

City of Kirkland

2017-2022 Capital Improvement Program



Project Summary



City of Kirkland 2017 to 2022 Capital Improvement Program



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City of Kirkland
2017 to 2022
Capital Improvement Program

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Introduction



Capital Improvement Program



CAPITAL IMPROVEMENT PROGRAM 2017 TO 2022

The 2017-2022 Capital Improvement Program (CIP) was first presented to the City Council on June 21, 2016 and adopted on December 13, 2016. The final postscript documenting updates to the preliminary CIP can be found following this introduction on page xxvii.

INTRODUCTION

The City of Kirkland Capital Improvement Program is a plan that addresses construction, repair, maintenance and acquisition of major capital facilities and equipment. This Summary document and the Project Detail document (available electronically at <http://www.kirklandwa.gov/CIPdocument>) provide information regarding projects planned for the next six years. This represents the first look at the Preliminary 2017-2022 CIP. Additional changes, including options for use of additional REET 2 revenue, are likely between now and City Council's adoption of the final CIP on December 13, 2016.

The CIP is the City's six-year funding plan for building, maintaining and improving the roads, sidewalks, public buildings, parks, and other fixed assets. The 2015-2020 CIP was developed in concert with a number of citywide planning processes, including Kirkland 2035, the Transportation Master Plan and the Parks Recreation and Open Space Plan. Timing the CIP adoption with the finalization of these plans required that the CIP process take place in an odd numbered year, out of sequence with the adoption of the 2015-2016 Biennial Budget. The 2017-2022 CIP re-synchronizes the capital discussion with the 2017-2018 Biennial Budget process. Since only five months have passed since the last full CIP process, the core of the 2017-2022 CIP represents an affirmation of the planning decisions made in 2015, with updates to cost and timing where necessary, and the addition of 2021 and 2022 to the project planning horizon.

At the May 2016 retreat, the Council received information on key [emerging issues](#) affecting the development of the 2017-22 CIP. These included a proposed financing plan for building a new Fire Station 24 and an outline of a public process to explore additional fire safety investments that, while largely an impact to the 2017-2018 Biennial Operating Budget by way of resources to support the process, could lead to CIP impacts in the future. Also presented was the potential impact to the capital program from upcoming, significant changes to environmental regulations. These include changes to the City's Critical Areas Ordinance (CAO) and the Surface Water Design Manual (SWDM). Both the CAO and the SWDM represent regulatory frameworks required of the City by the Washington State Department of Ecology and other State and Federal regulators. Adoption of these regulations is required by Ecology and the intent is for adoption to occur no later than December 31, 2016.

These regulations strengthen the protection of the environment, though they will, in some cases, increase the cost of affected capital projects. While the full extent of the impacts cannot be known until the regulations are finalized and estimating work can be completed at the project level, staff has completed an order of magnitude assessment of the impacts on funded projects in the 2017-2018 CIP, as well on projects that are funded in the current biennium. A comprehensive discussion of this process and the funding strategy is included on page xii.

The CIP is organized into seven sections:

Transportation includes improvements to streets, intersections, pedestrian safety, public transit and non-motorized facilities.

Surface Water Management Utility projects include improvements to the City’s storm drain system including streambank restoration on private property.

Water and Sewer Utility projects include replacement and enhancement of the City’s water conveyance and sanitary sewer systems.

Park projects include renovation, replacement and construction of park and recreational facilities and acquisition of park and open space lands.

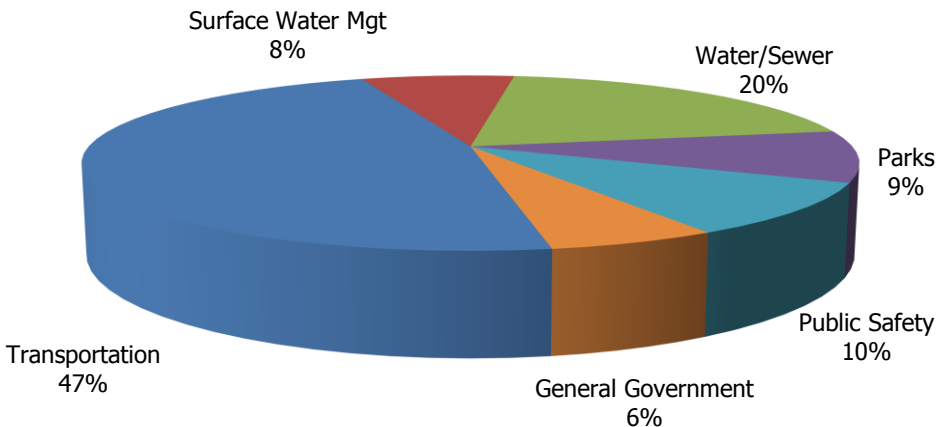
Public Safety projects address fire and police needs and the acquisition of major new equipment with a value greater than \$50,000 and facilities associated with public safety.

General Government projects include two areas – technology system acquisition and replacement, and general government facility construction and renovation (excluding public safety facilities, as described above).

Equipment Rental includes the purchase of major fire apparatus and the replacement of City vehicles.

This structure assists City staff with tracking and managing the projects by funding source and function. The aggregate data and detailed information is presented in these categories, however, the summary narrative for the 2017-2022 CIP focuses on the revenue sources employed in funding the capital recommendation, the emerging policy issues that guide its development and how projects relate to Council’s Goal Areas.

The chart below shows the relative size of the funded project categories in the 2017-2022 CIP:



The City's Capital Improvement Program has grown substantially over the past ten years, as illustrated by the table below (with investments in public safety facilities like the Kirkland Justice Center (KJC) shown in the Public Safety category).

CIP Expenditure History by Category - Actuals 2006-2015

	Trans	Parks	Public Safety	Technology	Facilities	Surf Wtr	Water/Sewer	Total
2006	3,869,216	1,100,123	26,686	677,092	622,199	748,996	3,039,690	10,084,002
2007	3,836,700	3,023,833	214,467	1,690,739	568,665	1,014,715	3,180,487	13,529,607
2008	4,824,708	1,089,616	46,848	1,574,195	806,763	1,330,816	4,890,347	14,563,293
2009	6,845,294	1,580,526	650,491	794,451	1,557,475	1,095,033	4,860,352	17,383,621
2010	6,013,625	1,453,241	11,231,510	1,274,150	524,576	4,501,019	7,819,322	32,817,442
2011	7,895,500	2,740,063	750,807	628,464	112,075	887,400	345,996	13,360,306
2012	16,644,900	1,793,184	1,132,077	762,075	455,704	4,435,280	3,986,820	29,210,039
2013	11,505,068	1,157,690	19,339,127	1,466,822	359,242	4,623,661	1,254,218	39,705,829
2014	11,122,588	3,014,706	11,838,509	897,313	907,761	2,711,523	2,878,355	33,370,755
2015	16,141,092	1,055,912	1,123,259	1,329,740	7,293,784	5,268,145	8,025,732	40,237,664
Total	88,698,690	18,008,894	46,353,781	11,095,042	13,208,244	26,616,589	40,281,318	244,262,558

In each section, a summary of funded projects reflects projects expected to take place with available funding within the 6-year window of the 2017-2022 CIP. The CIP is balanced with funded projects scheduled over the six-year period that match anticipated identified funding and cash flow. The unfunded projects represent capital needs that could not be funded within the six-year period or that are not sufficiently well defined to be included in the funded portion of the CIP. Each section of this document includes highlighted, summarized information about each funded project. Each section also includes various summary tables and graphics showing funding sources by CIP category and types of projects funded.

The separate Project Detail document, which is available electronically at <http://www.kirklandwa.gov/CIPdocument>, includes project summary tables by category and includes all project detail sheets for both funded and unfunded projects.

The term “unfunded” should not be interpreted to mean a project will not be funded. It simply means that a project is not funded within the six-year CIP window. Recognizing that the master plans that form the basis for the CIP identify projects that span a twenty year horizon (or more), it makes sense that the unfunded component far exceeds the funded amount. As part of the CIP, staff has refined the unfunded element to distinguish between those projects that would be candidates for funding from revenue sources after 2022 and those that are not likely to be funded without substantial external and/or new revenues. An example of the latter would be construction of a new Community Recreation Facility, which is only likely to proceed with a new voted revenue source.

In some cases, changes in Council priorities or other circumstances, such as an updated master plan, cause staff to recommend that previously approved projects be modified. A list of all modifications and deletions to the CIP is included in the Summary section of this document.

Operating impacts are an important consideration in capital planning. Once the Council has committed to a capital project that has operating implications, some level of obligation is created for the operating budget. For example, the acquisition and development of new parks requires maintenance staff – even if the park is passive and simply requires monitoring and control of natural vegetation.

Although many of these capital projects do not, in and of themselves, require the addition of an entire full time equivalent employee (FTE), they trigger increments of FTE's that must be added at some point. The operating impacts arrive either in the year the project is completed or the following year. Each capital project description sheet in the Project Detail document includes a summary of anticipated operating impacts at the bottom of the first page. A list of operating impacts associated with proposed capital projects is included in the Summary section of this document. This Summary highlights the potential impacts to the operating budget related to completed CIP projects that must compete for limited operating resources. Projected maintenance and operating costs and needed FTEs will form the basis of department requests for new service package funding in future budget processes.

POLICY BASIS

The City's adopted fiscal policies provide general guidance for preparation of the CIP. A capital project is defined as the construction, acquisition or renovation of buildings, infrastructure, land and major equipment with a value greater than \$50,000 (with some limited exceptions below this threshold such as vehicles). The fiscal policies emphasize the importance of capital investment in existing assets to avoid major costs in the future.

The six-year CIP includes projects that replace or maintain existing assets, provide required capacity needed to meet growth projections and the adopted level of service, and projects that enhance capacity or services to the public. Many of these projects are identified in the subject area strategic and/or master plans, most of which were updated as part of the Kirkland 2035 planning process.

Proper maintenance and replacement is the most critical element to the CIP, since it ensures maintenance of the current service level and mitigates the need for more costly repairs in the future. The level of maintenance desired by the Council may exceed minimum requirements and should be in line with best practices and the level of infrastructure repair expected by the community. Although maintenance and replacement is essential, the level of maintenance is a policy choice.

Required capacity relates to projects needed to meet the adopted transportation level of service (LOS). The City has an obligation to maintain the adopted level of service and to provide sufficient future funding for projects needed to match projected growth to meet concurrency requirements as adopted in the City's Comprehensive Plan.

Desired levels of service are developed for other areas as reflected in master plans and strategic plans, including such things as park investment, intersection and street improvements, sidewalks, technology systems and public safety apparatus. They are essential in their own way, however, they are not required by law. From a funding priority perspective, desired service levels are addressed after basic maintenance and concurrency requirements.

The CIP process is intended to identify the funding sources available for projects prioritized in the next six years. The project costs are the **best estimates available** as of the date of the plan and, as a result, can change as market conditions and project scope evolve. As project timing changes, the impacts of cost escalation can also come into play. The first two years of the CIP are adopted as part of the biennial budget and therefore represent actual funding commitments. In general terms, the estimates for projects that appear beyond the first two years of the CIP are preliminary programming estimates rather than detailed engineering cost estimates. As a result, when the CIP is developed

every other year (and updated in the intervening year), the cost estimates may change and require adjustments to the funding. There are several mechanisms in place to help address this uncertainty:

- In some cases, placeholder projects are used for outer years to recognize funding availability, for example Neighborhood Park Land Acquisition. This approach allows specific project priorities and estimates to be developed based on specific needs as they are identified.
- Preliminary programming estimates generally contain larger contingencies (10% of construction), which can be refined as engineering design progresses.
- Funds are set aside toward capital contingencies. These take the form of reserves in both the general and utilities capital funds. These reserves are intended to be used to supplement project budgets when actual site conditions and market pricing vary from previous assumptions. In most cases, use of these reserves should not be viewed as a failure of the process, but rather a planned approach to dealing with the unknowns in capital planning.

As noted earlier, the CIP is a funding plan, rather than a spending plan. The amounts shown are the funding sources that are being set aside toward projects, which will generally precede detailed design work. For example, projects may show as funded over two years, with the first year reflecting design and the second year showing construction, but in reality the spending to complete the project may occur over a period of three to five years. This dynamic exists for a variety of reasons, including the ability to demonstrate that funding is available to match potential grants and to allow for coordination of projects across functions (for example, timing utility projects to coincide with resurfacing the roadway). The capital carryover that occurs at the beginning of each biennium is in part the recognition that cash has been set aside for projects, but not yet been spent.

In addition to the projects funded as part of the 2017-2022 CIP, there are a large number of active projects that are currently funded and underway that were approved as part of prior CIP processes. The total remaining budget on these projects is \$96.5 million as of the end of 2015, as summarized by function in the table below and shown in the "Active Project" sheets in each functional section.

Program	Proj Budget through 2016	Expenses through 2015	Proj Balance 12/31/2015
Transportation	82,258,637	41,100,337	41,158,300
Parks	13,174,716	4,507,105	8,667,611
General Government			
Technology	9,189,928	5,602,249	3,587,679
Facilities	18,940,596	3,653,503	15,287,092
Public Safety*	37,907,000	33,720,050	4,186,950
Utilities			
Surface Water	16,189,130	9,260,883	6,928,247
Water/Sewer	26,748,641	10,129,355	16,619,286
Total	204,408,648	107,973,482	96,435,165

*Includes Kirkland Justice Center

The 2017 to 2022 CIP inflates each project by a percentage appropriate for that project category based on recent cost trends, so that the estimated future costs are taken into consideration. Likewise, some funding sources are indexed to inflation or increased annually based on historical trends, so that a similar methodology is employed on the resource and requirement sides. In many cases project

amounts in the CIP are driven by available resources rather than growing costs of materials. For example, the Street Levy Street Preservation funding levels are based on the revenue projections for the 2012 Streets Levy. While inflation does not drive the funding amount, it does impact the work that can be accomplished with a given amount of funding.

For most programs where inflation does apply, the inflation projection falls in the 2% to 4% range. As mentioned previously, in many cases project costs are based on engineering estimates, and contingencies and reserves are in place to buffer the impact of scope changes, including price increases. An exception to the general inflationary trend assumption is the IT program, which uses a 0% inflation estimate based on the stabilization of hardware prices in the industry.

FUNDING

Funding is established by project category that reflects legally dedicated revenue streams and Council dedicated revenue sources. The CIP utilizes four main categories of funding sources – current revenue, reserves, debt and external sources. These revenue sources are described below.

Current Revenue represents estimates of annual ongoing revenue that will be received from anticipated sources. These include excise and property tax revenues, impact fees charged to new development, and utility rates and charges for existing and new customers. These are largely distinguished by the fact that they are derived from the current year's economic, development, or usage activity. Current revenue sources were reviewed carefully and notable assumptions are highlighted below.

- **Real Estate Excise Tax (REET)** consists of two 0.25% excise taxes levied by the City against real estate sales (referred to as REET 1 and REET 2, for a total of 0.5%). Collections have been strong, consistent with the economic and real estate market recoveries since the recession ended in mid-2009. Recent REET collections have exceeded their previous high point reached in 2006, though it is worth noting that collections now include sales activity in the 2011 annexed neighborhoods. Historically, REET has been very volatile as evidenced by the drop from its prior peak collections of \$7.1 million in 2006 to \$2 million in 2009 after the collapse of the housing bubble. Since 2009, revenue has built to its most recent high point of \$9 million in 2015. Rather than predict collections at this level in the future, the forecast relies on approximately \$5 million per year in 2017 and 2018. In 2019 through 2022, the forecast drops to approximately \$2.5 million per year.

A total of approximately \$18.1 million of current REET revenue is budgeted in the six-year CIP, including \$10.1 million for Transportation projects, \$3.7 million for Parks projects, and \$4.2 million for Fire Station 24 construction in the Public Safety program. Approximately \$263,500 per year is also assumed to pay maintenance expenses in the operating budget as allowed by state law, with \$90,000 used for Transportation maintenance, \$110,000 for Parks maintenance and \$63,500 per year for enhanced maintenance on the Cross Kirkland Corridor (CKC). The funding plan assumes that these maintenance uses will continue during the six year CIP.

Any difference between the budgeted REET revenue and actual receipts is placed in the REET 1 and REET 2 reserves for use as grant matches and to supplement current revenue to fund high priority projects and facility needs.

- **Property Tax Levy Lid Lifts** – On November 6, 2012, Kirkland voters approved two new property tax levies to support street maintenance and pedestrian safety and parks maintenance, restoration and enhancement. In 2017 these levies are expected to generate \$3,195,382 and \$2,506,184 for these purposes, respectively. This projection is based on the assumption that the levies grow by 2% from their 2016 level. Property tax growth is limited by state law to 1 percent plus the growth in value from new construction, which is assumed to be 1 percent in future years.

Revenues from the two levies are deposited in the Street Operating and Parks Levy Funds, respectively, and a set amount is transferred into the CIP for specific capital uses. The following table shows the proposed allocation of the projected levy revenues between capital and operating uses in the 2017-18 budget:

Park and Street Levy Budget Allocations		
	2017	2018
<u>2012 Street & Pedestrian Safety Levy</u>		
Total Revenue	3,195,382	3,227,075
Operating Budget	569,382	575,075
Capital Improvement Program	2,626,000	2,652,000
<u>2012 Park Levy</u>		
Total Revenue	2,506,184	2,556,308
Operating Budget	1,256,184	1,306,308
Capital Improvement Program	1,250,000	1,250,000

In 2017 and 2018, projected growth in the Street & Pedestrian Levy is assumed to be split equally between capital and operating uses, to recognize the fact that cost growth affects both the capital and operating funds.

Future growth in the Park Levy in 2017 and 2018 is assumed to be retained in the operating budget to provide operating and maintenance support for park projects, while the CIP contribution is fixed at \$1.25 million per year. In addition, the 2012 ballot question for the Park Levy included a list of projects that would be completed using the new revenues from the levy. It was assumed that after these projects were completed, future revenue from the levy could be directed to operating and maintenance costs, as needed, with any residual available for capital projects. The 2017-2022 CIP completes the majority of the work on the list of projects; therefore, beginning in 2019 and continuing thereafter, a growing portion of capital-related levy revenue is assumed to be retained in the Parks and Community Services operating budget for operating and maintenance uses. In addition, staff is developing options to dedicate a portion of the levy used for capital purposes to a dedicated sinking fund for Park's facilities.

- **Impact Fees** – Impact fees are charged to new development projects to provide revenue to build infrastructure to service the population growth attributed to the new development. The CIP includes funding from impact fees to build Park and Transportation projects. In the six year CIP, a total of \$9.7 million of impact fees are assumed to be collected from development to support projects. A significant portion of this total is related to two large projects related to the Totem Lake redevelopment project, including \$2.4 million to support Totem Lake

Intersection Improvements in 2017 and \$2.1 million to support the NE 124th St/124th Ave NE Pedestrian Bridge Design and Construction project in 2018. Beyond this significant development activity in 2017 and 2018, \$1 million per year is assumed to be collected from Transportation impact fees. Parks impact fees are programmed at \$594,000 beginning in 2017 and growing to \$1.75 million by 2022.

- **Interest Earnings** – Interest earnings have been very low since the end of the 2009 recession. Prior to the last recession, and the ensuing expansionary monetary policy adopted by the Federal Reserve intended to spur growth, General Fund interest earnings had provided as much as \$800,000 per year for CIP projects. With earning rates currently near zero, and with continuing uncertainty as to the timing and magnitude of future rate increases, the CIP does not include any revenue from this source.
- **Utility Rates, Charges and Fees** – The utilities capital program funds equipment and infrastructure requirements of the City's water/sewer and surface water utilities. Funding for the program comes from rates, fees and charges assessed on current and new utility customers. The fees and rates are determined based on rate studies performed for each utility as well as adopted Master Plan recommendations. Rate studies are currently underway, and newly projected needs will be considered when new rates are adopted for 2017-2018 and future years.

Reserves are used in a variety of ways in the CIP. Reserves used in the 2017-2022 CIP have been accumulated over time for specific purposes (e.g. water/sewer capital replacement reserve and accumulated REET and impact fee balances). The CIP recommendation incorporates the use of reserves to fund matching contributions for some grant-funded transportation projects, and to fund the portion of impact fee funded projects that are not capacity-related. Accumulated REET reserves are also employed to fund fire station construction projects, accelerated pedestrian safety investments and fund placeholders for compliance with environmental mandates associated with the Critical Areas Ordinance and Surface Water Design Manual updates, as discussed in more detail later in this message. Dedicated sinking fund reserves are also used to fund routine building repairs, vehicle replacements and equipment purchases for public safety and information technology.

Debt represents a commitment to repay borrowed funds over an extended period of time. While not a revenue source, debt provides a way to use a stream of future revenues to fund a large one time project in the present. Due to its prudent financial management practices, the City has considerable legal bonded debt capacity, as show in the table that follows.

Type of Debt	Original Amount	Outstanding 6/30/2016	Maturity Date
<i>Councilmanic Bonds:</i>			
2010 Limited G.O. (Kirkland Justice Center)	35,345,000	32,280,000	12/1/2040
2011 Limited G.O. (Fire Station Construction) ^{1/}	4,000,000	2,550,470	12/2/2021
2015 Limited G.O. (City Hall Remodel)	5,800,000	5,800,000	12/1/2034
Total Councilmanic Bonds	\$45,145,000	\$40,630,470	
<i>Est. Remaining Councilmanic Debt Capacity as of 6/30/2016</i>		<i>\$263,171,018</i>	
<i>Voter Approved Bonds:</i>			
2013 Unlimited G.O. Refunding (Parks)	\$4,670,000	\$3,655,000	12/1/2022
Total Voter Approved Bonds	\$4,670,000	\$3,655,000	
<i>Est. Remaining Voter Approved Debt Capacity as of 6/30/2016</i>		<i>\$1,474,721,972</i>	
<i>Public Works Trust Fund Loans:</i>			
1999 Lift Station Replacement-Design	227,500	50,140	7/1/2019
2001 Lift Station Replacement-Construction	1,848,000	617,812	7/1/2021
2004 Central Way Sewer Replacement	1,086,300	515,992	7/1/2024
2012 NE 80th St Water/Sewer Replacement	350,247	335,180	6/1/2032
Total Revenue Bonds & Trust Fund Loans	\$3,512,047	\$1,519,124	

1/ On May 26, 2011, Fire Protection District #41 issued \$4 million in Limited Tax General Obligation Bonds to finance the Consolidated Fire Station Project. On June 1, 2011, the Fire District ceased operation when the City of Kirkland annexed all the territory served by the District. The outstanding debt remains an obligation of the taxable property which was annexed.

The proposed CIP does not currently use debt to support projects in the six year funding plan, though there are projects on the unfunded list that are candidates for debt financing, including:

- Placing a levy lid lift measure on the ballot to fund Fire Station modernization improvements, depending on the results of the proposed community process;
- Implementing the City of Kirkland's Transportation Benefit District (TBD) that was established February 10, 2014, either using Councilmanic authority or seeking voter approval; and,
- Pursuing low cost loans from the Public Works Trust Fund toward large utility projects.

Each of these financing options could also include a debt component. While the City has a relatively large legal debt capacity, the main constraint is the ability to repay the debt. Councilmanic bonded debt is supported from existing revenues, while voter approved debt comes with a new revenue stream to support debt service. An additional constraint is the time period for which the debt can be issued (limited to the life of the asset and a maximum of 30 years by current City fiscal policy).

External sources are primarily grants but can also take the form of contributions from other governments (shared projects) or from private sources (such as developers).

General Fund Cash represents a combination of current and future General Fund resources. As presented at the May 2016 City Council Retreat, the General Fund ended 2015 with approximately \$2.6 m in additional resources above budgeted levels, after netting out development fee revenues above budget. This includes:

- \$1.4 million from revenues above budget, largely due to sales taxes of \$980,000 above the modified two-year lag; and,
- \$1.2 million of spending below budget, after accounting for estimated carryover spending into 2016.

This category also includes \$1.7 million of prior year General Fund balance that was dedicated to Fire Station funding in the 2015-2020 CIP. The remainder of the \$5.97 million budgeted in the six year CIP represent transfers from future General Fund revenues to the Information Technology and Public

Capital Improvement Program – 2017 to 2022

Safety programs, for the GIS and Emergency Generator projects, respectively, as presented at the May 2016 Retreat.

The 2017-2022 CIP is based on the recommended funding matrix shown on the following page and incorporates the aforementioned current revenue assumptions as well as existing reserves and external revenues.

Capital Improvement Program – 2017 to 2022

**2017-2022 Preliminary Capital Improvement Program
Revenue Sources (in thousands)**

Dedicated Revenue	2017	2018	2019	2020	2021	2022	6-Year Total
Transportation							
Gas Tax	610	622	634	647	660	673	3,846
Gas Tax (Transportation Package)	100	150	200	200	-	200	850
Business License Fees	270	270	270	270	270	270	1,620
Real Estate Excise Tax (REET) 1	398	410	422	435	448	461	2,574
Real Estate Excise Tax (REET) 2	1,205	1,242	1,279	1,318	1,233	1,274	7,551
Street & Pedestrian Safety Levy	2,626	2,652	2,679	2,706	2,733	2,760	16,156
Transportation Impact Fees	3,440	2,300	1,000	1,000	425	275	8,440
Park Impact Fees	-	1,110	750	-	-	-	1,860
King County Park Levy	-	300	300	-	-	-	600
Walkable Kirkland	520	400	400	400	-	-	1,720
Utility Rates	1,026	806	707	500	320	260	3,619
Solid Waste Street Preservation	300	300	300	300	300	300	1,800
REET 2 Reserve	3,158	1,579	480	480	480	480	6,657
REET 1 Reserve	100	-	-	-	-	-	100
External Sources	13,132	2,803	4,590	5,892	3,146	3,140	32,702
Subtotal Transportation	26,885	14,944	14,011	14,148	10,015	10,093	90,095
Parks							
Real Estate Excise Tax 1	215	868	1,438	885	160	160	3,726
Impact Fees	594	796	750	1,750	1,050	1,150	6,090
Parks Levy	1,250	1,250	1,150	973	250	250	5,123
King County Park Levy	-	-	-	-	-	-	-
REET 1 Reserve	100	-	-	-	-	-	100
External Sources	500	500	500	-	-	-	1,500
Subtotal Parks	2,659	3,414	3,838	3,608	1,460	1,560	16,539
General Government: Technology, Facilities & Public Safety							
General Fund Contributions for:							
Public Sfty. Equip. Sinking Fund	155	173	693	369	246	149	1,785
Technology Equip. Sinking Fund	289	1,197	209	1,051	545	180	3,471
Utility Rates	456	256	256	256	256	256	1,736
Health Fund Transfer	1,000	-	-	-	-	-	1,000
Facilities Life Cycle Reserve	425	554	529	606	279	190	2,583
Maj Sys Replacement Rsv	1,333	-	-	-	-	-	1,333
General Capital Reserves	-	-	-	-	-	-	-
REET 1 Reserves	772	3,700	-	-	-	-	4,472
General Fund Cash	3,327	1,937	114	174	114	174	5,840
Fire District 41 Reserves	2,656	-	-	-	-	-	2,656
Carryover PY Funds	150	-	-	-	-	-	150
REET 1	-	4,200	-	-	-	-	4,200
Land Sales Proceeds	-	470	-	-	-	-	470
Subtotal General Government	10,563	12,487	1,801	2,456	1,440	949	29,696
Utilities							
Utility Connection Charges	865	865	865	865	865	865	5,190
Utility Rates - Surface Water	1,801	1,872	1,916	2,120	2,139	2,204	12,052
Utility Rates - Water/Sewer	3,764	4,070	4,355	4,698	5,015	5,368	27,270
Reserves	4,450	50	1,500	50	1,450	50	7,550
External Sources	350	-	-	-	-	-	350
Subtotal Utilities	11,230	6,857	8,636	7,733	9,469	8,487	52,412
Total Revenues	51,337	37,702	28,286	27,945	22,384	21,089	188,742

Key Policy Issues

Fire Station Funding

At the February 24th Council Retreat, staff presented options for funding fire station facility improvements, including options to use current revenues to “buy down” the debt required for the entire capital program ([click here for 2-24-16 Fire Station Funding Options packet](#)). Council requested that staff proceed with a funding plan for the construction of a new Fire Station 24 that did not include debt, which is an estimated \$10.1 million. This funding plan was presented to Council at its May 24, 2016 retreat and is presented in the table below, followed by a description of each funding source.

Source	Amount
Existing Station 24 Land Sale	471,000
2015 REET 1 revenue above forecast	200,000
2016 REET 1 revenue over Budget	1,500,000
2017-2018 Increased REET 1 revenue	2,500,000
2015 General Fund Balance	1,763,000
REET 1 Reserves	3,700,000
Total	10,134,000

Existing Station 24 Land Sale (\$471,000)

In February 2016, the City received an estimate for the land value of the current Fire Station 24 site. The estimate provided a high, medium, and low value. The table above uses the medium figure.

REET 1 Revenue above 2015 Forecast (\$200,000)

At the November 17, 2015 study session, staff presented a revised estimate of 2015 REET 1 revenues. Actual revenue collection in 2015 was higher than this estimate, resulting in an additional \$200,000 in unobligated revenue.

REET 1 Revenue above 2016 Estimate (\$1.5 million)

REET revenue for the first four months of 2016 was 31% (approx. \$775,000) higher than in the same period of 2015. Revenue is also currently at 65% of the full year budget for 2016. Using a conservative forecast, and assuming revenues will fall back in line with 2015, would still generate approximately \$1.5 million in additional REET 1 revenue in 2016.

Increased REET Revenue in 2017-2018 (\$2.5 million)

The staff memo for the February 24th Council Retreat presented the option of increasing the budget for total REET revenues to \$5 million for the next two biennia (2017-2018 and 2019-2020). This increase would put the budget level with the 2015-16 budget. As the Station 24 rebuild is planned for 2017-2018, this plan assumes the adopted REET budget for the 2017-18 biennium is increased to \$5 million, generating \$1.25 million in additional REET 1 revenue each year or \$2.5 million for the biennium (with the REET 2 share of the revenue left available for transportation or other eligible projects).

2015 General Fund Balance and REET 1 Reserves (\$5.5 million)

Through higher than budgeted revenues, and lower than budgeted expenses, the City was left with approximately \$2.6 million in one-time General Fund balance in 2015. In addition, prior to the February 24th Council Retreat, staff identified approximately \$4.3 million in REET 1 reserves over programmed levels. Combining approximately \$1.8 million of the one-time General Fund cash with \$3.7 million of the REET 1 reserves, completes the proposed funding plan.

This plan fully funds PS 3002 002 Fire Station 24 in the preliminary 2017-2022 CIP, and as such is included in the summary tables presented earlier in this message. Note that the figures shown do not include the \$2.5 million already funded in a prior CIP for land acquisition. If land acquisition for the station is above the budgeted figure, staff will bring back a supplemental budget request for land acquisition.

Critical Areas Ordinance and Surface Water Design Manual CIP Impacts

At the June 21, 2016 Study Session, the Council will receive an update on the development of the draft Critical Areas Ordinance (CAO) and the updated Surface Water Design Manual (SDM). A cross-departmental staff group (including Planning, Public Works, Finance, and CMO) has been working to evaluate the impacts of the CAO and SDM on the City's capital improvement projects.

Both the CAO and the SDM represent regulatory frameworks required of the City by the Washington State Department of Ecology and other State and Federal regulators. Adoption of these regulations is required by Ecology and the intent is for adoption to occur no later than December 31, 2016. The proposed regulations strengthen the protection of the environment and sensitive areas and the mitigation of impacts from surface water run-off. However, they will, in some cases, increase the cost of City capital improvements and the maintenance of those improvements. Required environmental and surface water studies may also add to project design costs and extend the schedule for completing some projects.

The focus of current staff efforts is to identify opportunities and strategies to meet environmental policy objectives in the course of CIP work, while minimizing impacts to CIP project costs and schedules. Staff is exploring strategies that will foster success in all policy arenas: habitat protection; surface water management; parks; transportation; utilities. Permitting tools, such as mitigation banking, programmatic permits, and outcome-based best management practices (BMPs), could provide a means to this end. Including such tools in the CAO and SDM could substantially enhance environmental outcomes, while also minimizing cost and schedule impacts to the CIP and maintenance work.

While the full extent of the impacts cannot be known with certainty until the regulations are finalized and detailed estimating work can be completed at the project level, staff has developed an order of magnitude assessment of the impacts on funded projects in 2017-2018. At this time, impacts are likely to occur in the Transportation, Parks, and Surface Water and Water/Sewer capital programs. Funding for potential impacts is programmed as placeholder projects in the respective program areas, signified by the '7777' numbering convention in the summary tables later in this document. The intent is to create an administrative approval process to re-allocate funds from the placeholders to funded projects when impacts are known, to minimize schedule impacts. The following table summarizes the individual placeholders and identified funding sources, by program, for 2017-2018:

Program	2017-2018	Funding Source
Transportation		
Non-motorized (NM)	1,600,000	REET 2 Reserves
Transportation (TR)	500,000	REET 2 Reserves
Surface Water	1,400,000	Surface Water Construction Reserves
Utilities		
Water (WA)	500,000	Water/Sewer Construction Reserves
Sewer (SS)	700,000	Water/Sewer Construction Reserves
Parks	TBD	TBD

The scope of Parks impacts is still under review. As more information becomes available between now and final adoption in December, placeholder amounts that are identified will be included.

The full implementation of these environmental regulations will extend beyond 2018. As the impacts beyond 2017-2018 are identified, the placeholder projects will be adjusted accordingly. In years 2021 and 2022 of the CIP, new funding is restricted to annual projects with a specific funding source. Additional discretionary funds are not allocated at this time, pending further information about impacts to currently funded projects. Funding projected to be available in those years has been held aside and will be allocated to funded projects with additional costs before being used to fund new projects.

REET 2 Revenues Above Projections

REET 2 revenues are substantially above forecasts just like REET 1. Staff is evaluating options for effectively investing these REET 2 revenues to accomplish Council priorities. One key priority will be to reserve a significant portion of these funds to help mitigate potential cost increases associated with new stormwater regulations as discussed above. Staff is also exploring the concept of further pedestrian safety investments in street lights and rapid flashing beacons, perhaps by utilizing the Neighborhood Safety Program as a model for engaging the community and prioritizing the projects.

Police Strategic Plan

In early 2016, the City engaged the services of BERK Consulting to conduct a Police Strategic Plan. A Steering Committee comprised of management and staff from the City Manager's Office and from functions across the Police Department has been convened to guide the project.

The consulting team has provided a draft Baseline Assessment Report summarizing their findings to date that was reviewed by the Steering Committee and that was presented to the Public Safety Committee at their May 19 meeting. This report provides the basis for the beginning of a conversation with the department to validate and/or clarify the consultant's findings. The consultant's work continues with a staffing level analysis and evaluation of the records functions. Draft findings and recommendations are expected in mid-summer, with presentation of the results scheduled for presentation to the full Council at the August 16 Study Session. The outcome of this process will form the basis for options and recommendations for funding consideration as part of the 2017-2018 budget process. The preliminary CIP includes an unfunded project at \$250,000 for PS 1200 Police Strategic Plan Implementation in recognition that there may also be capital impacts from the plan.

Financial System Replacement

The current financial system was implemented in 1999 and will be unsupported after the next couple of years. As such, a major upgrade or replacement is required, since this system is critical to the operation of all departments in the City. The Financial System Replacement project (\$2.5 million, increased from \$1.3 million from the 2015-2020 Adopted CIP due to available cost estimates) in the Information Technology Program will support the one-time costs of replacing the system, based on estimates derived through a study of the current marketplace conducted by BerryDunn through a Request for Information (RFI) process in 2016. Project funding includes approximately \$1.3 million in the Major Systems Replacement Reserve, a \$1 million transfer of the rate stabilization balance from the Health Fund, representing the initial \$1 million “seed money” deposited into the fund when the City transitioned to a self-insured health plan, that is no longer needed, and approximately \$200,000 from sales tax collections above projection in 2015. It is anticipated that the project will commence in 2017, with full implementation completed by 2019.

Public Art

The CIP has a 1% for Art policy in which eligible CIP projects with art eligible funding budgeted at \$500,000 or more will spend a minimum of one percent of the project budget on public art as part of the overall project. Projects not included under this policy are: motorized transportation, utilities, land acquisition, fleet, information technology, and projects consisting of only planning dollars, and those that include funding sources that prohibit public art as an eligible expense. Staff is currently updating the guidelines to clarify how this policy applies in practice and the roles of the City Council, City Staff and the Cultural Arts Commission.

PROJECT HIGHLIGHTS

The CIP reflects Council deliberations and decisions regarding strategies to address near-term needs and meet existing obligations while exploring opportunities to fund longer-term goals. The total adopted CIP is summarized below, followed by project highlights presented to emphasize how projects fit within City Council Goal Areas.

Total CIP

The 2017-2022 funded CIP totals \$188,742,300, which is 24.4 percent of the total identified needs of \$774,596,900. This compares to the adopted 2015-2020 funded CIP which totaled \$206,228,515 and was 24.7 percent of the total identified needs of \$835,972,015. Since the 2017-2022 CIP is based on the output of the various master planning processes adopted in 2015-2020, it is perhaps best to characterize it as an ongoing implementation of those planned needs. In total, unfunded needs decreased by \$43.9 million, and the funded program decreased by \$17.5 million.

A discussion of major changes since the CIP approved in December of last year is provided in the remainder of this document. As initially presented in last year’s discussion, the unfunded projects list draws a distinction between those projects that would be candidates for funding from existing revenue sources after 2022 and those that are not likely to be funded without substantial external and/or new revenues. The following tables attempt to differentiate between these components of the unfunded projects list. This line is drawn largely by the size of the project, using the current funding mixture of the funded programs as a guide for the scope of projects that normally would not be pursued without significant external and/or new revenue.

This is an art more than a science, and in that sense is imperfect. It does, however, provide a more detailed lens of what constitutes the unfunded list. As initially observed last year, more than half of the \$304 million total projects that would require new/external funding is comprised of three projects, including:

- ARC construction;
- Fire Station Modernization projects; and,
- The CKC Non-Motorized Improvements.

The table below summarizes the CIP recognizing this distinction, followed by a table of the projects that were considered “unfunded external/new revenue”.

**2017-2022 Preliminary Capital Improvement Program
Summary of Total Identified Needs**

	6-Year Funded CIP	Unfunded Future City Revenues	External/New Revenues	Total CIP
Transportation	90,095,200	162,119,600	187,663,500	439,878,300
Parks	16,539,000	61,575,000	67,000,000	145,114,000
Public Safety	18,385,500	369,100	32,560,400	51,315,000
General Government				
Technology	8,727,600	559,000	-	9,286,600
Facilities	2,583,000	-	-	2,583,000
Subtotal	136,330,300	224,622,700	287,223,900	648,176,900
Surface Water Mgmt	14,552,000	20,079,200	-	34,631,200
Water/Sewer	37,860,000	37,472,800	16,456,000	91,788,800
Utilities Subtotal	52,412,000	57,552,000	16,456,000	126,420,000
Grand Total Proposed CIP	188,742,300	282,174,700	303,679,900	774,596,900

Unfunded Projects Requiring Debt or External Financing Contributions		
TRANSPORTATION		
ST 0056	132nd Avenue NE Roadway Improvements	25,170,000
ST 0060	118th Avenue NE Roadway Extension	6,440,000
ST 0061	119th Avenue NE Roadway Extension	5,640,000
ST 0062	NE 130th Street Roadway Improvements	10,000,000
ST 0064	124th Avenue NE Roadway Extension	30,349,000
ST 0073	120th Avenue NE Roadway Extension	16,392,000
ST 0086	Finn Hill Emergency Vehicle Access Connection	900,000
NM 0030	NE 90th Street/I-405 Pedestrian/Bicycle Overpass	3,740,700
NM 0032	93rd Avenue Sidewalk	1,047,900
NM 0043	NE 126th St Nonmotorized Facilities	4,277,200
NM 0046	18th Avenue SW Sidewalk	2,255,000
NM 0050	NE 80th Street Sidewalk	859,700
NM 0054	13th Avenue Sidewalk	446,700
NM 0055	122nd Ave NE Sidewalk	866,700
NM 0058	111th Avenue Non-Motorized/Emergency Access Connection	2,000,000
NM 0062	19th Avenue Sidewalk	814,200
NM 0074	90th Ave NE Sidewalk	353,400
NM 0086	Cross Kirkland Corridor Non-motorized Improvements	65,742,000
TR 0067	Kirkland Way/CKC Bridge Abutment/Intersection Imprv	6,917,000
TR 0114	Slater Avenue NE Traffic Calming - Phase I	247,000
TR 0123	Slater Avenue NE (132nd Avenue NE)/NE 124th Street	2,124,000
TR 0124	116th Avenue NE/NE 124th Street Intersection Improvements	1,081,000
	Transportation Subtotal	187,663,500
PUBLIC SAFETY		
PS 3002-3007	Fire Station Modernization Projects	32,560,400
	Public Safety Subtotal	32,560,400
PARKS		
PK 0122 100	Community Recreation Facility Construction	67,000,000
	Parks Subtotal	67,000,000
UTILITIES		
SS 0077	West of Market Sewermain Replacement	16,456,000
	Utilities Subtotal	16,456,000
Total All Programs		303,679,900

CIP HIGHLIGHTS BY COUNCIL GOAL AREA

Projects throughout the 2017-2022 CIP continue to make measurable progress toward the City Council Goals [<http://www.kirklandwa.gov/Assets/City+Council+Goals.pdf>]. The matrix below summarizes the funded project functional totals, highlighting the Council Goals served. The dollar amounts are shown in the primary Goal Area for functional areas serving multiple goals. While there are no specific projects associated with Human Services and Housing, there are likely secondary benefits of some projects on these goals (such as the connection of the South Kirkland TOD to the CKC). In addition, the City contributes capital funds to the ARCH (A Regional Coalition for Housing)

Capital Improvement Program – 2017 to 2022

Trust Fund for use in constructing affordable housing units, as described further in the next section, and provides other incentives to support these goals such as the impact fee credit for affordable housing units.

