

RESOLUTION NO. 17-1180

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, KING COUNTY WASHINGTON, ADOPTING A CAPITAL IMPROVEMENT PLAN FOR THE YEARS 2017-2022

**WHEREAS**, the City of Black Diamond is required by State law and Chapter 3.60 of the Black Diamond Municipal Code to prepare and adopt a multi-year plan that contains the City's future Capital Improvement Projects and the recommended methods of funding those projects; and

**WHEREAS**, the City's Capital Improvements Plan has been updated to address the current capital facilities needs and priorities of the City for the years 2017-2022; and

**WHEREAS**, the City Council has reviewed the 2017-2022 Capital Improvement Plan at their August 25, 2016, September 8, 2016, March 9, 2017, and April 13, 2017 Workstudy meetings; and

**WHEREAS**, the annual update is also annual supplemental information to the Capital Element portion of Black Diamond's Comp Plan for Transportation, Water, Sewer, Stormwater and other Capital Elements; and

**WHEREAS**, the City Council of the City of Black Diamond held a public hearing on the proposed 2017-2022 Capital Improvement Plan on September 15, 2016; and

**WHEREAS**, the Growth Management Committee Chair provided a list of amendments for Council Consideration on April 20, 2017 but a vote was improperly called prior to the amendments being considered;

**NOW, THEREFORE THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND HEREBY RESOLVES AS FOLLOWS:**

**Section 1.** The City Council adopts the 2017 - 2022 Capital Improvements Plan with amendments to each project as shown in the recommendations in Exhibit A, "CIP Amendments April 20". The 2017-2022 CIP is incorporated as Exhibit B.

**Section 2.** The City shall amend the document in Exhibit B as directed by Exhibit A and provide to the Council and the public online a final version of the CIP with the changes.

ADOPTED by the City Council at an open meeting on the 3<sup>rd</sup> day of August, 2017.

*Incomplete - CB*  
\_\_\_\_\_  
Carol Benson, Mayor.

Attest

\_\_\_\_\_  
Brenda L. Martinez, City Clerk

## City of Black Diamond 2017-2022 Capital Improvement Plan

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These recommendations are all supported by our existing polices and city code as well as for improvements to public safety and our natural areas. The existing policy documents that informed these recommendations include:

- City of Black Diamond Comprehensive Plan, 2009.
- 2008 City of Black Diamond Best Available Science Review, Summary, and Recommendations for Code Update - *Parametrix*
- City Of Black Diamond Storm And Surface Water Plan (Resolution 2010-704)

## ***CIP T2 Roberts Drive ~~Rehabilitation~~ City Hall to Bruckners***

### ***CIP T2.1 Rock Creek Bridge Replacement***

The proposal for this project is to revise it to two projects consistent with the TIP:

#### Changes Recommended:

- ST2 should be renamed to **Roberts Drive City Hall to Bruckners**.
  - The cost estimate for T2 should be adjusted as needed.
- Add a project, for now called T-2.1 Rock Creek Bridge Replacement.
  - Add to the year 2018 an estimated amount needed to conduct a study with deliverables of a cost estimate and initial design for replacing the bridge.
  - Replacement plans need to be consistent with **Black Diamond Municipal Code 19.10.328** Water bodies—Culvert replacement. “A. Culverts on public or private roads that are a barrier to fish movement shall be replaced at the time of major reconstruction, or if additional subdivision increases the number of lots served by the roadway by twenty percent or more. Replacement structures shall meet the standards of [subsection] 19.10.330(C)(10). This provision does not limit potential requirements for replacement under other statutes or treaty rights.”
  - Replacement plans need to also take into account Safety requirements, and the comments and concerns of the Washington Department of Fish and Wildlife and the Muckleshoot Tribe.
  - 2018 should also include fully exploring funding and grant options, including grants and funding for additional design work for 2019. Regarding Grants: Explore Salmon Mitigation grant funding - Project “W4” in the proposed CIP shows an estimate of \$540,000 from a grant for Salmon Mitigation. Based on the Tribe and WDFW comments, Rock Creek may be a worthy place to ask for this kind of grant.
  - In the year 2019, it is expected that design and funding work should continue to refine.
  - Target replacement of the bridge for the year 2020.

#### **Information from Supporting Documents:**

##### **November 21, 2012- *Rock Creek Bridge Evaluation* - Parametrix**

Page 4: “Given a bridge of this age, it is difficult to estimate the remaining life of the structure without a more comprehensive evaluation. ... Assuming the piles are in good condition, it is estimated that the bridge should have a remaining service life of 20 years under normal traffic loading. However, periodic inspections are recommended to detect any signs of deterioration or distress.”

### Rock Creek Bridge Cost Estimate Summary

#### BACK OF THE ENVELOPE PERMITTING COSTS

|                        |                             |
|------------------------|-----------------------------|
| Repairs/Rehabilitation |                             |
| SEPA Checklist         | \$2,600*                    |
| Sensitive Areas Report | \$10,000*                   |
| JARPA                  | \$7,000                     |
| Agency Coordination    | \$3,000                     |
| <b>Total</b>           | <b>\$10,000 to \$22,600</b> |
| (*if necessary)        |                             |

|   |                 |
|---|-----------------|
| Replacement                                       |                 |
| SEPA Checklist                                    | \$2,600         |
| Sensitive Areas Report, including Mitigation Plan | \$20,000        |
| JARPA   | \$7,000         |
| BA  | \$12,000        |
| Cultural Resources Report                         | \$6,000         |
| Agency Coordination                               | \$10,000        |
| <b>Total</b>                                      | <b>\$57,600</b> |

