Sewer Pump Station - Recondition Electrical Controls		168,826						168,826				
0173 16 Beaver Sewer Pump Station- Recondition Electrical Controls		168,826							168,826			
0193 100 COB Post Point WWTP Biosolids Handling (LWWSD Cost Share 4.8%) - Construction 2023		10,000,000				10,000,000						
0206a 18 Beaver, Flat Car, SVPS Motor Leads (replace 3 at \$6k/each)		18,000	18,000									
0206b 18 Beaver, Flat Car, SVPS Motor Leads (replace 2 at \$6k/each)		12,000		12,000								
A0010 35 Update Sewer Comprehensive Plan (Current Plan under revision as of 11/6/2019)		87,550						87,550				
E0003 14 Replace Sewer Camera Vehicle		82,340			82,340							
E0004 8 Replace Camera Equipment		41,524			41,524							
S0001a 15 Sewer System Rehab and Replacement Projects		60,000	60,000									
S0001b 15 Sewer System Rehab and Replacement Projects		660,000		165,000	165,000	165,000	165,000					
S0001c 15 Sewer System Rehab and Replacement Projects		3,000,000						600,000	600,000	600,000	600,000	600,000
	<b>Subtotal</b>	<b>17,052,135</b>	<b>78,000</b>	<b>745,090</b>	<b>810,415</b>	<b>11,118,852</b>	<b>874,576</b>	<b>856,376</b>	<b>768,826</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>

**System Reinvestment - Water**

0084a 40 Agate Heights Water System - Phase 1 WTP Upgrade 1/3 capacity (from 30gpm to 60gpm) - Design, Bid, SDC		80,000	80,000									
0084b 40 Agate Heights Water System - Phase 1 WTP Upgrade 1/3 capacity (from 30gpm to 60gpm) - Construction		190,000		190,000								
0144a 70 South Shore Water System - 1992 SVWTP 0.235MG Chlorine Contact Tank Seismic Retrofit - Priority 2 - Design		84,413			84,413							
0144b 70 South Shore Water System - 1992 SVWTP 0.235MG Chlorine Contact Tank Seismic Retrofit - Priority 2 - Construction		175,579				175,579						
0145a 70 South Shore Water System - 1971 Division 7 1.0MG Reservoir Seismic Retrofit and Coatings - Priority 1 - Design & Permitting		200,000					200,000					
0145b 70 South Shore Water System - 1971 Division 7 1.0MG Reservoir Seismic Retrofit and Coatings - Priority 1 - Construction		1,550,000						1,550,000				
0146 70 South Shore Water System - 1971 Division 22 0.5MG Reservoir Seismic Retrofit and Coatings - Priority 3		413,062								413,062		
0147 60 South Shore Water System - 1973 Division 30 0.15MG Reservoir Seismic Retrofit and Coatings - Priority 4		608,900									608,900	
0148 50 South Shore Water System - 1979 Geneva 0.5MG Reservoir Seismic Retrofit - and Coatings Priority 5		568,382										568,382
0164 30 Demolish Old Concrete Reservoir at 1010 Lakeview Street		55,000	55,000									
0166 1 South Shore Water System - SVWTP - Convert from Chlorine Gas to Liquid		103,000			103,000							
0201 2 Convert Eagleridge Booster to Metering Station		30,000	30,000									

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0203 36 PRV-AUS at Fremont and Austin - Rebuild Vault, replace 3inch and 1.5inch PRVs, Piping, and Hardware		10,000	10,000									
0204 36 Geneva and Division 22 Reservoir Impressed Current Cathodic Protection Systems		40,000	40,000									
0205 Water Meters and Registers		13,000	13,000									
0211 1 Fire Hydrant Flow Testing Kit for Hydraulic Model Calibration Testing		3,500	3,500									
0212 6 SVWTP Misc Component Replacement		40,000	40,000									
0213 1 Dutch Harbor Water Meter - Add to Telemetry/SCADA Historian		20,000		20,000								
0214 4 SVWTP Raw Water Intake - Emergency Pumps (water only portable pump)		50,000				50,000						
0215 6 1237 Lakeview St - Replace 2" PVC with 2" HDPE		50,000			50,000							
0216 10 Fire Hydrant Adapters		12,000	12,000									
W0002a 18 Water System Rehab and Replacement Projects		40,000		40,000								
W0002b 18 Water System Rehab and Replacement Projects		50,000					50,000					
W0002c 18 Water System Rehab and Replacement Projects		226,600						226,600				
W0003 35 SVWTP Filter 3&4 Media - Replace		25,714						25,714				
W0009 16 SVWTP - Replace 6 Turbimeters and 2 Chlorine Analyzers		40,314									40,314	
	<b>Subtotal</b>	<b>4,679,465</b>	<b>283,500</b>	<b>250,000</b>	<b>237,413</b>	<b>225,579</b>	<b>250,000</b>	<b>252,314</b>	<b>1,550,000</b>	<b>413,062</b>	<b>649,214</b>	<b>568,382</b>
	<b>Grand Total</b>	<b>23,662,743</b>	<b>1,114,300</b>	<b>1,067,673</b>	<b>1,164,828</b>	<b>11,446,258</b>	<b>1,372,704</b>	<b>1,252,301</b>	<b>2,486,540</b>	<b>1,058,062</b>	<b>1,434,112</b>	<b>1,265,965</b>

\* Note: Cost Estimates in 2020 Dollars