Funded Preliminary 2017-2022 CIP Projects by Council Goals

		Neighborhoods	Public Safety	Balanced Transportation	Parks, Open Spaces & Recreational Services	Financial Stability	Environment	Economic Development	Dependable Infrastructure
Transportation	\$ 90,095,200	✓	✓	✓	✓	✓		✓	✓
Parks	\$ 16,539,000	✓			✓		✓		✓
Public Safety	\$ 18,385,500	✓	✓			✓			✓
General Govt	\$ 11,310,600				✓	✓			✓
Surface Water	\$ 14,552,000	✓	✓	✓			✓		✓
Water Utility	\$ 9,599,400	✓				✓		✓	✓
Sewer Utility	\$ 28,260,600	✓				✓	✓	✓	✓
Grand Total	\$ 188,742,300	**	\$ 18,385,500	\$ 60,439,200	\$ 16,539,000	**	\$ 42,812,600	**	\$ 50,566,000

** Dollars included in other categories

Projects in many of the program areas serve multiple goals. For purposes of the matrix, the dollars summarized by program area reflect the primary goal (indicated by the large checkmark) and the related goal areas served are represented by the small checkmark. As a result, while no dollars show under a few goal areas, they are advanced by expenditures in other goals. For example, many of the transportation projects contain elements identified by *Neighborhoods*, but the costs are shown under the *Balanced Transportation* goal. Similarly, the investments in *Economic Development* related to Totem Lake and Kirkland Urban show in their functional goal areas, such as *Parks, Open Space, and Recreation* and *Balanced Transportation*. The following discussion provide highlights on major projects that make investment to advance each goal.



The citizens of Kirkland experience a high quality of life in their neighborhoods.

Goal: Achieve active neighborhood participation and a high degree of satisfaction with neighborhood character, services and infrastructure.

Though technically part of the Transportation program, there is a set of projects in the CIP that are supportive of the Council's Neighborhoods goal, particularly with regards to neighborhood character and infrastructure. These include Safe School Walk Routes and Pedestrian Safety improvements. Highlights of projects reflected in the 2017-2022 CIP include:

- Neighborhood Safety Program improvements totaling \$800,000 through 2020;
- Completion of the safe school walk route sidewalks committed to in 2001 in the pre-annexation City of Kirkland by 2019;
- Funding of \$500,000 in both 2019 and 2020 for safe school walk routes in the North Kirkland (JFK annexation area);

- Continuation of the pedestrian safety investments funded by the 2012 Transportation levy; and,
- Pedestrian safety improvements totaling \$1.7 million through the Walkable Kirkland Initiative.



Ensure that all those who live, work and play in Kirkland are safe.

Goal: Provide for public safety through a community-based approach that focuses on prevention of problems and a timely response.

Projects that specifically advance progress on the Public Safety goal include Police and Fire Department capital needs and purchase of major pieces of equipment. Project highlights include:

- Proposed capital investments to improve service in North Kirkland and fulfill commitments to Finn Hill as part of the Fire District 41 interlocal agreement include:
 - Completely renovate Fire Station 25 (\$3.8 million);
 - Construction of a new Fire Station 24, as detailed earlier in this message (\$10.1 million); and,
 - Purchase property for a replacement for Fire Station 27 to provide better emergency response coverage (\$2.5 million);
- Other public safety investments include planned Fire and Police equipment replacements funded from the Public Safety sinking funds and the inclusion of a funded project to install one emergency generator per biennium (total of three in the 6-year CIP).
- An unfunded project is included to recognize potential Police Strategic Plan implementation projects (\$250,000), as discussed earlier; and
- Unfunded projects for major fire station modernization efforts, including relocation of 27, totaling \$32.6 million, which could be the subject of a future Fire Station ballot measure as discussed earlier.

Investments listed under one goal may have positive impacts on other goals. Notable for Public Safety are the School Walk Route and Pedestrian Safety projects listed under the Neighborhoods goal. While these projects clearly enhance the character of Neighborhoods, they do so in a manner that also enhances the safety of residents. While these individual projects are not listed again in this section, it is worth noting the role they play in improving public safety.



Kirkland values an integrated multi-modal system of transportation choices.

Goal: To reduce reliance on single occupancy vehicles and improve connectivity and multimodal mobility in Kirkland in ways that maintain and enhance travel times, safety, health and transportation choices.

Progress on the Balanced Transportation goal is advanced through expenditures in the Transportation program. Transportation is divided into four main categories: capacity projects needed to meet adopted levels of service, projects to enhance public transit opportunities, non-motorized network projects and preservation projects for maintaining the City's existing infrastructure. While all elements impact Balanced Transportation, capacity, transit and non-motorized projects are the most powerful contributors, while the preservation component best advances the Dependable Infrastructure goal, which is discussed later.

In addition, while certain non-motorized projects are discussed in the Neighborhoods goal area, including School Walk Routes, Pedestrian Safety and Bike Safety projects, it is worth noting the important role those projects also play in a balanced transportation system.

Projects to help address traffic congestion, and thus enhance travel times, are highlighted below. It is important to recognize that, with the growth expected in the region, traffic will remain an issue that needs to be addressed through a variety of strategies:

- Projects to address traffic flow in particular areas of congestion including:
 - 100th Ave NE Roadway Improvements (\$10.5 million);
 - Juanita Drive Auto Improvements (\$6.6 million), moved from the unfunded list in 2015-2020; and,
 - Juanita Drive “Quick Wins” (\$726,000).
- The annual signal maintenance program to ensure signals are working properly (\$150,000 per year 2017-2018, increasing to \$200,000 per year in 2019-2022);
- A Citywide Intelligent Transportation System (ITS) Study and ITS Phase 3 (\$75,000 and \$2.2 million respectively);
- Totem Lake Intersection Improvements (\$3 million); this represents a placeholder as the full scope of these improvements, including prior year’s appropriations, is under review pending the Final CIP;
- NE 116th St/124th Ave NE Dual Left Turn Lanes (\$1,225,000), moved from the unfunded list in the 2015-2020 CIP; and,
- A Citywide Transit Study in 2017 to identify local options, including use of the CKC.

Projects that help reduce reliance on single-occupancy vehicles in the non-motorized program are included below:

- NE 124th St./124th Ave. NE Pedestrian Bridge Design/Construction (\$12.1 million);
- The final phase of the Cross Kirkland Connection NE 52nd Street Sidewalk (\$455,000);
- Final phase of funding for CKC Surface Water Drainage at Crestwoods Park (\$700,000 in 2017);
- Kirkland Way Sidewalk Improvements (\$800,000), reduced from \$2.12 million in the adopted 2015-2020 CIP due to the drop of a segment, which may be reincorporated as part of the Final CIP; and,
- 124th Avenue NE Sidewalk Improvements (\$1.28 million), total project cost increased by \$230,000 from the 2015-2020 Adopted CIP due to increased project length and revised cost estimate.



**PARKS, OPEN SPACES AND
RECREATIONAL SERVICES**

Kirkland values an exceptional park, natural areas and recreation system that provides a wide variety of opportunities aimed at promoting the community's health and enjoyment.

Goal: To provide and maintain natural areas and recreational facilities and opportunities that enhance the health and well being of the community.

The Parks, Open Spaces and Recreational Services goal is advanced through investment in the Parks CIP, which is based on the adopted Parks, Recreation, and Open Space (PROS) Plan. It is funded by a combination of revenues including REET, the 2012 Parks levy, the King County Park Levy, external resources, and impact fees. The inclusion of impact fees as a funding source reflects the City Council adoption of the new impact fee methodology in 2015 and the defeasance of existing bonds previously paid by impact fee balances. The funded CIP reflects the Park Board recommendations, with

additional projects added using funds generated or freed up from the impact fee change, as highlighted below:

- The projects proposed as part of the 2012 Parks Levy are funded in the CIP including:
 - Dock and Shoreline Renovations (\$1 million);
 - City-School District Playfield Partnership to upgrade school playfields for neighborhood and community use (\$1 million);
 - Waverly Beach Park Renovation Phase 2 (\$1.25 million);
 - Neighborhood Park Land Acquisition (\$5.2 million)
 - The CIP also includes continuation of the Green Kirkland Program at \$75,000 per year through 2020, increasing to \$100,000 in 2021 and 2022.
- Other project highlights include:
 - Totem Lake Park Development Phase 2 (\$2.44 million), decreased by \$360,000 from the 2015-2020 Adopted CIP due to updated cost estimates, and funding revised to reflect the availability of \$500,000 in grant funding; and,
 - Everest Park Restroom/Storage Building Replacement (\$803,000), increased by \$95,000 from the 2015-2020 Adopted CIP to reflect the addition of a concession stand.

Due to the potential impacts from the Critical Areas Ordinance and Surface Water Design Manual, new projects have not been added in 2021 and 2022. As greater clarity about the impact from these environmental regulations is achieved, projects recommended for funding by the Park Board in these years would include the following:

- Forbes House Renovation (\$414,000);
- Taylor Playfields – Former Houghton Landfill Site Master Plan (\$300,000);
- North Kirkland Community Center Renovation (\$786,000);
- Lee Johnson Field Artificial Turf Installation (\$1,750,000); and,
- Snyder’s Corner (\$1,000,000).



Citizens of Kirkland enjoy high quality services that meet the community's priorities.

Goal: Provide a sustainable level of core services that are funded from predictable revenue.

Though the CIP is largely focused on the replacement and enhancement of the City’s physical infrastructure, in 2017-2022 it includes the Financial System Replacement (\$2.5 million), which supports the Council’s goal of Financial Stability. As previously discussed under key policy issues, it is anticipated that the project will commence in 2017, with full implementation completed by 2019.



We are committed to the protection of the natural environment through an integrated natural resource management system.

Goal: To protect and enhance our natural environment for current residents and future generations.

The Environment goal is primarily advanced through investments in the Surface Water and Sewer program, and through open space acquisitions discussed under the Parks, Open Space and Recreation Services Goal. The Surface Water Management (SWM) Utility CIP is funded from Surface Water rates paid by all property owners and capital facilities charges on new development. Projects in this

category reflect the reconciliation of the Adopted 2015-2020 CIP with the recently adopted Surface Water Master Plan. The primary result of this reconciliation was the deletion of a number of projects from the unfunded list because they were not included in the adopted Surface Water Master Plan, including the following projects:

- NE 95th Street/126th Avenue NE Flood Control Measures, (\$55,900)
- Forbes Creek/Slater Avenue Embankment Stabilization, (\$139,700)
- Forbes Creek / 98th Avenue NE Riparian Plantings, (\$75,500)
- Forbes Creek Ponds Fish Passage/Riparian Plantings, (\$213,000)
- Surface Water Sediment Pond Reclamation (Phase II), (\$851,000)
- Stream Flood Control Measures at Kirkland Post Office, (\$345,400)
- 128th Ave NE/NE 60th Street to NE 64th St Drainage Imp, (\$270,300)
- Juanita Creek Watershed Enhancement Study, (\$50,000)
- Streambank Stabilization Program – NE 86th Street, (\$640,200)

In addition, NE 141st Street Stormwater Pipe Installation (\$170,000) was moved from the funded list to the unfunded list, and three new projects, Holmes Point Pipe Replacement at Champagne Creek Basin (\$240,000), Juanita Drive Culvert Replacement (\$665,000) and Lakeview Drive Conveyance Modification (\$2,562,000) were added to the unfunded projects list. Also included on the unfunded list is \$4.5 million for the 132nd Square Park Stormwater Retrofit Project. This project has received a draft offer of funding from the state Department of Ecology, with the final offer list scheduled for publishing in July. However, funding for the current grant cycle was depleted in the legislative session, so there is no funding for the grant program until the next state fiscal year at the earliest.

Significant highlights affecting funded projects include:

- Regional Detention in Forbes and Juanita Creek Basins (\$1,923,800), a portion of the previously unfunded \$10 million project was moved to funded;
- Forbes Creek/Coors Pond Channel Grade Controls (\$669,500), project moved from unfunded consistent with updated prioritization per the 2014 Surface Water Master Plan and increased from \$424,200 due to updated cost estimate and standard inflation with a start date in 2021;
- Forbes Creek/Cross Kirkland Corridor Fish Passage Improvements, project moved from unfunded consistent with updated prioritization per the 2014 Surface Water Master Plan and increased from \$424,200 to \$669,500 due to updated cost estimate and standard inflation with a start date in 2021.

Utility rates and connection charges fund the Sewer Utility portion of the CIP. A few project highlights are noted below:

- West of Market Sewer Line Replacement (\$5,225,000) moved from unfunded list to funded (balance of unfunded project is \$16,456,000); and,
- Kirkland Avenue Sewermain Replacement (\$2,298,400) increased by \$1,448,000 from the 2015-2020 due to higher cost estimates; and,
- 1st St. Sewermain Replacement (\$3.5 million).

The Preliminary CIP is being incorporated in the water and sewer rate studies currently in process. Once the rate studies are complete, any updated information about rate changes will be factored into the final CIP.

As discussed earlier, environmental regulations implemented through the Critical Areas Ordinance and the Surface Water Design Manual will likely require project modification or mitigation efforts implemented in the CIP. While the actual impact is as yet unknown, the value of the placeholders funded in the Transportation, Surface Water, Parks and Water/Sewer Utility programs reflects the City's commitment to environmental protection as informed by these regulations. As such, these project estimates, and the eventual actual costs, are a clear commitment to the Environment goal.



Kirkland has a diverse, business-friendly economy that supports the community's needs.

Goal: To attract, retain and grow a diverse and stable economic base that supports city revenues, needed goods and services and jobs for residents.

The 2017-2022 CIP includes capital projects related to the proposed redevelopments of Kirkland Urban and Totem Lake Mall, summarized as follows.

Funded Projects Supporting Totem Lake Redevelopment


Project #	Project Name	Project Budget
TOTEM LAKE -- FUNDED		
<i>Transportation</i>		
NM 0086 100	124th St/124th Ave Pedestrian Bridge Design & Construction	12,110,000
NM 0095	124th Avenue NE Sidewalk Improvements	1,280,000
TR 0122	Totem Lake Intersection Improvements	3,031,100
<i>Parks</i>		
PK 0139*	Totem Lake Park Development Phases 1 and 2	3,524,000
<i>Surface Water</i>		
SD 0088	Comfort Inn Pond Modifications	309,100
Total - Totem Lake Funded Projects		20,254,200

*Includes two projects, PK 0139 200 and PK 0139 300

Funded Projects Supporting Kirkland Urban Development

Project #	Project Name	Project Budget
Kirkland Urban -- FUNDED		
<i>Transportation</i>		
NM 0098	Kirkland Way Sidewalk Improvements	800,000
TR 0079 001	NE 85th Street/114th Avenue NE Intersection Improvements Ph II	1,800,000
TR 0082	Central Way/Park Place Center Traffic Signal	200,000
TR 0104	6th Street/4th Ave Intersection Improvements	580,000
TR 0105	Central Way/5th Street Intersection Improvements	564,000
TR 0103	Central Way/4th Street Intersection Improvements	31,000
TR 0100 100	6th Street & Central Way Intersection Improvements Phase 2	1,866,800
Total - Kirkland Urban Funded Projects		5,841,800

It is noteworthy that these lists do not include significant project work that was funded in prior years. As mentioned during CIP deliberations last fall, the projects assume that the City will be successful in securing grant funding for many of the projects. Also, the developer funded Totem Lake costs associated with 120th Ave NE in the prior year CIP are anticipated to be at least partially reimbursed as part of the City's \$15 million commitment in the development agreement with CenterCal.

	<p><i>Kirkland has a well-maintained and sustainable infrastructure that meets the functional needs of the community.</i></p> <p>Goal: To maintain levels of service commensurate with growing community requirements at optimum life-cycle costs.</p>
--	--

The proposed CIP includes a broad set of investments across several programs that are geared towards maintaining our existing infrastructure. These include street and sidewalk preservation projects in the Transportation program, service line repair and replacement projects in the Water/Sewer Utility program and Facility life cycle and technology investments in the General Governmental program.

The following Transportation projects are related to maintaining the integrity of existing infrastructure, including:

- Annual Street Preservation Program (\$10.5 million over the six year period) funded from a mixture of revenues sources, including the Gas Tax, the Revenue Generating Regulatory License Fee, REET 2, and a transfer from the Solid Waste Fund;
- Street Levy Street Preservation (\$14.4 million over the six year period);
- Annual Sidewalk Maintenance (\$800,000 over six-year period);
- Annual Striping Program to ensure crosswalk and other thermoplastic markings meet current Kirkland standards (\$2.9 million over six-year period).

Utility rates and connection charges fund the Water Utility portion of the CIP. The following are highlights of major Water projects that contribute to Dependable Infrastructure in this CIP, including:

- 6th Street S Watermain Replacement (\$838,000), moved to funded from the unfunded list in the 2015-2020 CIP;

- 120th Avenue NE Watermain Improvement (\$710,000); and,
- 126th Avenue NE Watermain Improvement (\$990,000).

The Facilities CIP includes projects that fund preventative maintenance and replacement of key systems. The operating budgets reflect sinking fund charges to fund a reserve that pays for life cycle facility projects. Overall, the current level of funding is sufficient to fund those components identified in the sinking fund:

- Electrical, Energy Management & Lighting Systems (\$233,800 over six years)
- Mechanical/HVAC Systems (\$823,200 over six years)
- Painting, Ceilings, Partition & Window Replacements (\$451,600 over six years)
- Roofing, Gutter, Siding and Deck Replacements (\$438,900 over six years)
- Flooring Replacements (\$635,500 over six years)

It is important to note that the sinking fund projects are intended to maintain these systems to keep facilities in good working condition. The sinking fund is not intended to set aside sufficient funds to rebuild City structures as they reach the end of their useful life, which would require vastly larger funding. The CIP assumes that major renovations or replacements would continue to be identified as separate projects with their own funding strategies (similar to City Hall, the Maintenance Center, and the major fire station modernization unfunded projects).

Maintaining dependable infrastructure requires an efficient mechanism of tracking and scheduling repairs as they are needed. The Electronic Asset Management (EAM)/Maintenance Management System in the Information Technology Program (total project \$1.44 million, of which \$205,600 is funded in 2017) is critical to planning and tracking the maintenance of infrastructure assets, particularly in Public Works. A more robust EAM system will provide valuable management information to be able to proactively maintain assets and allow for measurement of progress against performance goals and objectives. This project is currently in progress.

Similarly, dependable infrastructure to support services levels is supported by two newly funded projects in the Information Technology program, including:

- Court Customer Service Systems Improvements (\$154,400) funded with sales taxes received above budget in 2015. This project would help the court to better manage and schedule court hearings, maintain a library of electronic court forms/templates, auto populate these forms based on the State's case management system, route forms for edits and signature, and archive the completed forms to a document storage system which would automatically have retention for destruction, and eventually update the JIS record automatically; and,
- Sharepoint and TRIM Upgrade (\$187,100), funded primarily with carryover balances from the Record Management System, which would help the city move to the cloud-based version of SharePoint, provide time and effort for a re-design of the user interface and navigation, and ultimately increase security, provide training, and enhance governance. The project includes integration with TRIM, Kirkland's current document management system.

CONCLUSION

The Preliminary 2017 to 2022 CIP continues the investments in Council Goals established by the City Council and makes significant progress on maintaining services that are important to our residents and enhancing the quality of life. It was developed to be decisive and responsive by applying all of

the tools available to identify where to invest the available funds to best align with public input and Council policy guidance, as well as supporting redevelopment opportunities and leveraging external funding sources. While there is still work underway to determine the impacts of upcoming regulatory changes on the CIP, the preliminary CIP sets aside funding to help ensure that planned projects can still be accomplished.

The Final 2017-2022 CIP is scheduled for adoption along with the 2017-2018 Biennial Operating Budget on December 13, 2016.

Respectfully submitted,

Kurt Triplett, City Manager

A handwritten signature in blue ink that reads "Kurt Triplett". The signature is written in a cursive, flowing style.

Michael Olson, Director of Finance and Administration

A handwritten signature in blue ink that reads "Michael Olson". The signature is written in a cursive, flowing style.

POST SCRIPT

The Final 2017 to 2022 Capital Improvement Program (CIP) was adopted by resolution on December 13, 2016. Changes from the presentation of the preliminary CIP in June 2016 and the adopted CIP were primarily related to increasing investments in transportation projects and a park project to support substantial development activity in the Totem Lake area, which includes a major redevelopment of a large shopping mall (Village at Totem Lake).

One of the more significant changes resulted from Council approval for expanding and expediting the development of Totem Lake Park Phase I (PK 0139 200). Funding from three existing park projects were reallocated, along with reallocation of impact fees and additional use of reserves, which increased the project funding by about \$5.3 million as shown in the following table:

PK 0139 200 Totem Lake Park Master Plan & Development Phase I Project Funding

Existing Project Balances:		
PK 0139 100	Totem Lake Park Master Plan	8,000
PK 0134 000	132nd Square Park Playfields	690,000
PK 0139 200	Totem Lake Park Master Plan & Development (Phase I)	660,000
Subtotal Existing Project Balances:		1,358,000
Repurposed Local Funding from Projects in 2017-2022 Preliminary Parks CIP:		
PK 0119 002	Juanita Beach Park Development Phase 2*	808,000
PK 0139 300	Totem Lake Park Development Phase 2*	1,940,000
Subtotal Repurposed Local Funding:		2,748,000
New Funding:		
	Reallocate Impact Fees from NM 0086 100 NE 124th St/124th Ave NE Pedestrian Bridge	1,860,000
	Unallocated REET 1	509,225
Subtotal New Funding:		2,369,225
Existing Project Funding:		
PK 0139 200	Totem Lake Park Master Plan & Development (Phase I)- Local Portion*	584,000
Subtotal Existing Project Funding:		584,000
Total Revised PK 0139 200 Totem Lake Park Master Plan & Development Phase I Project		7,059,225
	Less Existing Project Balance/Funding for PK 0139 200*	(1,744,000)
Total Increase to PK 0139 200 Project in 2017-2022 Proposed CIP		5,315,225

* Original preliminary projects as planned included \$500,000 in external funding; the amounts shown included only the local portion of the funding

Other changes include identification of specific projects funded from annual placeholder funding, setting up planned life cycle replacement projects for park facilities, and recognizing project changes or emerging needs that occurred since June 2016. Following the City Council review of the Preliminary 2017 to 2022 CIP, the following modifications were made for the Final 2017 to 2022 CIP:

TRANSPORTATION

Adjustments to Funded Transportation Projects

- **ST 0006 - Annual Street Preservation Program:** The six-year total reduced from \$10,500,000 to \$9,750,000 with \$750,000 in 2017 moving to two new Street Preservation Projects identified for completion in 2017. See New Projects below (ST 0006 004 and ST 0006 005) with no overall net change for the Annual Street Preservation Program.
- **NM 0095 - 124th Avenue NE Sidewalk Improvements:** Increased budget by \$300,000, funded with \$200,000 from Impact fees and \$100,000 from Surface Water Reserves, due to updated cost estimate now that 30% design is complete. The increases in City revenues for this project are from decreases in other projects, which are offset by external/pending revenue.
- **NM 0098 - Kirkland Avenue Sidewalk Improvements:** Total budget changed from \$800,000 to \$500,000 due to an updated cost estimate based on a modified/reduced scope of work, due in large part to extensive and recent redevelopment activities along the corridor. Project timing changed from 2018 to 2019-2020 due to competing projects and fund balancing.
- **NM 0115 - CKC Emergent Projects Opportunity Fund:** Project reintroduced to current CIP with funding for 2017 and 2018 (\$100,000 each year for two years, a total of \$200,000) from REET 2.
- **TR 0098 – NE 132nd St/116th Way NE (I-405) Intersection Improvements:** Minor technical correction for rounding error.

New Funded Transportation Projects

- **ST 0006 004 - Street Levy Street Preservation, Central Way:** The design for a grind, patch modification of wheelchair ramps and overlay of Central Way after funds became available through a federal Street Preservation design-only grant. City grant match funds are available through the Annual Street Preservation Program for 2017. Overlay of the project will occur through the Street Preservation Program in an outer year to be coordinated with the Kirkland Urban Redevelopment. Total project budget of \$214,000 includes \$184,000 in grant and \$30,000 in City Street Preservation funding.
- **ST 0006 005 - Totem Lake Blvd Roadway Repair:** The design and construction of Totem Lake Boulevard, between NE 124th Street and near 120th Ave NE due to its current condition. Funding is available through the Annual Street Preservation Program for 2017. The rebuild and overlay of the project will occur in coordination with the Village at Totem Lake Redevelopment. Total project budget of \$720,000 is Annual Street Preservation funding shifted from ST 0006.

- **NM 0118 - NE 128th Street / 139th Avenue NE Non-Motorized Improvements:** Construction of sidewalk, curb and gutter, and bike lanes on uphill side of street along storm pipe and associated catch basins. The project will also include enhanced street/pedestrian lighting, private driveway adjustments, signage, and landscape restoration. The total project budget is \$800,000 with \$504,000 in developer contributions, and the remainder funded through project funding shifts within the Transportation CIP, assuming higher external revenue as the offset.
- **NM 0119 - Downtown Pedestrian Access Study:** A study to improve pedestrian safety and access, while potentially reducing delay for transit and motorized vehicles. The study would include evaluating pedestrian crossings on Lake Street, Central Way and Kirkland Avenue. It would also study the signalized intersections at Central Way and Lake Street, and at Kirkland Avenue and Lake Street. The study would evaluate existing conditions and recommend a set of improvements. Community involvement would be included in the study. Possible outcomes could include traffic signal upgrades, signal phasing modifications, mid-block crossing signalization/relocation, and access management. Funding is from REET 2.

NM 0120 - 108th Ave NE Sidewalk Improvements at Edith Mouton Park – a separate transportation project (NM 0120) using existing park project funding for a total of \$600,000 change since the November 1st meeting. The new project is a result of separating the right-of-way frontage improvement from the park improvements for the Edith Moulton park project. Because of the split, the park improvements will have a site specific development review while the frontage improvements will be evaluated as a holistic right-of-way improvement project with storm water flow control not being required. Recognizing the need for storm water controls to protect Juanita Creek, a separate project will be presented to City Council in 2017 to conduct planning and conceptual design for storm water controls for improving conditions in Juanita Creek on a watershed or basin level.

- **TR 0127 - NE 132nd Street Roundabout:** The construction of a three-legged roundabout at the intersection of NE 132nd Street and 136th Avenue NE in support of redevelopment in the Totem Lake Neighborhood. The total project budget is \$320,000 with \$266,000 in developer contribution and \$54,000 from repurposed multimodal gas tax revenue, offset by higher external funding assumptions.

PARKS

Adjustments to Funded Park Projects

- **PK 0119 002 Juanita Beach Park Development Phase 2** moved from funded to unfunded. Local funding for this project totaling \$808,000 has been shifted to PK 0139 200 to accelerate its progress as described earlier. The total project in the preliminary CIP totaled \$1,308,000, of which \$500,000 was external funding.
- **PK 0133 100 – Dock/Shoreline Renovations:** This project was reduced by \$150,000 to pay for the 2020 portion of the new PK 0151 Parks Facilities Sinking Fund Project.
- **PK 0133 300 – Neighborhood Park Land Acquisition:** This project was reduced by \$540,000 to provide funding for:
 - PK 0139 101 Totem Lake Park Acquisition (\$200,000)
 - PK 0139 102 Totem Lake /CKC Land Acquisition (\$190,000)
 - PK 0151 Parks Facilities Sinking Fund Project (\$150,000)

Funding of \$4,614,000 remains in the 2017-2022 CIP for park acquisition opportunities.

- **Totem Lake Park Acquisition PK 0139 101** moved from unfunded to funded in 2017. Reduced from \$3 million to \$550,000, funded from the following:
 - \$150,000 in external funding from King Conservation District;
 - \$200,000 from Surface Water Reserves; and,
 - \$200,000 from PK 0133 300 Park Land Acquisition.
- **PK 0139 102 Totem Lake/CKC Land Acquisition** add \$190,000 in 2017, funded from PK 0133 300 Park Land Acquisition
- **PK 0139 200 Totem Lake Master Plan & Development Phase 1** increased funding as described earlier. Total funded project increase of \$5,315,225.
- **PK 0139 300 Totem Lake Park Development Phase 2** moved from funded to unfunded. Local funding for this project totaling \$1,940,000 has been shifted to PK 0139 200 to accelerate its progress as described earlier. The total project in the preliminary CIP totaled \$2,440,000, of which \$500,000 was external funding.

New Park Projects

- **PK 0151 – Park Facilities Life Cycle Projects** added new project funded by General Fund and Park Levy funds to establish a reserve for projects that will maintain and enhance existing Parks Facilities (\$150,000 funding per year starting in 2019).

Adjustments to Unfunded Park Projects

- **PK 0134 100 132nd Park Playfields** added to the unfunded list. This project was approved for funding in 2016 in the 2015-2020 CIP. Existing balances of \$690,000 have been shifted to PK 0139 200 to accelerate its progress as described earlier. As such, the original project amount of \$712,000 has been placed on the unfunded list.

The proposed shift of a small portion of 2012 Park Levy resources from the Park Land Acquisition project to the Parks Facilities Sinking Fund warrants further exposition in the context of the original purpose of the levy and the commitment to park land acquisition. The levy as proposed to voters was intended to fund park maintenance, enhancement and restoration. The link of levy resources to the funding of the sinking fund is in keeping with this theme, in that a number of the projects funded by the levy, including the new Juanita Beach Park bathhouse and new facilities at Edith Moulton Park, will be maintained with resources in the sinking fund.

Further, this does not reduce the overall financial commitment to park land acquisition outlined in the levy proposal. The fact sheet prepared for the 2012 levy stated that the levy would initially fund \$2.5 million for neighborhood park land acquisition. After the levy was approved by voters (Nov. 2012) the City learned from the County that the actual revenue collections from the levy would be slightly lower than what were estimated. The land acquisition project funding was adjusted accordingly to a total of \$2.35 million and approved by Council as part of the 2013-2018 CIP. The \$2.35 million figure is what has been used in the annual park levy accountability reports.

Park acquisition expenditures since the levy was passed include:

- Juanita Heights Park expansion, which totaled \$660,000, of which \$238,991 was 2012 park levy money; and,
- Totem Lake Park, which used \$610,000 from 2012 Park Levy monies.

Park acquisition expenditures planned in the 2017-2022 CIP include:

- Totem Lake Park Acquisition, \$550,000 with \$190,000 from Park Levy funding
- Totem Lake/CKC Land Acquisition, \$190,000 from Park Levy funding
- Neighborhood Park Land Acquisition (opportunity funds) \$1,710,000 from Park Levy funding and \$2,904,000 from Impact Fees

The Council, Park Board and staff have proposed that the City continue to place a high priority on neighborhood park land acquisition in the 2017 – 2022 CIP, using a combination of future park levy revenues and park impact fee revenues. These are additional acquisition dollars that more than double what was promised in the levy.

SURFACE WATER

Adjustments to Funded Surface Water Projects

- **CKC Surface Water Drainage at Crestwoods Park** (SD 0106 001), revised cost estimate reducing the cost by \$350,000. This change reduced grant funding for the project by a like amount.

Changes from the preliminary 2017-2022 CIP to the adopted 2017-2022 CIP are summarized in the following tables:

2017-2022 Capital Improvement Program

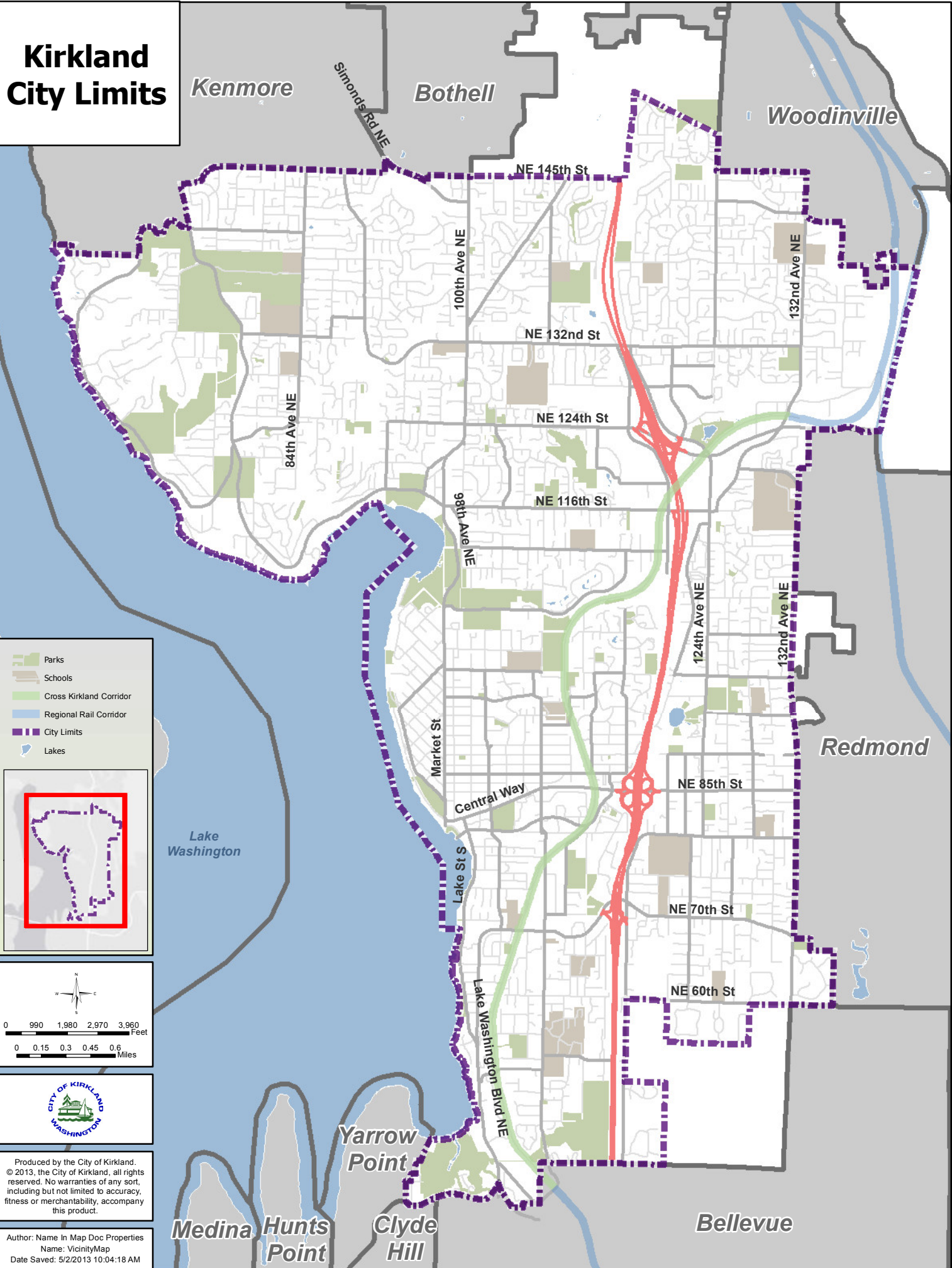
	6-Year Funded CIP	Unfunded Future City Revenues	External/New Revenues	Total CIP
Transportation	92,248,900	162,119,600	187,663,500	442,032,000
Parks	19,114,225	63,035,000	67,000,000	149,149,225
Public Safety	18,385,500	369,100	32,560,400	51,315,000
General Government				
Technology	8,727,600	559,000	-	9,286,600
Facilities	2,583,000	-	-	2,583,000
Subtotal	141,059,225	226,082,700	287,223,900	654,365,825
Surface Water Mgmt	14,202,000	20,079,200	-	34,281,200
Water/Sewer	37,860,000	37,472,800	16,456,000	91,788,800
Utilities Subtotal	52,062,000	57,552,000	16,456,000	126,070,000
Grand Total Adopted CIP	193,121,225	283,634,700	303,679,900	780,435,825
Preliminary CIP	188,742,300	282,174,700	303,679,900	774,596,900
Difference	4,378,925	1,460,000	-	5,838,925

		6-Year Funded CIP	Unfunded Future City Revenues	Unfunded External/New Revenue	Total CIP
Preliminary 2017-2022 CIP		188,742,300	282,174,700	303,679,900	774,596,900
ST 0006	Annual Street Preservation Program	(750,000)			(750,000)
ST 0006 004	Street Levy Street Preservation, Central Way	214,000			214,000
ST 0006 005	Totem Lake Blvd Roadway Repair	720,000			720,000
NM 0095	124th Avenue NE Sidewalk Improvements	300,000			300,000
NM 0098	Kirkland Avenue Sidewalk Improvements	(300,000)			(300,000)
NM 0115	CKC Emergent Projects Opportunity Fund	200,000			200,000
NM 0118	NE 128th Street/139th Ave NE Non-Motorized Improvements	800,000			800,000
NM 0119	Downtown Pedestrian Access Study	50,000			50,000
NM 0120	108th Ave NE Sidewalk Improvement at Edith Moulton Park	600,000			600,000
TR 0098	NE 132nd St/116th Way NE (I-405) Intersection Improvements	(300)			(300)
TR 0127	NE 132nd Street Roundabout	320,000			320,000
PK 0119 002	Juanita Beach Park Development Phase 2	(1,308,000)	1,308,000		-
PK 0133 100	Dock/Shoreline Renovations	(150,000)			(150,000)
PK 0133 300	Park Land Acquisition	(540,000)			(540,000)
PK 0134 100	132nd Pk Playfields		712,000		712,000
PK 0139 101	Totem Lake Park Acquisition	550,000	(3,000,000)		(2,450,000)
PK 0139 102	Totem Lake/CKC Land Acquisition	190,000			190,000
PK 0139 200	Totem Lake Master Plan & Development Phase 1 (Expanded)	5,315,225			5,315,225
PK 0139 300	Totem Lake Park Development Phase 2	(2,440,000)	2,440,000		-
PK 0151	Parks Facilities Sinking Fund	958,000			958,000
SD 0106 001	CKC Surface Water Drainage at Crestwoods Park Design/Construction	(350,000)			(350,000)
Subtotal Changes to Adopted 2017-2022 CIP		4,378,925	1,460,000	-	5,838,925
Adopted 2017-2022 CIP		193,121,225	283,634,700	303,679,900	780,435,825

The table on the following page summarized revenue sources for the adopted 2017 to 2022 CIP.