City of Black Diamond  
Rock Creek Bridge Evaluation

7

| Alternative             | Base Estimate | Rehabilitation Estimate* | Environmental/Permitting** | Estimate Total |
|-------------------------|---------------|--------------------------|----------------------------|----------------|
| Rehabilitation          | \$ 54,300.00  | NA                       | \$ 22,600.00               | \$ 76,900.00   |
| Attached Ped Walkway    | \$ 53,700.00  | \$ 54,300.00             | \$ 22,600.00               | \$ 130,600.00  |
| Independent Ped Walkway | \$ 74,800.00  | \$ 54,300.00             | \$ 22,600.00               | \$ 151,700.00  |
| Replacement             | \$ 435,000.00 | NA                       | \$ 57,600.00               | \$ 492,600.00  |

\* Assumes bridge rehabilitation is included with pedestrian walkway alternatives

\*\* Assumes upper range environmental/permitting costs for non-replacement alternatives

#### Black Diamond Municipal Code – 19.10.335 Habitat other than fish and wildlife habitat conservation areas.

##### 19.10.335 (C)

Wildlife corridors. Corridors providing for migration to and from areas outside the urban growth area are provided in the core stream and wetland complex. Specific standards include:

...

Corridor Requirements and Management Measures

- All new bridges shall provide for animal passage including height sufficient for large mammals and width sufficient for a minimum 15 foot corridor adjacent to OHWM on at least one side.

...

**Existing Rock Creek/Roberts Road bridge should be replaced** to meet the same bridge standards when programmed as part of capital improvement program.

#### October 11, 2016 RE: SEPA Mitigated Determination of Non-Significance (MDNS) for Roberts Drive Reconstruction, PLN16-0040 - Muckleshoot Tribe

This letter recommends replacement of the bridge to a 30-foot span to meet standards for fish passage. From the letter (emphasis added):

“This constriction is likely to accelerate water velocities during high flows, restricting juvenile access into streams and wetlands upstream. **In addition to a being a fish passage impediment, this bridge appears to be substandard and likely has reached the end of its useful life.** It should be replaced because of the extensive amount of structural work, utility access, and long-term infrastructure fortification needs due to future developments. Additionally, the City is adding a new water main line along Roberts Drive, which will include retrofitting of pipes into the bridge infrastructure.<sup>2</sup> Once in place, these water mains could make a future bridge replacement project more difficult or costly; therefore, **replacing the bridge with a larger structure will better serve the infrastructure needs of the community as well as salmon passage into the future.** Further, the City has an approved HPA (2016-4-347) to remove beaver dams at this site where

**the narrow bridge provided an attractant to beaver activity.** Beavers are important to salmon production (Pollock et al. 2003) and their activity should not be limited by inadequate infrastructure design. This site will continue to be utilized by beaver so long as the bridge constriction remains, thus require further beaver dam removals and other actions that may further degrade salmon habitat. **A correctly sized bridge will reduce the attractant for beaver damming; minimize related maintenance needs; and has better potential to be compatible with important ecological processes for salmon habitat.”**

#### **TAT, Peter Rimbo and other concerns over Rock Creek Bridge**

The citizen group TAT has advocated bridge replacement.

From TAT:

The proposed repair “fails to recognize the Rock Creek Bridge (RCW) portion of the proposed project is to be conducted in the City’s designated core wetland and Fish and Wildlife Habitat Conservation Area (FWHCA), which is also part of the King County designated Wildlife Habitat Network (KCWHN).”

And: ‘Structural Life

The Parametrix personnel have stated the bridge can carry “all Legal Load vehicles” for probably “20 years under normal traffic loading” and that “normal load conditions ... include traffic expected to be generated by nearby development, including the proposed Villages Phase 1A Preliminary Plat.’

Unfortunately, there will be voluminous construction traffic for Phase 1A and beyond, as well as general traffic generated by development beyond Phase 1A. Further, whether it's 20, 15, 10 years or whatever, the bridge could need replacement before the MPDs are completed and fully occupied. Ability to carry certain AASHTO loads is a necessary, but not sufficient capability, since bridge life, in general, is often governed by repeated loadings over a long period of time that contributes to fatigue-induced damage and fracture/microfracture of structural components.’

### **T23 - NEW Hwy 169 Pedestrian Safety**

This is a proposed new project. Pedestrians cannot safely travel along highway 169/3<sup>rd</sup> Ave from Roberts Dr to the school / ball fields or the sidewalk on 3rd Ave that begins at James St. There is a blind corner, and almost no shoulder on either side. Consider an alternative trail or widening of part of Highway 169 to include a sidewalk. People do walk in this area, and would walk more if it were safer. It is a key part of getting from the area with the Community Center to the Elementary School, police station, and historic downtown.

Possible Funding Sources include WashDOT and their "Pedestrian and Bike program" and "Safe Routes to Schools" programs.

### **T7 - Roberts Drive/SR 169 Intersection Improvements**

Recommendation: Modify project to require pedestrian safety and fish passage/stream improvements.

This intersection currently has no sidewalk and pedestrians must cross Roberts Drive at the triangle park. The area near the Community Center and traveling toward the Elementary School and historic downtown should be served by good pedestrian infrastructure because these are important community destinations that serve children and people whether they have a car in working condition or not.

There is a blocking culvert under the road here identified as "Mud Lake Culvert" that should be replaced.