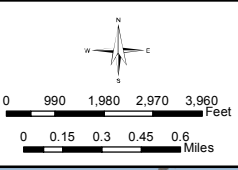
**2017-2022 Capital Improvement Program
Revenue Sources (in thousands)**

Dedicated Revenue	2017	2018	2019	2020	2021	2022	6-Year Total
Transportation							
Gas Tax	610	622	634	647	660	673	3,846
Gas Tax (Transportation Package)	100	150	200	200	-	200	850
Business License Fees	270	270	270	270	270	270	1,620
Real Estate Excise Tax (REET) 1	398	410	422	435	448	461	2,574
Real Estate Excise Tax (REET) 2	1,355	1,342	1,279	1,318	1,233	1,274	7,801
Street & Pedestrian Safety Levy	2,626	2,652	2,679	2,706	2,733	2,760	16,156
Transportation Impact Fees	3,440	3,410	1,750	1,000	425	275	10,300
King County Park Levy	-	300	300	-	-	-	600
Walkable Kirkland	520	400	400	400	-	-	1,720
Utility Rates	500	500	500	500	320	260	2,580
Utility Reserves	526	306	207	-	-	-	1,039
Solid Waste Street Preservation	300	300	300	300	300	300	1,800
REET 2 Reserve	3,158	1,579	480	480	480	480	6,657
REET 1 Reserve	100	-	-	-	-	-	100
Carryover PY Funds	600						600
External Sources	14,436	3,103	4,440	5,742	3,146	3,140	34,006
Subtotal Transportation	28,939	15,344	13,861	13,998	10,015	10,093	92,249
Parks							
Real Estate Excise Tax 1	215	868	1,438	885	160	160	3,726
Impact Fees	110	999	2,891	1,750	1,050	1,150	7,950
Parks Levy	1,250	1,250	1,000	823	250	250	4,823
REET 1 Reserve	100	-	509	-	-	-	609
Surface Water Reserves	200	-	-	-	-	-	200
Park Facilities Sinking Fund	168	146	162	151	162	169	958
Carryover PY Funds	-	698	-	-	-	-	698
External Sources	150	-	-	-	-	-	150
Subtotal Parks	2,193	3,961	6,000	3,609	1,622	1,729	19,114
General Government: Technology, Facilities & Public Safety							
General Fund Contributions for:							
Public Sfty. Equip. Sinking Fund	155	173	693	369	246	149	1,785
Technology Equip. Sinking Fund	289	1,197	209	1,051	545	180	3,471
Utility Rates	456	256	256	256	256	256	1,736
Health Fund Transfer	1,000	-	-	-	-	-	1,000
Facilities Life Cycle Reserve	425	554	529	606	279	190	2,583
Maj Sys Replacement Rsv	1,300	-	-	-	-	-	1,300
REET 1 Reserves	772	3,700	-	-	-	-	4,472
General Fund Cash	3,360	1,937	114	174	114	174	5,873
Fire District 41 Reserves	2,656	-	-	-	-	-	2,656
Carryover PY Funds	87	63	-	-	-	-	150
REET 1	-	4,200	-	-	-	-	4,200
Land Sales Proceeds	-	470	-	-	-	-	470
Subtotal General Government	10,500	12,550	1,801	2,456	1,440	949	29,696
Utilities							
Utility Connection Charges	865	865	865	865	865	865	5,190
Utility Rates - Surface Water	1,801	1,872	1,916	2,120	2,139	2,204	12,052
Utility Rates - Water/Sewer	3,764	4,070	4,355	4,698	5,015	5,368	27,270
Reserves	4,450	50	1,500	50	1,450	50	7,550
External Sources	-	-	-	-	-	-	-
Subtotal Utilities	10,880	6,857	8,636	7,733	9,469	8,487	52,062
Total Revenues	52,512	38,712	30,298	27,796	22,546	21,258	193,121



Kirkland City Limits

- Parks
- Schools
- Cross Kirkland Corridor
- Regional Rail Corridor
- City Limits
- Lakes



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Summary

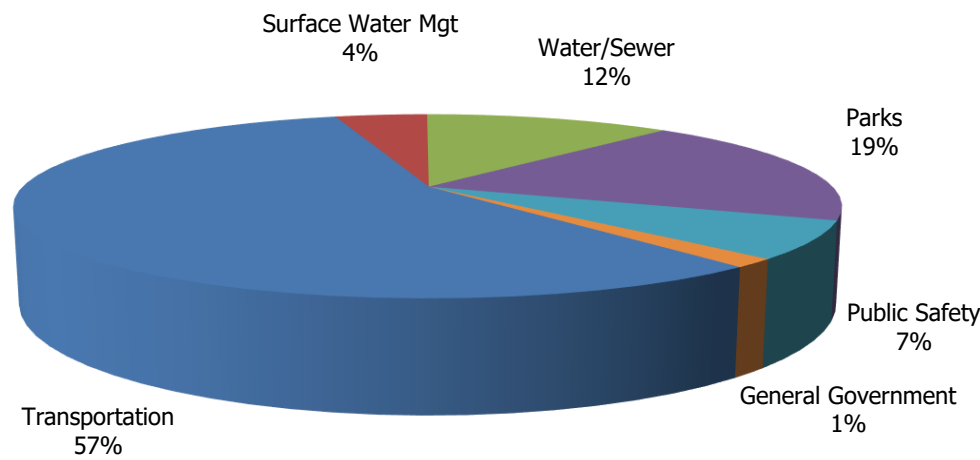


Capital Improvement Program

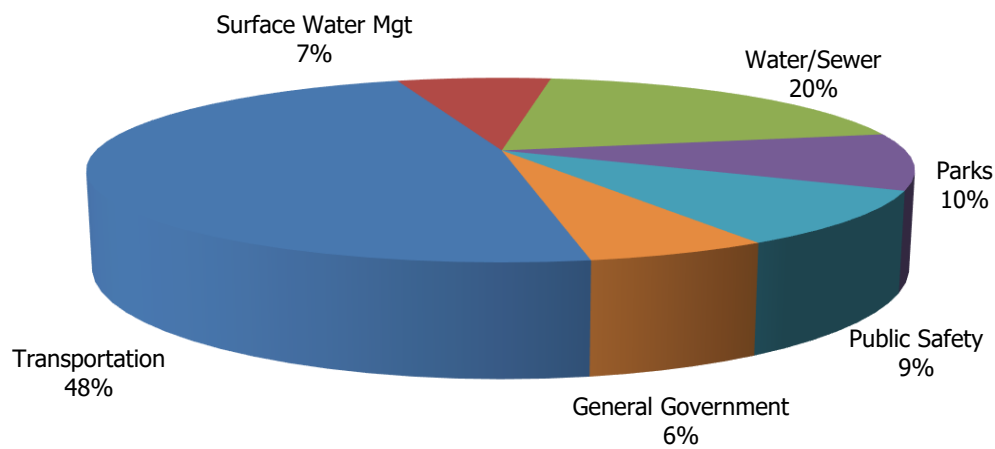
City of Kirkland
Capital Improvement Program
2017-2022



Requested - \$780,435,825



Funded - \$193,121,225





City of Kirkland

Capital Improvement Program

2017-2022

	6-year Funded CIP	Unfunded Future City Revenues	External/New Revenues	Total CIP
Transportation	92,248,900	162,119,600	187,663,500	442,032,000
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Total 2017-2022 CIP	193,121,225	283,634,700	303,679,900	780,435,825

List of projects and project descriptions are located in each category section:

Transportation	Page 22
Parks	Page 60
Public Safety	Page 68
General Government	Page 74
Surface Water Mgt.	Page 40
Water/Sewer	Page 50



Neighborhood Summary



CITY OF KIRKLAND
2017-2022 Capital Improvement Program
Projects by Neighborhood

Central Houghton		
Project Number	Project Title	Project Start
NM 0007 000	CROSS KIRKLAND CORRIDOR - NE 52ND STREET SIDEWALK	2016
SS 0052 000	108TH AVENUE NE SEWERMAIN REPLACEMENT	2017
City-wide		
Project Number	Project Title	Project Start
IT 0702 000	EAM MAINTENANCE MANAGEMENT SYSTEM REPLACEMENT	2013
NM 0087 000	CITYWIDE SCHOOL WALK ROUTE ENHANCEMENTS	2016
NM 0113 001	CITYWIDE GREENWAYS NETWORK PROJECT	2016
NM 0115 000	CKC EMERGENT PROJECTS OPPORTUNITY FUND	2016
PS 0080 000	EMERGENCY GENERATORS	2016
TR 0116 000	ANNUAL SIGNAL MAINTENANCE PROGRAM	2016
TR 0118 000	GENERAL PARKING LOT IMPROVEMENTS	2016
IT 0302 000	COURT CUSTOMER-SERVICE SYSTEMS IMPROVEMENTS	2017
IT 0303 000	SHAREPOINT AND TRIM UPGRADE	2017
NM 0092 000	ACTIVE TRANSPORTATION PLAN UPDATE	2017
NM 7777 000	ANNUAL NON-MOTORIZED CAO/SWDM SURFACE WATER SUPPORT	2017
PK 0151 000	PARK FACILITIES LIFE CYCLE PROJECTS	2017
PS 3003 000	FIRE STATION 27 PROPERTY ACQUISITION	2017
PT 0001 000	CITYWIDE TRANSIT STUDY	2017
TR 0119 000	KIRKLAND CITYWIDE ITS STUDY	2017
TR 7777 000	ANNUAL TRAFFIC CAO/SWDM SURFACE WATER SUPPORT	2017
IT 0402 000	FINANCIAL SYSTEM REPLACEMENT	2018
NM 0110 001	CITYWIDE ACCESSIBILITY IMPROVEMENTS	2018
NM 0113 002	CITYWIDE GREENWAYS NETWORK PROJECT	2018
PK 0147 000	PARKS MAINTENANCE CENTER	2018
TR 0120 000	KIRKLAND ITS PHASE III	2018
NM 0109 000	CITY-WIDE TRAIL CONNECTIONS (NON-CKC)	2020
NM 0113 000	CITYWIDE GREENWAYS NETWORKS	2020
SD 0046 001	REGIONAL DETENTION IN FORBES CREEK BASIN - PHASE 1	2021
GG 0008 000	ELECTRICAL, ENERGY MANAGEMENT, AND LIGHTING SYSTEMS	Ongoing
GG 0009 000	MECHANICAL/HVAC SYSTEMS REPLACEMENT	Ongoing
GG 0010 000	PAINTING, CEILINGS, PARTITION, WINDOW REPLACEMENT	Ongoing
GG 0011 000	ROOFING, GUTTER, SIDING AND DECK REPLACEMENTS	Ongoing
GG 0012 000	FLOORING REPLACEMENTS	Ongoing
IT 0100 000	NETWORK SERVER REPLACEMENTS	Ongoing
IT 0110 000	NETWORK INFRASTRUCTURE	Ongoing

CITY OF KIRKLAND
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IT 0120 000	NETWORK STORAGE, BACKUP AND ARCHIVING	Ongoing
IT 0130 000	NETWORK PHONE SYSTEM	Ongoing
IT 0140 000	NETWORK SECURITY	Ongoing
IT 0200 000	GEOGRAPHIC INFORMATION SYSTEMS	Ongoing
IT 0500 000	COPIER REPLACEMENTS	Ongoing
NM 0006 100	STREET LEVY - SAFE ROUTES TO SCHOOLS	Ongoing
NM 0057 000	ANNUAL SIDEWALK MAINTENANCE PROGRAM	Ongoing
PK 0049 000	OPEN SPACE, PARK LAND & TRAIL ACQUISITION GRANT MATCH PROGRAM	Ongoing
PK 0066 000	PARK PLAY AREA ENHANCEMENTS	Ongoing
PK 0121 000	GREEN KIRKLAND FOREST RESTORATION PROGRAM	Ongoing
PK 0133 100	DOCK AND SHORELINE RENOVATIONS	Ongoing
PK 0133 200	CITY-SCHOOL PLAYFIELD PARTNERSHIP	Ongoing
PK 0133 300	NEIGHBORHOOD PARK LAND ACQUISTION	Ongoing
PS 0062 000	DEFIBRILLATOR UNIT REPLACEMENT	Ongoing
PS 0066 000	THERMAL IMAGING CAMERAS REPLACEMENT	Ongoing
PS 0071 000	SELF-CONTAINED BREATHING APPARATUS (SCBA)	Ongoing
PS 0076 000	PERSONAL PROTECTIVE EQUIPMENT (PPE)	Ongoing
PS 1000 000	POLICE EQUIPMENT REPLACEMENT	Ongoing
PS 2000 000	FIRE EQUIPMENT REPLACEMENT	Ongoing
SD 0047 000	ANNUAL REPLACEMENT OF AGING /FAILING INFRASTRUCTURE	Ongoing
SD 0081 000	NEIGHBORHOOD DRAINAGE ASSISTANCE PROGRAM (NDA)	Ongoing
SD 0105 000	PROPERTY ACQUISITION OPPORTUNITY FUND	Ongoing
SS 8888 000	ANNUAL SANITARY PIPELINE REPLACEMENT PROGRAM	Ongoing
SS 9999 000	ANNUAL SANITARY PUMP STATION/SYSTEM UPGRADE PROGRAM	Ongoing
ST 0006 000	ANNUAL STREET PRESERVATION PROGRAM	Ongoing
ST 0006 003	STREET LEVY STREET PRESERVATION PROJECT	Ongoing
ST 0080 000	ANNUAL STRIPING PROGRAM	Ongoing
ST 9999 000	REGIONAL INTER-AGENCY COORDINATION	Ongoing
TR 0117 000	CITYWIDE TRAFFIC MANAGEMENT SAFETY IMPROVEMENTS	Ongoing
TR 0117 002	VISION ZERO SAFETY IMPROVEMENT	Ongoing
WA 8888 000	ANNUAL WATERMAIN REPLACEMENT PROGRAM	Ongoing
WA 9999 000	ANNUAL WATER PUMP STATION/SYSTEM UPGRADE PROGRAM	Ongoing
NM 0006 200	STREETS LEVY - PEDESTRIAN SAFETY	On-going
NM 0006 201	NEIGHBORHOOD SAFETY PROGRAM IMPROVEMENTS	On-going
SD 7777 000	SUFACE WATER CAO/SWDM SUPPORT	On-going
SS 7777 000	ANNUAL SEWER CAO/SWDM SUPPORT	On-going
TR 0117 003	NEIGHBORHOOD TRAFFIC CONTROL PROGRAM	On-going
WA 7777 000	ANNUAL WATER CAO/SWDM SUPPORT	On-going

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Projects by Neighborhood

Everest

Project Number	Project Title	Project Start
PK 0138 000	EVEREST PARK RESTROOM/STORAGE BUILDING REPLACEMENT	2014
SS 0051 000	6TH STREET SOUTH SEWERMAIN REPLACEMENT	2017
TR 0079 001	NE 85TH STREET/114TH AVENUE NE INTERSECTION IMPROVEMENTS PHASE II	2017
WA 0139 000	6TH STREET SOUTH WATERMAIN REPLACEMENT	2017
SS 0072 000	KIRKLAND AVENUE SEWER MAIN REPLACEMENT	2018
WA 0134 000	5TH AVENUE S/8TH STREET S WATERMAIN REPLACEMENT	2019
SD 0063 000	EVEREST CREEK - SLATER AVENUE AT ALEXANDER STREET	2020

Finn Hill

Project Number	Project Title	Project Start
SD 0076 000	NE 141ST STREET/111TH AVENUE NE CULVERT HEADWALL REPAIR	2013
NM 0090 000	JUANITA DRIVE 'QUICK WINS'	2015
SD 0091 000	HOLMES POINT DRIVE PIPE REPLACEMENT	2015
PS 3001 000	FIRE STATION 25 RENOVATION	2017
NM 0109 001	FINN HILL TRAIL CONNECTIONS (NON-CKC)	2018
SD 0089 000	NE 142ND STREET SURFACE WATER DRAINAGE IMPROVEMENTS	2018
SD 0098 000	CHAMPAGNE CREEK STORMWATER RETROFIT	2018
NM 0090 001	JUANITA DRIVE MULTI-MODAL (ON STREET) IMPROVEMENTS	2020
SD 0090 000	GOAT HILL DRAINAGE DITCH AND CHANNEL STABILIZATION	2020

Kingsgate

Project Number	Project Title	Project Start
NM 0012 003	132ND AVENUE NE CROSSWALK UPGRADE	2018
NM 0087 001	NORTH KIRKLAND/JFK SCHOOL WALK ROUTE ENHANCEMENTS	2019

Market

Project Number	Project Title	Project Start
SD 0084 000	MARKET STREET STORM MAIN REHABILITATION	2018
WA 0157 000	8TH AVENUE WEST WATERMAIN IMPROVEMENT	2018
PK 0087 101	WAVERLY BEACH PARK RENOVATION (PHASE 2)	2019
SS 0077 001	WEST OF MARKET SEWERMAIN REPLACEMENT - PHASE 1	2020

Moss Bay

Project Number	Project Title	Project Start
NM 0089 000	LAKE FRONT PEDESTRIAN AND BICYCLE IMPROVEMENTS	2015
NM 0119 000	DOWNTOWN PEDESTRIAN ACCESS STUDY	2017
SD 0093 000	PLEASANT BAY APARTMENTS LINE REPLACEMENT	2017

CITY OF KIRKLAND
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Projects by Neighborhood

ST 0006 004	ANNUAL STREET PRESERVATION PROGRAM - CENTRAL WAY DESIGN	2017
TR 0082 000	CENTRAL WAY/PARK PLACE CENTER TRAFFIC SIGNAL	2017
TR 0100 100	6TH STREET AND CENTRAL WAY INTERSECTION IMPROVEMENTS PHASE 2	2017
TR 0103 000	CENTRAL WAY / 4TH STREET INTERSECTION IMPROVEMENTS	2017
TR 0104 000	6TH STREET / 4TH AVENUE INTERSECTION IMPROVEMENTS	2017
TR 0105 000	CENTRAL WAY / 5TH STREET INTERSECTION IMPROVEMENTS	2017
NM 0098 000	KIRKLAND AVENUE SIDEWALK	2018
NM 0109 002	LAKE FRONT PROMENADE DESIGN STUDY	2020

Norkirk

Project Number	Project Title	Project Start
SS 0069 000	1ST STREET SEWER MAIN REPLACEMENT	2016
SS 0070 000	5TH STREET SEWER MAIN REPLACEMENT	2016
WA 0153 000	3RD STREET WATERMAIN IMPROVEMENT	2016
WA 0154 000	4TH STREET WATERMAIN REPLACEMENT PHASE 2	2016
NM 0012 004	CENTRAL WAY CROSSWALK UPGRADE	2019

North Juanita

Project Number	Project Title	Project Start
NM 0120 000	108TH AVENUE NE SIDEWALK AT EDITH MOULTON PARK	2017
SD 0092 000	JUANITA CREEK CULVERT AT NE 137TH STREET	2017
PS 3002 002	FIRE STATION 24 REPLACEMENT	2018
SD 0097 000	CHAMPAGNE CREEK STABILIZATION	2018
ST 0083 102	100TH AVENUE NE ROADWAY IMPROVEMENTS	2019
SD 0100 000	BROOKHAVEN POND MODIFICATIONS	2020
ST 0089 000	JUANITA DRIVE AUTO IMPROVEMENTS	2021

North Rose Hill

Project Number	Project Title	Project Start
NM 0095 000	124TH AVENUE NE SIDEWALK	2016
TR 0092 000	NE 116TH STREET/124TH AVE NE NORTHBOUND DUAL LEFT TURN LANES	2016
SD 0094 000	NE 114TH PLACE STORMLINE REPLACEMENT	2020

South Juanita

Project Number	Project Title	Project Start
NM 0012 001	NE 116TH STREET CROSSWALK UPGRADE	2017
WA 0102 000	104TH AVE NE WATERMAIN REPLACEMENT	2018
WA 0158 000	NE 112TH STREET WATERMAIN IMPROVEMENT	2018
WA 0159 000	NE 113TH PLACE WATERMAIN IMPROVEMENT	2018
SD 0049 000	FORBES CREEK / 108TH AVENUE NE FISH PASSAGE IMPROVEMENTS	2019

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SD 0099 000	GOAT HILL DRAINAGE CONVEYANCE CAPACITY	2019
SS 0062 000	NE 108TH STREET NE SEWERMAIN REPLACEMENT	2020
SD 0053 000	FORBES CREEK / COORS POND CHANNEL GRADE CONTROLS	2021
SD 0054 000	FORBES CREEK / CROSS KIRKLAND CORRIDOR FISH PASSAGE IMPROVEMENTS	2021

South Rose Hill

Project Number	Project Title	Project Start
WA 0155 000	120TH AVENUE NE WATERMAIN IMPROVEMENT	2017
WA 0156 000	122ND AVENUE NE WATERMAIN IMPROVEMENT	2017
SD 0087 000	SILVER SPURS FLOOD REDUCTION	2018
WA 0160 000	126TH AVENUE NE WATERMAIN IMPROVEMENT	2018

Totem Lake

Project Number	Project Title	Project Start
PK 0139 200	TOTEM LAKE PARK DEVELOPMENT EXPANDED PHASE 1	2015
NM 0086 100	NE 124TH ST/124TH AVE NE PEDESTRIAN BRIDGE (TOTEM LAKE NON-MOTORIZED BRIDGE	2016
SD 0088 000	COMFORT INN POND MODIFICATIONS	2016
SD 0106 001	CKC SURFACE WATER DRAINAGE AT CRESTWOODS PARK DESIGN/CONSTRUCTION	2016
TR 0122 000	TOTEM LAKE INTERSECTION IMPROVEMENTS	2016
NM 0118 000	NE 128th STREET/139th AVENUE NE SIDEWALK	2017
PK 0139 101	TOTEM LAKE PARK ACQUISITION	2017
PK 0139 102	TOTEM LAKE/CKC LAND ACQUISITION	2017
ST 0006 005	TOTEM LAKE BLVD ROADWAY REPAIR	2017
ST 0059 101	124TH AVENUE NE ROADWAY IMPROVEMENTS (NORTH SECTION) - DESIGN	2017
TR 0091 101	NE 124TH ST/124TH AVE NE/TOTEM LAKE BLVD INTERSECTION IMPROVEMENTS - DESIGN	2017
TR 0098 000	NE 132ND STREET / 116TH WAY NE - TOTEM LAKE BLVD (I-405) INTERSECTION IMPROVE	2017
TR 0127 000	NE 132ND STREET/136TH AVENUE NE ROUNDABOUT	2017



Project Modifications and Deletions Schedule



CITY OF KIRKLAND
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PROJECT MODIFICATIONS AND DELETIONS SCHEDULE

The Project Modifications Schedule provides a brief explanation of why a project has changed from the previous CIP, in this case the revised 2015-2020 CIP. Projects may be modified for a variety of reasons including changes in timing, increased or decreased cost estimates, changes in the scope of the project previously approved by Council, or the project moving between unfunded and funded status, or if the project is no longer needed or feasible, it may be deleted. Greater detail about specific projects can be found on the individual project sheets located in the Project Detail document. Project modifications that require additional funding have either been reviewed by Council already or are addressed by the annual funding allocation within the CIP.

TRANSPORTATION - Street

ST 0006 000 ANNUAL STREET PRESERVATION PROGRAM

The six-year project total changed from \$10,500,000 to \$9,750,000 with a \$750,000 reduction in 2017 in order to shift funds for City grant match on companion Street Preservation Project CST 0006-004 -- Annual Street Preservation Program, Central Way and to fund CST 0006-005 - Totem Lake Blvd Roadway Repair, both to be completed in 2017.

ST 0006 003 STREET LEVY STREET PRESERVATION PROJECT

Total project costs changed from \$14,063,000 to \$14,356,000 to reflect the projected annual funding as of 2017 to reflect assumption of 1% optional property tax increase.

ST 0059 101 124TH AVENUE NE ROADWAY IMPROVEMENTS (NORTH SECTION) - DESIGN

A modified design-only phase (Project counter "101") for the Project as it was selected as a top grant candidate for STP (federal) funding for design-only in 2017; also see TR 0091 101 as companion project for design of the NE 124th Street/124th Avenue NE/Totem Lake Blvd Intersection Improvement Project. Project funding for this phase has been adjusted to be additive with currently Unfunded Project phases (counters "102" and "103").

ST 0059 102 124TH AVENUE NE ROADWAY IMPROVEMENTS (NORTH SECTION) - RIGHT-OF-WAY

A modified right-of-way (ROW) acquisition-only phase (Project counter "102"). The ROW phase is currently the top contingency list grant candidate for STP (federal) funding; also see TR 0091 102 as a companion grant-eligible project. Project funding for this phase has been adjusted to be additive with one Funded and one other Unfunded phase (counters "101" and "103").

ST 0059 103 124TH AVENUE NE ROADWAY IMPROVEMENTS (NORTH SECTION) - CONSTRUCTION

A modified construction phase (Project counter "103"). Staff continuing to pursue grant funding for this construction phase as well as for the construction phase of a companion project for improvements at NE 124th Street/124th Avenue NE/Totem Lake Blvd Intersection, TR 0091 103. Project funding for this phase has been adjusted to be additive with one Funded and one other Unfunded phase (counters "101" and "102").

ST 0080 000 ANNUAL STRIPING PROGRAM

Total project cost changed from \$2,650,000 to \$2,900,000 due to a progressive increase in funding for this Annual Program, consistent with Transportation Master Plan priorities.

ST 0089 000 JUANITA DRIVE AUTO IMPROVEMENTS

Project moved from Unfunded with a start date in 2021; total project funding is programmed and balanced with currently unsecured external funding.

TRANSPORTATION - Non-Motorized

NM 0006 100 STREET LEVY - SAFE ROUTES TO SCHOOLS

Project cost changed from \$150,000 to \$300,000 as Annual Levy revenue has been programmed for the outer years of 2021 and 2022, after being directed to specific school walk route projects in support of the 2001 School Walk Route Improvement List with annual funding of \$150,000 per year being moved to project NM 0087 000 for years 2017 - 2020.

NM 0006 201 NEIGHBORHOOD SAFETY PROGRAM IMPROVEMENTS

The total project costs change from \$1,200,000 to \$800,000 for current CIP 6-years; project funding ends after 2020.

NM 0063 000 KIRKLAND WAY SIDEWALK

Project Description and Location/limits modified and updated for clarity and less confusion with nearby project on Kirkland Avenue.

CITY OF KIRKLAND
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NM 0080 000	JUANITA-KINGSGATE PEDESTRIAN BRIDGE AT I-405 A change for the project location identifying NE 140th Street as the preferred bridge location and a more refined project description to better define the scope.
NM 0087 000	CITYWIDE SCHOOL WALK ROUTE ENHANCEMENTS Total project cost changed from \$3,583,300 to \$3,183,200 (six-year total) with funding added for the outer years of 2021 and 2022.
NM 0089 000	LAKE FRONT PEDESTRIAN AND BICYCLE IMPROVEMENTS Total project total costs increased from \$1,000,000 to \$1,011,000 due to updated cost estimate and to account for grant ineligible expenses; Method of Financing has been updated to reflect receipt of additional grant funding from the State, with no change in original City contribution.
NM 0090 000	JUANITA DRIVE 'QUICK WINS' Project total costs increased from \$1,350,000 to \$1,412,600 due to updated cost estimate and to account for grant ineligible expenses; Method of Financing has been updated to reflect receipt of additional grant funding from the State, with no change in original City contribution.
NM 0090 001	JUANITA DRIVE MULTI-MODAL (ON STREET) IMPROVEMENTS Total project cost changed from \$500,000 to \$525,000 based on an updated estimate.
NM 0095 000	124TH AVENUE NE SIDEWALK Total project costs increased from \$1,050,000 to \$2,000,000 due to increased project length noted in Project Location, and an updated cost estimate at 30% design with a more complete understanding of environmental permitting issues; project Method of Financing modified to include external funding being sought with a changed project end date of 2018. A Transportation Improvement Board grant application was submitted on August 19, 2016 with results known in December 2016.
NM 0098 000	KIRKLAND AVENUE SIDEWALK Resolved confusion over Project Title/Location (Avenue vs Way). Total project costs changed from \$2,120,000 to \$500,000 due to an updated cost estimate based on a modified/reduced scope of work primarily due to extensive and recent redevelopment activities along the corridor. Project timing changed from 2018 to 2019 - 2020 due to competing projects and fund balancing.
NM 0110 001	CITYWIDE ACCESSIBILITY IMPROVEMENTS Total project costs changed from \$300,000 to \$500,000 due to the inclusion of the outer years 2021 and 2022.
NM 0113 000	CITYWIDE GREENWAYS NETWORKS Total project costs changed from \$250,000 to \$750,000 due to the inclusion of the outer years 2021 and 2022.
NM 0115 000	CKC EMERGENT PROJECTS OPPORTUNITY FUND Project reintroduced to current CIP with funding for 2017 and 2018.
NM 8888 100	ON-STREET BICYCLE NETWORK Total project costs changed from \$4,400,000 to \$3,280,000 due to the creation of NM 0117 as a Phase I On-Street Bicycle Project. The result is a corresponding cost balancing and reduction for this Unfunded project.

TRANSPORTATION - Traffic Improvement

TR 0091 101	NE 124TH ST/124TH AVE NE/TOTEM LAKE BLVD INTERSECTION IMPROVEMENTS - DESIGN A modified design-only phase (Project counter "101") for the Project as it was selected as a top grant candidate for STP (federal) funding; also see ST 0059 101 as companion project for design of the 124th Avenue NE Roadway Improvement element of this combined improvement project. Project funding for this phase has been adjusted to be additive with currently Unfunded Project phases (counters "102" and "103").
TR 0091 102	NE 124TH ST/124TH AVE NE/TOTEM LAKE BLVD INTERSECTION IMPROVEMENTS - RIGHT-OF-WAY A modified right-of-way (ROW) acquisition-only phase (Project counter "102"). The ROW phase is currently the top contingency list grant candidate for STP (federal) funding; also see ST0059 102 as a companion grant-eligible project. Project funding for this phase has been adjusted as a result of one Funded and one Unfunded phases (counters "101" and "103").

CITY OF KIRKLAND
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TR 0091 103	NE 124TH ST/124TH AVE NE/TOTEM LAKE BLVD INTERSECTION IMPROVEMENTS - CONSTRUCTION A modified construction phase (Project counter "103"); also see companion project ST0059 103 - NE 124th Avenue Roadway Improvement Project. Staff is continuing to pursue grant funding for this construction phase as well as for the construction phase for a companion project for improvements. Project funding for this phase has been adjusted of one Funded and one Unfunded phases (counters "101" and "102").
TR 0092 000	NE 116TH STREET/124TH AVE NE NORTHBOUND DUAL LEFT TURN LANES Project moved from Unfunded; funding modified to include \$790,000 TIB Grant funding with project start in 2016, as approved by City Council at the March 1, 2016 meeting.
TR 0098 000	NE 132ND STREET / 116TH WAY NE - TOTEM LAKE BLVD (I-405) INTERSECTION IMPROVEMENTS Project moved from Unfunded with start in 2017 to be consistent with the WSDOT design start for the I-405 and NE 132nd Street Interchange in the same year.
TR 0116 000	ANNUAL SIGNAL MAINTENANCE PROGRAM Total project cost changed from \$850,000 to \$1,100,000 (for six-years) due to the addition of funding for outer years 2021 and 2020.
TR 0117 000	CITYWIDE TRAFFIC MANAGEMENT SAFETY IMPROVEMENTS Total project cost changed from \$400,000 to \$600,000 (for six-years) due to the addition of funding for outer years 2021 and 2020.
TR 0117 002	VISION ZERO SAFETY IMPROVEMENT Total project cost changed from \$250,000 to \$300,000 (for six-years) due to the addition of funding for outer years 2021 and 2020.
TR 0120 000	KIRKLAND ITS PHASE III Total project costs changed from \$1,350,000 to \$2,200,000 due to due to the addition of funding for outer years 2021 and 2022.
TR 0122 000	TOTEM LAKE INTERSECTION IMPROVEMENTS Total project costs changed from \$6,000,000 to \$3,031,100 as a result of the receipt of \$790,000 in TIB grant funding plus a City contribution of \$585,000 (\$1,375,000 total) as City match for TR 0092 and \$1,378,500 in STP (Federal) funding plus a City contribution of \$215,000 for ST 0059 and TR 0091 (as Totem Lake Transportation Improvements). Staff continues to pursue other Totem Lake intersection and roadway grant funding for this opportunity fund.

<i>SURFACE WATER MANAGEMENT UTILITY - Surface Water Management Utility</i>

SD 0046 001	REGIONAL DETENTION IN FORBES CREEK BASIN - PHASE 1 Project number and title changed to include a Phase 1 reference and to eliminate reference to Juanita Creek; the project description has changed to better align with the Surface Water Master Plan; Project moved from Unfunded for the development of a first phase project on a larger-scale creek detention project, SD 0046 999. The start date for this Phase 1 element is 2021.
SD 0046 999	REGIONAL DETENTION IN FORBES CREEK BASIN PROJECT Project number and title changed to include a Phase 1 reference and to eliminate reference to Juanita Creek; the project description has changed to better align with the Surface Water Master Plan; Project becomes a placeholder and remains Unfunded for development of multiple future phases for this large-scale creek basin project. See first Phase project, SD 0046-001 with a start date in 2021.
SD 0047 000	ANNUAL REPLACEMENT OF AGING /FAILING INFRASTRUCTURE Total project cost changed from \$1,000,000 to \$1,200,000 for the new six year CIP time frame.
SD 0049 000	FORBES CREEK / 108TH AVENUE NE FISH PASSAGE IMPROVEMENTS Total project cost changed from \$410,000 to \$426,400 due to updated cost estimate.
SD 0050 000	NE 95TH STREET / 126TH AVENUE NE FLOOD CONTROL MEASURES Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways.
SD 0052 000	FORBES CREEK / SLATER AVENUE EMBANKMENT STABILIZATION Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways.

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SD 0053 000	FORBES CREEK / COORS POND CHANNEL GRADE CONTROLS Moved from Unfunded consistent with updated prioritization per the 2014 Surface Water Master Plan. Total project costs changed due to update costs estimate including an inflation factor.
SD 0054 000	FORBES CREEK / CROSS KIRKLAND CORRIDOR FISH PASSAGE IMPROVEMENTS Moved from Unfunded consistent with updated prioritization per the 2014 Surface Water Master Plan. Total project costs changed due to update costs estimate including an inflation factor.
SD 0055 000	FORBES CREEK / 98TH AVENUE NE RIPARIAN PLANTINGS Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways.
SD 0056 000	FORBES CREEK PONDS FISH PASSAGE / RIPARIAN PLANTINGS Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways.
SD 0058 000	SURFACE WATER SEDIMENT POND RECLAMATION (PHASE II) Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways.
SD 0062 000	STREAM FLOOD CONTROL MEASURES AT KIRKLAND POST OFFICE Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways.
SD 0063 000	EVEREST CREEK - SLATER AVENUE AT ALEXANDER STREET Project costs changed from \$883,800 to \$903,700 due to updated cost estimate.
SD 0068 000	128TH AVE NE/NE 60TH STREET TO NE 64TH STREET DRAINAGE IMPROVEMENTS Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways. Project is a duplicate of SD 0087.
SD 0070 000	JUANITA CREEK WATERSHED ENHANCEMENT STUDY Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways.
SD 0074 000	NE 86TH STEET STREAMBANK STABILIZATION Removed - No Longer deemed necessary per the Surface Water Master Plan. Project to be addressed in other ways.
SD 0084 000	MARKET STREET STORM MAIN REHABILITATION Project start date moved from 2019 to 2018; project costs changed from \$920,000 to \$885,000 based on new construction cost estimate with a project start moved to 2018.
SD 0087 000	SILVER SPURS FLOOD REDUCTION Project start date moved from 2017 to 2018; project costs changed from \$70,000 to \$77,000 based on new construction cost estimate with a project start moved to 2018.
SD 0088 000	COMFORT INN POND MODIFICATIONS Total project costs changed from \$647,000 to \$716,100 due to updated cost estimate.
SD 0089 000	NE 142ND STREET SURFACE WATER DRAINAGE IMPROVEMENTS Total project costs changed from \$160,000 to \$194,000 based on new construction cost estimate with a project start moved to 2018.
SD 0090 000	GOAT HILL DRAINAGE DITCH AND CHANNEL STABILIZATION Total project cost changed from \$320,000 to \$333,000 based on new construction cost estimate based on new construction cost estimate with a project start moved to 2020.
SD 0091 000	HOLMES POINT DRIVE PIPE REPLACEMENT Total project cost changed from \$500,000 to \$506,000 based on new construction cost estimate.
SD 0092 000	JUANITA CREEK CULVERT AT NE 137TH STREET Project title modified with the addition of the cross street for clarification; total project cost changed from \$660,000 to \$685,100 based on new construction cost estimate.
SD 0093 000	PLEASANT BAY APARTMENTS LINE REPLACEMENT Total project cost changed from \$310,000 to \$322,000 based on new construction cost estimate.

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SD 0094 000	NE 114TH PLACE STORMLINE REPLACEMENT Project start date moved from 2019 to 2020; project costs changed from \$260,000 to \$270,400 based on new construction cost estimate with a project start moved to 2020.
SD 0095 000	NE 141ST STREET STORMWATER PIPE INSTALLATION Project moved from Funded to Unfunded as per the 2014 SWMP.
SD 0097 000	CHAMPAGNE CREEK STABILIZATION Total project cost changed from \$780,000 to \$811,000 based on new construction cost estimate.
SD 0098 000	CHAMPAGNE CREEK STORMWATER RETROFIT Total project cost changed from \$120,000 to \$125,000 based on new construction cost estimate.
SD 0099 000	GOAT HILL DRAINAGE CONVEYANCE CAPACITY Total project cost changed from \$630,000 to \$655,000 based on new construction cost estimate.
SD 0100 000	BROOKHAVEN POND MODIFICATIONS Project start date moved from 2019 to 2020; project costs changed from \$615,500 to \$653,000 based on new construction cost estimate with a project start moved to 2020.
SD 0105 000	PROPERTY ACQUISITION OPPORTUNITY FUND Total project cost changed from \$250,000 to \$300,000 for the full 6-years of the CIP.
SD 0106 001	CKC SURFACE WATER DRAINAGE AT CRESTWOODS PARK DESIGN/CONSTRUCTION Project costs changed from \$1,000,000 to \$650,000 based on updated cost estimate. The Method of Financing changed to reflect a reduction in the grant funding secured.

WATER AND SEWER UTILITIES - Water

WA 0097 000	NE 80TH STREET WATERMAIN REPLACEMENT (PHASE 3) Project scope completed by other projects; project deleted.
WA 0102 000	104TH AVE NE WATERMAIN REPLACEMENT Project start moved from 2019 to 2018; total project cost remains unchanged.
WA 0134 000	5TH AVENUE S/8TH STREET S WATERMAIN REPLACEMENT Project start date moved from 2020 to 2019; total project cost changed from \$553,000 to \$573,000 based on an updated construction cost estimate.
WA 0139 000	6TH STREET SOUTH WATERMAIN REPLACEMENT Project moved from Unfunded; total project costs changed from \$785,000 to \$838,000 due to and updated cost estimate with a start in 2017.
WA 0158 000	NE 112TH STREET WATERMAIN IMPROVEMENT Project start date moved from 2019 to 2018; total project cost remains unchanged.
WA 0160 000	126TH AVENUE NE WATERMAIN IMPROVEMENT Project start date moved from 2020 to 2018 with changed two-year schedule; total project cost remains unchanged.
WA 8888 000	ANNUAL WATERMAIN REPLACEMENT PROGRAM Total project cost changed from \$359,400 to \$1,333,200, which reflects available remaining funds after funded projects have been identified in the outer years of 2021 and 2022.
WA 9999 000	ANNUAL WATER PUMP STATION/SYSTEM UPGRADE PROGRAM Total project cost changed from \$359,400 to \$1,334,200, which reflects available remaining funds after funded projects have been identified in the outer years of 2021 and 2022.

WATER AND SEWER UTILITIES - Sewer

SS 0051 000	6TH STREET SOUTH SEWERMAIN REPLACEMENT Project start date moved from 2020 to 2017; total project cost changed from \$1,313,100 to \$965,000 based on an updated construction cost estimate and a start date of 2017.
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CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT MODIFICATIONS AND DELETIONS SCHEDULE

SS 0052 000	108TH AVENUE NE SEWERMAIN REPLACEMENT Moved from 2017 to 2018; project costs changed from \$5,352,000 to \$5,506,000 due to updated cost estimate; inflated with a start date in 2018.
SS 0062 000	NE 108TH STREET NE SEWERMAIN REPLACEMENT Moved from 2018 to 2020; project costs changed from \$6,410,000 to \$6,569,500 due to updated cost estimate with start date in 2020.
SS 0069 000	1ST STREET SEWER MAIN REPLACEMENT Project schedule modified with redistributed costs over two years, but no changes to overall timing or total cost.
SS 0072 000	KIRKLAND AVENUE SEWER MAIN REPLACEMENT Moved from 2020 to 2018; project costs changed from \$2,159,000 to \$2,298,400 due to updated cost estimate with start date in 2018.
SS 0077 001	WEST OF MARKET SEWERMAIN REPLACEMENT - PHASE 1 Project number and title changed to include a Phase 1 reference; moved from Unfunded for development of a first phase project on this large-scale Market Neighborhood project, SS 0077 999.
SS 0077 999	WEST OF MARKET SEWERMAIN REPLACEMENT PROJECT Project number changed with new counter (-999) added; Project becomes a placeholder and remains Unfunded for development of multiple future phases for this large-scale Market Neighborhood project.
SS 8888 000	ANNUAL SANITARY PIPELINE REPLACEMENT PROGRAM Total project cost changed from \$549,400 to \$1,333,200, which reflects available remaining funds after funded projects have been identified in the outer years of 2021 and 2022.
SS 9999 000	ANNUAL SANITARY PUMP STATION/SYSTEM UPGRADE PROGRAM Total project cost changed from \$549,400 to \$1,333,200, which reflects available remaining funds after funded projects have been identified in the outer years of 2021 and 2022.

PARKS - Parks

PK 0066 000	PARK PLAY AREA ENHANCEMENTS Funding added and description modified to include anticipated projects for 2021 and 2022.
PK 0119 002	JUANITA BEACH PARK DEVELOPMENT (PHASE 2) Project moved to unfunded as part of plan to expand and expedite Totem Lake Park Phase I.
PK 0121 000	GREEN KIRKLAND FOREST RESTORATION PROGRAM Project funding added for 2021 and 2022.
PK 0133 100	DOCK AND SHORELINE RENOVATIONS Funding reduced by \$150,000 in 2020 as part of plan to expand and expedite Totem Lake Park Phase I. Project funding added for 2021 and 2022.
PK 0133 300	NEIGHBORHOOD PARK LAND ACQUISITION Funding for this project reduced by \$360,000 in 2017 and directed towards the acquisition of Totem Lake Park properties, the use of which will include neighborhood park purposes. Funding also reduced by \$150,000 in 2019 as part of plan to fund Park Facilities Life Cycle projects. Project funding added for 2021 and 2022.
PK 0134 100	132ND SQUARE PARK PLAYFIELDS RENOVATION Project previously funded as CPK 0134 000. Project funding moved as part of plan to expand and expedite Totem Lake Park Phase I. Moved to unfunded project with revised project number.
PK 0138 000	EVEREST PARK RESTROOM/STORAGE BUILDING REPLACEMENT Renovation of existing concession stand included as project component. Funding adjusted accordingly.
PK 0139 101	TOTEM LAKE PARK ACQUISITION Project to funded and reduced from \$3,000,000 based on reduced scope related to acquiring Totem Lake from King Conservation District.
PK 0139 200	TOTEM LAKE PARK DEVELOPMENT EXPANDED PHASE 1 Modified to include expanded scope and funding related to inclusion of park development of upland parcel.

CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT MODIFICATIONS AND DELETIONS SCHEDULE

PK 0139 300 TOTEM LAKE PARK DEVELOPMENT - PHASE 2
 Project moved to unfunded; funding moved as part of plan to expand and expedite Totem Lake Park Phase I. Budget revised to reflect updated costs.

PUBLIC SAFETY - Public Safety

PS 0066 000 THERMAL IMAGING CAMERAS REPLACEMENT
 Timing and cost changed to reflect 2021 replacement.

PS 0071 000 SELF-CONTAINED BREATHING APPARATUS (SCBA)
 Timing and costs updated for pre-testing equipment.

PS 1000 000 POLICE EQUIPMENT REPLACEMENT
 Timing of some weapon replacements changed to ensure all department issued weapons are on similar schedule. Structure of radar replacement changed to more accurately reflect radar purchasing.

PS 2000 000 FIRE EQUIPMENT REPLACEMENT
 Radio replacement during 2015-20 removed due to King County ballot measure and some minor timing changes. Hose replacement project closed and replacement costs added to this project.

PS 3002 002 FIRE STATION 24 REPLACEMENT
 Project moved from unfunded.

GENERAL GOVERNMENT - Information Technology

IT 0100 000 NETWORK SERVER REPLACEMENTS
 Project costs and timing updated to reflect scheduled server replacements and net-new servers.

IT 0110 000 NETWORK INFRASTRUCTURE
 Updated timing and costs for all sinking fund projects to correspond with a 7 year replacement schedule. The last comprehensive infrastructure replacement was done in 2013 and is scheduled for another in 2020. IT is extending the warranty on some equipment to realize replacement savings by including them in the 2020 project. In order to prepare for this project, in 2019, IT will hire a consultant to assist with researching current technologies and providing project cost estimates.

IT 0120 000 NETWORK STORAGE, BACKUP AND ARCHIVING
 Updated timing and costs for all sinking fund projects to correspond with a 5 year warranty that coincides with its 5 year replacement schedule. In order to prepare for this project, in 2017 IT will hire a consultant to assist with researching current technologies and providing project cost estimates.

IT 0130 000 NETWORK PHONE SYSTEM
 Updated timing and costs for all sinking fund projects to correspond with a 5 year warranty that coincides with its 5 year replacement schedule.

IT 0140 000 NETWORK SECURITY
 Updated timing and costs. Every 3 years the IT department issues a request for proposal (RFP) to hire a security consultant to audit IT infrastructure for security issues. The next security audit is scheduled in 2019.

IT 0200 000 GEOGRAPHIC INFORMATION SYSTEMS
 GIS is expected to migrate to a partial cloud-computing architecture as the industry continues to trend in this direction. Productivity enhancements not yet implemented in the desktop and mobile environments will also need to be addressed. Ongoing upgrades to IT/GIS infrastructure will continue to be necessary, as will established work in data maintenance. The GIS program will also need to complete high priority projects deferred as part of major technology implementations such as EnerGov and EAM.

IT 0302 000 COURT CUSTOMER-SERVICE SYSTEMS IMPROVEMENTS
 Project moved from unfunded and costs updated.

IT 0303 000 SHAREPOINT AND TRIM UPGRADE
 Project moved from unfunded and costs updated.

CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT MODIFICATIONS AND DELETIONS SCHEDULE

IT 0402 000 FINANCIAL SYSTEM REPLACEMENT

This is a placeholder CIP. The City expects to need significant funding in 2017 and 2018 to purchase and implement a system. A third-party analysis is underway and is expected to provide direction and budget estimates in mid-2016. After the market analysis is complete, the schedule of funding needs can be updated.

IT 0500 000 COPIER REPLACEMENTS

Project costs and timing updated to reflect scheduled replacements.

GENERAL GOVERNMENT - Facilities
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GG 0008 000 ELECTRICAL, ENERGY MANAGEMENT, AND LIGHTING SYSTEMS

Updated projects, project timing, and project costs for all life cycle projects. City Hall does not have any scheduled maintenance projects due to the City Hall Renovation Project.

GG 0009 000 MECHANICAL/HVAC SYSTEMS REPLACEMENT

Updated projects, project timing, and project costs for all life cycle projects. City Hall does not have any scheduled maintenance projects due to the City Hall Renovation Project.

GG 0010 000 PAINTING, CEILINGS, PARTITION, WINDOW REPLACEMENT

Updated projects, project timing, and project costs for all life cycle projects. City Hall does not have any scheduled maintenance projects due to the City Hall Renovation Project.

GG 0011 000 ROOFING, GUTTER, SIDING AND DECK REPLACEMENTS

Updated projects, project timing, and project costs for all life cycle projects. City Hall does not have any scheduled maintenance projects due to the City Hall Renovation Project.

GG 0012 000 FLOORING REPLACEMENTS

Updated projects, project timing, and project costs for all life cycle projects. City Hall does not have any scheduled maintenance projects due to the City Hall Renovation Project.

Maintenance and Operations Costs and FTE Schedule



City of Kirkland

2017-2022 Capital Improvement Program

Maintenance and Operations Costs and FTE Schedule

Funded Project

Project Number	Project Title	2017	2018	2019	2020	2021	2022	2017-2022 Total	FTE
Information Technology									
IT 0702 000	EAM MAINTENANCE MANAGEMENT SYSTEM REPLACEMENT	0	33,900	0	0	0	0	33,900	0.00
Subtotal - Information Technology		0	33,900	0	0	0	0	33,900	0.00
Parks									
PK 0133 200	CITY-SCHOOL PLAYFIELD PARTNERSHIP	0	66,200	66,200	0	0	0	132,400	1.00
PK 0133 300	NEIGHBORHOOD PARK LAND ACQUISTION	8,000	0	8,000	0	10,000	0	26,000	0.30
PK 0139 200	TOTEM LAKE PARK DEVELOPMENT EXPANDED PHASE 1	0	0	0	60,000	0	0	60,000	0.50
Subtotal - Parks		8,000	66,200	74,200	60,000	10,000	0	218,400	1.80
Total Funded Projects Maintenance and Operations Costs; FTEs		8,000	100,100	74,200	60,000	10,000	0	252,300	1.80

City of Kirkland

2017-2022 Capital Improvement Program

Maintenance and Operations Costs and FTE Schedule

Unfunded Projects:

Project Number	Project Title	Maint. and Operations	FTE
Parks			
PK 0095 100	HERITAGE PARK DEVELOPMENT - PHASE III AND IV	65,000	0.50
PK 0108 000	MCAULIFFE PARK DEVELOPMENT	120,000	1.00
PK 0119 200	JUANITA BEACH PARK DEVELOPMENT (PHASE 3)	125,000	1.00
PK 0124 000	SNYDER'S CORNER PARK SITE DEVELOPMENT	100,000	0.66
PK 0139 300	TOTEM LAKE PARK DEVELOPMENT - PHASE 2	50,000	0.00
	Subtotal - Parks	460,000	3.16
Public Safety			
PS 0068 000	LOCAL EMERGENCY AND PUBLIC COMMUNICATION AM RADIO	1,300	0.00
	Subtotal - Public Safety	1,300	0.00
Information Technology			
IT 0301 000	OPEN DATA SOLUTION IMPLEMENTATION	36,000	0.00
IT 0302 000	COURT CUSTOMER-SERVICE SYSTEMS IMPROVEMENTS	27,072	0.00
IT 0602 000	BUSINESS INTELLIGENCE/STANDARD REPORTING TOOL	20,000	0.00
	Subtotal - Information Technology	83,072	0.00
Total Unfunded Projects Maintenance and Operations Costs; FTEs		544,372	3.16

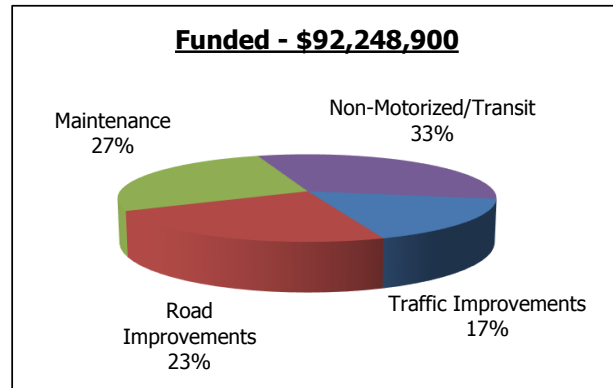
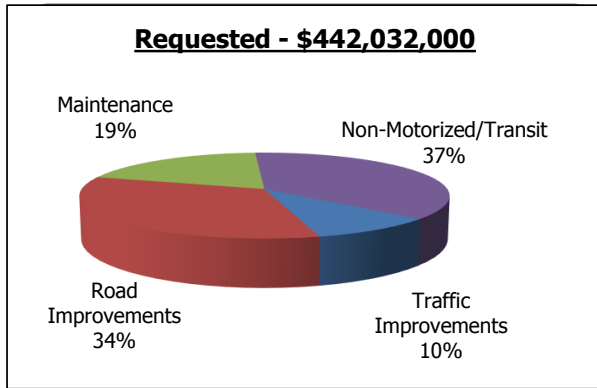
Transportation



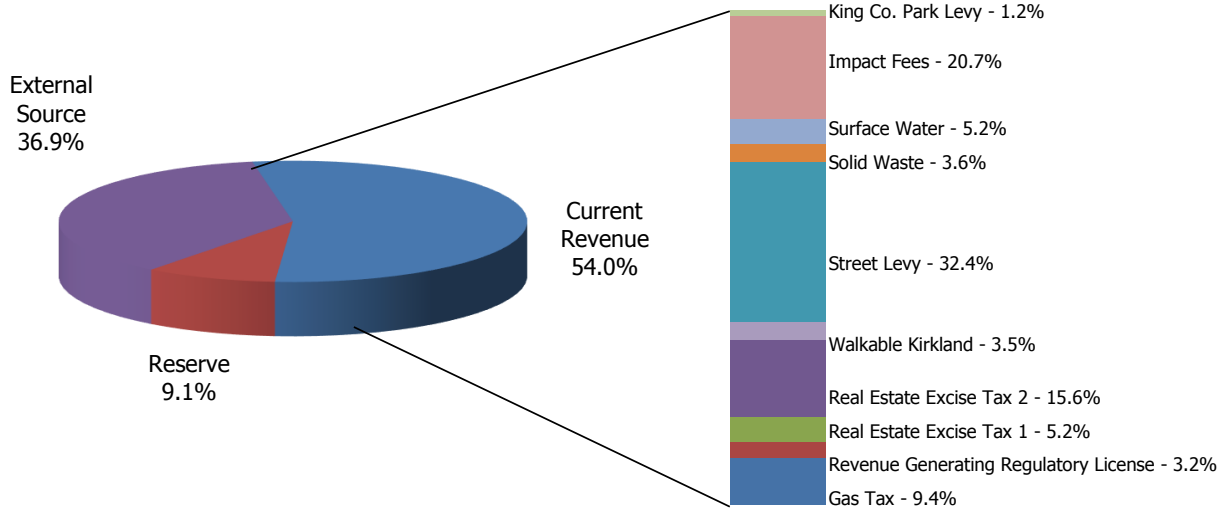
Capital Improvement Program

Transportation

Streets, Non-Motorized and Traffic Improvements



Funding Sources



Transportation Funding - \$92,248,900

Average Annual Current Revenues

Gas Tax - \$782,667
 Revenue Generating Regulatory License - \$270,000
 Real Estate Excise Tax 1 - \$429,000
 Real Estate Excise Tax 2 - \$1,300,167
 Street Levy - \$2,692,667
 Solid Waste - \$300,000
 Surface Water - \$430,000
 Impact Fees - \$1,716,667
 Walkable Kirkland - \$286,667
 King Co. Park Levy - \$100,000
 Total Average Annual Revenue - \$5,667,700

City of Kirkland
2017-2022 Proposed Capital Improvement Program

TRANSPORTATION PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Sources					
										Current Revenue	Street Levy	Impact Fees	Walkable Kirkland	Reserve	External/Pending Source
ST 0006	Annual Street Preservation Program		1,000,000	1,750,000	1,750,000	1,750,000	1,750,000	1,750,000	9,750,000	9,694,000				56,000	
ST 0006 003	Street Levy Street Preservation		2,326,000	2,352,000	2,379,000	2,406,000	2,433,000	2,460,000	14,356,000		14,356,000				
ST 0006 004	Central Way Street Preservation		214,000						214,000	30,000					184,000
ST 0006-005	Totem Lake Blvd Roadway Repair		720,000						720,000	720,000					
ST 0059 101+	124th Ave NE Roadway Improvements (North Section) Design		1,195,400						1,195,400			161,500			1,033,900
ST 0080	Annual Striping Program		400,000	500,000	500,000	500,000	500,000	500,000	2,900,000	2,900,000					
ST 0083 102	100th Avenue NE Roadway Improvements				5,000,000	5,485,000			10,485,000	833,000		1,375,000	80,000	263,000	7,934,000
ST 0089+	Juanita Drive Auto Improvements						3,300,000	3,300,000	6,600,000	1,076,000		150,000		79,000	5,295,000
ST 9999	Regional Inter-Agency Coordination	164,000	82,000	82,000	82,000	82,000	82,000	82,000	492,000	492,000					
NM 0006 100	Street Levy-Safe School Walk Routes	150,000					150,000	150,000	300,000		300,000				
NM 0006 200	Street Levy-Pedestrian Safety		150,000	150,000	150,000	150,000	150,000	150,000	900,000		900,000				
NM 0006 201	Neighborhood Safety Program Improvements	400,000	200,000	200,000	200,000	200,000			800,000				800,000		
NM 0007	Cross Kirkland Corridor Connection-NE 52nd Street Sidewalk	682,000	454,900						454,900					40,000	414,900
NM 0012 001	NE 116th Street Crosswalk Upgrade		200,000	230,000					430,000	394,000					
NM 0012 003	132nd Avenue NE Crosswalk Upgrade			250,000					250,000	250,000					
NM 0012 004	Central Way Crosswalk Upgrade				50,000	50,000			100,000	100,000					
NM 0057	Annual Sidewalk Maintenance Program				200,000	200,000	200,000	200,000	800,000	740,000				60,000	
NM 0086 100	NE 124th St/124th Ave NE Ped Bridge Design & Construction	750,000	4,810,000	6,250,000	1,050,000				12,110,000	1,164,800		3,950,000		615,300	6,379,900
NM 0087	Citywide School Walk Route Enhancements	1,000,000	864,200	869,000	450,000	400,000	300,000	300,000	3,183,200	363,000	300,000	300,000	198,200	1,022,000	1,000,000
NM 0087 001	North Kirkland/JFK School Walk Route Enhancements			500,000	500,000				1,000,000	14,600	300,000		100,000		585,400
NM 0089	Lake Front Pedestrian and Bicycle Improvements	1,000,000	11,000						11,000						11,000
NM 0090	Juanita Drive 'Quick Wins'	686,600	726,000						726,000						726,000
NM 0090 001	Juanita Drive Multi-Modal (On-Street) Improvements				525,000				525,000	100,000		225,000		200,000	
NM 0092	Active Transportation Plan Update		75,000						75,000	75,000					
NM 0095	124th Avenue NE Sidewalk Improvements	420,000	830,000	750,000					1,580,000	155,000		225,080	178,000	521,920	500,000
NM 0098	Kirkland Ave Sidewalk Improvements				300,000	200,000			500,000	489,000				11,000	
NM 0109	Citywide Trail Connections (Non-CKC)					275,000			275,000			275,000			
NM 0109 001	Finn Hill Connections			250,000					250,000			125,000	125,000		
NM 0109 002	Lake Front Promenade Design Study				75,000				75,000	75,000					
NM 0110 001	Citywide Accessibility Improvements			100,000	100,000	100,000	100,000	100,000	500,000	300,000			100,000	100,000	
NM 0113	Citywide Greenways Networks					250,000	250,000	250,000	750,000	15,000		375,000		360,000	
NM 0113 001	Citywide Greenways Network Project-NE 75th Street	250,000	250,000						250,000	50,000		200,000			
NM 0113 002	Citywide Greenways Network Project-128th Avenue NE			400,000	400,000				800,000	182,000			70,000	98,000	450,000
NM 0115	CKC Emergent Projects Opportunity Fund		100,000	100,000					200,000	200,000					
NM 0118	NE 128th Street / 139th Avenue NE Non-Motorized Imps		800,000						800,000	263,200			32,800		504,000
NM 0119	Downtown Pedestrian Access Study		50,000						50,000	50,000					
NM 0120	108th Ave NE Sidewalk Impr. at Edith Moulton Park		600,000						600,000	-				600,000	
NM 7777	Annual Non-Motorized CAO/SWDM Surface Water Support		1,600,000						1,600,000					1,600,000	
PT 0001 000	Citywide Transit Study		300,000						300,000	150,000		150,000			
TR 0079 001#	NE 85th St/114th Ave Intersection Improvements Phase II		1,800,000						1,800,000						1,800,000
TR 0082#	Central Way/Park Place Center Traffic Signal		200,000						200,000						200,000
TR 0091 101	NE 124th St/124th Ave NE Intersection Improvements Design		398,500						398,500			53,900			344,600
TR 0092 +	NE 116th St / 124th Ave NE Dual Left Turn Lanes	150,000	976,500	248,500					1,225,000			435,000			790,000
TR 0098+	NE 132nd St/ 116th Way NE (I-405) Intersect'n Imp		238,000	62,000					300,000			100,000		200,000	
TR 0100 100#	6th Street & Central Way Intersection Improvements Phase 2		1,866,800						1,866,800						1,866,800
TR 0103#	Central Way/4th Street Intersection Improvements		31,000						31,000						31,000
TR 0104#	6th Street/4th Ave Intersection Improvements		580,000						580,000						580,000
TR 0105#	Central Way/5th Street Intersection Improvements		564,000						564,000						564,000
TR 0116	Annual Signal Maintenance Program		150,000	150,000	200,000	200,000	200,000	200,000	1,100,000	374,000				726,000	
TR 0117	Citywide Traffic Management Safety Improvements		100,000	100,000	100,000	100,000	100,000	100,000	600,000					600,000	
TR 0117 002	Vision Zero Safety Improvement		50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000				250,000	
TR 0117 003	Neighborhood Traffic Control			50,000		50,000		50,000	150,000	34,000				116,000	
TR 0118	General Parking Lot Improvements	720,000	100,000						100,000					100,000	
TR 0119	Kirkland Citywide Intelligent Transportation System Study		75,000						75,000	35,000				40,000	
TR 0120	Kirkland Intelligent Transportation System Phase 3			450,000	400,000	450,000	450,000	450,000	2,200,000	248,400				237,600	1,714,000
TR 0122	Totem Lake Intersection Improvements		3,031,100						3,031,100			2,199,600			831,500
TR 0127	NE 132nd Street Roundabout		320,000						320,000	54,000					266,000
TR 7777	Annual Traffic CAO/SWDM Surface Water Support		500,000						500,000					500,000	
Total Funded Transportation Projects		6,372,600	28,939,400	15,343,500	13,861,000	13,998,000	10,015,000	10,092,000	92,248,900	21,671,000	16,156,000	10,300,080	1,720,000	8,395,820	34,006,000

Notes
Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)
Bold = New projects
 + = Moved from unfunded status to funded status
 " = Moved from funded status to unfunded status
 # = Projects to be funded with development-related revenues

TRANSPORTATION PROJECTS

Unfunded Projects in the Capital Facilities Plan Years 7-20

Project Number	Project Title	Total
ST 0059 102	124th Ave NE Roadway Improvements (North Section) ROW	2,050,800
ST 0059 103	124th Ave NE Roadway Improvements (North Section) Construction	6,753,800
ST 0063	120th Avenue NE Roadway Improvements	4,500,000
ST 0072	NE 120th Street Roadway Improvements (West Section)	15,780,600
ST 0077	NE 132nd St Rdwy Imprv.-Phase I (West Section)	1,348,000
ST 0078	NE 132nd St Rdwy Imprv-Phase II (Mid Section)	316,000
ST 0079	NE 132nd St Rdwy Imprv-Phase III (East Section)	1,119,000
ST 0081	Totem Lake Area Development Opportunity Program	500,000
NM 0012 999	Crosswalk Upgrade Program	4,100,000
NM 0086-003	CKC Roadway Crossings	3,370,100
NM 0090-100	Juanita Drive Bicycle and Pedestrian Improvements	10,650,000
NM 0113 999	Citywide Greenway Network	4,450,000
NM 0117 000	On-Street Bicycle Network Phase I	1,120,000
NM 8888 100~	On-street Bicycle Network	3,280,000
NM 9999 100~	Sidewalk CompletionProgram	6,096,800
PT 0002	Public Transit Speed and Reliability Improvements	500,000
PT 0003	Public Transit Passenger Environment Improvements	500,000
TR 0091 102	NE 124th St/124th Ave NE Intersection Improvements ROW	55,300
TR 0091 103	NE 124th St/124th Ave NE Intersection Improvements Construction	1,144,200
TR 0093	NE 132nd St/Juanita H.S. Access Rd Intersect'n Imp	916,000
TR 0094	NE 132nd St/108th Avenue NE Intersect'n Imp	618,000
TR 0095	NE 132nd St/Fire Stn Access Dr Intersect'n Imp	366,000
TR 0096~	NE 132nd St/124th Ave NE Intersect'n Imp	5,713,000
TR 0097	NE 132nd St/132nd Ave NE Intersect'n Imp	889,000
TR 0125	Kirkland ITS Implementation Phase 4	2,620,000
Capacity Projects Subtotal		78,756,600
ST 0006 ^	Annual Street Preservation Program	22,750,000
ST 0006 003 ^	Street Levy Street Preservation	31,107,000
ST 0080 ^	Annual Striping Program	6,500,000
ST 9999 ^	Regional Inter-Agency Coordination	1,066,000
NM 0006 201 ^	Neighborhood Safety Program Improvements	3,000,000
NM 0057 ^	Annual Sidewalk Maintenance Program	2,600,000
TR 0116 ^	Annual Signal Maintenance Program	2,600,000
TR 0117 ^	Citywide Traffic Management Safety Improvements	1,400,000
TR 0117 002	Vision Zero Safety Improvement	650,000
TR 0117 003	Neighborhood Traffic Control	325,000
Non-Capacity Projects Subtotal		71,998,000
Total Transportation Master Plan Projects Yrs 7-20		150,754,600

Unfunded Projects in the Capital Facilities Plan Years 7-20 and Transportation Improvement Plan

NM 0024 201	Cross Kirkland Corridor Opportunity Fund	500,000
NM 0031	Crestwoods Park/CKC Corridor Ped/Bike Facility	2,505,000
NM 0080	Juanita-Kingsgate Pedestrian Bridge at I-405	4,500,000
NM 0081	CKC to Redmond Central Connector	1,500,000
NM 0106	Citywide CKC Connection	360,000
NM 0107	CKC to Downtown Surface Connection	2,000,000
Capital Facilities Projects Not in TMP Subtotal		11,365,000

Unfunded Transportation Improvement Plan/External Funding Candidates

Project Number	Project Title	Total
ST 0056	132nd Avenue NE Roadway Improvements	25,170,000
ST 0060	118th Avenue NE Roadway Extension	6,440,000
ST 0061	119th Avenue NE Roadway Extension	5,640,000
ST 0062	NE 130th Street Roadway Improvements	10,000,000
ST 0064	124th Avenue NE Roadway Extension	30,349,000
ST 0073	120th Avenue NE Roadway Extension	16,392,000
ST 0086	Finn Hill Emergency Vehicle Access Connection	900,000
NM 0030	NE 90th Street/I-405 Pedestrian/Bicycle Overpass	3,740,700
NM 0032	93rd Avenue Sidewalk	1,047,900
NM 0043	NE 126th St Nonmotorized Facilities	4,277,200
NM 0046	18th Avenue SW Sidewalk	2,255,000
NM 0050	NE 80th Street Sidewalk	859,700
NM 0054	13th Avenue Sidewalk	446,700
NM 0055	122nd Ave NE Sidewalk	866,700
NM 0058	111th Avenue Non-Motorized/Emergency Access Connection	2,000,000
NM 0062	19th Avenue Sidewalk	814,200
NM 0074	90th Ave NE Sidewalk	353,400
NM 0086	Cross Kirkland Corridor Non-motorized Improvements	65,742,000
TR 0067	Kirkland Way/CKC Bridge Abutment/Intersection Imprv	6,917,000
TR 0114	Slater Avenue NE Traffic Calming - Phase I	247,000
TR 0123	Slater Avenue NE (132nd Avenue NE)/NE 124th Street	2,124,000
TR 0124	116th Avenue NE/NE 124th Street Intersection Improvements	1,081,000
Subtotal Unfunded Transportation Improvement Plan /External Funding Candidates		187,663,500
Grand Total Unfunded Transportation Projects		349,783,100

Notes

Italics = Modification in timing and/or cost

Bold = New projects

+ = Moved from unfunded status to funded status

Potential Non-Motorized Projects Under Placeholders; Not Included in Totals

Project Number	Project Title	Total
~NM 8888 100 On-Street Bicycle Network Candidate Projects:		
NM 0001	116th Ave NE (So. Sect.) Non-Motorz'd Facil-Phase II	3,378,000
NM 0036	NE 100th Street Bike lane	1,644,300
NM 9999 100 Sidewalk Completion Program Candidate Projects:		
NM 0026	NE 90th Street Sidewalk (Phase II)	706,200
NM 0037	130th Avenue NE Sidewalk	833,600
NM 0045	NE 95th Street Sidewalk (Highlands)	571,500
NM 0047	116th Avenue NE Sidewalk (South Rose Hill)	840,000
NM 0048	NE 60th Street Sidewalk	500,000
NM 0049	112th Ave NE Sidewalk	527,600
NM 0061	NE 104th Street Sidewalk	1,085,000
NM 0063	Kirkland Way Sidewalk	414,500
NM 0071	NE 132nd Street Sidewalk improvement	363,000
NM 0072	NE 132nd Street Sidewalk at Finn Hill Middle School	840,000
NM 0075	84th Ave NE Sidewalk	4,052,800
NM 0076	NE 140th St Sidewalk - Muir Elem Walk Rt Enhan. Phase 1	1,131,000
NM 0077	NE 140th St Sidewalk - Keller Elem Walk Rt Enhan. - N	1,185,000
NM 0078	NE 140th St Sidewalk - Keller Elem Walk Rt Enhan. - S	747,000
NM 0079	NE 140th St Sidewalk - Muir Elem Walk Rt Enhan. Phase 2	648,000
NM 0088	NE 124th Street Sidewalk	376,000
NM 0097	132nd NE Sidewalk	732,000
NM 0101	7th Avenue Sidewalk	208,000
NM 0102	NE 120th Street Sidewalk	548,000
NM 0103	120th Avenue NE Sidewalk	556,000
NM 0104	NE 122nd Place/NE 123rd Street Sidewalk	1,294,000
NM 0105	120th Avenue NE Sidewalk	812,000

CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY

TRANSPORTATION - Street

ST 0006 000 ANNUAL STREET PRESERVATION PROGRAM

City-wide Preservation of roadway system with various techniques including overlay, slurry seal, crack seal and others. The Public Works Department is responsible for approximately 245 miles of asphalt streets throughout the City. The annual program ensures maintenance of this infrastructure and reduces costly repairs resulting from total road failure. Project includes repair and resurfacing of streets and repair and replacement of adjoining damaged concrete curb, gutters and sidewalks as well as installing accessible curb ramps to meet the requirements of the Americans with Disabilities Act (ADA). Project complements levy-funded project ST 0006 003.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$9,750,000	\$0	\$9,750,000

ST 0006 003 STREET LEVY STREET PRESERVATION PROJECT

City-wide A voter-approved levy funded annual project to enhance preservation of roadway system as part of an overall preservation program. Project includes repair and resurfacing of streets and repair and replacement of adjoining damaged concrete curb, gutters and sidewalks as well as installing accessible curb ramps to meet the requirements of the Americans with Disabilities Act (ADA). Project complements ST 0006 000.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$14,356,000	\$0	\$14,356,000

ST 0006 004 ANNUAL STREET PRESERVATION PROGRAM - CENTRAL WAY DESIGN

Moss Bay The design for a grind, patch, modification of wheelchair ramps and overlay of Central Way. Funds became available through a federal Street Preservation design-only grant. City grant match funds are available through the Annual Street Preservation Program for 2017. Overlay of the project will occur through a future the Street Preservation Program timed in coordination with adjacent major redevelopment activity.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$214,000	\$0	\$214,000

ST 0006 005 TOTEM LAKE BLVD ROADWAY REPAIR

Totem Lake The repair and rebuild of a portion of Totem lake Blvd, to include a combination to standard and geotechnically accepted road prism repair techniques for insuring structural road base and roadway surface integrity.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$720,000	\$0	\$720,000

ST 0059 101 124TH AVENUE NE ROADWAY IMPROVEMENTS (NORTH SECTION) - DESIGN

Totem Lake The design phase for widening the existing roadway between intersections at NE 116th Street and NE 124th Street from 3 lanes to 5 lanes, to include 2-way center turn lane and improve pedestrian crossing(s). This project is intended to reconstruct existing sidewalks, transit stops and bicycle lanes being impacted by roadway widening.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$1,195,400	\$0	\$1,195,400

ST 0080 000 ANNUAL STRIPING PROGRAM

City-wide Annual program to maintain markings that identify travel lanes, crosswalks, and other guidance markings for auto, pedestrian, bicycle, transit and other forms of transportation. The program will result in the restriping of more than 40 miles of collector and arterial streets throughout the City.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$2,900,000	\$0	\$2,900,000

ST 0083 102 100TH AVENUE NE ROADWAY IMPROVEMENTS

North Juanita

A placeholder for the construction of 100th Ave NE to address roadway improvements for the current 5-lane to 2-lane transition to be based on the 2015 Puget Sound Regional Council (PSRC) grant funded design. This project represents planned funding for implementing at least a portion of the 2016 completed design. The ultimate project will, at a minimum, provide for bicycle lanes, a center turn lane where appropriate, sidewalks, curb and gutter, traffic signal and illumination improvements and storm drainage system upgrades. The project may also provide for a new fish passable culvert at the crossing of a Juanita Creek tributary if deemed necessary. The current budget does not include an amount for property acquisition as a property needs determination, if any, will be made during the design phase.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$10,485,000	\$0	\$10,485,000

ST 0089 000 JUANITA DRIVE AUTO IMPROVEMENTS

North Juanita

This project will complete the auto related elements identified in the Juanita Drive Corridor Study that are not currently funded, including ITS improvements. Improve safety for motor vehicles through elements including: turn lanes, channelization and improvements to increase sight distance.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2021	\$0	\$6,600,000	\$0	\$6,600,000

ST 9999 000 REGIONAL INTER-AGENCY COORDINATION

City-wide

Staffing requirements for the City's coordination and participation in regional projects constructed by others such as Washington State Department of Transportation (WSDOT), Sound Transit, King County Metro, etc.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$492,000	\$0	\$492,000

**CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY**

TRANSPORTATION - Non-Motorized

NM 0006 100 STREET LEVY - SAFE ROUTES TO SCHOOLS

City-wide A fund to leverage State and Federal grant funding to improve school walk routes near Kirkland elementary and middle schools.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$150,000	\$300,000	\$0	\$450,000

NM 0006 200 STREETS LEVY - PEDESTRIAN SAFETY

City-wide An opportunity fund of Levy revenue used for pedestrian safety amenities City-wide. This project provides for the construction and re-construction of crosswalks, crosswalk lighting, flashing beacons and other features to enhance the pedestrian experience consistent with the goals and objectives of the Transportation Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
On-going	\$0	\$900,000	\$0	\$900,000

NM 0006 201 NEIGHBORHOOD SAFETY PROGRAM IMPROVEMENTS

City-wide The Program under City Council's Walkable Kirkland Initiative for completing a number of neighborhood projects citywide under \$50,000. Project categories include: Bicycle Facilities, Crosswalk, Intersection Improvements, Traffic Calming, Walkway/Sidewalk and Trails, and Street Lights. Program improvements are restricted to City property including streets, parks, community facilities, and the Cross Kirkland Corridor.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
On-going	\$400,000	\$800,000	\$0	\$1,200,000

NM 0007 000 CROSS KIRKLAND CORRIDOR - NE 52ND STREET SIDEWALK

Central Houghton Widening and minor realignment of NE 52nd Street west of Cross Kirkland Corridor; the installation of concrete retaining wall and concrete curb, gutter and sidewalk along the north side. The existing storm drainage system will be completed and improvements will be made to the street crossing at the Cross Kirkland Corridor. NE 52nd Street provides the only east/west access between 108th Avenue NE and Lake Washington Boulevard and NE 68th Street to NE 38th Street. Various developments have completed approximately 20% of the improvements, but pedestrians must use the pavement and some sections of shoulder for travel.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$682,000	\$454,900	\$0	\$1,136,900

NM 0012 001 NE 116TH STREET CROSSWALK UPGRADE

South Juanita Crosswalk improvements such as pedestrian flashing beacons (RRFB's), improved lighting, or traffic islands with community input through the City's Comprehensive Plan process. The Active Transportation Plan and Transportation Master Plan identified the need for improved pedestrian crossing in the City's pedestrian system.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$430,000	\$0	\$430,000

NM 0012 003 132ND AVENUE NE CROSSWALK UPGRADE

Kingsgate Crosswalk improvements such as pedestrian flashing beacons (RRFB's), improved lighting, or traffic islands with community input through the City's Comprehensive Plan process. The Active Transportation Plan and Transportation Master Plan identified the need for improved pedestrian crossings in the City's pedestrian system.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$250,000	\$0	\$250,000

NM 0012 004 CENTRAL WAY CROSSWALK UPGRADE

Norkirk

Crosswalk improvements to include a new pedestrian activated flashing beacons (RFB) and improved lighting. The Active Transportation Plan and Transportation Master Plan identified the need for improved pedestrian crossing in the City's pedestrian system.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$100,000	\$0	\$100,000

NM 0057 000 ANNUAL SIDEWALK MAINTENANCE PROGRAM

City-wide

Preservation of sidewalk system. The Public Works Department is responsible for the maintenance of numerous miles of sidewalk. The annual program ensures maintenance of this infrastructure and reduces costly repairs resulting from total failure.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$800,000	\$0	\$800,000

NM 0086 100 NE 124TH ST/124TH AVE NE PEDESTRIAN BRIDGE (TOTE M LAKE NON-MOTORIZED BRIDGE)

Totem Lake

The planning, design and construction of a pedestrian and bicycle bridge along the Cross Kirkland Corridor (CKC) at NE 124th Street and 124th Avenue NE/Totem Lake Blvd. Design is to be consistent with the CKC Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$750,000	\$12,110,000	\$0	\$12,860,000

NM 0087 000 CITYWIDE SCHOOL WALK ROUTE ENHANCEMENTS

City-wide

Project will create or improve sidewalks and associated pedestrian safety features on one side of all identified school walk route segments along both arterial and collector streets. Project is expected to be completed as grant funding becomes available on a project by project basis. Staff is currently working with the Lake Washington School District to develop an updated list of walk routes.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$1,000,000	\$3,183,200	\$0	\$4,183,200

NM 0087 001 NORTH KIRKLAND/JFK SCHOOL WALK ROUTE ENHANCEMENTS

Kingsgate

Project will create or improve sidewalks and associated pedestrian safety features on one side of all identified school walk route segments along both arterial and collector streets in the North Kirkland, Juanita, Finn Hill, and Kingsgate (JFK) neighborhoods. Project is expected to be completed using a combination of project phases and multi-schedule construction. Staff is currently working with the Lake Washington School District to develop an updated list of walk routes.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$1,000,000	\$0	\$1,000,000

NM 0089 000 LAKE FRONT PEDESTRIAN AND BICYCLE IMPROVEMENTS

Moss Bay

Install 32 curb ramps to meet ADA requirements; lighting improvements at 12 crosswalks; Install pedestrian flashing beacons (RRFB's) on Market Street at 4th Avenue and Central Way crossings; Add bike boxes and/or other bike related marking improvements and signage on Lake Washington Blvd and Market Street; add buffered bike lane on 98th Avenue NE from Forbes Creek to NE 116th Street.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2015	\$1,000,000	\$11,000	\$0	\$1,011,000

NM 0090 000 JUANITA DRIVE 'QUICK WINS'

Finn Hill

Improve safety for bicycles and pedestrians through elements including: separated pedestrian walkway and buffered bicycle lane; installation of pedestrian flashing beacons (RRFB's) at key locations; improved lighting, signing and markings. Intersection channelization improvements are also included. This project will convert a corridor that is auto-oriented into a shared auto/active transportation corridor.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2015	\$686,600	\$726,000	\$0	\$1,412,600

NM 0090 001 JUANITA DRIVE MULTI-MODAL (ON STREET) IMPROVEMENTS

Finn Hill

Construct flashing crosswalk and improve the sidewalk on the west side of the road at the NE 124th Street intersection. Add south-bound left turn pocket, pedestrian crossing and improve walkway at the NE 132nd Street intersection.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$525,000	\$0	\$525,000

NM 0092 000 ACTIVE TRANSPORTATION PLAN UPDATE

City-wide An update to the Active Transportation Plan to incorporate new neighborhoods and to specify detailed projects and guidelines for pedestrian and bicycle needs. Include a trail plan coordinated with plans in the Park Recreation and Open Space Plan. Builds from policy guidance set in Transportation Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$75,000	\$0	\$75,000

NM 0095 000 124TH AVENUE NE SIDEWALK

North Rose Hill Provides for the design and construction of 2,960 feet of new concrete sidewalks, curb and gutter, walls and drainage improvements for providing a continuous sidewalk along the west side of 124th Ave NE. Prioritization of project is consistent with the Transportation Master Plan; staff continues to actively pursue grant opportunities.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$420,000	\$1,580,000	\$0	\$2,000,000

NM 0098 000 KIRKLAND AVENUE SIDEWALK

Moss Bay Construct approximately 400 feet of new sidewalk on the south side of Kirkland Avenue to complete missing segments, providing a continuous walk in support of completing connections to the Cross Kirkland Corridor (CKC).

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$500,000	\$0	\$500,000

NM 0109 000 CITY-WIDE TRAIL CONNECTIONS (NON-CKC)

City-wide Provides for the construction of trails other than the Cross Kirkland Corridor (CKC). Improvements may include sidewalks, mixed use trails, bicycle facilities and as needed, minor pavement widening, walls, lighting, pavement marking and drainage improvements. Property acquisition will often be needed. Trail connections should be coordinated with plans in the Park Recreation and Open Space Plan. Prioritization of projects should be accomplished using the framework established in the Transportation Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$275,000	\$0	\$275,000

NM 0109 001 FINN HILL TRAIL CONNECTIONS (NON-CKC)

Finn Hill Provides for the construction of trails other than the Cross Kirkland Corridor (CKC) in the Finn Hill neighborhood. Improvements may include sidewalks, mixed use trails, bicycle facilities and as needed, minor pavement widening, walls, lighting, pavement marking and drainage improvements. Property acquisition will often be needed. Trail connections should be coordinated with plans in the Park Recreation and Open Space Plan. Prioritization of projects should be accomplished using the framework established in the Transportation Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$250,000	\$0	\$250,000

NM 0109 002 LAKE FRONT PROMENADE DESIGN STUDY

Moss Bay A study to examine options for creating a Lakefront promenade and includes various treatments to accommodate pedestrians, bicycles, parking and active uses along the corridor.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$75,000	\$0	\$75,000

NM 0110 001 CITYWIDE ACCESSIBILITY IMPROVEMENTS

City-wide An Opportunity Fund for implementation of a wide range accessibility improvements, as developed by the Accessibility Transition Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$500,000	\$0	\$500,000

NM 0113 000 CITYWIDE GREENWAYS NETWORKS

City-wide This project provides for the design and construction of a greenway network. Construction elements that make up a greenway vary according to location, but may include items such as marking, signing of various types, lighting, crossing treatments (which may include signing, islands, beacons, improvements to or new traffic signals), traffic calming, drainage improvements, sidewalks or other walkway improvements and minor property acquisition. Greenways should be constructed on the most current approved network map and prioritization of projects should be accomplished using the framework established in the Transportation Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$750,000	\$0	\$750,000

NM 0113 001 CITYWIDE GREENWAYS NETWORK PROJECT

City-wide This project provides for the design and construction of a greenway network in the area of NE 75th Street. Construction elements that make up a greenway vary according to location, but may include items such as marking, signing of various types, lighting, crossing treatments (which may include signing, islands, beacons, improvements to or new traffic signals), traffic calming, drainage improvements, sidewalks or other walkway improvements and minor property acquisition. Greenways should be constructed on the most current approved network map and prioritization of projects should be accomplished using the framework established in the Transportation Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$250,000	\$250,000	\$0	\$500,000

NM 0113 002 CITYWIDE GREENWAYS NETWORK PROJECT

City-wide This project provides for the design and construction of a greenway network in the area of 128th Avenue NE. Construction elements that make up a greenway vary according to location, but may include items such as marking, signing of various types, lighting, crossing treatments (which may include signing, islands, beacons, improvements to or new traffic signals), traffic calming, drainage improvements, sidewalks or other walkway improvements and minor property acquisition. Greenways should be constructed on the most current approved network map and prioritization of projects should be accomplished using the framework established in the Transportation Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$800,000	\$0	\$800,000

NM 0115 000 CKC EMERGENT PROJECTS OPPORTUNITY FUND

City-wide An Opportunity Fund for implementation of a wide range of Cross Kirkland Corridor (CKC) access improvements.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$100,000	\$200,000	\$0	\$300,000

NM 0118 000 NE 128th STREET/139th AVENUE NE SIDEWALK

Totem Lake Construction of approximately 1100 linear feet of 5 foot wide sidewalk including curb and gutter, 5 foot bike lanes on uphill side of street along with 400 linear feet of 12" PVC storm pipe and associated catch basins to extend the existing drainage system. The project will also include enhanced street/pedestrian lighting, private driveway adjustments, signage, and landscape restoration. The project likely impacts wetland and stream buffer areas - impacts to be determined after study.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$800,000	\$0	\$800,000

NM 0119 000 DOWNTOWN PEDESTRIAN ACCESS STUDY

Moss Bay A study to improve pedestrian safety and access, while potentially reducing delay for transit and motorized vehicles. The Study would include evaluating pedestrian crossings on Lake Street, Central Way and Kirkland Avenue. It would also study the signalized intersections at Central Way and Lake Street, and at Kirkland Avenue and Lake Street. The study would evaluate existing conditions and recommend a set of improvements. It would also include community involvement. Possible outcomes could include but are not limited to traffic signal upgrades, signal phasing modifications, mid-block crossing signalization/relocation, and access management.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$50,000	\$0	\$50,000

NM 0120 000 108TH AVENUE NE SIDEWALK AT EDITH MOULTON PARK

North Juanita

Construct approximately 450 feet of new concrete sidewalk together with new asphalt parking stalls on the east side of 108th Ave NE, immediately adjacent to Edith Moulton Park. This construction will transform an existing path and gravel parking area into fully ADA accessible improvements for Park users and for connecting the Park with Helen Keller Elementary School.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$600,000	\$0	\$600,000

NM 7777 000 ANNUAL NON-MOTORIZED CAO/SWDM SURFACE WATER SUPPORT

City-wide

This project provides for the additional design and construction costs for City right-of-way capital projects to comply with the requirement changes of the 2016 City updates to Critical Areas Ordinance Codes (KMC Chapters 83, 85, and 90) and the 2016 City adoption of the April 24, 2016 King County, Washington Surface Water Design Manual.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$1,600,000	\$0	\$1,600,000

**CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY**

TRANSPORTATION - Public Transit**PT 0001 000 CITYWIDE TRANSIT STUDY**

City-wide

A study that builds on the foundations of the Transportation Master Plan and identifies specific service and facility projects that support transit.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$300,000	\$0	\$300,000

**CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY**

TRANSPORTATION - Traffic Improvement

TR 0079 001 NE 85TH STREET/114TH AVENUE NE INTERSECTION IMPROVEMENTS PHASE II

Everest

The required modifications to this intersection include signal and lane changes for providing extended storage on the east bound right-turn lane together with a new north-bound to east-bound right-turn lane. Signal pole, signal head and striping changes are needed to provide for making the east-bound right turn lane into a thru-right and for creating a dual north-bound to east bound right-turn lane. The changes will require close coordination with the Washington State Department of Transportation (WSDOT) and may result in a state requirement to modify the high-occupancy vehicle (HOV) access to south-bound I-405. The Project will evaluate and address, as needed, ADA upgrades and will include all appropriate Surface Water upgrades. Right-of-way acquisition is not anticipated and a budget for it has been established at this time; however, it will be evaluated further during the design phase.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$1,800,000	\$0	\$1,800,000

TR 0082 000 CENTRAL WAY/PARK PLACE CENTER TRAFFIC SIGNAL

Moss Bay

Install traffic signal to minimize traffic conflict, improve safety and traffic operation. In addition to these vehicular improvements, existing unsignaled crosswalks at 5th Street and 4th Street will be eliminated. It is anticipated that the design and construction timing is concurrent with the development of Park Place, which will be required to install the traffic signal as part of State Environmental Policy Act (SEPA) mitigation. Project is subject to anticipated funding through development activities and related revenues.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$200,000	\$0	\$200,000

TR 0091 101 NE 124TH ST/124TH AVE NE/TOTEM LAKE BLVD INTERSECTION IMPROVEMENTS - DESIGN

Totem Lake

The design phase for the widening of the north (southbound) leg to allow second left-turn lane, extend right-turn-only lane to become a through-right adjacent to the CKC triangle. The project includes surface water improvements and working within sensitive areas near Totem Lake Park.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$398,500	\$0	\$398,500

TR 0092 000 NE 116TH STREET/124TH AVE NE NORTHBOUND DUAL LEFT TURN LANES

North Rose Hill

This project will reconstruct the south leg (124th Ave NE) of the intersection to allow for two northbound left-turn lanes from 124th Ave NE to NE 116th Street. It will require signal modifications and lane reconfigurations on the northbound (south) leg and the northbound (north) receiving leg. The project is due to high accident counts and for projected traffic volume increases at this intersection.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$150,000	\$1,225,000	\$0	\$1,375,000

TR 0098 000 NE 132ND STREET / 116TH WAY NE - TOTEM LAKE BLVD (I-405) INTERSECTION IMPROVEMENTS

Totem Lake

Coordination of City right-of-way and intersection improvements in association with the Washington State Department of Transportation (WSDOT) Half-Diamond Interchange at NE 132nd Street and I-405, between 116th Way NE and Totem Lake Blvd, as recommended in the NE 132nd Street Master Plan. Project is subject to anticipated funding through development activities and related revenues.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$300,000	\$0	\$300,000

TR 0100 100 6TH STREET AND CENTRAL WAY INTERSECTION IMPROVEMENTS PHASE 2

Moss Bay

Install multiple upgrades to the existing signalized intersection. Phase I was completed in 2011, and resulted in signal improvements, water main upgrade, concrete roadway, pedestrian and bicycle lane improvements, and illumination at the intersection of 6th Street and Central Way. Phase II will result in a new signature "Gateway" to the Central Downtown area of Kirkland, and frontage improvements on 6th Street, additional travel lanes, a bicycle lane, and pedestrian improvements. This project will complement TR 0104 (6th Street & 4th Avenue Intersection Improvements).