City Of Black Diamond Storm And Surface Water Plan (Resolution 2010-704), Page 91:

#### **6.0 CAPITAL IMPROVEMENT PLAN**

**Table 6.06 3<sup>rd</sup> Ave – Mud Lake Ck Culvert Replacement**

|   |   |
|---|---|
| <b>PROJECT ID #5</b>  |   |
| <b>3<sup>RD</sup> AVE (SR-169) – MUD LAKE CREEK CULVERT REPLACEMENT</b> |   |
| <b>Description:</b>   | This project includes removal, replacement and associated roadway restoration of the existing 24-inch and 48-inch culverts crossing under 3 <sup>rd</sup> Ave (SR-169) at the intersection of Black Diamond-Ravensdale Road and 3 <sup>rd</sup> Ave. This culvert system includes a two side by side 24-inch culverts, one corrugated metal and one concrete, crossing under 3 <sup>rd</sup> Ave and discharging to a landscaped intersection island (a small open basin) in the intersection. Each culvert is approximately 75-feet in length. From there flows are conveyed to a 48-inch corrugated metal culvert, 60-feet in length, flowing to the pond north of Roberts Drive. This system conveys Mud Lake Creek flows across 3 <sup>rd</sup> Ave. Wildlife and fish passage for Mud Lake Creek will be considered in the design of this project. This project may be a City and/or State funded project. |
| <b>Location:</b>  | Intersection of Black Diamond / Ravensdale Road and 3 <sup>rd</sup> Ave (SR-169)  |
| <b>Sub-Basin:</b>   | GL-1  |
| <b>Receiving Water:</b>   | Ginder Creek / Jones Lake   |
| <b>Priority:</b>  | Low   |
| <b>Estimated Cost:</b>  | \$145,000   |

### ***T17 - Ravensdale / 169 interim intersection improvements***

Recommended Updates: There are serious pedestrian safety issues at this intersection. Design the project in such a way that pedestrians can safely cross highway 169 at this intersection and future pedestrian improvements headed east on the Black Diamond Ravensdale road are considered. There is a Metro bus stop at this location that could be used to access the community center, but no pedestrian crosswalk.

Additionally, the fish blocking culvert here is over 250 feet long and needs to be replaced at the time of this project.

#### **City of Black Diamond Comprehensive Plan, 2009.**

Comp Plan Pdf Page 198, Policy T-8:

- “1. Develop design standards for new roadways that incorporate features required by pedestrian, bicycle and transit facilities;
2. Promote transit by developing design standards that provide accessibility through bus pullouts, pedestrian access to bus stops and bus shelters;”

Comp Plan Pdf Page 68:

“Rock Creek. A small portion of the planning area drains to Black Diamond Lake and the wetlands surrounding it. The Black Diamond Lake wetlands serve as partial headwaters of Rock Creek. Rock Creek is listed as supporting coho salmon, cutthroat trout, and steelhead in the WRIA 9 Fish Distribution Map.

Ginder Creek. The northeast portion of the planning area drains to Ginder Creek, which drains into Rock Creek. Ginder Creek historically provided good habitat for salmonid spawning and rearing. The WRIA 9 Fish Distribution Map (2000) shows Cutthroat trout presence in Ginder Creek. Based on a 1982 sampling, Ginder Lake supports warm water fish including black crappie, largemouth bass, and pumpkinseed. An obstruction limits the passage of adult salmonids upstream as far as Ginder Lake. Electroshocking done during the 1982 survey **indicated that Ginder Creek, above State Route (SR) 169 may be able to support other species of fish if passage barriers were removed. The survey generally indicated that Ginder Creek is a relatively productive tributary (John Henry Mine, SEIS)."**

**6.0 CAPITAL IMPROVEMENT PLAN**

**Table 6.05 3<sup>rd</sup> Ave – Ginder Ck Culvert Replacement**

|   |   |
|---|---|
| <b>PROJECT ID #4</b>  |   |
| <b>3<sup>RD</sup> AVE (SR-169) – GINDER CREEK CULVERT REPLACEMENT</b> |   |
| <b>Description:</b>   | This project includes removal, replacement and associated roadway restoration of the existing 36-inch culvert crossing under 3 <sup>rd</sup> Ave (SR-169) at the intersection of Black Diamond-Ravensdale Road and 3 <sup>rd</sup> Ave. This culvert system includes a 36-inch concrete culvert connecting to an existing concrete box culvert buried under 3 <sup>rd</sup> Ave (SR-169). Connected to the box culvert is an additional stretch of 36-inch concrete culvert pipe which discharges upstream of the pond north of Roberts Drive. The total length of this culvert system is approximately 250-feet. This system conveys Ginder Creek flows across 3 <sup>rd</sup> Ave. Wildlife and fish passage for Ginder Creek will be considered in the design of this project. This project may be a City and/or State funded project. |
| <b>Location:</b>  | Intersection of Black Diamond / Ravensdale Road and 3 <sup>rd</sup> Ave (SR-169)  |
| <b>Sub-Basin:</b>   | GL-1  |
| <b>Receiving Water:</b>   | Ginder Creek / Jones Lake   |
| <b>Priority:</b>  | Low / <b>High</b> if a street project requires replacement  |
| <b>Estimated Cost:</b>  | \$200,000   |



### ***T(25)24 NEW- BD-Ravensdale Rd Pedestrian Safety***

This is a proposed new project. Pedestrians cannot walk from the Morgan Creek development to the nearby North Commercial retail area and Community Center. Children have been seen walking and biking down this road.

A study should be made of options to allow safe pedestrian access. Innovative trail options should be considered. Look for collaboration with King County to improve safety on this dangerous stretch of road.

### ***W2 – Springs & Transmission Reconstruction***

This project has been on-going for several years. The Council should be provided updated work products from the consultants doing the project.

Recommendation: the new water source is a long way to pipe water to the city. The new source is also in an old coal mine shaft area. If we are retiring the existing “springs” water source there may be better alternatives. These should be considered with project W3.