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$1,866,800	\$0	\$1,866,800

TR 0103 000 CENTRAL WAY / 4TH STREET INTERSECTION IMPROVEMENTS

Moss Bay Extend two-way-left turn by moving crosswalk to Parkplace Signal. It is anticipated that the design and construction timing is concurrent with the development of Park Place, which will be required to install the intersection improvements as part of State Environmental Policy Act (SEPA) mitigation.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$31,000	\$0	\$31,000

TR 0104 000 6TH STREET / 4TH AVENUE INTERSECTION IMPROVEMENTS

Moss Bay Dual eastbound left turn, with widening on 6th Street. It is anticipated that the design and construction timing is concurrent with the development of Park Place, which will be required to install the traffic signal as part of State Environmental Policy Act (SEPA) mitigation.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$580,000	\$0	\$580,000

TR 0105 000 CENTRAL WAY / 5TH STREET INTERSECTION IMPROVEMENTS

Moss Bay Install traffic signal to minimize traffic conflict, improve safety and traffic operation. It is anticipated that the design and construction timing is concurrent with the development of Park Place Mall.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$564,000	\$0	\$564,000

TR 0116 000 ANNUAL SIGNAL MAINTENANCE PROGRAM

City-wide Signal maintenance to replace equipment at end of useful life to maintain full capabilities. Includes range of improvements from full intersections to cabinets and service connections to components in cabinets. Also includes RRFBs (pedestrian flashing beacons), school flashers, and radar speed signs.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$150,000	\$1,100,000	\$0	\$1,250,000

TR 0117 000 CITYWIDE TRAFFIC MANAGEMENT SAFETY IMPROVEMENTS

City-wide This project is an opportunity fund for improvements that increase motor vehicle safety. It includes design and construction of new traffic signals that meet one or more warrants, modification of existing signals to incorporate flashing yellow arrows or other changes, modifications to driveways and other improvements that specifically address safety needs.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$600,000	\$0	\$600,000

TR 0117 002 VISION ZERO SAFETY IMPROVEMENT

City-wide This project is an opportunity fund for improvements that come from Vision Zero work, an international road traffic safety project, which aims to achieve a transportation system with no fatalities or serious injuries in street traffic. The scope will be further defined as the City begins developing a Vision Zero program.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$50,000	\$300,000	\$0	\$350,000

TR 0117 003 NEIGHBORHOOD TRAFFIC CONTROL PROGRAM

City-wide This project is an opportunity fund for neighborhood traffic control elements such as traffic circles, speed humps, curb bulbs, lighting, radar speed signs and a variety of other improvements as identified in cooperation with the residents affected by the projects.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
On-going	\$50,000	\$150,000	\$0	\$200,000

TR 0118 000 GENERAL PARKING LOT IMPROVEMENTS

City-wide An opportunity fund for parking improvements such as added capacity, improved wayfinding, improved technology or other improvements as may be needed to improve parking.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$720,000	\$100,000	\$0	\$820,000

TR 0119 000 KIRKLAND CITYWIDE ITS STUDY

City-wide

A study to revise the current Intelligent Transportation System (ITS) plan and to develop a direction for the ITS program based on the principles in the Transportation Master Plan.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$75,000	\$0	\$75,000

TR 0120 000 KIRKLAND ITS PHASE III

City-wide

A next phase of intelligent transportation (ITS) improvements. It will be defined further after completion of phases I and II and after completion of a revised ITS study.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$2,200,000	\$0	\$2,200,000

TR 0122 000 TOTEM LAKE INTERSECTION IMPROVEMENTS

Totem Lake

Signalized intersection improvements at select Totem Lake area locations in support of Totem Lake Mall Redevelopment.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$0	\$3,031,100	\$0	\$3,031,000

TR 0127 000 NE 132ND STREET/136TH AVENUE NE ROUNDABOUT

Totem Lake

The construction of a three-legged roundabout at the intersection of NE 132nd Street and 136th Avenue NE in support of redevelopment in the Totem Lake Neighborhood.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$320,000	\$0	\$320,000

TR 7777 000 ANNUAL TRAFFIC CAO/SWDM SURFACE WATER SUPPORT

City-wide

This project provides for the additional design and construction costs for City right-of-way capital projects to comply with the requirement changes of the 2016 City updates to Critical Areas Ordinance Codes (KMC Chapters 83, 85, and 90) and the 2016 City adoption of the April 24, 2016 King County, Washington Surface Water Design Manual.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$500,000	\$0	\$500,000

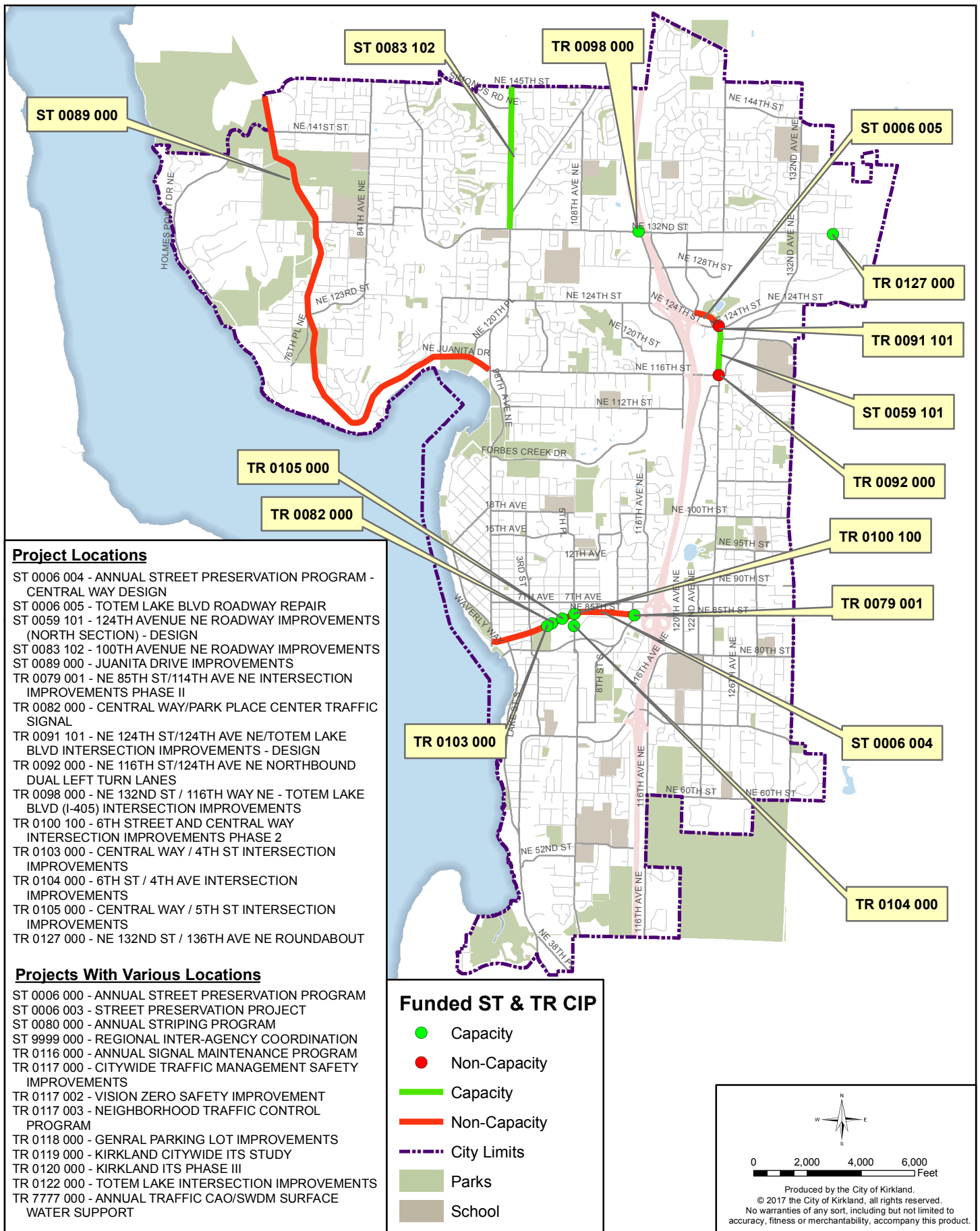


City of Kirkland 2017-2022 Capital Improvement Program

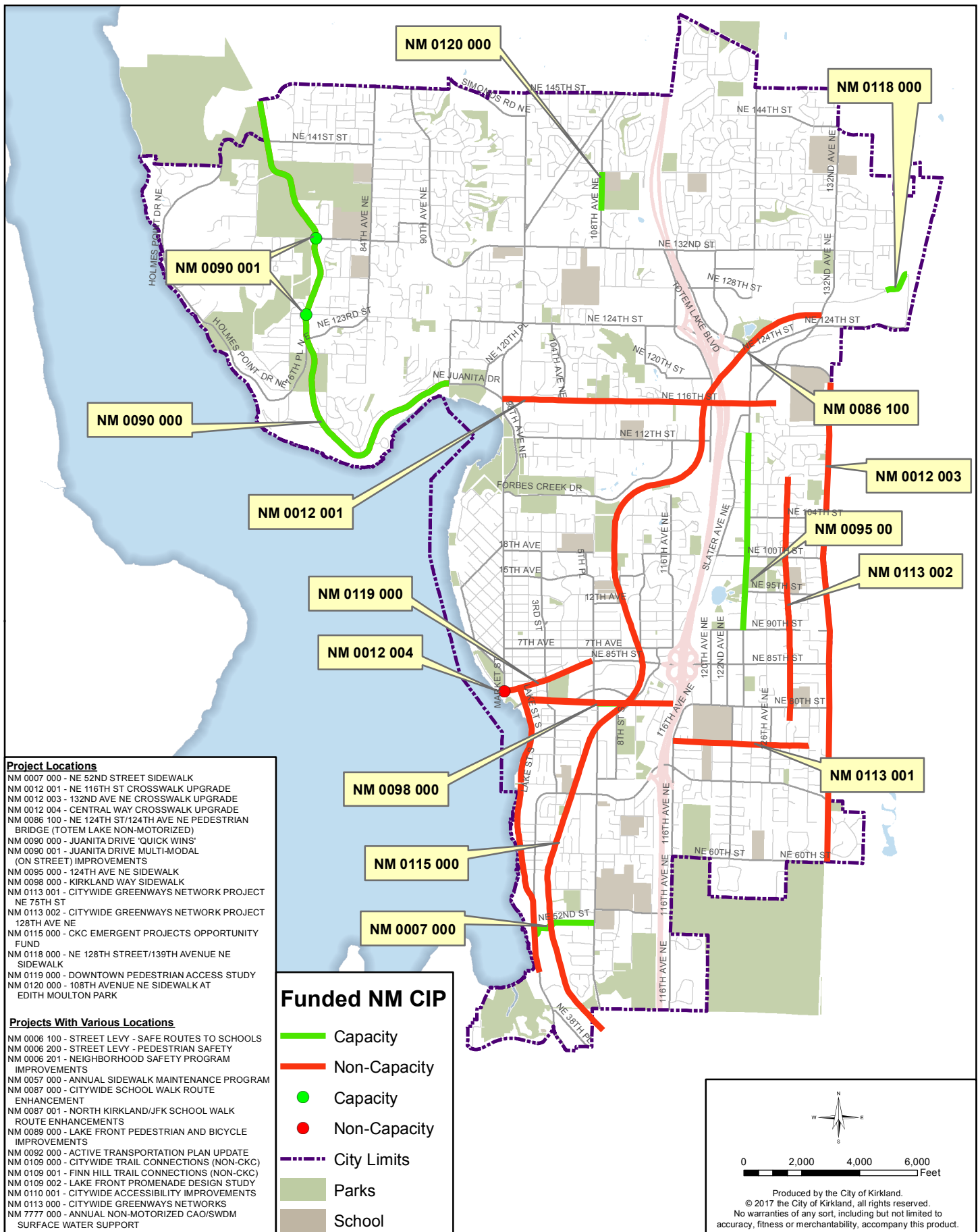
ACTIVE PROJECTS - TRANSPORTATION

Prior Activity - Projects Active as of 12/31/2015

Project Number	Project Title	Project Budget as of 2014	Pending Adjustments	2015-16 Funding	Total Current Funding	Expenses as of 12/31/2015	Project Balance 12/31/2015
ST 0006 002	Annual Street Preservation One-time Project	200,500		1,768,500	1,969,000	1,709,311	259,689
ST 0055	98th Avenue Bridge Project	1,415,000		-	1,415,000	1,194,287	220,713
ST 0057 001	NE 120th Street Roadway Extension (East section)	6,509,100		-	6,509,100	6,119,302	389,798
ST 0070	120th Avenue/Totem Lake Plaza Roadway Improvements	-		3,000,000	3,000,000		3,000,000
ST 0075 000	NE 85th Street Undergrounding	2,691,500		-	2,691,500	2,529,411	162,089
ST 0076	State St Utility Undergrounding	69,200		-	69,200	56,473	12,727
ST 0082 000	Juanita Drive Master Plan	280,000	32,553	-	312,553	281,565	30,988
ST 0083	100th Ave NE Corridor Study	-		3,209,200	3,209,200	49,693	3,159,507
ST 0087	6th Street Business Corridor Study	-		150,000	150,000	-	150,000
ST 0088	Arterial Streetlight LED Conversion	-		900,000	900,000	-	900,000
ST 1506 /1606	Annual Street Preservation	-		3,500,000	3,500,000	1,551,829	1,948,171
ST 1506 003	Street Maintenance & Ped Safety Levy	-		4,600,000	4,600,000	2,156,454	2,443,546
ST 1580 /1680	Annual Striping Program	-		750,000	750,000	328,806	421,194
ST 9999	Regional Coordination	164,000	2,803	164,000	330,803	193,851	136,952
NM 0007	NE 52nd Street Sidewalk - CKC Connection	-		682,000	682,000	2,149	679,851
NM 0012 002	NE 124th Street Crosswalk Upgrade	-	-	80,000	80,000	-	80,000
NM 0024 004	Cross Kirkland Corridor Non Interim Trail	-	163,973	-	163,973	99,531	64,442
NM 0024 101	Cross Kirkland Corridor Master Plan	500,000		-	500,000	529,112	(29,112)
NM 0024 SWX	Cross Kirkland Interim Trail Surface Water	-	54,668	-	54,668	42,118	12,550
NM 0034 001	NE 100th/Spinney Homestead Park Sidewalk Ph 2	438,000	45,112	-	483,112	412,076	71,036
NM 0051	Rose Hill Business District Sidewalks	8,075,000		-	8,075,000	7,800,908	274,092
NM 0053	NE 112th Street Sidewalk	291,700	54,868	-	346,568	328,109	18,459
NM 0059	6th Street Sidewalk	265,000	6,656	-	271,656	256,722	14,934
NM 0064 001	Park Lane Pedestrian Corridor Improvements Phase 2	3,249,200	-	-	3,249,200	3,118,430	130,770
NM 0065	Central Way Pedestrian Enhancements Ph 2	382,000		-	382,000	340,513	41,487
NM 0066	12th Avenue Sidewalk	432,000		-	432,000	395,308	36,692
NM 0067	Elementary School Walk Route Enhancement	1,198,000	163,644	-	1,361,644	1,041,914	319,730
NM 0068	Lakeview School Walk Route Enhancements	377,970	-	-	377,970	358,177	19,793
NM 0073	JFK Non-motorized Program	150,000		-	150,000	9,398	140,602
NM 0082	6th Street S. Sidewalk	583,100		-	583,100	424,773	158,327
NM 0084	South Kirkland TOD/CKC Multi-Modal Connection Ph 2	246,000		2,154,000	2,400,000	334,308	2,065,692
NM 0086 100	NE 124th St/124th Ave NE Pedestrian Bridge	-		750,000	750,000	2,801	747,199
NM 0087	Citywide School Walk Route Enhancements	-		1,000,000	1,000,000	-	1,000,000
NM 0089	Lakefront Ped Bicycle Improvements	-		1,000,000	1,000,000	950	999,050
NM 0090	Juanita Drive Quick Wins	-		686,600	686,600	14,021	672,579
NM 0095	124th Avenue NE Sidewalk Improvements	-	-	420,000	420,000	-	420,000
NM 0110	Cityside Accessibility Transition Plan	-		50,000	50,000	-	50,000
NM 0113 001	Citywide Greenways Network Project-NE 75th Street	-		250,000	250,000	-	250,000
NM 0114	CKC Bridge Connection to Houghton Shopping Center	-		175,000	175,000	60,446	114,554
NM 0115	CKC Emergent Projects Opportunity Fund	-		100,000	100,000	-	100,000
NM 0116	Rose Hill Pedestrian Path	-		100,000	100,000	-	100,000
NM 1306 200	Street Levy Pedestrian Safety	590,000		-	590,000	562,964	27,036
NM 1457	Annual Sidewalk Maintenance Program	315,838	(181)	-	315,657	14,479	301,178
NM 1506 100	Street Levy Safe School Walk Routes	-		150,000	150,000	2,500	147,500
NM 1506/1606 200	Street Levy Pedestrian Safety	-		300,000	300,000	31,207	268,793
NM 1506/1606 201	Neighborhood Safety Program Improvements	-		400,000	400,000	23,537	376,463
NM 1512	Crosswalk Upgrade Program	-		70,000	70,000	638	69,362
NM 1557/1657	Annual Sidewalk Maintenance Program	-		400,000	400,000	-	400,000
PT 0001 000	Sound Transit 3 Project Study	-		250,000	250,000	107,102	142,898
TR 0065	6th Street/Kirkland Way Traffic Signal	1,200,500		-	1,200,500	172,704	1,027,796
TR 0078	NE 85th/132nd NE Intersection Improvements	2,149,900		-	2,149,900	2,060,744	89,156
TR 0080	NE 85th/124th NE Intersection Improvements	2,022,300		-	2,022,300	1,881,853	140,447
TR 0083	100th Ave NE/NE 132nd St. Intersection Improvements	700,000		-	700,000	493,178	206,822
TR 0099	120th Avenue/Totem LakeWay Intersection Improvements	-		2,845,500	2,845,500	-	2,845,500
TR 0102	Growth & Transportation Efficiency GTEC	793,000	25,733	-	818,733	806,729	12,004
TR 0109	Totem Lake Plaza/Totem Lake Blvd Intersection Improvements	-		1,500,000	1,500,000	-	1,500,000
TR 0110	Totem Lake Plaza/120th Ave NE Intersection Improvements	-		1,500,000	1,500,000	-	1,500,000
TR 0111 000	Kirkland ITS Implementation Phase I	2,171,000		-	2,171,000	2,036,513	134,487
TR 0111 003	Kirkland ITS Implementation Phase IIC	2,951,000		-	2,951,000	878,887	2,072,113
TR 0112	Downtown Pedestrian Safety Improvements	16,000		-	16,000	8,861	7,139
TR 0113 000	Citywide Safety & Traffic Flow Improvements	343,900		-	343,900	136,986	206,914
TR 0115 000	6th Street S./ 9th Avenue S. Traffic Signal	1,013,300		-	1,013,300	138,710	874,590
TR 0116	Annual Signal Maintenance Program	-		150,000	150,000	-	150,000
TR 0117 001	Flashing Yellow Signal Head Safety Improvements	-		50,000	50,000	-	50,000
TR 0117 002	Vision Zero Safety Improvement	-		50,000	50,000	-	50,000
TR 0117 003	Neighborhood Traffic Control	-		50,000	50,000	-	50,000
TR 0118	General Parking Lot Improvements	-		720,000	720,000	-	720,000
TR 0122	Totem Lake Intersection Improvements	-		6,000,000	6,000,000	-	6,000,000
Total		41,784,008	549,829	39,924,800	82,258,637	41,100,337	41,158,300



2017 Funded Street and Transportation CIP



2017 Funded Non-Motorized Transportation CIP



Surface Water Management Utility

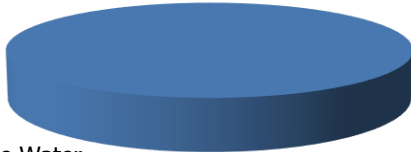


Capital Improvement Program

Surface Water Management Utility

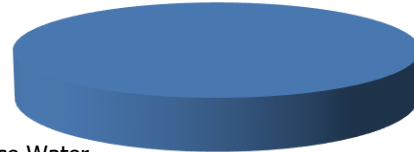


Requested - \$34,281,200



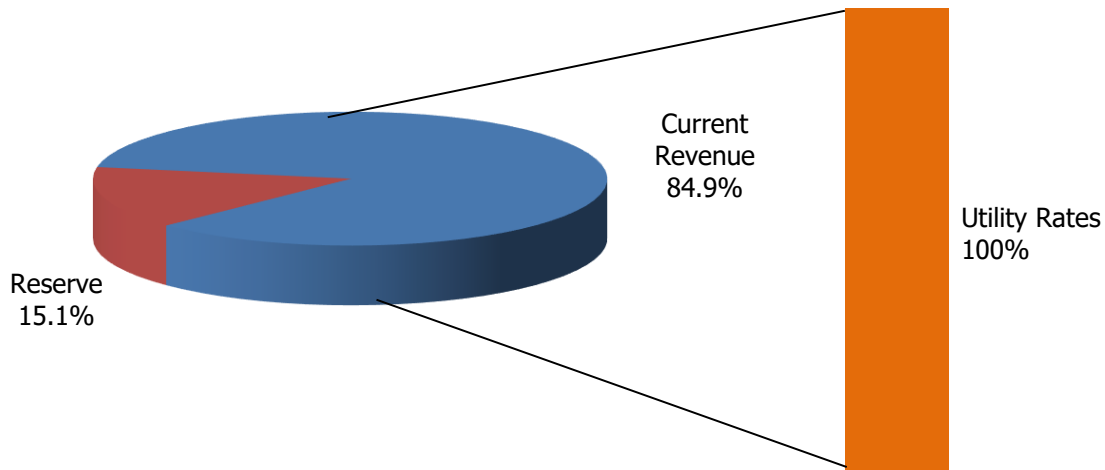
Surface Water
Management
100%

Funded - \$14,202,000



Surface Water
Management
100%

Funding Sources



Surface Water Management Utility Funding - \$14,202,000

Average Annual Current Revenues

Utility Rates - \$2,008,667
Total Average Annual Revenue - \$2,008,667

City of Kirkland
2017-2022 Proposed Capital Improvement Program

SURFACE WATER MANAGEMENT UTILITY PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source			
										Current Revenue	Reserve	Debt	External Source
SD 0046-001+	Regional Detention in Forbes Creek Basin - Phase I												
SD 0047	Annual Replacement of Aging/Failing Infrastructure		200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	1,200,000			
SD 0049	Forbes Creek/108th Ave NE Fish Passage Imp				230,400	196,000			426,400	426,400			
SD 0053+	Forbes Creek/Coors Pond Channel Grade Controls						324,900	344,600	669,500	669,500			
SD 0054+	Forbes Creek/Cross Kirkland Corridor Fish Passage Improvements						324,900	344,600	669,500	669,500			
SD 0063	Everest Creek - Slater Ave at Alexander St					661,900	241,800		903,700	903,700			
SD 0076	NE 141st Street/111th Avenue NE Culvert Repair	257,600	683,900						683,900	683,900			
SD 0081	Neighborhood Drainage Assistance Program (NDA)		50,000		50,000		50,000		150,000	50,000	100,000		
SD 0084	Market Street Storm Main Rehabilitation			268,400	616,600				885,000	885,000			
SD 0087	Silver Spurs Flood Reduction			77,000					77,000	77,000			
SD 0088	Comfort Inn Pond Modifications	407,000	309,100						309,100	309,100			
SD 0089	NE 142nd Street Surface Water Drainage Improvements			194,000					194,000	194,000			
SD 0090	Goat Hill Drainage Ditch and Channel Stabilization					243,400	89,600		333,000	333,000			
SD 0091	Holmes Point Drive Pipe Replacement	300,400	205,600						205,600	205,600			
SD 0092	Juanita Creek Culvert at NE 137th Street		149,800	535,300					685,100	685,100			
SD 0093	Pleasant Bay Apartments Line Replacement		252,600	69,400					322,000	322,000			
SD 0094	NE 114th Place Stormline Replacement					270,400			270,400	270,400			
SD 0097	Champagne Creek Stabilization			402,900	408,100				811,000	811,000			
SD 0098	Champagne Creek Stormwater Retrofit			125,000					125,000	125,000			
SD 0099	Goat Hill Drainage Conveyance Capacity				460,900	194,100			655,000	655,000			
SD 0100	Brookhaven Pond Modifications					354,200	298,800		653,000	653,000			
SD 0105	Property Acquisition Opportunity Fund		50,000	50,000	50,000	50,000	50,000	50,000	300,000		300,000		
SD 0106 001	CKC Surface Water Drainage at Crestwoods Park Design/Construction	300,000	350,000	-	-	-	-	-	350,000		350,000		
SD 7777	Surface Water CAO/SWDM Support		1,400,000						1,400,000		1,400,000		
Total Funded Surface Water Management Utility Projects		1,265,000	3,651,000	1,922,000	2,016,000	2,170,000	2,189,000	2,254,000	14,202,000	12,052,000	2,150,000	0	0

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

SURFACE WATER MANAGEMENT UTILITY PROJECTS

Unfunded Projects:

Project Number	Project Title	Total
SD 0045	Carillon Woods Erosion Control Measures	549,600
<i>SD 0046 999</i>	<i>Regional Detention in Forbes and Juanita Creek Basins</i>	<i>8,076,200</i>
SD 0051	Forbes Creek/King County Metro Access Road Culvert Enhancement	1,290,900
SD 0061	Everest Park Stream Channel/Riparian Enhancements	1,095,500
SD 0085 001	Cross Kirkland Water Quality	920,000
<i>SD 0095"</i>	<i>NE 141st Street Stormwater Pipe Installation</i>	<i>170,000</i>
SD 0101	Holmes Point Pipe Replacement at Champagne Creek Basin	240,000
SD 0102	Juanita Drive Culvert Replacement	665,000
SD 0103	Lakeview Drive Conveyance Modification	2,562,000
SD 0107	132nd Square Park Stormwater Retrofit Project	4,510,000
Total Unfunded Surface Water Management Utility Projects		20,079,200

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

" = Moved from funded status to unfunded status

CITY OF KIRKLAND

2017-2022 CAPITAL IMPROVEMENT PROGRAM

PROJECT SUMMARY

SURFACE WATER MANAGEMENT UTILITY - Surface Water Management Utility

SD 0046 001 REGIONAL DETENTION IN FORBES CREEK BASIN - PHASE 1

City-wide

The establishment of detention facilities in the Forbes Creek basin to provide for flow control to serve existing developed areas, and where possible to provide detention for new development/redevelopment project. Siting of these facilities will be dependent on available land, position in and connections to the stormwater network, and community input.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2021	\$0	\$1,923,800	\$0	\$1,923,800

SD 0047 000 ANNUAL REPLACEMENT OF AGING /FAILING INFRASTRUCTURE

City-wide

The regular replacement of aging and/or failing Surface Water Utility infrastructure. The City will prioritize system improvements through the use of a video system that will investigate surface water piping. Following the prioritization, improvements will be identified for either reconstruction using City forces or through the normal contractor bidding process.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,200,000	\$0	\$1,200,000

SD 0049 000 FORBES CREEK / 108TH AVENUE NE FISH PASSAGE IMPROVEMENTS

South Juanita

108th Avenue NE is elevated above Forbes Creek and the adjacent wetlands. Curbs on both sides of the road appear to prevent street runoff from draining to the stream resulting in standing water on the road during storm events. The existing dual 36-inch corrugated metal pipe culverts also have created a barrier to fish passage. The culverts are located in a depositional area of Forbes Creek resulting in one of the two culverts filling with sediment, restricting fish passage.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$426,400	\$0	\$426,400

SD 0053 000 FORBES CREEK / COORS POND CHANNEL GRADE CONTROLS

South Juanita

Existing structures in the stream have created barriers to fish passage while channel downcutting continues. Install grade control structures, cut down height of structures and install habitat structures. These improvements will raise the channel, improve the fish passage and improve the instream habitat.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2021	\$0	\$669,500	\$0	\$669,500

SD 0054 000 FORBES CREEK / CROSS KIRKLAND CORRIDOR FISH PASSAGE IMPROVEMENTS

South Juanita

The grade of the existing culverts passing under a former railroad spur and under the Cross Kirkland Corridor tracks is too great creating an impediment to fish passage. Restore open channel under the former railroad spur and replace the culvert under Cross Kirkland Corridor track. This improvement will improve fish passage to upstream habitat.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2021	\$0	\$669,500	\$0	\$669,500

SD 0063 000 EVEREST CREEK - SLATER AVENUE AT ALEXANDER STREET

Everest

Flow enters this small ravine from an approximately 135 acre upstream basin via a pipe. Erosion around the pipe outlet has de-stabilized a road near the ravine, and sends large quantities of sand to downstream reaches of the creek, which results in increased maintenance needs in Everest Park. Installation of a highflow bypass and/or other stabilization features will prevent further damage to the road, and will reduce delivery of sediment to downstream areas thus reducing maintenance needs.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$903,700	\$0	\$903,700

SD 0076 000 NE 141ST STREET/111TH AVENUE NE CULVERT HEADWALL REPAIR

Finn Hill An existing 48-inch storm pipe has partially filled with sediment and the reduced flow capacity has created backwater conditions at the inlet resulting in channel aggradation, erosion and undermining of adjacent trees, with partial structural failure of the inlet headwall. Fish were observed in the downstream reach and Washington Department of Fish & Wildlife (WDFW) permitting will likely be required.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2013	\$257,600	\$683,900	\$0	\$941,500

SD 0081 000 NEIGHBORHOOD DRAINAGE ASSISTANCE PROGRAM (NDA)

City-wide Design and construct small-scale flooding solutions occurring outside the public right of way. Projects qualifying for assistance include those situations that are too small to rank highly in the regular Surface Water CIP, will benefit several homes or businesses while serving a general public benefit, and are primarily caused by the cumulative impacts of upstream development. Individual projects will be evaluated and those that qualify will be prioritized. Staff will produce a report each year summarizing the number, type and priority of problems that qualify for NDA fixes, and a list of NDA projects completed in the previous year.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$150,000	\$0	\$150,000

SD 0084 000 MARKET STREET STORM MAIN REHABILITATION

Market Rehabilitate approximately 3,050 linear feet of failing 36-inch and 24-inch diameter concrete storm pipe (joint separated) within Market Street from Central Way to 12th Avenue. Rehabilitation will be accomplished via slipping the 1,200 feet of 36-inch diameter concrete pipe from Central Way to 6th Ave with 24-inch diameter pipe and the 1,850 feet of 24-inch diameter concrete pipe from 6th Ave to 12th Ave with 20-inch diameter pipe. The annular space between the pipe diameters will be grouted. The length of 36-inch diameter pipe includes six manholes that will be rehabilitated and nine laterals to be reconnected. The 24-inch diameter pipe also includes six manholes to be rehabilitated and nine laterals to be reconnected. The cost estimate was based on linear foot costs prepared by Buno Construction in 2009 and have been adjusted for 2018 costs. The project engineering/design and inspection cost estimate is lower as a percentage of construction costs than typical capital projects due to the performance specification aspect of sliplining projects.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$885,000	\$0	\$885,000

SD 0087 000 SILVER SPURS FLOOD REDUCTION

South Rose Hill A phased approach to evaluate alternatives and design and construct the preferred alternative to reduce future flooding. The first phase of this project involves an alternatives analysis to determine the best solution to prevent future flooding. One potential alternative was already eliminated because of downstream capacity concerns. Other options include the following: A) Add more infiltration in right-of-way (ROW) or increase the size of the existing facility to maximum extent. Infiltration added in ROW shall be bioinfiltration swales, or equivalent. B) Utilize deep infiltration, such as a underground injection control (UIC) well, for high flow bypass. Deep infiltration shall be located in ROW, with a high flow bypass pipe leading from the dry well to the UIC well.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$77,000	\$0	\$77,000

SD 0088 000 COMFORT INN POND MODIFICATIONS

Totem Lake This project was identified by the City in the 2014 Surface Water Master Plan list. Solutions for this CIP include rerouting runoff from the Cross Kirkland Corridor directly to Totem Lake. Pipe size will be 12-inch to match existing pipe sizes in the area. Other options listed below could provide addition benefits to reduce flooding. Project benefits include reducing flow to the wetland and flooding on Totem Lake Blvd. Reroute stormdrain at railroad to bypass pond/wetland, possibly connect with the stormwater feature at NE 124th St and Totem Lake Blvd, then pipe to Totem Lake. Reduce contributing area to Comfort Inn pond/wetland from 24.75 acres to 16.45 acres.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$407,000	\$309,100	\$0	\$716,100

SD 0089 000 NE 142ND STREET SURFACE WATER DRAINAGE IMPROVEMENTS

Finn Hill Local road and property flooding has occurred at the intersection of NE 142nd Street and 77th Ave NE in the vicinity of Inglewood Presbyterian Church. The cause of the flooding is not conclusive, and additional analyses and investigation is needed to develop a solution. Potential options include adding an inlet structure near the intersection, channel maintenance through the wetland, adding upstream detention or infiltration, and/or installing a high flow bypass. Additional options analysis and hydrologic and hydraulic modeling is necessary to develop a viable alternative.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$194,000	\$0	\$194,000

SD 0090 000 GOAT HILL DRAINAGE DITCH AND CHANNEL STABILIZATION

Finn Hill Reconstruct ditch line along the west side of 90th Avenue NE and abandon a culvert crossing along 90th Avenue NE. Abandon a storm drainage channel and replace a catch basin and culvert crossing along NE 117th Place. Stabilize a drainage swale with rip-rap below the culvert crossing along NE 117th Place. Install catch basins and 12-inch storm drainage pipe along 90th Avenue NE and edge grind and overlay 500 feet of roadway with a thickened edge. Upsize a 12-inch culvert crossing to a 24-inch culvert along NE 117th Place.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$333,000	\$0	\$333,000

SD 0091 000 HOLMES POINT DRIVE PIPE REPLACEMENT

Finn Hill Currently drainage from Holmes Point Drive NE and above runs through an undersized system at 11645 Holmes Point Drive. There are no easements for maintenance of this system. Additionally, upstream of Holmes Point Dr. NE, groundwater seepage and icing in cold weather occurs along Holmes Point Dr NE. Reroute drainage along Holmes Point Drive in a new pipe to connect to an existing outfall to Lake Washington.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2015	\$300,400	\$205,600	\$0	\$506,000

SD 0092 000 JUANITA CREEK CULVERT AT NE 137TH STREET

North Juanita Install 16 foot by 5.25 foot arch fish passable culvert. Culvert width based on Washington State Department of Fish & Wildlife (WDFW) stream simulation design of 1.25 foot by 11 foot bank full width rounded to the nearest foot. Create 50 feet of restored channel at the culvert inlet and outlet and restore staging areas and channel floodplain with planting and bio-engineered surface restoration.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$685,100	\$0	\$685,100

SD 0093 000 PLEASANT BAY APARTMENTS LINE REPLACEMENT

Moss Bay Replace, pipe burst or chemical grout, pipe section on north side of property that is rootbound. Add 12-inch polyvinyl chloride (PVC) pipe from GIS asset No. 304416 and 303609 to Lake Washington Blvd NE.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$322,000	\$0	\$322,000

SD 0094 000 NE 114TH PLACE STORMLINE REPLACEMENT

North Rose Hill Replace existing stormline with 12-inch polyvinyl chloride (PVC) storm pipe along 125th Ave NE to 126th Ave NE.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$270,400	\$0	\$270,400

SD 0097 000 CHAMPAGNE CREEK STABILIZATION

North Juanita Streambank improvements including 500 feet of roughened channel using a mixture of large boulders, cobbles, gravels, sand, and large wood.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$811,000	\$0	\$811,000

SD 0098 000**CHAMPAGNE CREEK STORMWATER RETROFIT**

Finn Hill

Construct a 2,500 square feet rain garden at the intersection. Install a flow splitter structure at end of existing driveway culvert. High flows bypass the rain garden via the existing asphalt ditch.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$125,000	\$0	\$125,000

SD 0099 000**GOAT HILL DRAINAGE CONVEYANCE CAPACITY**

South Juanita

Project includes the following improvements: replacement of 12-inch culvert along NE 118th Place; replacement of 8-inch storm drainage pipe with a 12-inch storm drainage pipe; Replacement of a 8-inch culvert with a 12-inch culvert along NE 166th Place; Replacement of Type 1 Catch basin along NE 116th Place; Replacement of 12-inch storm drainage pipe with 24-inch storm drainage pipe; and replacement of catch basins with storm drainage manholes.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$655,000	\$0	\$655,000

SD 0100 000**BROOKHAVEN POND MODIFICATIONS**

North Juanita

Converts pond to floodplain; Grade existing pond to provide storage. Establish plantings for habitat and to disperse flow as it enters the floodplain. Install bio-engineered floodplain structures (anchored as needed). Install Filterra systems along 100th Ave NE for water quality and to separate runoff from 100th Ave NE and NE 127th Place. NE 127th PI Drainage will discharge directly to Juanita Creek with no new Filterra units.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$653,000	\$0	\$653,000

SD 0105 000**PROPERTY ACQUISITION OPPORTUNITY FUND**

City-wide

An opportunity fund to acquire riparian and wetland properties in the City for improving surface water quality and runoff.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$300,000	\$0	\$300,000

SD 0106 001**CKC SURFACE WATER DRAINAGE AT CRESTWOODS PARK DESIGN/CONSTRUCTION**

Totem Lake

Design and construct repair for 24-inch Reinforced Concrete Pipe culvert, crossing the Cross Kirkland Corridor (CKC) between NE 104th St and 111th Ave NE, and carrying an unnamed tributary to Forbes Creek. The existing pipe is too short and has caused undermining of the adjacent slopes and trail at the outfall. A fall of approximately 5 vertical feet currently exists from the outlet invert to the adjacent stream bed, leading to backsplash and slope failure observed.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$300,000	\$350,000	\$0	\$650,000

SD 7777 000**SUFACE WATER CAO/SWDM SUPPORT**

City-wide

This project provides for the additional design and construction costs for City right-of-way capital projects to comply with the requirement changes of the 2016 City updates to Critical Areas Ordinance Codes (KMC Chapters 83, 85, and 90) and the 2016 City adoption of the April 24, 2016 King County, Washington Surface Water Design Manual.