### ***W3 – Water Comprehensive Plan Update***

This project is for \$30,000 for the Water Comprehensive Plan update. The city spent \$70,000 on this per a resolution from February of 2015. Council member Morgan asked for the results of that study and it was not provided. We can't spend another \$30,000 without seeing the results of the first study.

We need to update the Water Comprehensive Plan, but first we need to see what we got for \$70,000 already spent. This was also a project of concern listed by Councilmember Morgan in her feedback email after the last work study.

Recommendation: The study be provided to the Council prior to approval of any CIP with project “W3” in it.

### ***D1 - Lawson Hills Storm Pond Sediment Removal***

The Lawson Hill Estates Development is not complete, and the developer still operates the HOA. The existing stormwater system for that development clearly has issues –the playground serves as the stormwater pond, and thus the playground is always underwater. Rather than go to the taxpayers, the developer should fund the needed improvements to properly control and maintain stormwater in Lawson Hill Estates.

Recommendation: Revise the funding source, city to negotiate with the developer.

*This issue was discussed at the December 12, 2016 Growth Management Committee meeting.*

### ***D3 - North Commercial and 169 Stormwater Improvement***

This project near Roberts Drive and Highway 169 affects the same area as Project T7 for the Roberts Roundabout, as well as Project T20 for the Ravensdale-169 intersection.

The North Commercial/169 Stormwater pipe requires getting a stormwater system from the 169 area to pipe water under Roberts Drive. A future road roundabout would mean more construction in the same area a couple years later.

It is a best practice for stormwater management to treat stormwater in the same drainage basin that it naturally drains to. We also have to consider the existing streams in this area. Ginder Creek and the creek from Mud Lake go under 169 near this project and the proposed road projects. There are fish passage improvements that need to be prioritized into these road projects.

Recommendation: This North Commercial & 169 Stormwater project should be revised to treat stormwater nearer the source. This is a real option given the proposed road changes coming to the area.

### ***P1 - Ginder Creek Trail and Site***

Recommendation: This project should be revised to maximize natural land conservation. Remove the parking lot, instead concentrate on extending sidewalks in the future to reach the trail site. The trail needs to be a raised boardwalk trail, or a soft-surface natural trail.

Minimize tree removal. Cottonwoods in a natural area do not pose a hazard, they are an important part of the ecosystem. Shade provided by cottonwoods on Ginder Creek is important for stream and salmon health.

As part of our commitment as a member of the Green River Watershed Resource Inventory Area (WRIA), we need to maintain shade on the streams. The Growth Management committee had a WRIA presentation recently, and we can share the slide deck to staff who can consult with the WRIA on improving this project to maintain shade and protect Ginder Creek.

City of Black Diamond, WA

# Capital Improvement Plan

## 2017 – 2022



October 6, 2016



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## City of Black Diamond's Capital Improvement Plan (CIP) 2017-2022

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## Overview of the Capital Improvement Plan

### What is the Capital Improvement Plan?

The Capital Improvement Plan (CIP) is a plan that lays out a six-year road map identifying present and future capital and infrastructure needs for the City. It is an investment in the future of our community.

Because the CIP is a plan rather than a budget, actual authorization for capital project spending for the upcoming year occurs when City Council adopts the Annual Budget in December.

Having the long range capital plan completed before the annual operating budget is developed helps management better incorporate both short and long term planning.

For each project there is an estimated start and completion date that has been projected by the city department in charge of the improvement. The CIP also defines the total cost of the project and the amount allocated to the project for each year of the plan.

Examples of projects in Black Diamond's six-year CIP include street rehabilitation, water projects, wastewater facilities, park improvements, a fire station and equipment, police capital facility needs, and general facility capital needs and improvement.

### How are projects in the Capital Improvement Plan paid for?

The CIP process involves balancing desired capital improvements that compete for scarce financial resources. Generally, funding for capital improvements is provided through grants, impact fees, public trust fund loans, Real Estate Excise Tax revenue (REET), capital reserves and developer funding.

Real estate excise taxes (REET) are collected from property sales within the city limits and are earmarked specifically for capital projects. However in order to spend that money, a jurisdiction must have the project identified in a Capital Improvement Plan. So not only is the CIP a great overall planning tool for the City, it is also required in order to access REET monies.

Additionally, historical documentation of need is usually required when applying for grants. This need is addressed with the adoption of the CIP.

## Types of Capital Projects

Capital projects are essential to the delivery of many of Black Diamond's core services. The capital projects in each major department are described below.

- Transportation The road system in Black Diamond is a vital infrastructure to city residents, visitors and commuters. This infrastructure includes roads, bridges, bike lanes and sidewalks. The responsibility for the funding and construction of capacity adding transportation projects is equitably shared with developers. In Black Diamond, the developer of the MPD's is the primary funder and implementer of the capacity adding project to meet the needs of the growing community. The city is seeking grants to address those locations where there is existing deficiencies which are City responsibility.
- Parks and Recreation There are regional and local parks in Black Diamond as well as bike and hiking trails, a skate park and a BMX Course. Outdoor enthusiasts choose to live in Black Diamond for the natural beauty of the surroundings and sporting opportunities. Park facility improvements are primarily financed by grants, real estate excise taxes and developer contributions.
- Utilities The City provides water, sewer and stormwater utility services to residents and businesses. Capital Facilities include water sources, facilities, Reservoir, water lines, sewer treatment facilities, transmission systems and storm water detention facilities and culverts. Developers contribute to these projects, as growth requires infrastructure expansion. Utility fund reserves, grants, loans and Real Estate Excise Taxes also provide funding for utility capital projects in Black Diamond.
- Public Safety Capital facilities and equipment are required to deliver core City services of Police and Fire. These facilities include the fire and police stations, vehicles and major equipment and technology. Funding for these capital projects largely comes from user fees, grants and some Real Estate Excise Taxes.
- General Capital The City is responsible for funding the construction and maintenance of general capital facilities such as city buildings, vehicles and technology. These costs are usually funded by bond issues, grants or Real Estate Excise Taxes.