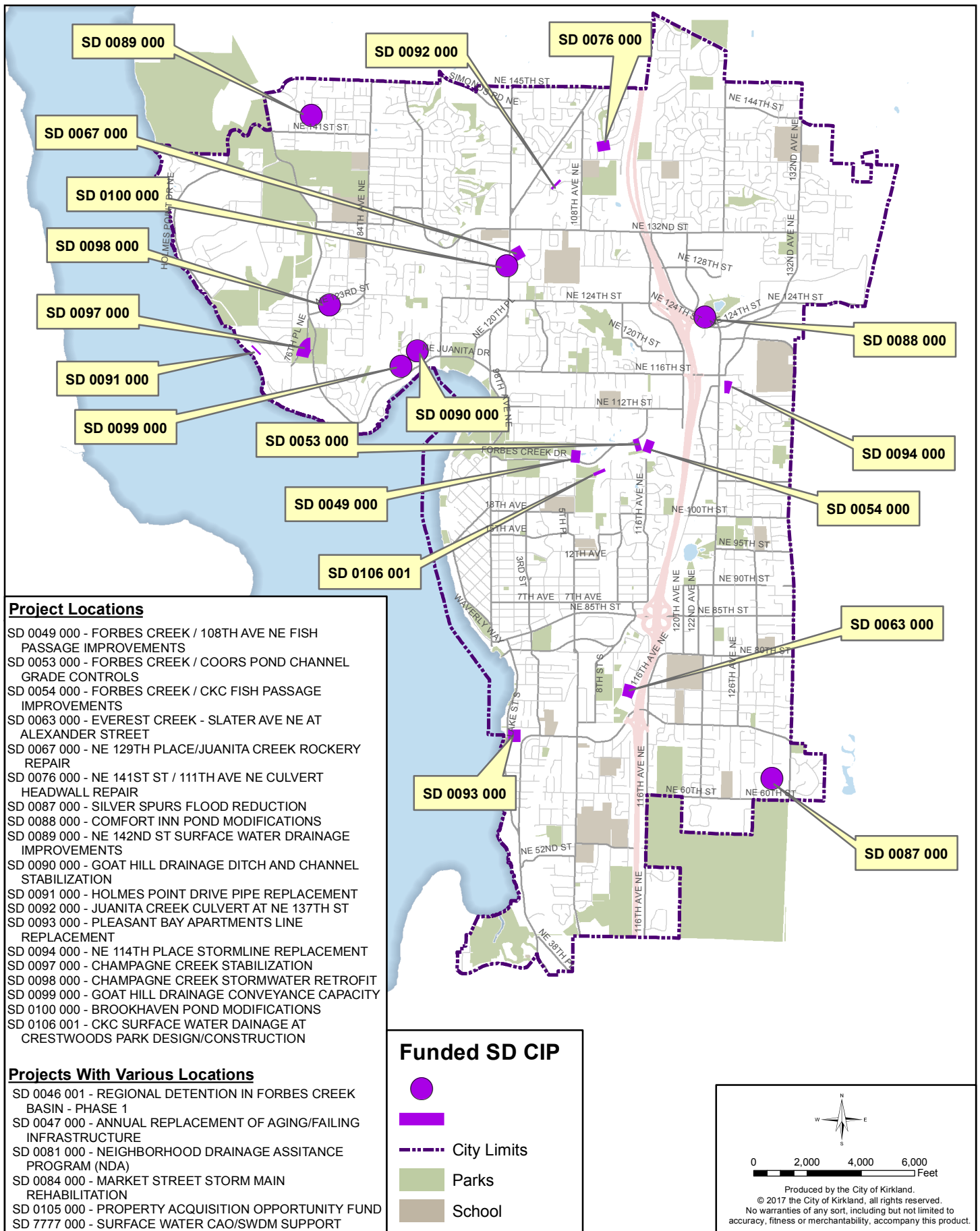
PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
On-going	\$0	\$1,400,000	\$0	\$1,400,000

City of Kirkland 2017-2022 Capital Improvement Program

ACTIVE PROJECTS - SURFACE WATER

Prior Activity - Projects Active as of 12/31/2015

Project Number	Project Title	Project Budget as of 2014	Pending Adjustments	2015-16 Funding	Total Current Funding	Expenses as of 12/31/2015	Project Balance 12/31/2015
SD 0025 000	NE 85th Street Detention	621,800		-	621,800	528,309	93,491
SD 0048 000	Cochran Spr/Lk Wash Blvd	520,000		1,450,000	1,970,000	445,744	1,524,256
SD 0051 000	Forbes Creek/KC Metro Access Road Culvert Enhn.	232,200		-	232,200	88,092	144,108
SD 0053 000	Forbes Creek/Coors Pond Channel Grade Controls	260,200		-	260,200	89,619	170,581
SD 0058 000	Surface Water Sediment Pond Reclamation Phase II	115,400		-	115,400	35,664	79,736
SD 0059 000	Totem Lake Blvd Flood Control	1,936,200		-	1,936,200	814,949	1,121,251
SD 0067 000	NE 129th Place/Juanita Creek Rockery Repair	115,500		370,000	485,500	482,220	3,280
SD 0075 000	Totem Lake Twin Culvert Replacement	4,416,000	176,230	-	4,592,230	4,043,776	548,454
SD 0076 000	NE 141st Street/111th Avenue NE Culvert Repair	181,500		76,100	257,600	38,836	218,764
SD 0077 000	Goat Hill Storm Drainage Repair	153,700		840,000	993,700	189,062	804,638
SD 0078 000	Billy Creek Ravine Stabilization Phase II	87,600		230,000	317,600	59,547	258,053
SD 0079 000	Pub Sfty Bldg SW Qual	160,000		-	160,000	151,565	8,435
SD 0080 000	Regional Decant/COK Maintenance Facility	-		-	-	28,258	(28,258)
SD 0082 000	Kirkland Decant Facility Expansion	1,268,000		-	1,268,000	1,334,188	(66,188)
SD 0083 000	7th Avenue S Storm Main Replacement	240,000		-	240,000	146,677	93,323
SD 0085 000	Cross Kirkland Corridor (CKC) Storm Water Retro	120,000		-	120,000	110,495	9,505
SD 0086 000	99th Place NE Stormwater Pipe Replacement	-		390,000	390,000	384,402	5,598
SD 0088 000	Comfort Inn Pond Modifications	-		407,000	407,000	-	407,000
SD 0091 000	Holmes Point Drive Pipe Replacement	-		300,400	300,400	5,509	294,891
SD 0096 000	CKC Emergent Projects Surface Water Opportunity Fund	-		100,000	100,000	-	100,000
SD 0105 000	Property Acquisition Opportunity Fund	-		50,000	50,000	-	50,000
SD 0106 000	CKC Surface Water Drainage at Crestwoods Park Study	-		40,000	40,000	9,572	30,428
SD 0106 001	CKC Surface Water Drainage at Crestwoods Park Construction	-		300,000	300,000	-	300,000
SD 1447 000	Annual Storm Drain Replacement	200,000		-	200,000	259,062	(59,062)
SD 1547 / 1647	Annual Storm Drain Replacement	-		200,000	200,000	15,335	184,665
SD 1581 000	Neighborhood Drainage Assistance Program	-		50,000	50,000	-	50,000
SD 8888 000	Annual Streambank Stab Prgm	274,900		44,200	319,100	-	319,100
SD 9999 000	Annual Surface Water Inf. Replacement Program	218,000		44,200	262,200	-	262,200
Total		11,121,000	176,230	4,891,900	16,189,130	9,260,883	6,928,247



2017 Funded Surface Water CIP



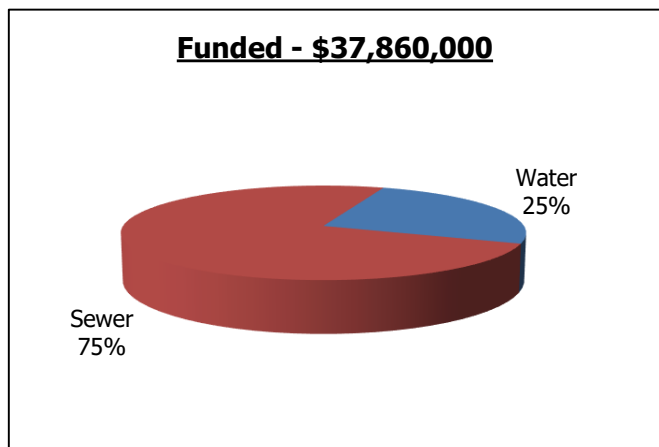
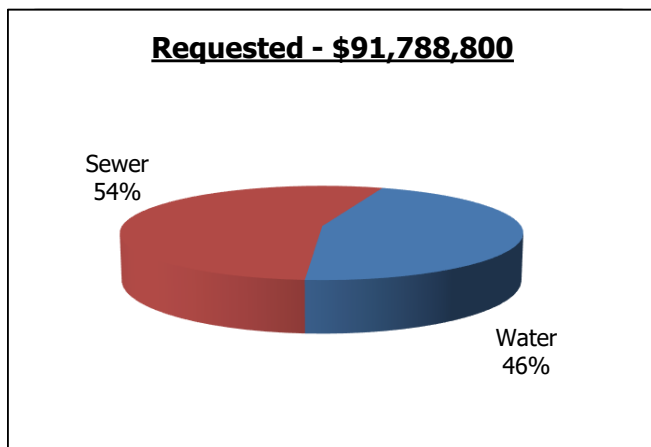
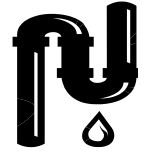
Water and Sewer Utilities



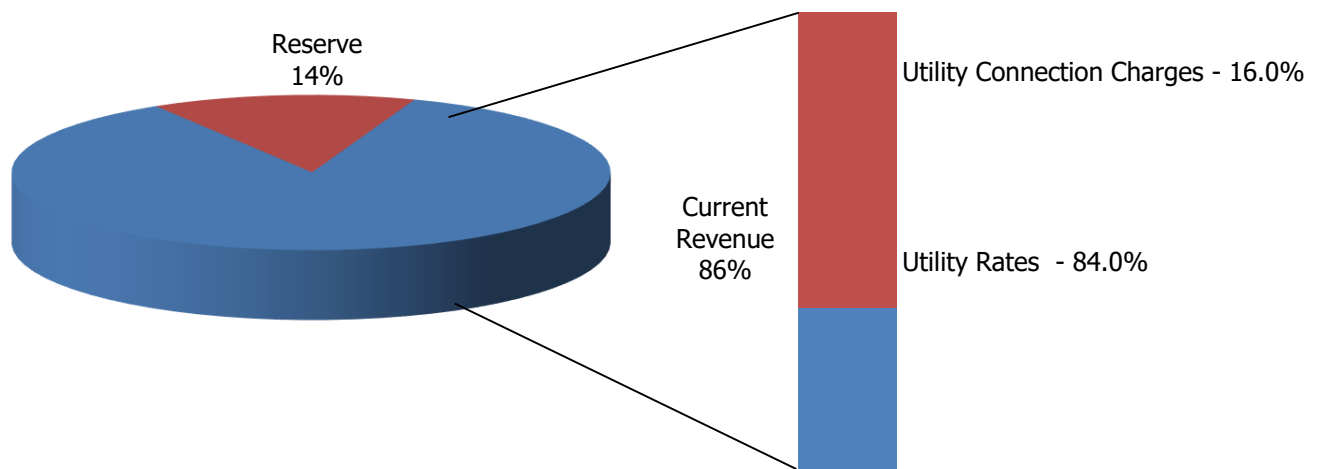
Capital Improvement Program

Utilities

Water and Sewer



Funding Sources



Utility Funding - \$37,860,000

Average Annual Current Revenues

Utility Rates - \$4,545,000
 Connection Charges - \$865,000
 Total Average Annual Revenue - \$5,410,000

City of Kirkland

2017-2022 Capital Improvement Program

WATER/SEWER UTILITY PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source			
										Current Revenue	Reserve	Debt	External Source
WA 0102	104th Ave NE Watermain Replacement			504,800	181,200				686,000	686,000			
WA 0134	5th Ave S / 8th St S Watermain Replacement				183,800	389,200			573,000	573,000			
WA 0139+	6th Street South Watermain Replacement		119,000	719,000					838,000	838,000			
WA 0153	3rd Street Watermain Improvement	440,000	317,000						317,000	317,000			
WA 0154	4th Street Watermain Replacement Phase 2	290,000	174,000						174,000	174,000			
WA 0155	120th Avenue NE Watermain Improvement			273,000					710,000	710,000			
WA 0156	122nd Avenue NE Watermain Improvement		505,600	190,400					696,000	696,000			
WA 0157	8th Avenue W Watermain Improvement			421,800	288,200				710,000	710,000			
WA 0158	NE 112th Street Watermain Improvement			365,000					365,000	365,000			
WA 0159	NE 113th Place Watermain Improvement			373,000					373,000	373,000			
WA 0160	126th Avenue NE Watermain Improvement			272,700	717,300				990,000	990,000			
WA 7777	Annual Water CAO/SWDM Support		500,000						500,000		500,000		
WA 8888	Annual Watermain Replacement Program						400,200	933,000	1,333,200	1,333,200			
WA 9999	Annual Water Pump Station/System Upgrade Pgm						400,200	934,000	1,334,200	1,334,200			
SS 0051	6th Street S Sewermain Replacement		146,100	818,900					965,000	965,000			
SS 0052	108th Avenue NE Sewermain Replacement			711,400	3,236,100	1,558,500			5,506,000	5,506,000			
SS 0062	NE 108th Street Sewermain Replacement					3,390,300	3,179,200		6,569,500	5,169,500	1,400,000		
SS 0069	1st Street Sewermain Replacement	354,200	3,465,800						3,465,800	2,065,800	1,400,000		
SS 0070	5th Street Sewermain Replacement	419,500	864,500						864,500	864,500			
SS 0072	Kirkland Avenue Sewermain Replacement			285,000	2,013,400				2,298,400	898,400	1,400,000		
SS 0077 001+	West of Market Sewermain Replacement - Phase I					225,000	2,500,000	2,500,000	5,225,000	5,225,000			
SS 7777	Annual Sewer CAO/SWDM Support		700,000						700,000		700,000		
SS 8888	Annual Sanitary Pipeline Replacement Program						400,200	933,000	1,333,200	1,333,200			
SS 9999	Annual Sanitary Pump Station/System Upgrade Pgm						400,200	933,000	1,333,200	1,333,200			
Total Funded Water/Sewer Utility Projects		1,503,700	7,229,000	4,935,000	6,620,000	5,563,000	7,280,000	6,233,000	37,860,000	32,460,000	5,400,000	0	0

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

WATER/SEWER UTILITY PROJECTS

Unfunded Projects:

Project Number	Project Title	Total
WA 0052	108th Avenue NE Watermain Replacement	1,584,000
WA 0057	116th Avenue NE Watermain Replacement	2,731,000
WA 0067	North Reservoir Pump Replacement	611,000
WA 0096	NE 83rd Street Watermain Replacement	450,000
WA 0098	126th Ave NE/NE 83rd & 84th St/128th Ave NE Watermain Replacement	1,197,000
WA 0103	NE 113th Place/106th Ave NE Watermain Replacement	841,000
WA 0104	111th Ave NE/NE 62nd St-NE 64th St Watermain Replacement	1,493,000
WA 0108	109th Ave NE/NE 58th St Watermain Replacement	504,000
WA 0109	112th Ave NE Watermain Replacement	1,179,000
WA 0111	NE 45th St And 110th/111th Ave NE Watermain Replacement	1,303,000
WA 0113	116th Ave NE/NE 70th-NE 80th St Watermain Replacement	2,222,100
WA 0118	112th -114th Avenue NE/NE 67th-68th Street Watermain Replacement	3,360,100
WA 0119	109th Ave NE/111th Way NE Watermain Replacement	2,304,000
WA 0120	111th Avenue Watermain Replacement	182,000
WA 0122	116th Avenue NE/NE 100th Street Watermain Replacement	1,506,000
WA 0123	NE 91st Street Watermain Replacement	453,000
WA 0124	NE 97th Street Watermain Replacement	685,000
WA 0126	North Reservoir Outlet Meter Addition	72,300
WA 0127	650 Booster Pump Station	1,603,000
WA 0128	106th Ave NE-110th Ave NE/NE 116th St-NE 120th St Watermain Replacement	2,305,000
WA 0129	South Reservoir Recoating	981,000
WA 0130	11th Place Watermain Replacement	339,000
WA 0131	Supply Station #1 Improvements	61,500
WA 0132	7th Avenue/Central Avenue Watermain Replacement	907,000
WA 0133	Kirkland Avenue Watermain Replacement	446,000
WA 0135	NE 75th Street Watermain Replacement	711,000
WA 0136	NE 74th Street Watermain Replacement	193,000
WA 0137	NE 73rd Street Watermain Replacement	660,000
WA 0138	NE 72nd St/130th Ave NE Watermain Replacement	1,476,000
WA 0145	6th Street South Watermain Replacement	585,100
WA 0146	6th Street/Kirkland Way Watermain Replacement	693,000
WA 0147	106th Avenue NE Watermain Replacement	661,500
WA 0149	Lake Washington Blvd Watermain Replacement	655,000
SS 0068	124th Avenue NE Sewermain Replacement	1,315,000
SS 0077 999	<i>West Of Market Sewermain Replacement</i>	<i>16,456,000</i>
SS 0080	20th Avenue Sewermain Replacement"	812,000
SS 0083	111th Avenue NE Sewer Main Rehabilitation	725,000
SS 0084	Reclaimed Water (Purple Pipe) Opportunity Fund	5,000,000
Subtotal Unfunded Water/Sewer Utility Projects		59,262,600
Funding Available from Annual Programs for Candidate Projects		5,333,800
Net Unfunded Water/Sewer Utility Projects		53,928,800

Notes

Italics = Modification in timing and/or cost

Bold = New projects

" = Moved from funded status to unfunded status

**CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY**

WATER AND SEWER UTILITIES - Water

WA 0102 000 104TH AVE NE WATERMAIN REPLACEMENT

South Juanita Replacement of approximately 1,600 feet of 4-inch asbestos concrete line with new 8-inch ductile iron pipe on 104th Avenue NE between NE 110th Street and NE 113th Street. Cost includes half-street overlay.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$686,000	\$0	\$686,000

WA 0134 000 5TH AVENUE S/8TH STREET S WATERMAIN REPLACEMENT

Everest Replacement of approximately 2,170 feet of 6-inch asbestos concrete with new 16-inch ductile iron pipe along 5th Avenue S, between 6th Street S and 8th Street S and on 8th Street S, between 5th Avenue S and Kirkland Avenue.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$573,000	\$0	\$573,000

WA 0139 000 6TH STREET SOUTH WATERMAIN REPLACEMENT

Everest Replacement of approximately 1,900 feet of 8-inch and 10-inch asbestos concrete line with new 16-inch ductile iron pipe along 6th Street S, between 5th Avenue S and NE 68th Street.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$838,000	\$0	\$838,000

WA 0153 000 3RD STREET WATERMAIN IMPROVEMENT

Norkirk Replace approximately 875 feet of 8-inch asbestos concrete watermain with 8-inch ductile iron watermain, and approximately 1,150 feet of 6-inch asbestos concrete watermain with 12-inch ductile iron watermain.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$440,000	\$317,000	\$0	\$757,000

WA 0154 000 4TH STREET WATERMAIN REPLACEMENT PHASE 2

Norkirk Replace approximately 1,300 feet of 4 and 6-inch asbestos concrete watermain with new 8-inch ductile iron watermain.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$290,000	\$174,000	\$0	\$464,000

WA 0155 000 120TH AVENUE NE WATERMAIN IMPROVEMENT

South Rose Hill Replace approximately 600 feet of 8-inch ductile iron watermain and 750 feet of 6-inch asbestos concrete watermain with 1,350 feet of 20-inch ductile Iron watermain; also replace 200 feet of galvanized pipe with 200 feet of 16-inch ductile iron watermain.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$710,000	\$0	\$710,000

WA 0156 000 122ND AVENUE NE WATERMAIN IMPROVEMENT

South Rose Hill Replace approximately 600 feet of 8-inch ductile iron pipe with 16-inch ductile iron watermain; also replace 1,100 feet of 6-inch asbestos concrete pipe with 12-inch ductile iron watermain.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$696,000	\$0	\$696,000

WA 0157 000 8TH AVENUE WEST WATERMAIN IMPROVEMENT

Market

Replace approximately 1,900 feet of 4-inch cast Iron pipe with 8-inch ductile iron watermain.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$710,000	\$0	\$710,000

WA 0158 000 NE 112TH STREET WATERMAIN IMPROVEMENT

South Juanita

Replace approximately 820 feet of 6-inch asbestos concrete pipe with 820 feet of 8-inch ductile iron watermain.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$365,000	\$0	\$365,000

WA 0159 000 NE 113TH PLACE WATERMAIN IMPROVEMENT

South Juanita

Replace approximately 900 feet of 4-inch asbestos concrete pipe, with 900 feet of 8-inch ductile iron watermain.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$373,000	\$0	\$373,000

WA 0160 000 126TH AVENUE NE WATERMAIN IMPROVEMENT

South Rose Hill

Replace approximately 2,600 feet of 8-inch asbestos concrete pipe with 2,600 feet of 8-inch ductile iron watermain.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$990,000	\$0	\$990,000

WA 7777 000 ANNUAL WATER CAO/SWDM SUPPORT

City-wide

This project provides for the additional design and construction costs for City right-of-way capital projects to comply with the requirement changes of the 2016 City updates to Critical Areas Ordinance Codes (KMC Chapters 83, 85, and 90) and the 2016 City adoption of the April 24, 2016 King County, Washington Surface Water Design Manual.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
On-going	\$0	\$500,000	\$0	\$500,000

WA 8888 000 ANNUAL WATERMAIN REPLACEMENT PROGRAM

City-wide

Replacement of existing watermain and water system appurtenances as required to complete the prioritized watermain projects list contained within the Water Comprehensive Plan Update. Candidate projects under this Annual Program include: WA 0103 - NE 113th Place/106th Ave NE Watermain Replacement, WA 0118 - 112th Avenue NE 114th Avenue NE Watermain Replacement, WA 0120 - 111th Avenue Watermain Replacement, WA 0124 - NE 97th Street Watermain Replacement, WA 0130 - 11th Place Watermain Replacement, WA 0136 - NE 74th Street Watermain Replacement and WA 0137 - NE 73rd Street Watermain Replacement, WA 0146 - 6th Street/Kirkland Way Watermain Replacement, WA 0147 - 106th Avenue NE Watermain Replacement.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,333,200	\$0	\$1,333,200

WA 9999 000 ANNUAL WATER PUMP STATION/SYSTEM UPGRADE PROGRAM

City-wide

The replacement of existing water system appurtenances as required to complete the prioritized system upgrades list contained within the Water Comprehensive Plan Update. Candidate projects under this Annual Program include: WA 0067 - North Reservoir Pump Station Replacement, WA 0126 - North Reservoir Outlet Meter Addition, WA 0127 - 650 Booster Pump Station and WA 0131 - Supply Station #1 Improvements.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,334,200	\$0	\$1,334,200

CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY

WATER AND SEWER UTILITIES - Sewer

SS 0051 000 6TH STREET SOUTH SEWERMAIN REPLACEMENT

Everest

Preliminary design will examine feasibility of slip lining the existing sewer line or the need to replace the existing 10-inch concrete sewer line from NE 68th Street to approximately 8th Avenue South, with approximately 950 feet of 12-inch to 15-inch polyvinyl chloride (PVC) pipe. Capacity issues with this sewer line that were identified in the 1992 Sewer Comprehensive Plan were alleviated with the installation of a new sewer main in NE 68th Street between 6th Street S/108th Avenue NE and Cross Kirkland Corridor in 1997.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$965,000	\$0	\$965,000

SS 0052 000 108TH AVENUE NE SEWERMAIN REPLACEMENT

Central Houghton

Replace and/or rehabilitate approximately 4,000 feet of 8-inch concrete pipe with 8 to 12-inch PVC pipe. Perform video inspection to determine extent and priority of section improvements; preliminary design will examine the feasibility of installing replacement sewer line at a shallower depth than currently exists along this line (specifically between NE 59th Street to NE 53rd Street). This trunk line requires high maintenance due to significant structural deficiencies.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$5,506,000	\$0	\$5,506,000

SS 0062 000 NE 108TH STREET NE SEWERMAIN REPLACEMENT

South Juanita

Replace and/or rehabilitate the existing trunk line with approximately 3,000 feet of 12-inch to 18-inch diameter PVC pipe. Perform video inspection to determine the extent of the improvements. The existing trunk line, a likely source of inflow and infiltration (I/I), experiences minor storm event surcharging and does not have adequate capacity for full development within the basin.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$6,569,500	\$0	\$6,569,500

SS 0069 000 1ST STREET SEWER MAIN REPLACEMENT

Norkirk

Replace existing 8-inch concrete sewerline with approximately 4,170 feet of 8-inch polyvinyl chloride (PVC) sewerline. The existing line was first built in 1950 and is deteriorating, having exceeded its design life.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$354,200	\$3,465,800	\$0	\$3,820,000

SS 0070 000 5TH STREET SEWER MAIN REPLACEMENT

Norkirk

Replace existing 8-inch concrete sewerline with approximately 1,430 feet of 8-inch polyvinyl chloride (PVC) sewerline. The existing line was first built in 1950 and is deteriorating, having exceeded its design life.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$419,500	\$864,500	\$0	\$1,284,000

SS 0072 000 KIRKLAND AVENUE SEWER MAIN REPLACEMENT

Everest

Replace existing 8-inch concrete sewerline with approximately 1,550 feet of 12-inch polyvinyl chloride (PVC) sewerline. The existing trunk line does not have adequate capacity to accommodate projected flows.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$2,298,400	\$0	\$2,298,400

SS 0077 001 WEST OF MARKET SEWERMAIN REPLACEMENT - PHASE 1

Market

The replacement of concrete sewermain in the Market Neighborhood, Market Street to Lake Washington and Waverly Way to 20th Place West.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$5,225,000	\$0	\$5,225,000

SS 7777 000 ANNUAL SEWER CAO/SWDM SUPPORT

City-wide This project provides for the additional design and construction costs for City right-of-way capital projects to comply with the requirement changes of the 2016 City updates to Critical Areas Ordinance Codes (KMC Chapters 83, 85, and 90) and the 2016 City adoption of the April 24, 2016 King County, Washington Surface Water Design Manual.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
On-going	\$0	\$700,000	\$0	\$700,000

SS 8888 000 ANNUAL SANITARY PIPELINE REPLACEMENT PROGRAM

City-wide Installation of sewermain replacements to improve overall system reliability and to reduce maintenance and I & I (Infiltration and Inflow) costs. Candidate projects under this Annual Program include: SS 0068 - 124th Avenue NE Sewermain Replacement; SS 0080 - 20th Avenue Sewermain Replacement

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,333,200	\$0	\$1,333,200

SS 9999 000 ANNUAL SANITARY PUMP STATION/SYSTEM UPGRADE PROGRAM

City-wide Installation of sewer pump station upgrades to improve overall system reliability and to reduce maintenance costs.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,333,200	\$0	\$1,333,200

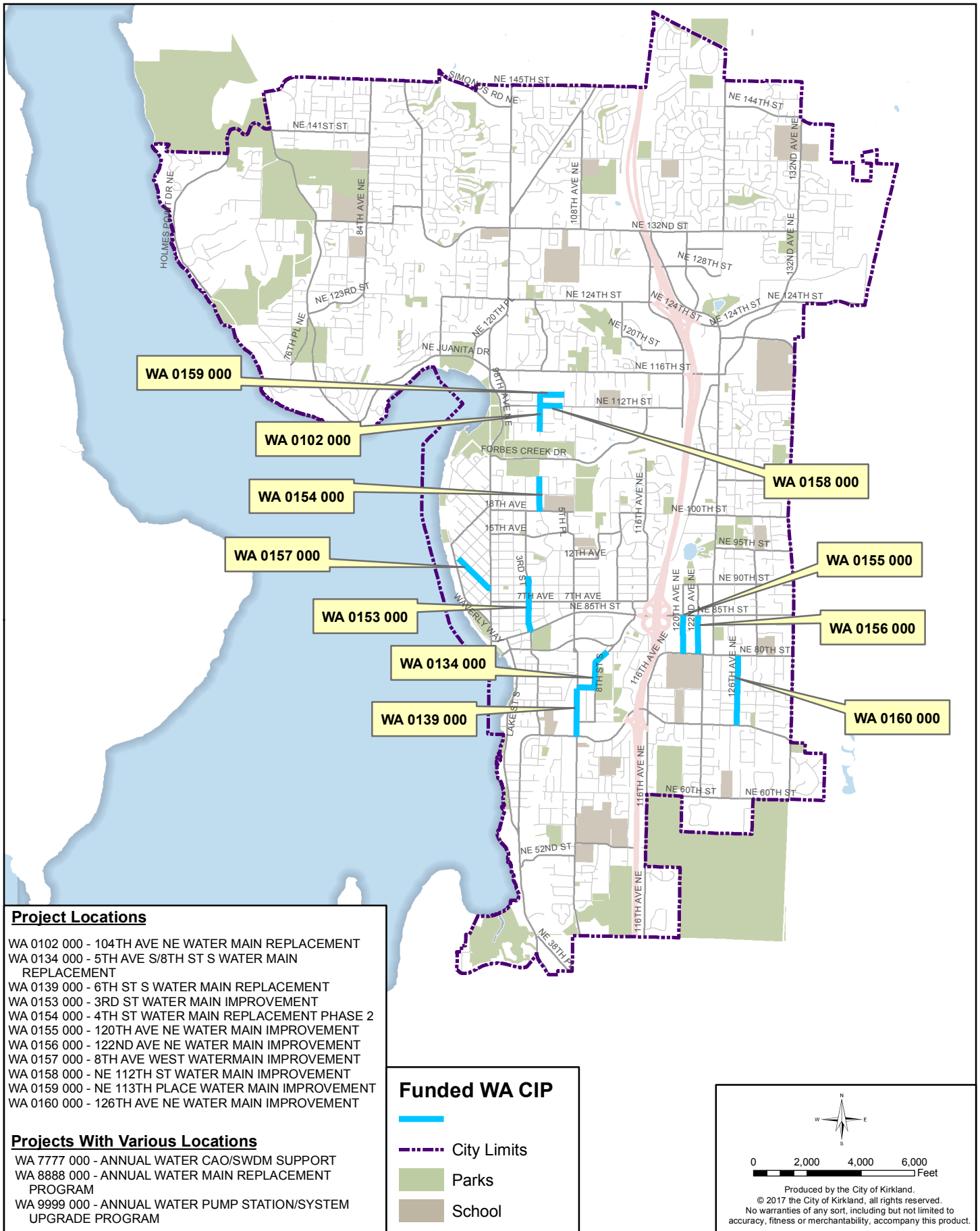
City of Kirkland

2017-2022 Capital Improvement Program

ACTIVE PROJECTS - WATER/SEWER

Prior Activity - Projects Active as of 12/31/2015

Project Number	Project Title	Project Budget as of 2014	Pending Adjustments	2015-16 Funding	Total Current Funding	Expenses as of 12/31/2015	Project Balance 12/31/2015
SS 0064	7th Avenue South Sewermain Replacement	897,800		-	897,800	447,563	450,237
SS 0067	NE 80th Street Sewermain Replacement (Phase II)	2,436,000		-	2,436,000	233,033	2,202,967
SS 0069	1st Street Sewermain Replacement	-		958,900	958,900	-	958,900
SS 0070	5th Street Sewermain Replacement	-		419,500	419,500	-	419,500
SS 0071	6th Street Sewermain Replacement	-		287,000	287,000	-	287,000
SS 0073	Rose Point Sewer Lift Station Replacement	-		2,560,000	2,560,000	151,351	2,408,649
SS 0075	Inflow & Infiltration Reduction Program	200,000		-	200,000	85,914	114,086
SS 0078	5th Avenue S. Sewermain Replacement	188,900		38,000	226,900	185,631	41,269
SS 0079	3rd Ave S/2nd ST S Sewermain Replacement	-		1,227,000	1,227,000	7,817	1,219,183
SS 0081	7th/8th Avenue West Alley Sewermain Replacement	354,000		-	354,000	215,130	138,870
SS 0082	3rd & Central Way Sanitary Sewer Crossing	-		300,000	300,000	-	300,000
SS 1356	Emergency Sewer	130,000		-	130,000	108,597	21,403
SS 8888	Annual Sanitary Pipeline Replacement Program^	217,400		549,400	766,800	-	766,800
SS 9999	Annual Sanitary Pump Station/System Upgrade Pgm^	217,400		549,400	766,800	-	766,800
WA 0063	Supply Station #3 Replacement	141,000		-	141,000	-	141,000
WA 0090	Emergency Sewer Pgm Watermain Replacement	50,000		-	50,000	447	49,553
WA 0093	Vulnerability Analysis	367,900	20,141	-	388,041	61,372	326,669
WA 0094	North Reservoir Painting	3,399,000		-	3,399,000	3,031,302	367,698
WA 0115	Telemetry Upgrades	150,000		200,000	350,000	132,802	217,198
WA 0116	NE 80th St Watermain Replacement (Phase II)	2,836,400		-	2,836,400	224,364	2,612,036
WA 0140	NE 85th Street Watermain Replacement	3,992,200		-	3,992,200	3,379,097	613,103
WA 0148	Park Lane Watermain Replacement	297,000		-	297,000	301,592	(4,592)
WA 0150	6th Street Watermain Replacement	372,500		148,000	520,500	843,957	(323,457)
WA 0151	7th Avenue S Watermain Replacement	325,000		53,000	378,000	261,122	116,878
WA 0152	4th Street Watermain Replacement	-		467,000	467,000	421,551	45,449
WA 0153	3rd Street Watermain Improvement	-		440,000	440,000	-	440,000
WA 0154	4th Street Watermain Replacement Phase 2	-		290,000	290,000	-	290,000
WA 0161	Kirkland Way Watermain Replacement	-		400,000	400,000	-	400,000
WA 0162	LWB Watermain Replacement at Cochran Springs	-		260,000	260,000	36,713	223,287
WA 0163	2nd Street S Watermain Replacement	-		290,000	290,000	-	290,000
WA 8888	Annual Watermain Replacement	-		359,400	359,400	-	359,400
WA 9999	Annual Water Pump Station/System Upgrade Program	-		359,400	359,400	-	359,400
Total		16,572,500	20,141	10,156,000	26,748,641	10,129,355	16,619,286



2017 Funded Water CIP

Parks

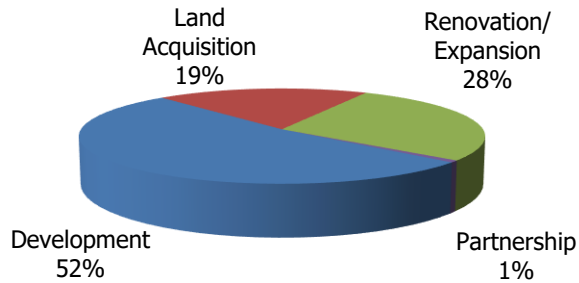


Capital Improvement Program

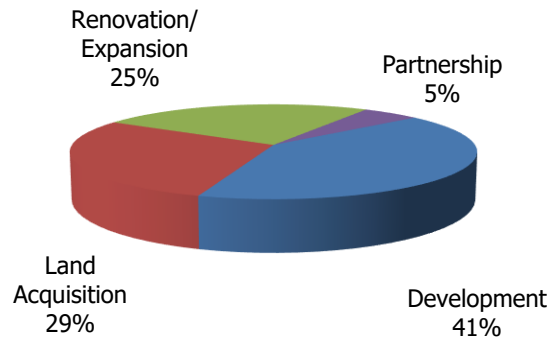
Parks



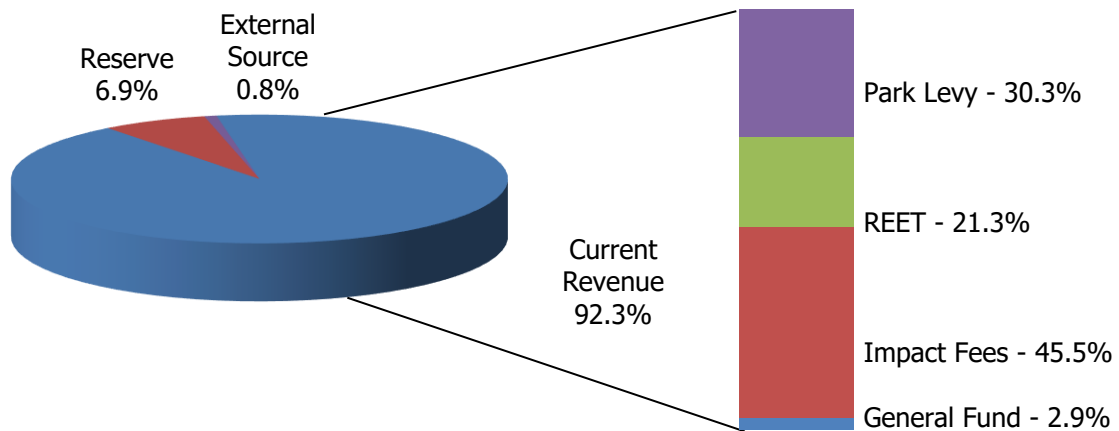
Requested - \$149,149,225



Funded - \$19,114,225



Funding Sources



Parks Funding - \$19,114,225

Average Annual Current Revenues

Park Levy - \$880,167
 Real Estate Excise Tax - \$621,000
 Impact Fees - \$1,325,000
 King County Park Levy - \$150,000
 General Fund - \$83,333
 Total Average Revenue - \$3,059,500

City of Kirkland
2017-2022 Capital Improvement Program

PARK PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source				
										Current Revenue (REET)	Park Levy	Impact Fees	Reserves	External Source
PK 0049	Open Space, Park Land & Trail Acq Grant Match Program		100,000						100,000				100,000	
<i>PK 0066</i>	<i>Park Play Area Enhancements</i>		50,000	50,000	75,000	75,000	75,000	75,000	400,000	320,000		80,000		
PK 0087 101	Waverly Beach Park Renovation Phase 2				250,000	1,000,000			1,250,000		873,000	377,000		
<i>PK 0121</i>	<i>Green Kirkland Forest Restoration Program</i>		75,000	75,000	75,000	75,000	100,000	100,000	500,000	500,000				
<i>PK 0133 100</i>	<i>Dock & Shoreline Renovations</i>				250,000	100,000	250,000	250,000	850,000		850,000			
PK 0133 200	City-School Playfield Partnership		500,000	500,000					1,000,000		1,000,000			
<i>PK 0133 300</i>	<i>Neighborhood Park Land Acquisition</i>		360,000	750,000	600,000	734,000	1,035,000	1,135,000	4,614,000		1,710,000	2,904,000		
<i>PK 0138</i>	<i>Everest Park Restroom/Storage Building Replacement</i>	75,000			803,000				803,000	803,000				
<i>PK 0139 101+</i>	<i>Totem Lake Park Acquisition</i>		550,000						550,000		200,000		200,000	150,000
PK 0139 102	Totem Lake/CKC Land Acquisition		190,000						190,000		190,000			
<i>PK 0139 200</i>	<i>Totem Lake Park Master Plan & Development (Phase I)</i>	660,000	200,000	2,190,000	3,285,225	724,000			6,399,225	678,000		4,514,000	1,207,225	
PK 0147	Parks Maintenance Center			250,000	500,000	750,000			1,500,000	1,425,000		75,000		
PK 0151	Park Facilities Life Cycle Projects		168,000	146,000	162,000	151,000	162,000	169,000	958,000		458,000		500,000	
Total Funded Park Projects		735,000	2,193,000	3,961,000	6,000,225	3,609,000	1,622,000	1,729,000	19,114,225	3,726,000	5,281,000	7,950,000	2,007,225	150,000

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

Unfunded Projects:

Project Number	Project Title	Total
PK 0056 100	Forbes Lake Park Trail Improvements Phase 2	4,000,000
PK 0095 100	Heritage Park Development - Phase III & IV	2,500,000
PK 0097	Reservoir Park Renovation	500,000
PK 0108	McAuliffe Park Development	7,000,000
PK 0114	Mark Twain Park Renovation	750,000
PK 0114 101	Mark Twain Park Renovation (Design)	75,000
PK 0116	Lee Johnson Field Artificial Turf Installation	1,750,000
<i>PK 0119 002"</i>	<i>Juanita Beach Park Development (Phase 2)</i>	<i>1,308,000</i>
PK 0119 200	Juanita Beach Park Development (Phase 3)	10,000,000
PK 0122 100	Community Recreation Facility Construction	67,000,000
PK 0124	Snyder's Corner	1,000,000
PK 0126	Watershed Park Master Planning & Park Development	1,100,000
PK 0127	Kiwanis Park Master Planning & Park Development	1,100,000
PK 0128	Yarrow Bay Wetlands Master Planning & Park Development	1,600,000
PK 0129	Heronfield Wetlands Master Planning & Development	1,600,000
PK 0131	Park and Open Space Acquisition Program	3,000,000
<i>PK 0133 100</i>	<i>Dock & Shoreline Renovations</i>	<i>1,500,000</i>
<i>PK 0134 100"</i>	<i>132nd Pk Playfields</i>	<i>712,000</i>
PK 0135 100	Juanita Heights Park Expansion	1,000,000
PK 0136	Kingsgate Park Master Planning and Park Development	1,150,000
PL 0139 300"	Totem Lake Park Development - Phase 2	2,440,000
PK 0139 400	Totem Lake Park Development - Phase 3	13,000,000
PK 0141 000	South Norway Hill Park Improvements	750,000
PK 0142 000	Doris Cooper Houghton Beach Park Restroom Replacement	850,000
PK 0143 000	Marsh Park Restroom Replacement	700,000
PK 0144 000	Cedar View Park Improvements	150,000
PK 0145 000	Environmental Education Center	2,000,000
PK 0148	Forbes House Renovation	414,000
PK 0149	Taylor Playfields- Former Houghton Landfill Site Master Plan	300,000
PK 0150	North Kirkland Community Center Renovation	786,000
Total Unfunded Parks Projects		130,035,000

Notes*Italics = Modification in timing and/or cost***Bold = New projects**

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" = Moved from funded status to unfunded status

**CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY**

PARKS - Parks

PK 0049 000 OPEN SPACE, PARK LAND & TRAIL ACQUISITION GRANT MATCH PROGRAM

City-wide This project would establish a park and trail acquisition fund to assist with or provide funding for acquisition of key sites as they become available. Acquiring more sites would fill gaps in the City's park system, provide open space contiguous to existing parks or provide important linkages. This project allows the City to remain eligible for State-funded grant programs.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$100,000	\$0	\$100,000

PK 0066 000 PARK PLAY AREA ENHANCEMENTS

City-wide Design, purchase, and construction of new or replacement playground/play area equipment and surfacing. This project provides for the regular and on-going improvement to worn-out equipment in City parks. Parks are determined on an annual basis as funding is available and based on a safety and quality inspection of existing equipment and play areas in City parks. Preliminary schedule: 2017: Terrace Park; 2018: Tot Lot Park; 2019: NKCC; 2020: Everest Park; 2021: Highlands Park; 2022: Cedar View Park.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$400,000	\$0	\$400,000

PK 0087 101 WAVERLY BEACH PARK RENOVATION (PHASE 2)

Market Second phase of renovation to community waterfront park. Improvements may include those not completed in first phase, such as accessibility improvements from Waverly Way, shoreline restoration, parking improvements, and landscaping.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$1,250,000	\$0	\$1,250,000

PK 0121 000 GREEN KIRKLAND FOREST RESTORATION PROGRAM

City-wide Implementation of 20-year urban forest, wetlands, and natural areas restoration plan in City parks, including removal of invasive plants such as English ivy and Himalayan blackberry. Planting of new trees and native shrubs/groundcover.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$500,000	\$0	\$500,000

PK 0133 100 DOCK AND SHORELINE RENOVATIONS

City-wide Dock and shoreline renovations at select waterfront parks. Replace decking material to habitat-friendly system. Remove concrete bulkhead and replace with soft shoreline. Project locations include: Marina Park, Marsh Park, Houghton Beach, Brink Park, 2nd Ave S Dock.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$850,000	\$1,500,000	\$2,350,000

PK 0133 200 CITY-SCHOOL PLAYFIELD PARTNERSHIP

City-wide Development/improvements to playfields at public school sites to improve playability, safety, and aesthetics. Funding provided to supplement Lake Washington School District (LWSD) school modernization program as selected schools are replaced. School sites to be determined in conjunction with LWSD.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,000,000	\$0	\$1,000,000

PK 0133 300 NEIGHBORHOOD PARK LAND ACQUISITION

City-wide Acquisition of land for new neighborhood parks in areas of city where gaps in level of service guidelines have been identified in the Park, Recreation, and Open Space (PROS) Plan. Eight locations include: Finn Hill, Kingsgate (2), N. Juanita (2), N. Rose Hill, S. Rose Hill, Bridle Trails.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$4,614,000	\$4,000,000	\$8,614,000

PK 0138 000 EVEREST PARK RESTROOM/STORAGE BUILDING REPLACEMENT

Everest

Replacement of existing structure with new facility. Existing structure is approximately 60 years old and is reaching the end of its useful life.
Renovation of concession stand

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2014	\$75,000	\$803,000	\$0	\$878,000

PK 0139 101 TOTEM LAKE PARK ACQUISITION

Totem Lake

Acquisition of park property from King Conservation District.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$550,000	\$0	\$550,000

PK 0139 102 TOTEM LAKE/CKC LAND ACQUISITION

Totem Lake

Land acquisition to expand Totem Lake Park adjacent to the Cross Kirkland Corridor (CKC)

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$190,000	\$0	\$190,000

PK 0139 200 TOTEM LAKE PARK DEVELOPMENT EXPANDED PHASE 1

Totem Lake

Develop Totem Lake Park consistent with adopted Master Plan.