## Level of Service

The number and type of capital facilities needed to serve Black Diamond is directly related to the level of public service provided. The level of service is established by City Council and the City's Comprehensive Plan.

### **Maintenance and Funding Constraints**

Once completed and placed in service, capital facilities must be maintained. Funding for the maintenance of capital projects for City Utilities are funded with user fees in the respective operating budgets. Maintenance funding for projects are funded through current operations, not the capital budget. For that reason the availability of funding for future maintenance must be considered when preparing the capital budget.

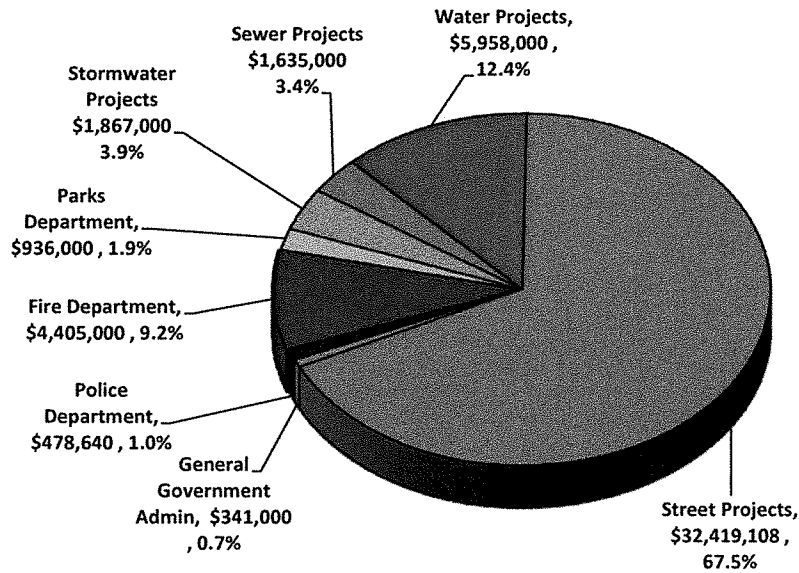
### **Development and Approval Process**

The Capital Improvement Plan is usually updated annually or every other year. Individual projects are submitted by department directors. They use a template provided by Finance staff. These requests include an update of current projects and projections on new projects and anticipated costs. Each project must have specific funding sources identified.

The Mayor, Finance Director and management meet to balance projects to available funding. Council workstudy sessions occur and a public hearing encourages public input. The proposed plan is then brought before Council for approval. This approved CIP then becomes an update and amendment to the capital facility portion of the City's Comprehensive Plan.

## All Departments Summary Capital Improvement Plan 2017 - 2022

|                                     | Total \$<br>Project<br>2017 - 2022 | 2017                | 2018                | 2019                | 2020                | 2021                | 2022                |
|-------------------------------------|------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Street Projects                     | 32,419,108                         | 7,528,108           | 3,851,000           | 3,810,000           | 6,660,000           | 9,100,000           | 1,470,000           |
| Water Projects                      | 5,958,000                          | 530,000             | 2,514,000           | 371,000             | 623,000             | 870,000             | 1,050,000           |
| Sewer Projects                      | 1,635,000                          | 160,000             | 367,000             | 82,000              | 422,000             | 92,000              | 512,000             |
| Stormwater Projects                 | 1,867,000                          | 57,000              | 1,500,000           | 40,000              | 50,000              | -                   | 220,000             |
| Parks Department                    | 936,000                            | 37,500              | 124,500             | 45,000              | 91,000              | 343,000             | 295,000             |
| Fire Department                     | 4,405,000                          | -                   | 365,000             | -                   | 825,000             | 125,000             | 3,090,000           |
| Police Department                   | 478,640                            | 184,320             | 34,320              | 145,000             | 25,000              | 25,000              | 65,000              |
| General Government                  | 341,000                            | 92,000              | 50,000              | 80,000              | 30,000              | 59,000              | 30,000              |
| <b>TOTAL Projected Expenditures</b> | <b>\$48,039,748</b>                | <b>\$ 8,588,928</b> | <b>\$ 8,805,820</b> | <b>\$ 4,573,000</b> | <b>\$ 8,726,000</b> | <b>\$10,614,000</b> | <b>\$ 6,732,000</b> |