Phase 1 implementation to include northern trail and boardwalk segment connecting the park's existing trail system to the Cross Kirkland Corridor. Expanded phase will include park development of the City-owned upland parcel site commonly known at the "Yuppie Pawn" site. Additional project components include wetland enhancements and environmental interpretive features.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2015	\$660,000	\$6,399,200	\$0	\$7,059,200

PK 0147 000 PARKS MAINTENANCE CENTER

City-wide

Development of a new operations center to support the Parks Maintenance Division.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$1,500,000	\$0	\$1,500,000

PK 0151 000 PARK FACILITIES LIFE CYCLE PROJECTS

City-wide

This project will complete on-going repair and/or replacement of major architectural, mechanical, and electrical building systems for structures in City parks. Project will fund major maintenance and is not intended to replace or enhance facilities. As of 2016, the project would be applied to up to 18 existing buildings within the park system. Project would not fund major maintenance of residential structures in parks, which would be funded separately.

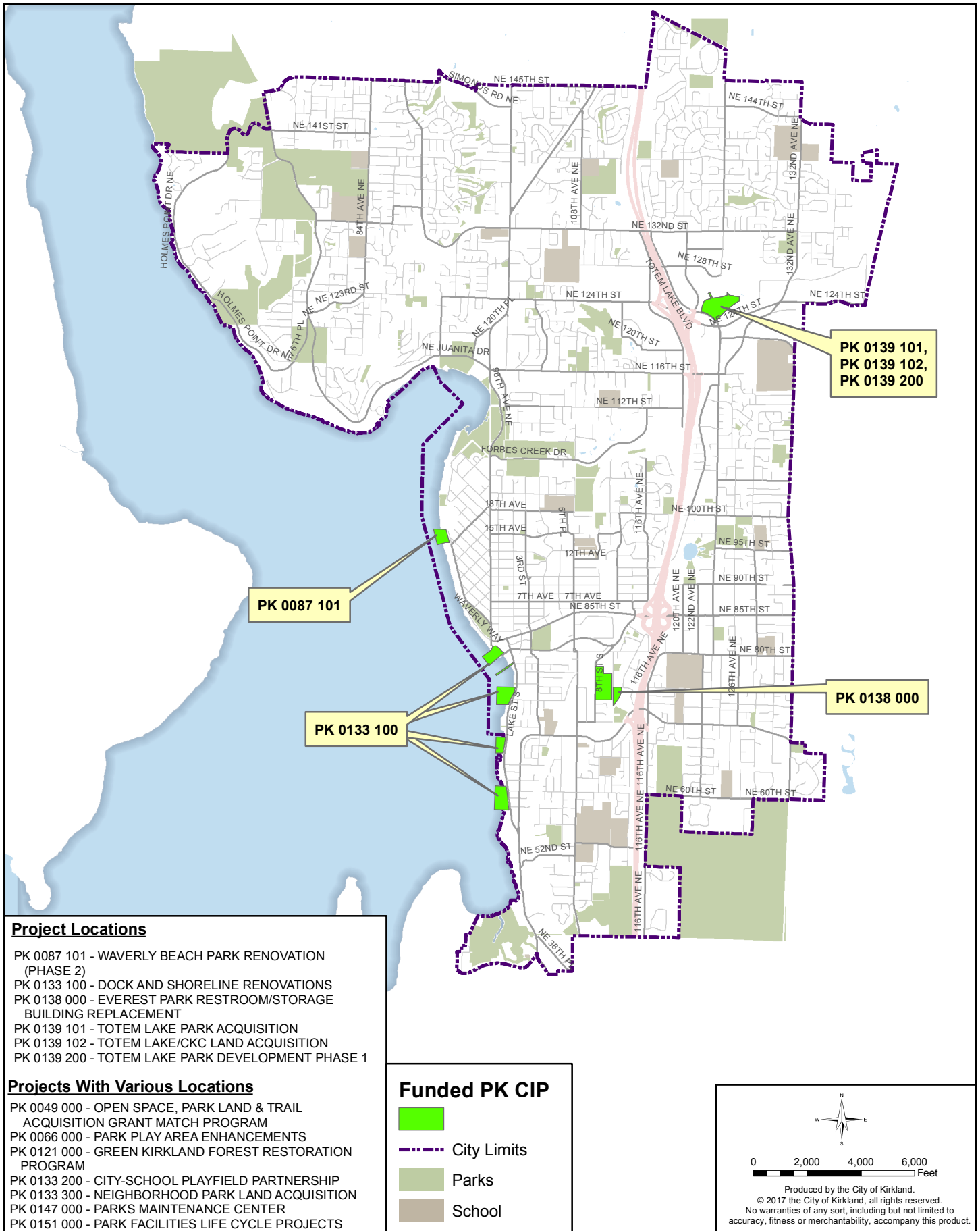
PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$958,000	\$0	\$958,000

City of Kirkland 2017-2022 Capital Improvement Program

ACTIVE PROJECTS - PARKS

Prior Activity - Projects Active as of 12/31/2015

Project Number	Project Title	Project Budget as of 2014	Pending Adjustments	2015-16 Funding	Total Current Funding	Expenses as of 12/31/2015	Project Balance 12/31/2015
PK 0049 000	Open Space Grant Match	-		100,000	100,000	-	100,000
PK 0056 000	Forbes Lake Park Development	1,058,226		-	1,058,226	517,189	541,037
PK 0066 000	Park Play Area Enhancements	915,000		100,000	1,015,000	921,255	93,745
PK 0087 100	Waverly Beach Park Renovovation	739,000		818,015	1,557,015	424,330	1,132,685
PK 0095 200	Heritage Hall Renovations	50,000		-	50,000	13,908	36,092
PK 0108 000	McAuliffe Park Development	288,414		-	288,414	124,223	164,191
PK 0113 100	Spinney Homestead Park Renovation	493,000		-	493,000	47	492,953
PK 0115 000	Terrace Park Renovation	515,000		-	515,000	47	514,953
PK 0119 100	Juanita Beach Bathhouse Replacement & Shelter	-		1,200,000	1,200,000	30,456	1,169,544
PK 0121 000	Green Kirkland Program	566,061		200,000	766,061	663,456	102,605
PK 0123 000	Peter Kirk Pool Upgrades	175,000		-	175,000	153,040	21,960
PK 0123 100	Peter Kirk Pool Liner Replacement	-		125,000	125,000	-	125,000
PK 0133 100	Dock & Shoreline Renovations	300,000		425,000	725,000	139,523	585,477
pk 0133 200	City/School Playfield Partnership	-		850,000	850,000	802,183	47,817
PK 0133 300	Neighborhood Park Land Acquisition	375,000		-	375,000	373,991	1,009
PK 0133 400	Edith Moulton Park Renovation	200,000		800,000	1,000,000	231,136	768,864
PK 0133 401	Edith Moulton Park Renovation Phase 2	-		1,115,000	1,115,000	-	1,115,000
PK 0134 000	132nd Park Playfields Renovation	75,000		637,000	712,000	-	712,000
PK 0135 200	Juanita Heights Park Expansion	-		200,000	200,000	-	200,000
PK 0138 000	Everest Park Restroom/Storage Bldg	75,000		-	75,000	-	75,000
PK 0139 100	Totem Lake Master Plan	120,000		-	120,000	111,422	8,578
PK 0139 200	Totem Lake Master Development Phase I	-		660,000	660,000	899	659,101
Total		5,944,701	-	7,230,015	13,174,716	4,507,105	8,667,611



2017 Funded Parks CIP



Public Safety

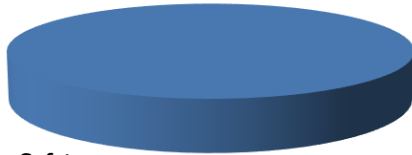


Capital Improvement Program

Public Safety

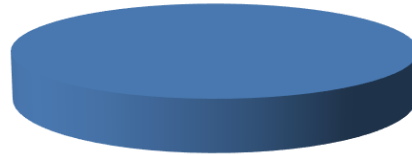


Requested - \$51,315,000



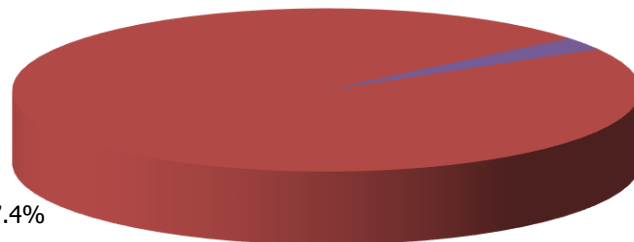
Public Safety
100%

Funded - \$18,385,500



Public Safety
100%

Funding Sources



Reserve, 97.4%

External Source 2.6%

Public Safety Funding - \$18,385,500

City of Kirkland
2017-2022 Proposed Capital Improvement Program

PUBLIC SAFETY PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source		
										Reserve	Debt	External Source
FIRE												
PS 0062	Defibrillator Unit Replacement	11,000	-	-	-	176,900	-	-	176,900	176,900		
PS 0066	Thermal Imaging Cameras		-	-	-	-	112,200	-	112,200	112,200		
PS 0071	Self Contained Breathing Apparatus (SCBA)		-	9,700	-	-	-	-	9,700	9,700		
PS 0076	Personal Protective Equipment	60,000	-	-	573,100	-	-	2,900	576,000	576,000		
PS 0080	Emergency Generators		-	60,000	-	60,000	-	60,000	180,000	180,000		
PS 2000	Fire Equipment Replacement		20,300	46,600	20,900	25,000	15,800	34,200	162,800	162,800		
POLICE												
PS 1000	Police Equipment Replacement		134,900	116,900	98,800	166,800	117,900	112,300	747,600	747,600		
FACILITIES												
PS 3001	Fire Station 25 Renovation		3,787,000	-	-				3,787,000	3,787,000		
PS 3002 002+	Fire Station 24 Replacement		-	10,133,300	-				10,133,300	9,663,000		470,300
PS 3003	Fire Station 27 Property Acquisition		2,500,000	-	-				2,500,000	2,500,000		
Total Funded Public Safety Projects		71,000	6,442,200	10,366,500	692,800	428,700	245,900	209,400	18,385,500	17,915,200	0	470,300

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

Public Safety Unfunded Projects:

Project Number	Project Title	Total
FIRE		
PS 0068	Local Emergency/Public Communication AM Radio	119,100
POLICE		
PS 1200	Police Strategic Plan Implementation	250,000
FACILITIES		
PS 3004	Fire Station 21 Expansion & Remodel	3,885,400
PS 3005	Fire Station 22 Expansion & Remodel	5,812,600
PS 3006	Fire Station 26 Expansion & Remodel	6,763,900
PS 3007	Fire Station 27 Replacement	16,098,500
Total Unfunded Public Safety Projects		32,929,500

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

**CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY**

PUBLIC SAFETY - Public Safety

PS 0062 000 DEFIBRILLATOR UNIT REPLACEMENT

City-wide

Defibrillator units are used by Firefighters and Police Officers to restart the heart in patients whose hearts have stopped. The City's units are replaced on an eight year cycle to keep pace with changes in technology.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$176,900	\$0	\$176,900

PS 0066 000 THERMAL IMAGING CAMERAS REPLACEMENT

City-wide

Thermal imaging cameras (TIC) are used for search and rescue of victims in a heavy smoke and/or fire situation. This aids the firefighters in quick and accurate searches in little-to-zero visibility to rescue victims. The TIC also aid firefighters in finding fire hidden in walls, or other blind spaces, thus allowing suppression crews to quickly and accurately extinguish fires with the smallest amount of damage possible. Cameras are replaced on a seven year replacement cycle.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$112,200	\$0	\$112,200

PS 0071 000 SELF-CONTAINED BREATHING APPARATUS (SCBA)

City-wide

Replace self-contained breathing apparatus (SCBA) on fire department emergency response vehicles. Current SCBAs were purchased in 2003. The existing equipment has had extensive use in firefighting/training and will be nearing the end of the useful, efficient life. As the equipment becomes worn it is increasingly expensive to repair and maintain, along with new updated technology for firefighter survivability and safety being available. The project cost covers new SCBA tanks, units, extra masks, and a "buddy breathing system" for each unit.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$9,700	\$0	\$9,700

PS 0076 000 PERSONAL PROTECTIVE EQUIPMENT (PPE)

City-wide

Scheduled replacement Fire suppression personal protective equipment (PPE). PPE is essential equipment, and this project provides two PPE kits for each firefighter, helping to ensure firefighter safety. Replacement of the equipment is on a five year cycle.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$576,000	\$0	\$576,000

PS 0080 000 EMERGENCY GENERATORS

City-wide

Provide three generators and transfer switches at locations across the City, to improve capacity in an emergency situation.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2016	\$60,000	\$180,000	\$0	\$240,000

PS 1000 000 POLICE EQUIPMENT REPLACEMENT

City-wide

Planned periodic replacement of Police Department equipment, including weapons, protective equipment, breathalyzers and radar.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$747,600	\$0	\$747,600

PS 2000 000 FIRE EQUIPMENT REPLACEMENT

City-wide

Project combines funding for replacement of fire equipment under \$50,000. Current equipment includes; hoses, physical fitness equipment, radio batteries, body armor.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$162,800	\$0	\$162,800

PS 3001 000 FIRE STATION 25 RENOVATION

Finn Hill

Renovate existing Fire Station 25 to provide improved emergency response time and capacity in north neighborhoods.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$3,787,000	\$0	\$3,787,000

PS 3002 002 FIRE STATION 24 REPLACEMENT

North Juanita

Estimated cost to build replacement for Fire Station 24 to serve north neighborhoods.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$10,133,300	\$0	\$10,133,300

PS 3003 000 FIRE STATION 27 PROPERTY ACQUISITION

City-wide

Funding to purchase land for future Fire Station 27

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$2,500,000	\$0	\$2,500,000

City of Kirkland
2017-2022 Capital Improvement Program

ACTIVE PROJECTS - PUBLIC SAFETY

Prior Activity - Projects Active as of 12/31/2015

Project Number	Project Title	Project Budget as of 2014	Pending Adjustments	2015-16 Funding	Total Current Funding	Expenses as of 12/31/2015	Project Balance 12/31/2015
PS 0056	Disaster Supply Storage Units	142,700		-	142,700	109,130	33,570
PS 0062	Defib Unit Replacement	253,900		-	253,900	236,668	17,232
PS 0065	Disaster Response Portable Generators	300,000	47,400	-	347,400	351,466	(4,066)
PS 0071	Self Contained Breathing Apparatus	741,600		-	741,600	733,406	8,194
PS 0076	Personal Protective Equipment	518,200		-	518,200	452,048	66,152
PS 0078	Power Cots	-		234,300	234,300	78,090	156,210
PS 0080	Emergency Generators	-		60,000	60,000	-	60,000
PS 2000	Fire Equipment Replacement	-		72,800	72,800	31,416	41,384
PS 1000	Police Equipment Replacement	111,700		262,200	373,900	140,104	233,796
GG 0013 102	Public Safety Building Phase II	32,662,200		-	32,662,200	31,577,298	1,084,902
PS 3002	Fire Station 24 Property Acquisition	-		2,500,000	2,500,000	10,424	2,489,576
Total		34,730,300	47,400	3,129,300	37,907,000	33,720,050	4,186,950

General Government

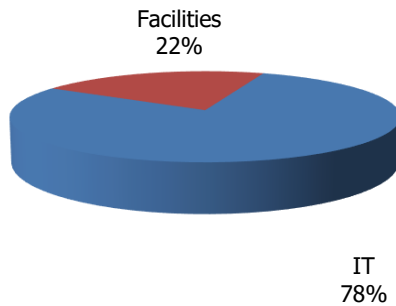


Capital Improvement Program

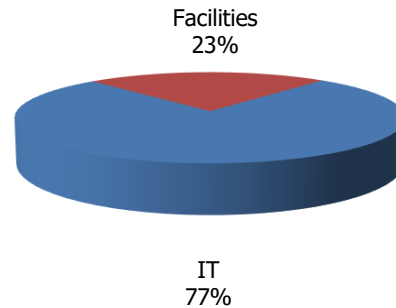
General Government



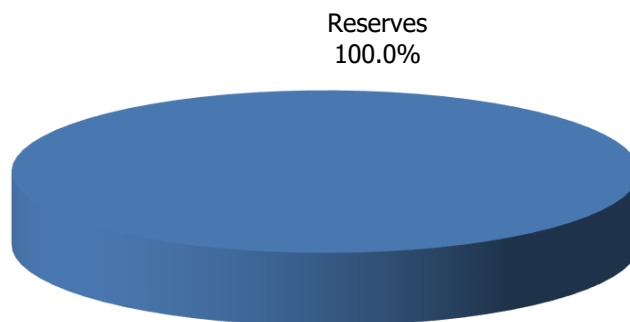
Requested - \$11,869,600



Funded - \$11,310,600



Funding Sources



General Government Funding - \$11,310,600

City of Kirkland
2017-2022 Capital Improvement Program

GENERAL GOVERNMENT PROJECTS - Technology

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source		External Source
										Reserves/ Prior Yr	Debt	
IT 0100	Network Server Replacements		203,700	33,000	71,400	46,400	244,700	8,000	607,200	607,200		
IT 0110	Network Infrastructure		51,100	119,000	114,000	1,006,600	49,100	45,600	1,385,400	1,385,400		
IT 0120	Network Storage, Backup & Archiving		80,000	1,099,400		18,400	20,100	80,000	1,297,900	1,297,900		
IT 0130	Network Phone Systems						250,000		250,000	250,000		
IT 0140	Network Security				75,000	30,000	30,000	75,000	210,000	210,000		
IT 0200	Geographic Information Systems		275,000	285,000	285,000	285,000	285,000	285,000	1,700,000	1,700,000		
IT 0302+	Court Customer Service Systems Improvements		154,400						154,400	154,400		
IT 0303+	Sharepoint and Trim Upgrade		123,800	63,300					187,100	187,100		
IT 0402	Financial System Replacement		2,500,000						2,500,000	2,500,000		
IT 0500	Copier Replacements		39,000	30,500	34,000	34,600	36,000	55,900	230,000	230,000		
IT 0702	EAM Maintenance Management System Replacement	1,239,600	205,600						205,600	205,600		
Total Funded General Gov. Projects - Technology		1,239,600	3,632,600	1,630,200	579,400	1,421,000	914,900	549,500	8,727,600	8,727,600	0	0

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

Technology Unfunded Projects:

Project Number	Project Title	Total
IT 0201	GIS Community Information Portal	100,000
IT 0301	Open Data Solution Implementation	229,800
IT 0602	Business Intelligence/Standard Reporting Tool	132,200
IT 0701	Fleet Management Systems Replacement	80,000
IT 0902	Customer Relationship Management System	17,000
Total Unfunded General Government Projects - Technology		559,000

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold= New projects

+ = Moved from unfunded to funded

" = Moved from funded to unfunded

City of Kirkland
2017-2022 Capital Improvement Program

GENERAL GOVERNMENT PROJECTS - Facilities

Funded Projects:

Project Number	Project Title	Prior Year(s)	2017	2018	2019	2020	2021	2022	2017-2022 Total	Funding Source			
										Current Revenue	Reserve	Debt	External Source
GG 0008	<i>Electrical, Energy Management & Lighting Systems</i>		-	38,800	28,800	-	34,700	131,500	233,800		233,800		
GG 0009	<i>Mechanical/HVAC Systems Replacements</i>		176,400	223,300	314,800	78,200	20,000	10,500	823,200		823,200		
GG 0010	<i>Painting, Ceilings, Partition & Window Replacements</i>		20,900	4,100	144,700	244,700	28,800	8,400	451,600		451,600		
GG 0011	<i>Roofing, Gutter, Siding and Deck Replacements</i>		126,100	231,700	-	74,000	7,100	-	438,900		438,900		
GG 0012	<i>Flooring Replacements</i>		101,700	55,600	40,200	209,400	188,800	39,800	635,500		635,500		
Total Funded General Government Projects - Facilities		-	425,100	553,500	528,500	606,300	279,400	190,200	2,583,000	-	2,583,000	-	-

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

CITY OF KIRKLAND

2017-2022 CAPITAL IMPROVEMENT PROGRAM

PROJECT SUMMARY

GENERAL GOVERNMENT - Information Technology

IT 0100 000 NETWORK SERVER REPLACEMENTS

City-wide

Provides for the regular replacement of network file servers that house the City's software systems, such as finance, permitting, GIS, and email. Without these servers, shared applications would not be available which would significantly disrupt services. Network servers are on a 4-year replacement cycle.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$607,200	\$0	\$607,200

IT 0110 000 NETWORK INFRASTRUCTURE

City-wide

Provides for upgrades/replacements of network routers, switches, firewalls, wireless access points and other hardware security appliances (e.g. intrusion prevention system, email and internet monitoring and filtering). This equipment connects City outbuildings, network servers, network storage, the phone system and staff computers to our core network, which is split between Kirkland City Hall and Bellevue City Hall. It provides secure connections to networks outside of the City's internal network and the Internet. This project also funds the City's share of the capital costs associated with the Community Connectivity Consortium (city/schools/hospital fiber optic network).

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,385,400	\$0	\$1,385,400

IT 0120 000 NETWORK STORAGE, BACKUP AND ARCHIVING

City-wide

Provides for upgrades/replacements of the Storage Area Network (SAN), which stores most city data, and the network backup infrastructure. Equipment replacements/upgrades occur on a cyclical basis. Some major equipment replacement cycles are grouped together. For example, data storage and backup infrastructure are replaced together to allow staff to price multiple options including off-premises (cloud) and on-premises solutions. This strategy provides more options for switching base technologies when it is advantageous to do so.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,297,900	\$0	\$1,297,900

IT 0130 000 NETWORK PHONE SYSTEM

City-wide

Provides for upgrades/replacements of the City's phone system. In 2021, the City's current phone system is due for its regularly scheduled software upgrade and hardware replacement. This CIP funds that project.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$250,000	\$0	\$250,000

IT 0140 000 NETWORK SECURITY

City-wide

Provides funding for a regularly scheduled information technology security assessment by a third party. Often the findings from these assessments will recommend additional safeguards for information technology systems. Additional consultant resources may be required to actually accomplish this work.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$210,000	\$0	\$210,000

IT 0200 000

City-wide

GEOGRAPHIC INFORMATION SYSTEMS

The GIS program directly benefits at least two-thirds of City staff with an easily accessible GIS browser, multiple standard products, a high quality spatial data repository, training, and advanced tools tailored to meet identified business needs. GIS also benefits citizens and businesses in Kirkland directly through public-facing Kirkland Maps, the CIP interactive map, and regional projects like NWMAPS, NWProperties, etc. The City's GIS administrator works closely with the GIS steering committee and finance to ensure priorities and performance are aligned with the City's work plan, City Council goals, and resource constraints. Community initiatives such as transportation, economic development, public safety, and regional collaboration are all reflected in the GIS program tasks and products. The GIS work plan includes ongoing database maintenance, special projects, technical program enhancements, permitting integration, maintenance management, public safety, and workgroup-specific support.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,700,000	\$0	\$1,700,000

IT 0302 000

City-wide

COURT CUSTOMER-SERVICE SYSTEMS IMPROVEMENTS

Technology has been developed to better integrate document management systems and electronic forms with Washington State's Courts of Limited Jurisdiction case management system, JIS. This functionality would help the court to better manage and schedule court hearings, maintain a library of electronic court forms/templates, auto populate these forms based on JIS data, route forms for edits and signature, archive the completed forms to a document storage system which would automatically have retention for destruction, and eventually update the JIS record automatically. The benefits of implementing this technology are reduced data-entry by Court staff for forms and the JIS system, reduced delay in providing documents for review and signature, enhanced customer service for people interacting with the Court (defendants, attorneys, prosecutor), increased security and efficiency by allowing electronic documents to route to defendants in jail custody without the need to relay documents by hand, and better retention, retrieval and access to Court documents which will also help the Court respond to Public Records Requests.

It is estimated that Court staff complete 3-7 pages of forms for each case and then spend additional time updating the JIS system with data from the form that this system could populate and update. This system would eliminate scriveners' errors, missed information, and eliminate wording on the form that does not apply to a particular case. In addition the system will reduce the need for re-entering the form data into JIS. With the Kirkland Jail in the same facility as the Court, defendants can be in custody and still be actively participating in their hearings and arraignments. This system would allow us to route necessary forms and documents to them and maintain this security. An electronic case file and document management system would eliminate the need of supply costs associated with building a paper file, the labels to identify the file, the paper to create the documents in the file, and the space to store the file while active and then for the 3 years after it is archived.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$154,400	\$0	\$154,400

IT 0303 000

City-wide

SHAREPOINT AND TRIM UPGRADE

Microsoft's SharePoint product acts as the framework for the City's Intranet. Commonly used tools such as CouncilNet, department portals, CityViews, Announcements, and many shared sites depend on SharePoint as the base tool they run on. Our current SharePoint version is 2007, and was upgraded with no significant design changes from 2003 during the recession. Over the last few years, SharePoint has been used for more things than ever (for example, the city and its consultants used SharePoint to work together on the ST3 projects), and the new users and uses of the system are struggling with the older technology. The current version will soon be unsupported. This request helps the city move to the cloud-based version of SharePoint, provides time and effort for a re-design of the user interface and navigation, to increase security, provide training, and enhance governance. The project includes integration with TRIM, Kirkland's current document management system.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$187,100	\$0	\$187,100

IT 0402 000

City-wide

FINANCIAL SYSTEM REPLACEMENT

This project is to review options for possible replacement of the existing Finance System implemented in 1999. The Finance System supports the following functions: general ledger / job ledger including journal entries, budgeting, accounts receivable, accounts payable, purchasing, payroll / Human Resources (HR), including employee self-serve payroll/HR abilities, bank reconciliation.

It is GASB compliant and supports fund accounting. A replacement system must meet these functions and requirements. Replacement of the system would require backfill of business and IT staff resources.

Project objectives are to: develop functional requirements and produce a request for proposal for a finance/HR system. Request for Proposal (RFP) process may require consultant assistance to solicit requirements and assist with the RFP process, complete the RFP process including vendor demos, system selection and contract negotiations, implementation of selected system for each functional area.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$2,500,000	\$0	\$2,500,000

IT 0500 000

City-wide

COPIER REPLACEMENTS

Provides for regular replacement of multi-function copiers and wide format plotters. Also included is the wide format (KIP) scanner/copier in the Planning department. Currently there are 34 machines at the various city buildings. Equipment is generally replaced after seven years, but usage, parts availability and repair frequency determine actual replacement date.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$230,000	\$0	\$230,000

IT 0702 000

City-wide

EAM MAINTENANCE MANAGEMENT SYSTEM REPLACEMENT

The project is to implement the selected Enterprise Asset and Maintenance Management system. The project will be phased over three years to incorporate the following functional areas into the new system: Public Works (Streets, Water, Storm and Surface Water), Facilities, and Parks. The new system will provide work management, maintenance management, asset management, asset life cycle management, purchasing and inventory, personnel and timekeeping, mobility-using application and geographic based (GIS) user interfaces. The project will also include interfaces to the finance system to reduce redundant data-entry of purchasing and timekeeping information.

Implementation of the system would require staff resources in the following areas: Applications Analyst and Business Analyst and require staff backfill of subject matter experts and IT resources in the following areas: GIS Analyst, PW division managers and Leads, PW administrative personnel, facilities lead tech and inventory control, Parks division managers and leads.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
2013	\$1,239,600	\$205,600	\$0	\$1,445,200

**CITY OF KIRKLAND
2017-2022 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY**

GENERAL GOVERNMENT - Facilities

GG 0008 000 ELECTRICAL, ENERGY MANAGEMENT, AND LIGHTING SYSTEMS

City-wide The funds will cover the cost of replacing electrical, energy management and lighting systems such as: alarm panels, interior and exterior lighting, and direct digital control energy management systems at the end of their useful lives. The following buildings are included in the Life Cycle Model: City Hall, all Fire Stations, Peter Kirk Community Center, North Kirkland Community Center, Kirkland Teen Union Building, City Hall Annex, Heritage Hall, Kirkland Performing Arts Center, the Municipal Parking Garage, the Kirkland Justice Center, and all of the structures at the Maintenance Center. The life cycle is 15 years for a typical exterior or interior light fixture and 20 years for an energy management system. Any facility in this group that has one of these items scheduled to occur from 2015-2020 is included in this request.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$233,800	\$0	\$233,800

GG 0009 000 MECHANICAL/HVAC SYSTEMS REPLACEMENT

City-wide The funds requested will cover the cost of replacing mechanical systems including boilers and hot water tanks, sump pumps, and Heating Ventilation and Air Conditioning (HVAC) systems as these items reach the end of their useful lives. The following buildings are included in the Life Cycle Model: City Hall, all Fire Stations, Peter Kirk Community Center, North Kirkland Community Center, Kirkland Teen Union Building, City Hall Annex, Heritage Hall, Kirkland Performing Arts Center, the Municipal Parking Garage, the Kirkland Justice Center, and all of the structures at the Maintenance Center. Any facility in this group that has one of these items scheduled to occur from 2015-2020 is included in this request.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$823,200	\$0	\$823,200

GG 0010 000 PAINTING, CEILINGS, PARTITION, WINDOW REPLACEMENT

City-wide The funds will cover the cost of interior and exterior painting, parking garage striping, and window and window film replacement at City buildings as these items reach the end of their life cycle. The following buildings are included in the Life Cycle Model: City Hall, all Fire Stations, Peter Kirk Community Center, North Kirkland Community Center, Kirkland Teen Union Building, City Hall Annex, Heritage Hall, Kirkland Performing Arts Center, the Municipal Parking Garage, the Kirkland Justice Center, and all of the structures at the Maintenance Center. The current Life Cycle Model for these buildings has the interior and exterior painting occurring on a eight-year cycle, which was increased this year from a six-year cycle. Any facility in this group that has one of these items scheduled to occur from 2015-2020 is included in this request.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$451,600	\$0	\$451,600

GG 0011 000 ROOFING, GUTTER, SIDING AND DECK REPLACEMENTS

City-wide The funds will cover the cost of roofing, gutter, siding and deck replacement, and parking lot resurfacing at City buildings as these items reach the end of their life cycle. The following buildings are included in the Life Cycle Model: City Hall, all Fire Stations, Peter Kirk Community Center, North Kirkland Community Center, Kirkland Teen Union Building, City Hall Annex, Heritage Hall, Kirkland Performing Arts Center, the Municipal Parking Garage, the Kirkland Justice Center, and all of the structures at the Maintenance Center. The current Life Cycle Model for these buildings has the life cycle for roofing ranging from 20 to 40 years (depending on the type), and gutters and decks are scheduled for 15 years. Any facility in this group that has one of these items scheduled to occur from 2015-2020 is included in this request.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$438,900	\$0	\$438,900

GG 0012 000 FLOORING REPLACEMENTS

City-wide All of the flooring products in the City buildings will need to be replaced as they reach the end of their life cycle. The following buildings are included in the Life Cycle Model: City Hall, all Fire Stations, Peter Kirk Community Center, North Kirkland Community Center, Kirkland Teen Union Building, City Hall Annex, Heritage Hall, Kirkland Performing Arts Center, the Kirkland Justice Center, and all of the structures at the Maintenance Center. Any facility in this group that has one of these items scheduled to occur from 2015-2020 is included in this request.

PROJECT START	Prior Year(s)	2017-2022 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$635,500	\$0	\$635,500

City of Kirkland
2017-2022 Capital Improvement Program

ACTIVE PROJECTS - TECHNOLOGY

Prior Activity - Projects Active as of 12/31/2015

Project Number	Project Title	Project Budget as of 2014	Pending Adjustments	2015-16 Funding	Total Current Funding	Expenses as of 12/31/2015	Project Balance 12/31/2015
GG 0006 110	Records Management System	1,297,200		-	1,297,200	1,133,652	163,548
GG 0006 205	Municipal Court Technology Projects	50,000		-	50,000	38,941	11,059
GG 0006 501	Permit System Replacement	981,412		-	981,412	809,005	172,407
IT 0100	Network Server Replacements	337,158		59,800	396,958	243,348	153,610
IT 0110	Network Infrastructure	746,631		95,600	842,231	793,366	48,865
IT 0120	Network Storage, Backup & Archiving	1,319,484		38,500	1,357,984	1,060,006	297,978
IT 0130	Network Phone Systems	50,000		395,000	445,000	8,784	436,216
IT 0140	Network Security	302,000		55,000	357,000	169,222	187,778
IT 0200	Geographic Information Systems	545,000		525,000	1,070,000	562,685	507,315
IT 0300	Finance & HR System Modules	115,594		-	115,594	41,246	74,348
IT 0500	Copier Replacements	-		87,000	87,000	-	87,000
IT 0601	Help Desk System Replacement Ph. 2	-		66,000	66,000	-	66,000
IT 0702	Maintenance Management System Upgrade	177,600		1,062,000	1,239,600	331,648	907,952
IT 0802	Recreation Registration System Replacement	-		83,000	83,000	-	83,000
IT 0901	Disaster Recovery System Improvements	125,000		-	125,000	-	125,000
IT 0903	Wireless in the Park Ph. 2	-	11,949	200,000	211,949	211,949	-
IT 0904	Council Chamber Video System	-		464,000	464,000	198,397	265,603
Total		6,047,079	11,949	3,130,900	9,189,928	5,602,249	3,587,679

City of Kirkland
2017-2022 Capital Improvement Program

ACTIVE PROJECTS - FACILITIES (BUILDING PROJECTS)

Prior Activity - Projects Active as of 12/31/2015

Project Number	Project Title	Project Budget as of 2014	Pending Adjustments	2015-16 Funding	Total Current Funding	Expenses as of 12/31/2015	Project Balance 12/31/2015
GG 0008	Electrical, Energy Management & Lighting Systems	96,200		59,400	155,600	51,114	104,486
GG 0009	Mechanical/HVAC Systems Replacement	165,103	(34,030)	-	131,073	35,174	95,898
GG 0010	Painting, Ceilings, Partition & Window Replacements	43,000	(25,000)	230,500	248,500	23,951	224,549
GG 0011	Roofing, Gutter, Siding & Deck Replacements	189,100	(33,000)	32,000	188,100	46,796	141,304
GG 0012	Flooring Replacements	66,400		112,700	179,100	57,638	121,462
GG 0014	City Facilities Energy Efficiency Project	846,000	122,223	-	968,223	933,005	35,218
GG 0035 100	City Hall Expansion Phase I	2,050,000		9,700,000	11,750,000	1,840,510	9,909,490
GG 0035 201	City Hall Furnishings			600,000	600,000	376,903	223,097
GG 0035 202	Council Chamber/Lobby Furnishings			180,000	180,000	-	180,000
GG 0035 300	City Hall Lower Demolition			90,000	90,000	1,397	88,603
GG 0037 002	Maintenance Center Expansion Phase II2	1,450,000		3,000,000	4,450,000	287,014	4,162,986
Total		4,905,803	30,193	14,004,600	18,940,596	3,653,503	15,287,092

Equipment Rental



Capital Improvement Program

City of Kirkland 2017 to 2022 Capital Improvement Program Equipment Rental Section

The Equipment Rental section includes all replacement vehicles costing \$50,000 or greater. All replacement vehicles are 100% funded by accumulated reserves in the Equipment Rental Fund. Included in this section is a summary chart listing the vehicles to be replaced over the six-year period of 2017–2022.

The vehicles planned for replacement costing \$50,000 or more are subject to the same process as the entire fleet with respect to replacement standards. In June of each year, each vehicle whose normal accounting life expires in the coming six budget years is examined to determine whether extending its service life beyond the original replacement date is a financially sound decision. Considerations include engine hours, mileage, maintenance history, structural wear, declining resale value, and future intended use of the proposed replacement vehicle. If a determination is made that a vehicle is to be replaced, “right-sizing” of the vehicle for its intended use will be conducted. A vehicle will normally be replaced in kind, and “right-sizing” often results in a lesser cost. Upgraded vehicles for specific functions may require an approved Service Package in order to cover the difference between the replaced vehicle’s Replacement Reserve account and the cost of the proposed replacement vehicle.

Savings are incurred when the operational life of vehicles can be extended beyond their normal accounting life. This is usually due to low engine hours, mileage, or major repairs that have been performed to the vehicle. The vehicles on the six-year CIP schedule are analyzed using these factors and their replacement reserve reflects anticipated normal usage. If a vehicle that has reached its normal accounting life is evaluated to have ongoing functionality, the useful life of that vehicle may be extended.

There are nine vehicles costing in excess of \$50,000 currently scheduled for replacement in 2017. Of the nine vehicles, seven were extended beyond their normal accounting lives due to good condition. These vehicles include F213 and F216 Suburban Command vehicles (extended three years and one year), F317 Aid Vehicle (seven years), F-14 Ford F450 Flatbed (five years), F-16 and F-20 Ford F450 2/3 Dump Bodies (five and one year), and a Ford Tractor (four years). The other two vehicles, which are being replaced on schedule, include F610 Spartan Pumper Fire Truck and T-04 Passenger Bus.

There are twelve vehicles costing in excess of \$50,000 currently scheduled for replacement in 2018. Five of them were extended two years beyond their accounting life including F-19 (F350 Flatbed with crane), U-08 (Bucket Truck), V-03/V-04 (Aquatech Eductors), and P110 (F350 Corrections Van). Another, F218 (Ford F250) was extended one year. The other six are scheduled for normal replacements in 2018.

The extension of operational use for each of these vehicles has been noted in the comments section of the attached chart.