**Street Department**

**T1**

**General Street Improvement**

**13.10**

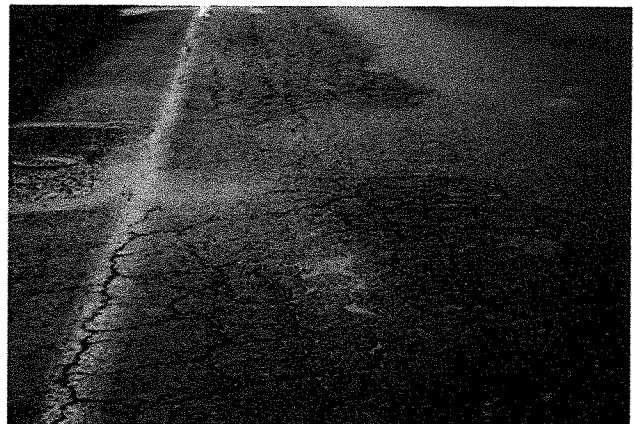
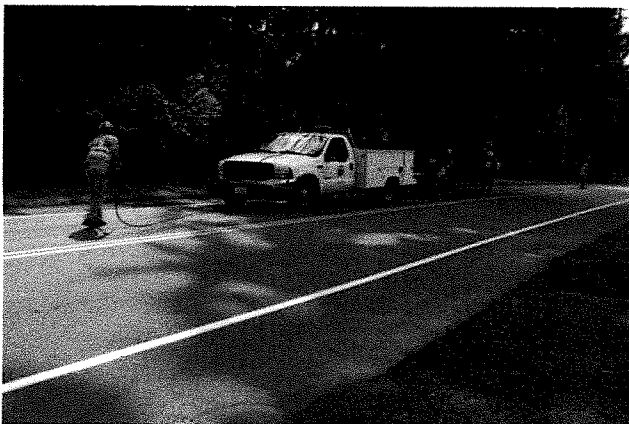
**DESCRIPTION**

**Light Street Maintenance.** Annually the Public Works staff assesses the street system and selects key street preservation and improvement work. Typical activities under this project are chip sealing, crack sealing, patch work and addressing minor safety problems.

**BACKGROUND**

This project provides annual funding for minor street improvements that typically do not require engineering.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 - 2022 | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
|--------------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Construction Costs       | 180,000                 | 30,000        | 30,000        | 30,000        | 30,000        | 30,000        | 30,000        |
| <b>TOTAL COSTS</b>       | <b>180,000</b>          | <b>30,000</b> | <b>30,000</b> | <b>30,000</b> | <b>30,000</b> | <b>30,000</b> | <b>30,000</b> |
| <b>REQUESTED FUNDING</b> |                         |               |               |               |               |               |               |
| Real Estate Excise Tax 2 | 180,000                 | 30,000        | 30,000        | 30,000        | 30,000        | 30,000        | 30,000        |
| <b>TOTAL SOURCES</b>     | <b>180,000</b>          | <b>30,000</b> | <b>30,000</b> | <b>30,000</b> | <b>30,000</b> | <b>30,000</b> | <b>30,000</b> |



**Street Department**

**T2**

**Roberts Drive Improvements**

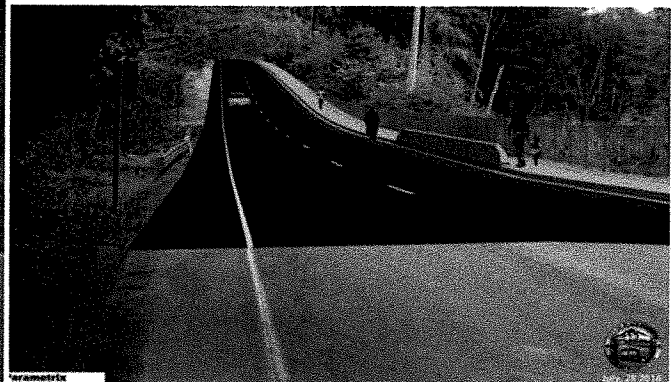
**DESCRIPTION**

**Street Reconstruction.** This project combines the Roberts Drive Bridge project and half of the Roberts Drive Roadway Rehab into a more complete roadway reconstruction with sidewalks on the south side, pavement overlay, bridge rehabilitation, stormwater improvements and street lights from 100 feet west of the Rock Creek Bridge to City Hall.

**BACKGROUND**

The City was successful in obtaining a Road Reconstruction Grant which was combined with a previous grant for one bigger project. The project was on hold to resolve utility and environmental issues but now looks on schedule to be under construction in the summer of 2017.

| CAPITAL PROJECT COSTS       | Total \$<br>2017 -2022 | 2017             | 2018 | 2019 | 2020 | 2021 | 2022 |
|-----------------------------|------------------------|------------------|------|------|------|------|------|
| Construction Engineering    | 20,000                 | 20,000           |      |      |      |      |      |
| Management & Administration | 97,187                 | 97,187           |      |      |      |      |      |
| Construction Costs          | 1,040,921              | 1,040,921        |      |      |      |      |      |
| <b>TOTAL COSTS</b>          | <b>1,158,108</b>       | <b>1,158,108</b> |      |      |      |      |      |
| <b>REQUESTED FUNDING</b>    |                        |                  |      |      |      |      |      |
| Grants TIB                  | 1,079,867              | 1,079,867        |      |      |      |      |      |
| Developer Mitigation        | 52,250                 | 52,250           |      |      |      |      |      |
| Street Funds (REET 2)       | 20,226                 | 20,226           |      |      |      |      |      |
| Grant Match                 | 5,765                  | 5,765            |      |      |      |      |      |
| <b>TOTAL SOURCES</b>        | <b>1,158,108</b>       | <b>1,158,108</b> |      |      |      |      |      |