**City of Kirkland
2017-2022 Capital Improvement Program
Vehicle Replacements Over \$50,000**

Fire

Vehicle	Year / Description	Acct Life	Normal Replacement Date							Six Year Total Cost	Comments
				2017	2018	2019	2020	2021	2022		
F213	2006 / Chevrolet Suburban Command	8	6/1/2014	74,192						74,192	Extended 3 Years, Good Condition
F216	2008 / Chevrolet Suburban Command	8	6/1/2016	84,439						84,439	Extended 1 Year, Good Condition
F317	2008 / Ford Road Rescue Aid Vehicle	8	6/1/2010	234,444						234,444	Extended 7 Years, Annexation
F610	1999 / H&W Spartan Pumper	18	6/1/2017	690,698						690,698	On schedule
F218	2009 / Ford F250 Ext. Cab. Custom	8	6/1/2017		61,889					61,889	Extended 1 Year, Good Condition
F219	2010 / Chevrolet Suburban Command	8	6/1/2018		75,848					75,848	On schedule
F318	2010 / Ford Road Rescue Aid Vehicle	8	6/1/2018		242,650					242,650	On schedule
F319	2012 / Ford Road Rescue Aid Vehicle	8	6/1/2020				259,993			259,993	On schedule
F611	2003 / Spartan-H&W Pumper	18	6/1/2021					758,903		758,903	On schedule
F612	2003 / Spartan-H&W Pumper	18	6/1/2021					758,903		758,903	On schedule
F320	2014 / Ford Road Rescue Aid Vehicle	8	6/1/2022						278,511	278,511	On schedule
F321	2014 / Ford Road Rescue Aid Vehicle	8	6/1/2022						278,511	278,511	On schedule
F214	2014 / Chevrolet 3500 Crew Cab (4x4)	8	6/1/2022						57,879	57,879	On schedule
Total Fire Vehicles				1,083,773	380,387	-	259,993	1,517,806	614,901	3,856,860	

Parks & Community Services

Vehicle	Year / Description	Acct Life	Normal Replacement Date							Six Year Total Cost	Comments
				2017	2018	2019	2020	2021	2022		
F-14	2004 / Ford F450 Flatbed	8	6/1/2012	61,538						61,538	Extended 5 Years, Good Condition
F-16	2004 / Ford F450 2/3 Yard Dump Body	8	6/1/2012	58,960						58,960	Extended 5 Years, Good Condition
TR-10	2003 / Ford Ballfield Tractor 5420	10	6/1/2013	50,821						50,821	Extended 4 Years, Good Condition
F-20	2008 / Ford F450 Cr. 2/3 Yd. Dump Body	8	6/1/2016	63,865						63,865	Extended 1 Year, Good Condition
T-04	2007 / Aerotech Passenger Bus	10	6/1/2017	107,996						107,996	On schedule
M-20	2014 / Toro 4010-D Groundsmaster WAM	5	6/1/2019			116,696				116,696	On schedule
M-21	2014 / Toro 5910 Groundsmaster WAM	5	6/1/2019			88,560				88,560	On schedule
M-23	2014 / Toro 360 4WD Groundsmaster	5	6/1/2019			76,930				76,930	On schedule
F-23	2012 / Ford F550XL 2/3 Yd. Dump Body	8	6/1/2020				67,923			67,923	On schedule
M-22	2014 / Toro 4500-D Groundsmaster	6	6/1/2020				76,930			76,930	On schedule
Total Parks & Community Services Vehicles				343,180	-	282,186	144,853	-	-	770,219	

Police

Vehicle	Year / Description	Acct Life	Normal Replacement Date							Five Year Total Cost	Comments
				2017	2018	2019	2020	2021	2022		
P110	2011 / Ford F350 Corrections Van	5	6/1/2016		118,991					118,991	Extended 2 Years, Due to KJC
P06-99	2006 / Chevrolet 5C5 Special Response	10	6/1/2016				259,223			259,223	Extended 2 Years, Low Mileage
-	Existing Patrol Vehicle	3	-	below \$50K			51,629			51,629	Will Replace 2017 Model Year
-	Existing Patrol Vehicle	3	-	below \$50K			51,629			51,629	Will Replace 2017 Model Year
-	Existing Patrol Vehicle	3	-	below \$50K			51,629			51,629	Will Replace 2017 Model Year
-	Existing Patrol Vehicle	3	-	below \$50K			51,629			51,629	Will Replace 2017 Model Year
-	Existing Patrol Vehicle	3	-		below \$50K			53,436		53,436	Will Replace 2018 Model Year
-	Existing Patrol Vehicle	3	-		below \$50K			53,436		53,436	Will Replace 2018 Model Year
-	Existing Patrol Vehicle	3	-			below \$50K			55,306	55,306	Will Replace 2019 Model Year
-	Existing Patrol Vehicle	3	-			below \$50K			55,036	55,036	Will Replace 2019 Model Year
-	Existing Patrol Vehicle	3	-			below \$50K			55,036	55,036	Will Replace 2019 Model Year
-	Existing Patrol Vehicle	3	-			below \$50K			55,036	55,036	Will Replace 2019 Model Year
-	Existing Patrol Vehicle	3	-			below \$50K			55,306	55,306	Will Replace 2019 Model Year
-	Existing Patrol Vehicle	3	-			below \$50K			55,306	55,306	Will Replace 2019 Model Year
Total Police Vehicles				-	118,991	-	465,739	106,872	331,026	1,022,628	

Public Works

Vehicle	Year / Description	Acct Life	Normal Replacement Date							Five Year Total Cost	Comments
				2017	2018	2019	2020	2021	2022		
F-19	2008 / Ford Flat Bed F350 w/crane	8	6/1/2016		73,028					73,028	Extended 2 Years, Good Condition
U-08	2006 / International Bucket Truck	10	6/1/2016		231,933					231,933	Extended 2 Years, Good Condition
V-03	2006 / International Aquatech Educator	10	6/1/2016		413,366					413,366	Extended 2 Years, Good Condition
V-04	2006 / International Aquatech Educator	10	6/1/2016		413,366					413,366	Extended 2 Years, Good Condition
S-06	2011 / Ford Tymco Sweeper	7	6/1/2018		236,769					236,769	On schedule
S-07	2011 / Ford Tymco Sweeper	7	6/1/2018		236,769					236,769	On schedule
S-08	2011 / Ford Tymco Sweeper	7	6/1/2018		236,769					236,769	On schedule
TR-11	2008 / Case Backhoe 580SM (4x4)	10	6/1/2018		130,365					130,365	On schedule
L-02	2007 / Case 621D Loader	10	6/1/2017			148,851				148,851	Extended 2 Years, Good Condition
D-01	2006 / International Dumptruck 5 Yd.	12	6/1/2019			169,389				169,389	Extended 1 Year, Good Condition
D-02	2006 / International Dumptruck 5 Yd.	12	6/1/2019			169,389				169,389	Extended 1 Year, Good Condition
D-03	2006 / International Dumptruck 5 Yd.	12	6/1/2019			169,389				169,389	Extended 1 Year, Good Condition
TR-12	2009 / Case Backhoe SuperM (4x2)	10	6/1/2019			119,400				119,400	On schedule
D-09	2008 / Peterbilt Dump Truck 10 Yard	12	6/1/2020				250,433			250,433	On schedule
M-14	2010 / John Deere Tiger Roadside Mower	7	6/1/2017				136,588			136,588	On schedule
M-14	2010 / J. Deere/Tyger Roadside Mower	10	6/1/2020				136,588			136,588	On schedule
F-21	2011 / Ford F550 2/3 Yard Dump Body	10	6/1/2021					102,796		102,796	On schedule
F-22	2011 / Ford F550 2/3 Yard Dump Body	10	6/1/2021					102,796		102,796	On schedule
R-04	2011 / Hamm Vibratory Roller	10	6/1/2021					53,451		53,451	On schedule
TH-01	2006 / Caterpillar 314C LCR Excavator	15	6/1/2021					160,568		160,568	On schedule
TH-02	2011 / Bobcat E50 Excavator w/Attach.	10	6/1/2021					101,573		101,573	On schedule
M-17	2012 / John Deere/Tyger Roadside Mower	10	6/1/2022						187,373	187,373	On schedule
PU-104	2012 / Ford 550XL Crew 4x2 Utility Body	10	6/1/2022						84,349	84,349	On schedule
V-05	2012 / Vactor Educator Truck	10	6/1/2022						555,825	555,825	On schedule
Total Public Works Vehicles				-	1,972,366	776,418	523,609	521,184	827,547	4,621,124	

Total All Vehicles				1,426,953	2,471,744	1,058,604	1,394,194	2,145,862	1,773,474	10,270,831	
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Appendix



Capital Improvement Program

Transportation Criteria



Kirkland's Transportation Capital Improvement Program

Introduction

Kirkland's transportation policies, embodied in the Comprehensive Plan via the Transportation Master Plan (TMP), seek to improve current transportation conditions and, more importantly, to foresee and address future transportation needs for generations to come. Kirkland's policy makers, the City's Transportation Commission, and the technical staff all recognize that, as the region continues to grow and develop, traffic congestion cannot be addressed by simply adding more lanes for automobile traffic. Adding automobile traffic capacity is not only impractical from a cost standpoint; it is also contrary to many of the values held by our City, such as environmental sustainability and natural beauty, walkable communities, and vibrant neighborhoods. Thus, the TMP shifts past focus from automobile capacity to a more comprehensive, multi-modal approach to the City's transportation system.

The City's Capital Improvement Program (CIP) provides a means for transforming the TMP vision into a reality. In concert with the TMP, today's CIP places greater emphasis on transit, bicycling, and walking networks. Dealing with motorized vehicle congestion is also addressed by improving traffic flow with the City's Intelligent Transportation System (ITS) project, along with more efficient traffic channelization and signalization where feasible. Creating new and enhancing existing motorized and non-motorized networks, completing missing network links, and making non-auto transportation more convenient to commuters will all serve to reduce traffic congestion and enhance our community.

Together with active participation in regional transit planning efforts, a CIP that aligns with the vision and policies in the TMP, coupled with the land use plan in the Comprehensive Plan can, over time, transform the transportation experience in Kirkland. The challenge, of course, is adhering to long-term policy goals, while also addressing the very real priorities of today. The City has many programs and forums where staff, commissioners, policymakers, and citizens identify today's immediate transportation concerns and challenges, and suggest potential near-term solutions. Sources of input include, for example, the following processes and programs:

- The City's Neighborhood Safety Program,
- The School Walk Route Program,
- The Walkable Kirkland Initiative, which expands the School Walk Route and Neighborhood Safety Program for 6 years,
- Neighborhood Plans,
- Cross Kirkland Corridor (CKC) Connections,
- Connections to new developments (with particular emphasis on major developments along the CKC, such as Totem Lake, Park Place, South Kirkland Park and Ride, Houghton Shopping Center, and Google),
- Kirkland's Suggest-A-Project Program,
- Grant Funding availability for specific project types,
- Planning efforts of Sound Transit and King County Metro.

To balance today's project "inputs" with long-range policies, the TMP contains a 20-year project list that reflects the goals and policies in the TMP, while also considering the multiple current sources of project suggestions. The 20-year list is divided into the major policy areas in the TMP: maintenance, safety, walking, biking, public transportation, and motorized transportation. Based on past data, funding over the next 20 years is expected to be a total of approximately \$250 million for capital needs. The appropriate allocation of this \$250 million across project categories is the essence of creating the 20 year project list, made up of CIP projects and programs, and applicable maintenance program areas.

Staff's approach for preparing the 20 year project list was as follows:

1. By policy, recognize a 20 year street maintenance budget of approximately \$85 million of street levy and other committed funds.

2. Establish project categories within each mode (Walk, Bike, Transit, Auto) based on TMP policies.
3. For each project category, develop a pool of potential projects. This is a larger set of projects in a given category based on the multiple existing project sources.
4. For each project category, develop a recommended set of projects. For most project categories, this is based on a combination of a) projects that will meet the goals and policies in the draft plan, b) fiscal balance across project types c) projects that have been previously developed and d) staff's judgment of a sensible level of completeness for a project category. Priority is given to projects that meet multiple policy objectives, and/or that are identified from multiple sources.
5. Perform an analysis similar to 2 and 3 above for other maintenance needs over the next 20 years.

The 20-year list serves as a main source of future CIP projects and individual projects are prioritized within groups based on the criteria in the TMP Goals and Policies. A specific 6-year CIP Plan, and/or any specific biennial CIP budget, will further refine the 20-year list by again balancing current inputs with long-range policy. The current 6-year and 2-year CIP project lists were created as follows:

- Re-examining the assumptions in the 20-year plan with regard to specific projects identified for the next six years. As in the case with the 20-year plan, projects that meet multiple "input" objectives, or that complete critical transportation network links, are considered high priority.
- Allocating committed projects (such as School Walk Routes, or projects that have received grant funding) to the appropriate 20-year project category, as set forth in the TMP.
- Adding and/or prioritizing projects that received grant funding. Grant funding deadlines often push projects up in the CIP schedule.
- Applying a "reality check" to project timing and phasing. For example, although a project might be a high priority from a TMP policy perspective, it is possible that extensive permitting requirements push construction back a year or two in the CIP Plan.
- Review by the Finance Department of the project list and assumptions regarding revenue, and providing direction on budget and revenue assumptions.
- Balancing of the budget for the requested project list with projected funding sources. Again, similar to the permitting and grant funding considerations, revenue projections from various sources can influence the timing of projects.
- The Transportation Commission reviews and provides input to the proposed 6-year CIP and 2-year appropriation. (Although not part of the current CIP process, the Planning Commission has expressed interest in receiving briefings on future preliminary 6-year CIP Plans to have an opportunity for questions and comments.)
- Input and adjustment by the City Manager to the proposed 6-year CIP and 2-year appropriation.
- Refinement by the City Council of the proposed 6-year CIP and 2-year appropriation prior to final adoption.

Many of the above steps are iterative, and some steps are revisited as the process moves forward. An enhanced project prioritization process will be developed by staff, in partnership with the Transportation Commission, for review and consideration by the City Council. This more refined prioritization process will be used in the next CIP cycle and can be adjusted over time to reflect future conditions.

In addition to the linkages between the TMP, the CIP, and other project inputs, Public Works staff are endeavoring to improve the communication flow with various "input" groups to make sure that individuals or groups that provide input on suggested projects are aware of the outcome of their recommendations. Below is a brief description of efforts underway:

- **Suggest-A-Project:** A team of Public Works and IT staff has been working to improve the Suggest-A-Project database and interactive map. The dropdown categories selected by the “suggester” now align with the TMP transportation mode (Walk, Bike, Transit, Auto) for easy alignment with the TMP priorities. Improvements will also include a tracking procedure to document and publicize the status of each suggestion. Better integration with the City’s GIS will also help staff to prioritize Suggest-A-Project recommendations and evaluate trends. Staff are looking into options for automated replies and updates to “suggesters.” Although the initial focus of this effort is the Suggest-A-Project interactive map, it is hoped that this project communication tool can be improved for a more streamlined connection to the School Walk Route Program, Neighborhood Safety Program, neighborhood plans, and the Capital Improvement Program as well.
- **Neighborhood Plans:** The directors of Planning and Public Works will work with staff to make sure that TMP goals and policies are communicated at the front end of neighborhood planning efforts. Public Works staff will be engaged throughout future efforts to provide technical input into various concepts, and a mechanism for status updates to interested parties will be integrated into the Suggest-A-Project interactive map and database. As mentioned above, Neighborhood Plan suggestions will continue to be factored into future CIP project lists, and will be prioritized to the extent that they align with TMP policies, and to the extent funding is available.

In summary, significant efforts are underway to align our CIP and applicable maintenance work with the goals and policies in the TMP. Communicating policies, project status, and accomplishments will help stakeholders and policymakers understand how the many pieces of the transportation puzzle fit together, and will assure stakeholders that their interests and ideas are considered in the City’s Capital Improvement Program.



Surface Water Project Criteria



Kirkland's Surface Water Capital Improvement Program

Introduction

Kirkland's surface water policies, embodied in the Comprehensive Plan as well as in the Surface Water Master Plan, seek to achieve appropriate management of surface water in the City of Kirkland. The plan has multiple goals, all of which improve the quality of life for Kirkland citizens. The Surface Water Master Plan improves safety, reduces risk to public and private property, and enhances our natural environment. Improved safety is achieved by reduced flooding. Properly sizing and maintaining the City's stormwater conveyance system keeps water from ponding on the streets and sidewalks, creating safer conditions for motorists, bicyclists, and pedestrians. Reduced flooding also means a reduction in the risk of damage to property and business operations. The Plan also benefits groundwater management, which can contribute to reduced risk of landslides. Improved water quality and fish passage in the City's waterways, ponds, and lakes provides for enhanced recreation opportunities, including fishing, swimming, and enjoying the beauties of nature in our City. Improved water quality reduces risk to citizens that come into contact with water in our streams and lakes, and keeps the city in compliance with State and Federal requirements. Management of the urban forest insures that Kirkland will remain a green and livable community for many years to come.

This section from the master plan describes alternatives for implementing capital projects. Costs associated with the recommended projects were modeled against the current revenue forecast to determine whether the existing Surface Water Utility rates could support the recommendations in this Plan or whether a rate increase is necessary. Based on the financial analysis and prioritization of the projects based on need and timing, projects were "packaged" into alternatives so that decision makers could choose the package that best represents the goals, vision, and obligations of the City while maintaining surface water rates at a reasonable level for the community.

City accounting policy states that capital funding should at least equal the annual depreciation amount for surface water infrastructure, which is \$2.1 million for 2017, and is either spent through the CIP or placed in reserves. In addition to replacing surface water infrastructure, capital projects also serve to efficiently solve flooding, water quality, and habitat problems and are a vital component of the overall Utility program.

In determining the types of capital projects for prioritization, the following policy statements are recommended:

Flood Mitigation

Prioritize flood mitigation projects first before other types of capital projects. This is essential for the protection of public safety and infrastructure.

Address each of the following categories of projects in terms of scheduling, but provide a greater proportion of funding toward infrastructure per citizen input:

Water Quality

Prioritize stormwater retrofits based on opportunity to coordinate with transportation projects, and conduct watershed planning to prepare for stormwater retrofit grant opportunities.

Habitat

Commit to progress of fish passage barrier removal and plan for flow and water quality retrofits to prepare for grant opportunities.

Infrastructure

Construct projects that coordinate with the pavement overlay program; use information from closed circuit camera television (CCTV) inspection of system to prioritize repair and replacement.

Acquisition

Review riparian and wetland properties in the city to identify opportunities for acquisition. Create an opportunity fund within the CIP to be ready for acquisition opportunities as they arise.

In addition to the decision-making criteria described above, other considerations factor into which capital projects get constructed first or the schedule for implementation, such as coordination with other projects and availability of funding within a given year. Capital projects engineering staff manage the design and construction of these projects, in addition to other citywide capital engineering projects. Only a limited number of projects can be effectively constructed each year, particularly when surface water projects must compete for staff resources along with transportation and parks projects. Additionally, the cost of some projects is so large that their implementation would require use of the entire surface water capital budget for several years.

Criteria for ranking individual projects (Appendix M) are used as one piece of information for fitting projects into the above policy framework. Criteria for individual projects are perhaps most useful for deciding whether the project should be addressed at all, based on the cost and benefit. The priorities above, as well as the need to coordinate with other City projects and efforts, were used to prioritize projects for construction.

Capital projects recommended for inclusion in the CIP were ranked based on facility, environmental, fiscal, and community considerations. Ranking gives an indication of how serious the problem is and whether it should be addressed at all within a given priority. Rankings are combined with the overall criteria above and with coordination needs when developing an implementation schedule. A copy of the stormwater project criteria and numeric scoring system is included in Appendix M.

The recommended projects represent the following:

Projects identified in the newly annexed areas

Priorities for fish barrier removal

New projects identified in Kirkland (areas prior to 2011 annexation)

Projects that have been carried forward from past plans (i.e., already in the 2015–20 Surface Water CIP but have yet to be started)

Table 7-1 lists the recommended capital projects from highest to lowest priority based on cumulative scores for the four criteria; facilities, environment, fiscal, and community considerations.

ID	Project	Primary goal	Preliminary cost	Other considerations for priority and scheduling	Total score
FO-02	Regional detention in Forbes Creek basin	Flooding	\$10,000,000	Consider bonding because of high project cost relative to annual Surface Water Utility capital budget	55
DE-01	Sediment removal in channel	Flooding	\$136,000	Addresses flooding problem	53
JC-07	Goat Hill stabilize eroding channel	Flooding	\$299,000	Addresses flooding problem	44
JC-08	Goat Hill increase pipe conveyance capacity	Flooding	\$490,000	Addresses flooding problem	40
RED-01	Underground injection control well (infiltration facility)	Flooding	\$65,000	Addresses flooding problem	40
JC-06	Goat Hill route flow away from open channel	Flooding	\$521,000	Addresses flooding problem	37
JC-04	Flow diversion	Flooding	\$266,000	Addresses flooding problem	30
CH-03	Rain garden and bioretention retrofit	Water quality	\$85,000	Strong FHNA support for LID/rain gardens	51
FO-07	Channel grade control	Water quality	\$165,000	Construct <u>after</u> flows are better controlled by FO-02	49
CA-1	Erosion control measures	Water quality	\$550,000	City vault in Lake Washington Boulevard and private vault/pond at Carillon point fill up with sediment from this area	46
FO-13	Pilot LID water quality project associated with planned transportation project	Water quality	\$65,000		42
JC-01	Sediment removal	Water quality	\$194,000		42
EC-01	Ravine stabilization	Water quality	\$830,000	Combine with project EC-02	41
CDE-01	Culvert replacement to improve fish passage	Habitat	\$615,000	Build in coordination with Juanita Drive improvements	63
FO-08	Forbes Creek/ BNSF Fish Passage Improvements	Habitat	\$424,000	Coordinate with CKC trail construction	59

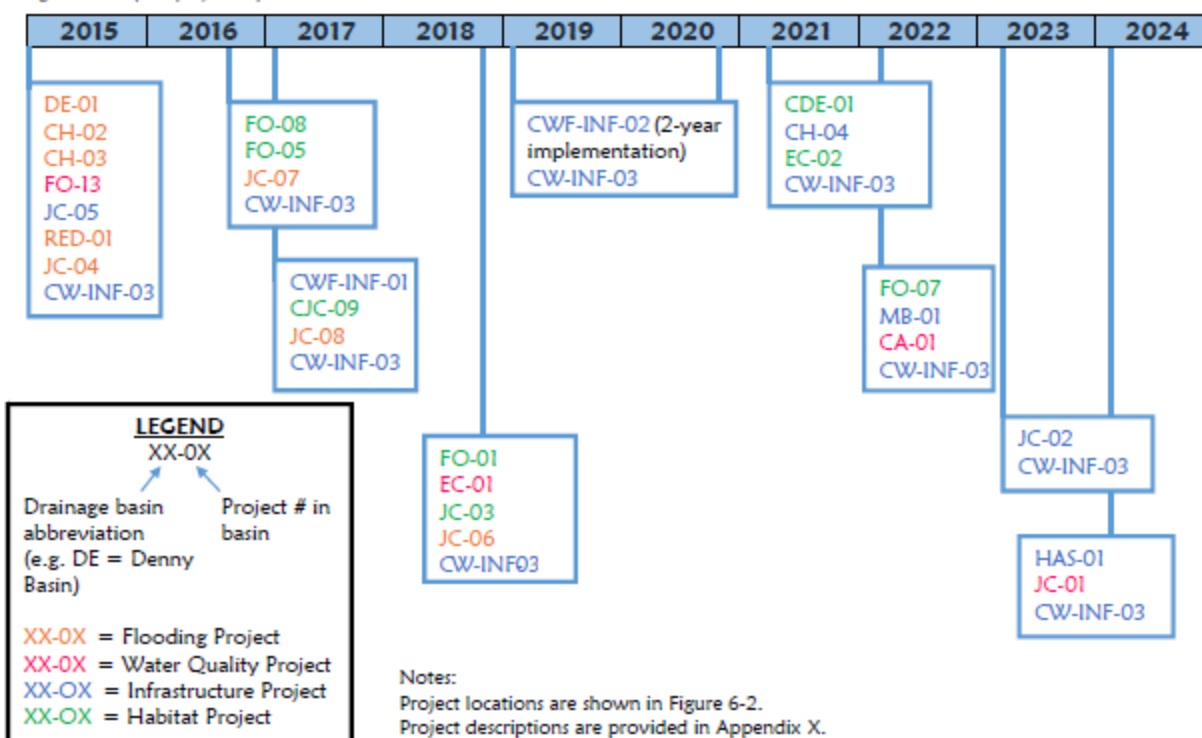
ID	Project	Primary goal	Preliminary cost	Other considerations for priority and scheduling	Total score
CH-02	Channel reconstruction	Habitat	\$690,000	In Juanita Woodlands Park: strong community support	53
FO-05	Culvert replacement	Habitat	\$1,058,000	May be opportunities for joint funding with King County	43
EC-02	Everest Park channel and riparian restoration	Habitat	\$1,096,000	Do following or at same time as EC-01 ravine stabilization	42
FO-01	Fish passage	Habitat	\$333,000		42
CJC-9	Culvert replacement to improve fish passage	Habitat	\$613,000		37
JC-03	Juanita Creek floodplain creation	Habitat	\$533,000		31
CH-04	Groundwater seepage and road stability	Infrastructure	\$126,000	Construct as part of Juanita Drive improvements: ice causes safety issue in winter	46
CH-01	Undersized pipe to be replaced	Infrastructure	\$219,000	Private property floods, system inaccessible for maintenance	43
CW-INF-02	Pipe repair and replacement	Infrastructure	\$3,025,000		43
CW-INF-01	Pipe repair and replacement	Infrastructure	\$769,000		40
JC-05	NE 141st Street/111th Avenue NE culvert replacement	Infrastructure	\$765,000		40
MB-01	Replace stormwater pipes	Infrastructure	\$680,000	Should be done in conjunction with road projects	35
HAS-01	Pipe replacement, improved hydraulics	Infrastructure	\$2,369,000	Monitor maintenance fix to evaluate whether project is needed	30
JC-02	Infrastructure/conveyance	Infrastructure	\$874,000		29
Total cost			\$27,855,000		

The projects listed in Table 7-1 represent a reasonable mix of projects that could be accomplished over the next 10 years.

The exception to this is the regional detention project in the Forbes Creek basin (FO-02/SD-0046), which was carried forward from the 2005 Plan and is estimated to be \$10 million based on a recent flood study conducted in the vicinity of 116th Avenue NE. This project would both solve a flooding problem at the NE 116th Street/I-405 interchange, and improve habitat conditions in downstream reaches of Forbes Creek. While important, the scale of this project is so much larger than others identified that it has been set to the side. The City Council may wish to study longer-term and more dispersed alternatives such as installation of rain gardens in the upstream watershed to meet the same goal.

An implementation schedule for projects listed in Table 7-1 is shown in Figure 7-1.

Figure 7-1 Capital project implementation schedule



Appendix M

Prioritization and Ranking Criteria and Prioritization Spreadsheet

STORMWATER PROJECT CRITERIA

Supporting Kirkland Comprehensive Plan Goals:

Goal NE-6: “Protect life and property from the damages of floods and erosion.”

Goal NE-5: “Preserve and enhance the water quality of streams and lakes in Greater Kirkland.”

Goal U-4: “Provide storm water management facilities that preserve and enhance the water quality of streams, lakes, and wetlands and protect life and property from floods and erosion.”

Goal CF-1: “Contribute to the quality of life in Kirkland through the planned provision of public capital facilities and utilities.”

Goal CF-5: “Provide needed public facilities that are within the ability of the City to fund or within the City’s authority to require others to provide.”

The Endangered Species Act:

Chinook salmon has been listed as a Threatened species under the Endangered Species Act (ESA). In the near future, the National Marine Fisheries Service, which enforces ESA, will be issuing a rule defining actions that municipalities and private property owners must take to protect Chinook salmon. Depending on the content of the rule, CIP criteria may need to be refined to further address fish habitat concerns.

The Tri-County Assembly (officials from King Pierce and Snohomish Counties that have gathered to respond to the ESA listing) has recommended the following approach for management and preservation of salmon habitat:

- 1. First, do no harm: Reduce and prevent harm by abandoning, modifying, or mitigating existing programs, projects, and activities.*
- 2. Conservation: Protect key watersheds, landscapes, and habitats by acquisition, regulation or voluntary action.*
- 3. Remediation: Restore, rehabilitate and enhance damaged habitats to complement conservation actions.*
- 4. Research: Fill critical gaps in scientific and institutional information.*

STORMWATER PROJECT CRITERIA

Initial Project Screening:

Does the project conflict with any specific policy provision of the Comprehensive Plan?

Yes: Project eliminated from consideration, list goal _____

No: Project ranked using following criteria

PROJECT VALUES

- **FACILITIES:**

Flooding Frequency	5	
Flooding Impact	10	
Condition Assessment	10	
Accessibility	5	
Subtotal		30

- **ENVIRONMENTAL:**

Water Quality	10	
Fish Habitat	10	
Other Benefits	10	
Subtotal		30

- **FISCAL:**

Coordination/Opportunity funding	10	
Cost/Benefit Index	5	
Maintenance Needs	10	
Subtotal		25

- **Public Support and Plan Consistency:**

Public Support/Opposition	5	
Plan Consistency	10	
Subtotal		15

TOTAL: 100

FACILITIES

- _____ (5) 1. What is the current flooding frequency?
- None or not applicable
0
Low - once every 5-10 years (>100 year event)
1
Medium - once every 2 years (>25-100 year event) 3
High - 3-4 times per year (> 10 year event) 5
- _____ (10) 2. What is the current flooding impact in terms of injury, private property or public infrastructure?
- None 0
Minimal (minor road ponding, flooding of landscaping, other inconveniences)
3
Moderate (impact to crawl spaces, extended road flooding) 6
Extreme (large area impacted with personal injury or heavy property damage) 10
- _____ (10) 3. What are the conditions of the existing facility? **Chose either constructed facility OR natural environment.**
- Constructed Facility
No constructed system involved
0
Existing infrastructure (pipes, manholes, catch basins, retaining walls) are in excellent state
3 Infrastructure is in fair condition, minor defects have been observed 5
Infrastructure is in disrepair; needs constant maintenance to insure ongoing usage. Structural failure. 10
- Natural Environment
No natural system involved 0
Minor degradation (bank erosion, downcutting, sediment deposition, etc.) 3
5
Moderate threat of bank undercutting
Extreme degradation (structures threatened, undermining of banks, severe downcutting) 10
- _____ (5) 4. How accessible is the existing facility for maintenance crews?
- Satisfactory access; personnel and equipment may access from existing public road or right of way or N/A
0
Marginal access (set-up time greater than one hour) 1

Limited access (inspection only)	3
No access possible for maintenance or inspection	5

(30 max)

ENVIRONMENTAL

- | | | | |
|-----------|-----|---|---------|
| ____ (10) | 1. | What is the proposed project's ability to improve existing water quality or protect/improve natural hydrology? | |
| | | N/A | 0 |
| | | Low (minimal improvement, degradation may continue) | |
| | | 3 | |
| | | Medium (maintains beneficial use, slight improvement) | |
| | | 6 | |
| | | High (significant improvement) | |
| | | 10 | |
| ____ (10) | 2. | How will the proposed project impact fish habitat restoration/preservation or potential fish productivity in terms of habitat, stream connectivity or stream/lake characteristics? Does the project comply with the intent of the Endangered Species Act listing of Chinook salmon as a threatened species? | |
| | | N/A (Not a fish habitat project) | 0 |
| | | Small Improvement | 3 |
| | | Moderate improvement | 5 |
| | | Significant improvement or Protects Existing | 10 |
| ____ (10) | 4.. | To what degree does the proposed project provide other benefits including education, recreation, open space, wildlife habitat and community livability? | |
| | | Does not include any other benefits | 0 |
| | | Conflicts with one of the above existing community amenities | minus 5 |
| | | Includes other benefits but of lesser value to the community, including at least one of the benefits listed above | 5 |
| | | Includes benefits of substantial value to the community including at least two of the above | 10 |

(30 max)

M-5

FISCAL

_____ (10) 1. What is the possibility for coordination/opportunity funding with other projects? Would it be possible to add fish habitat features to this project?

N/A - No link to other projects, non-City funds are not available to perform improvement	0
Low development activity or potential to integrate with other projects, outside funds not probable	
3	
Links indirectly with other programs or projects; moderate chance of leveraging other funding	
6	
Link directly with other project(s) or programs, compounding their effectiveness or certain to leverage substantial amounts (percentage-wise) of other funding habitat will be lost if project not done soon	10

_____ (5) 2. Is the cost/benefit index low or high for this project?
Ranking from all except this X 100 = Cost Benefit Index
 Cost of Project

N/A (grant funding)	0
0-10	1
10-20	3
> 20	5

_____ (10) 3. How will the conceptual design of the project affect existing maintenance needs?

Greater than existing	0
Same as existing	5
Less than existing	10

_____ (25 max)

Public Support and Plan Consistency

- _____ (5) 1. Have citizens within the area effected by the project expressed interest and acceptance of the project?
- | | |
|---------------------------------|---|
| Public has expressed opposition | 0 |
| Public reaction is mixed | 1 |
| Moderate public support | 3 |
| Strong public support | 5 |
-
- _____ (10) 2. Is the project identified by the 20 year project list in the Capital Facilities Element of Kirkland's Comprehensive Plan, or the Stormwater Master Plan?
- | | |
|--|----|
| Project is not in either plan | 0 |
| Project is identified as priority ** in the Surface Water Master Plan | 5 |
| Project is in the Comprehensive Plan, and is listed as priority ** in the Surface Water Master Plan, or is part of the City's ESA response | 10 |
- _____ (15 max)

SUMMARY

FACILITIES	_____ (30)
ENVIRONMENTAL	_____ (30)
FISCAL	_____ (25)
PUBLIC INVOLVEMENT	_____ (15)
TOTAL PROJECT POINTS	===== (100)

ID	Project	Preliminary Cost	Criteria												Total Score	Primary Goal Served	Comments
			Facilities				Environment			Fiscal			Public Support and Plan Consistency				
			Flood frequency	Flood impact	Condition Assessment	Accessibility	Water quality	Fish Habitat	Other Benefits	Coordination/Opportunity funding	Cost/Benefit Index	Maintenance Needs	Public Support/Opposition	Plan Consistency			
CA-1	Erosion control measures	\$550	1	3	5	3	6	3	5	3	1	10	1	5	46	Water Quality	City vault in Lk WA Blvd and private vault/pond at Carillon point fill up with sediment from this area
CDE-01	Culvert replacement to improve fish passage	\$615	0	0	5	1	6	5	10	10	1	10	5	10	63	Habitat	Build in coordination with Juanita Drive improvements

ID	Project	Preliminary Cost	Criteria												Total Score	Primary Goal Served	Comments
													Public Support and Plan Consistency				
			Facilities				Environment			Fiscal							
			Flood frequency	Flood impact	Condition Assessment	Accessibility	Water quality	Fish Habitat	Other Benefits	Coordination/Opportunity funding	Cost/Benefit Index	Maintenance Needs	Public Support/Opposition	Plan Consistency			
CH-01	Undersized pipe to be replaced	\$219	3	6	10	3	0	0	0	0	3	10	3	5	43	Infrastructure	private property floods, system inaccessible for maintenance
CH-02	Channel reconstruction	\$690	0	0	10	3	6	10	5	3	1	5	5	5	53	Habitat	In Juanita Woodlands Park - strong community support
CH-03	Rain garden and bioretention retrofit	\$85	0	0	10	3	10	5	5	3	5	0	5	5	51	Water Quality	Strong FHNA support for LID/rain gardens

ID	Project	Preliminary Cost	Criteria												Total Score	Primary Goal Served	Comments
													Public Support and Plan Consistency				
			Facilities				Environment			Fiscal							
			Flood frequency	Flood impact	Condition Assessment	Accessibility	Water quality	Fish Habitat	Other Benefits	Coordination/Opportunity funding	Cost/Benefit Index	Maintenance Needs	Public Support/Opposition	Plan Consistency			
CH-04	Groundwater seepage and road stability	\$126	5	3	5	0	0	0	0	10	5	10	3	5	46	Infrastructure	Construct as part of Juanita Drive improvements - ice causes safety issue in winter
CJC-9	Culvert replacement to improve fish passage	\$613	0	0	3	3	0	10	5	0	1	5	5	5	37	Habitat	
CW-INF-01	Pipe repair and replacement	\$769	1	0	10	0	0	0	0	10	1	10	3	5	40	Infrastructure	Consider combining with green infrastructure retrofits to increase priority?

ID	Project	Preliminary Cost	Criteria												Total Score	Primary Goal Served	Comments
													Public Support and Plan Consistency				
			Facilities	Environment			Fiscal			Public Support and Plan Consistency							
			Flood frequency	Flood impact	Condition Assessment	Accessibility	Water quality	Fish Habitat	Other Benefits	Coordination/Opportunity funding	Cost/Benefit Index	Maintenance Needs	Public Support/Opposition	Plan Consistency			
CW-INF-02	Pipe repair and replacement	\$3,025	1	3	10	0	0	0	0	10	1	10	3	5	43	Infrastructure	
DE-01	Sediment removal in channel	\$136	5	6	10	1	3	0	5	0	5	10	3	5	53	Flooding	
EC-01	Everest Creek Ravine Stabilization	\$830															
EC-02	Everest Park Channel and riparian restoration	\$1,096	0	0	5	1	6	3	5	3	1	10	3	5	42	Habitat	Do following or at same time as EC-01 Ravine stabilization

ID	Project	Preliminary Cost	Criteria												Total Score	Primary Goal Served	Comments
													Public Support and Plan Consistency				
			Flood frequency	Flood impact	Condition Assessment	Accessibility	Water quality	Fish Habitat	Other Benefits	Coordination/Opportunity funding	Cost/Benefit Index	Maintenance Needs	Public Support/Opposition	Plan Consistency			
FO-08	Forbes Creek/BNSF Fish Passage Improvements	\$424	0	0	10	0	3	10	10	10	3	5	3	5	59	Habitat	Coordinate with CKC trail construction
FO-01	Fish passage	\$333	3	3	3	0	3	5	5	6	1	5	3	5	42	Habitat	
FO-02	Regional detention in Forbes Creek basin	\$10,000	1	6	5	0	6	3	5	10	1	5	3	10	55	Flooding	
FO-05	Culvert Replacement	\$1,058	0	0	10	3	3	10	0	3	1	5	3	5	43	Habitat	KC Wastewater should pay for some or all of this project

ID	Project	Preliminary Cost	Criteria											Total Score	Primary Goal Served	Comments	
													Public Support and Plan Consistency				
			Facilities				Environment			Fiscal			Public Support/Opposition				Plan Consistency
			Flood frequency	Flood impact	Condition Assessment	Accessibility	Water quality	Fish Habitat	Other Benefits	Coordination/Opportunity funding	Cost/Benefit Index	Maintenance Needs	Public Support/Opposition	Plan Consistency			
FO-07	Channel grade control	\$165	0	0	5	1	6	10	5	6	3	5	3	5	49	Water Quality	Construct AFTER flows are better controlled by FO-02
FO-13	Pilot LID project associated with planned transportation project	\$65	0	0	10	1	6	0	5	0	5	5	5	5	42	Water Quality	
HAS-01	Pipe replacement, improved hydraulics	\$2,369	3	3	5	0	0	0	0	0	1	10	3	5	30	Infrastructure	
JC-01	Sediment removal	\$194	3	6	5	3	6	0	0	0	3	10	1	5	42	Water Quality	

ID	Project	Preliminary Cost	Criteria												Total Score	Primary Goal Served	Comments
													Public Support and Plan Consistency				
			Facilities				Environment			Fiscal							
			Flood frequency	Flood impact	Condition Assessment	Accessibility	Water quality	Fish Habitat	Other Benefits	Coordination/Opportunity funding	Cost/Benefit Index	Maintenance Needs	Public Support/Opposition	Plan Consistency			
JC-02	Infrastructure/conveyance	\$874	0	0	10	0	0	0	0	0	1	10	3	5	29	Infrastructure	
JC-03	Juanita Creek floodplain creation	\$533	0	0	3	0	6	3	5	0	1	5	3	5	31	Habitat	
JC-04	Flow diversion	\$266	3	3	3	1	0	0	0	6	1	5	3	5	30	Flooding	
JC-05	Replace culvert and headwall	\$765	0	0	10	0	6	5	0	0	1	10	3	5	40	Infrastructure	
JC-06	Goat Hill Project 1 - SE flooding problem	\$521	3	3	5	1	6	0	0	0	1	10	3	5	37	Flooding	

ID	Project	Preliminary Cost	Criteria												Total Score	Primary Goal Served	Comments
													Public Support and Plan Consistency				
			Facilities				Environment			Fiscal							
			Flood frequency	Flood impact	Condition Assessment	Accessibility	Water quality	Fish Habitat	Other Benefits	Coordination/Opportunity funding	Cost/Benefit Index	Maintenance Needs	Public Support/Opposition	Plan Consistency			
JC-07	Goat Hill Project 2 - stabilize eroding channel	\$299	1	3	10	3	6	0	0	0	3	10	3	5	44	Flooding	
JC-08	Goat Hill Project 3 - increase conveyance capacity	\$490	1	3	10	0	3	0	0	0	5	10	3	5	40	Flooding	
MB-01	Replace stormwater pipes	\$680	0	0	10	0	0	0	0	6	1	10	3	5	35	Infrastructure	
RED-01	Underground Injection Control Well (infiltration facility)	\$65	5	6	5	1	0	0	0	0	5	10	3	5	40	Flooding	



Parks Project Criteria



CRITERIA FOR RANKING PARKS CIP PROJECTS

	Criteria	None 0 Points	Low 1 Point	Moderate 2 Points	High 3 Points
1	Responds to an Urgent Need or Opportunity, Conforms to Legal, Contractual or Government Mandate	<ul style="list-style-type: none"> No need or urgency 	<ul style="list-style-type: none"> Suspected need with no substantiation 	<ul style="list-style-type: none"> Suspected need based upon visual inspection, public comment Suspected threat of development 	<ul style="list-style-type: none"> Report or other documentation has been prepared Confirmed threat of development Fills important gap in park system Significant public comment—survey, petition, public hearing Legal, contractual, gov't mandate
2	Health and Safety Issues	<ul style="list-style-type: none"> No known issues 	<ul style="list-style-type: none"> Suspected health or safety issue with no substantiation 	<ul style="list-style-type: none"> Suspected need based upon visual inspection, or public comment visible deterioration 	<ul style="list-style-type: none"> Documented evidence of unsanitary condition, health and safety code violations, injury
3	Fiscal Values	<ul style="list-style-type: none"> Leveraging of funds through partnerships, grants, bonds or volunteers is unlikely 	<ul style="list-style-type: none"> Leveraging of funds somewhat likely through partnerships, grants, bonds and volunteers 	<ul style="list-style-type: none"> Leveraging of at <u>least</u> 1/2 project funding available from other sources; 	<ul style="list-style-type: none"> Leveraging of <u>more</u> than 50 percent of project costs from other sources
4	Conforms to Park Open Space Plan or Other Adopted Plan	<ul style="list-style-type: none"> Not in any plan document 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Identified in Comprehensive or Functional plan 	<ul style="list-style-type: none"> Helps meet level of service objectives
5	Feasibility, including Public Support and Project Readiness	<ul style="list-style-type: none"> Project simply an idea No public input No other supporting information 	<ul style="list-style-type: none"> Some public involvement such as letters, workshops Professional report 	<ul style="list-style-type: none"> Schematic or conceptual level approval Property identified High public support Completed appraisal 	<ul style="list-style-type: none"> Construction documents complete Option or right of first refusal, willing seller
6	Implications of Deferring Project	<ul style="list-style-type: none"> No impact No imminent threat of development; 	<ul style="list-style-type: none"> Temporary repair measures available without significant liability or added future cost Indications of possible development Program quality limited or reduced 	<ul style="list-style-type: none"> Evidence of possible structural failure Confirmed private development sale possible Program participation limited or reduced 	<ul style="list-style-type: none"> Imminent possible structural failure, facility closure, or other similar factor Program cancellation Unable to meet level of service Imminent sale for private development

7	Benefits to Other New Capital Projects or an existing Park/Facility/Service, or Service Delivery	<ul style="list-style-type: none"> No association with or impacts to other projects 	<ul style="list-style-type: none"> Minimal benefit to existing or other projects 	<ul style="list-style-type: none"> Moderate benefit such as relieving overuse at another facility Corrects minor problem at adjacent facility 	<ul style="list-style-type: none"> Significant benefit such as providing added capacity to a facility Corrects major problem at adjoining facility
8	Number of City Residents Served	<ul style="list-style-type: none"> No residents served 	<ul style="list-style-type: none"> Only one neighborhood served 	<ul style="list-style-type: none"> More than one City neighborhood served 	<ul style="list-style-type: none"> Project will serve a City-wide population
9	Maintenance and Operations Impact	<ul style="list-style-type: none"> Requires substantial new M & O, no current budgetary commitment 	<ul style="list-style-type: none"> Resources/capacity available without additional budget commitment Requires new resources which are available or likely available in budget 	<ul style="list-style-type: none"> Has minimal or no impact on existing M & O resources Resources already allocated or planned for project in budget M & O requirements absorbed with existing resources 	<ul style="list-style-type: none"> Substantial reduction in M&O.
10	Geographic Distribution	<ul style="list-style-type: none"> Duplicates service, significant number of resources available in area, level of service overlap 	<ul style="list-style-type: none"> Adequate number of Parks are nearby, minimal level of service overlap 	<ul style="list-style-type: none"> Parks nearby, no level of service overlap, and gaps in service identified 	<ul style="list-style-type: none"> Underserved area. No facilities within service area.