**Street Department**

**T3**

**New Arterial "Annexation Road"**

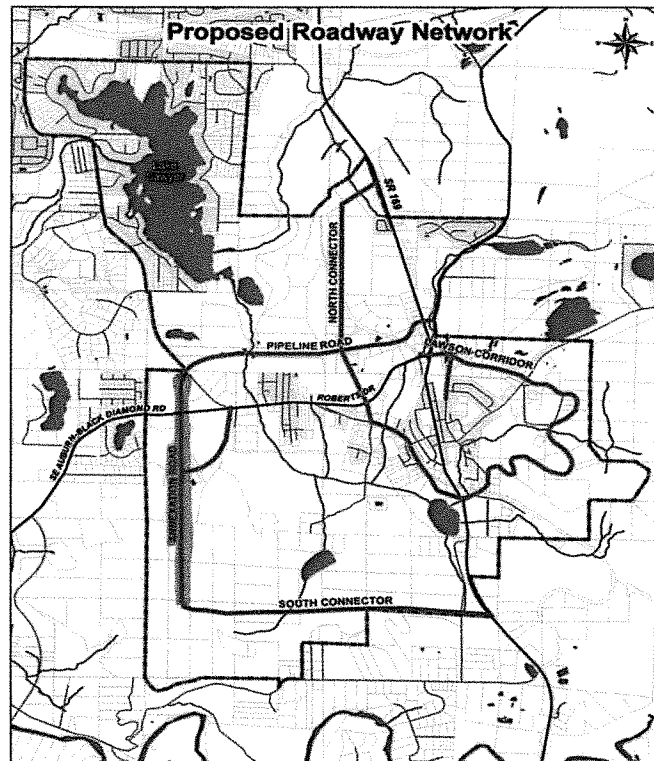
**DESCRIPTION**

**Capacity Adding Project.** This project provides a link from the initial phases of the Villages development to the City street network and a future link to the "pipeline" road.

**BACKGROUND**

This project is in keeping with the City's approved Future Street Network according to the City's comprehensive plan. This project is planned to be designed and constructed by the developer.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017             | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------|------------------------|------------------|------|------|------|------|------|
| Design Engineering       | 500,000                | 500,000          |      |      |      |      |      |
| Construction Costs       | 2,400,000              | 2,400,000        |      |      |      |      |      |
| <b>TOTAL COSTS</b>       | <b>2,900,000</b>       | <b>2,900,000</b> |      |      |      |      |      |
| <b>REQUESTED FUNDING</b> |                        |                  |      |      |      |      |      |
| Developer Funded         | 2,900,000              | 2,900,000        |      |      |      |      |      |
| <b>TOTAL SOURCES</b>     | <b>2,900,000</b>       | <b>2,900,000</b> |      |      |      |      |      |



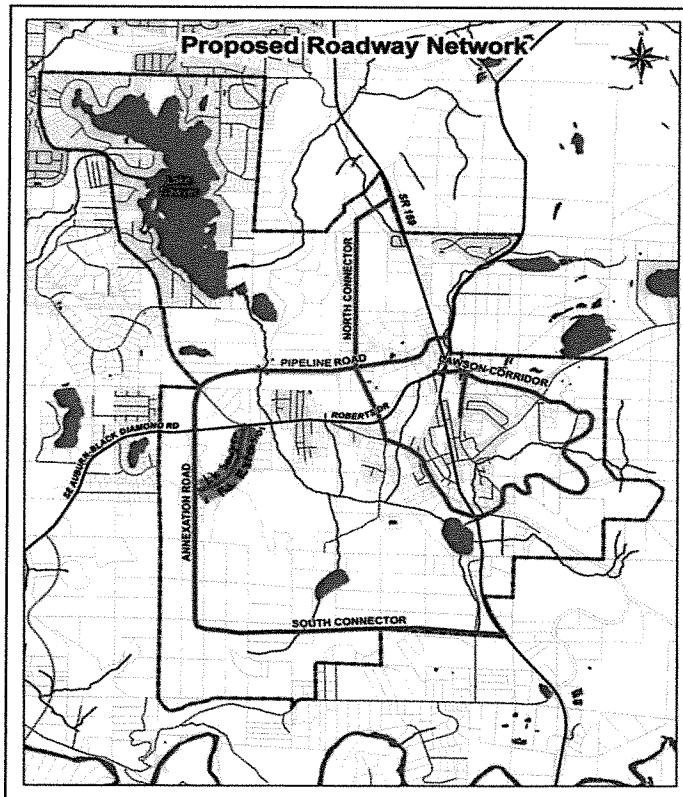
**Street Department** **T4**

**Lake Sawyer Road Extension**

**DESCRIPTION** Capacity Adding Project. This project provides a link from the initial phases of the Villages development to the City street network.

**BACKGROUND** This project is in keeping with the City's approved Future Street Network according to the City's comprehensive plan. This project is planned to be designed and constructed by the developer.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017             | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------|------------------------|------------------|------|------|------|------|------|
| Design Engineering       | 300,000                | 300,000          |      |      |      |      |      |
| Construction Costs       | 1,500,000              | 1,500,000        |      |      |      |      |      |
| <b>TOTAL COSTS</b>       | <b>1,800,000</b>       | <b>9,000,000</b> |      |      |      |      |      |
| <b>REQUESTED FUNDING</b> |                        |                  |      |      |      |      |      |
| Developer Funded         | 1,800,000              | 1,800,000        |      |      |      |      |      |
| <b>TOTAL SOURCES</b>     | <b>1,800,000</b>       | <b>1,800,000</b> |      |      |      |      |      |



**Street Department** **T5**

**224th Guardrail @ Cov Creek**

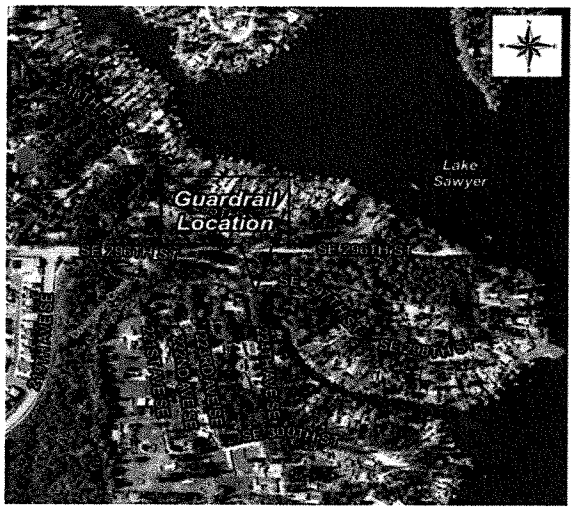
**DESCRIPTION**

**Safety Project.** This safety project is to install guard rail on both sides of the road at the Covington Creek culverts on 224th Ave SE. This project could be combined with the replacement of the stormwater Project Culvert Replacement at Covington Creek, D2.

**BACKGROUND**

Staff and the committee determined that guard rails at Covington Creek would provide a greater risk reduction for errant vehicles than the Abrams project was dropped and priorities shifted.

| CAPITAL PROJECT COSTS       | Total \$<br>2017 -2022 | 2017 | 2018          | 2019 | 2020 | 2021 | 2022 |
|-----------------------------|------------------------|------|---------------|------|------|------|------|
| Management & Administration | 2,500                  |      | 2,500         |      |      |      |      |
| Construction Costs          | 22,500                 |      | 22,500        |      |      |      |      |
| <b>TOTAL COSTS</b>          | <b>125,000</b>         |      | <b>25,000</b> |      |      |      |      |
| <b>REQUESTED FUNDING</b>    |                        |      |               |      |      |      |      |
| Real Estate Excise Tax 2    | 25,000                 |      | 25,000        |      |      |      |      |
| <b>TOTAL SOURCES</b>        | <b>25,000</b>          |      | <b>25,000</b> |      |      |      |      |



**Street Department** **T6**

**224th Ave SE Asphalt Overlay**

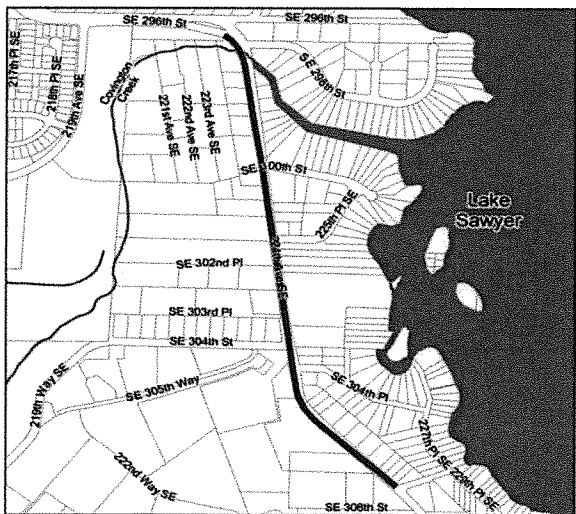
**DESCRIPTION**

**Major Street Maintenance.** Overlay 224th Ave SE from Covington Creek to 307th Place.

**BACKGROUND**

Public Works staff in cooperation with Maple Valley and Covington sealed the many cracks in 224th Ave SE in 2013 to preserve the integrity of the road until we could get a grant to overlay the street. The crack sealing has been effective in holding the street together and maintaining the pavement rating to stay in the TIB street preservation funding program.

| CAPITAL PROJECT COSTS       | Total \$<br>2017 -2022 | 2017           | 2018 | 2019 | 2020 | 2021 | 2022 |
|-----------------------------|------------------------|----------------|------|------|------|------|------|
| Design Engineering          | 10,000                 | 10,000         |      |      |      |      |      |
| Management & Administration | 20,000                 | 20,000         |      |      |      |      |      |
| Construction Costs          | 270,000                | 270,000        |      |      |      |      |      |
| <b>TOTAL COSTS</b>          | <b>300,000</b>         | <b>300,000</b> | -    | -    | -    | -    |      |
| <b>REQUESTED FUNDING</b>    |                        |                |      |      |      |      |      |
| Grants TIB                  | 255,000                | 255,000        |      |      |      |      |      |
| Grant Match                 | 45,000                 | 45,000         |      |      |      |      |      |
| <b>TOTAL SOURCES</b>        | <b>300,000</b>         | <b>300,000</b> | -    | -    | -    | -    | -    |



**Street Department** **T7**

**Roberts Roundabout** **13.02**

**DESCRIPTION**

**Capacity Adding Project.** This project is to change the intersection control from stop control to a roundabout or signal and accommodate a future road connection to the east for the Lawson Hills Master Planned Development.

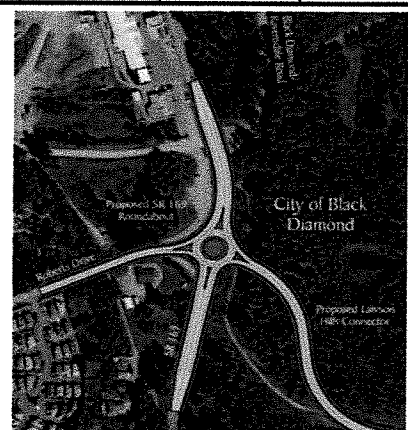
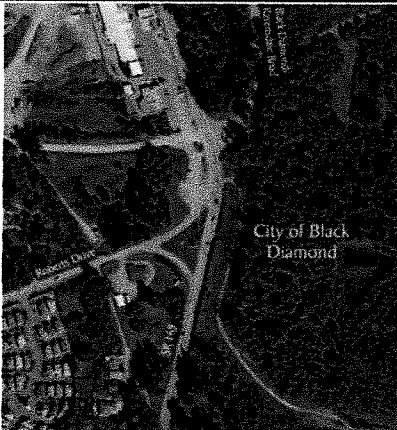
**BACKGROUND**

The existing intersection has a higher accident rate than the average along the corridor. Roberts Drive intersects SR 169 at an unconventional angle which makes it difficult for east bound motorists to turn left and west bound motorists on Ravensdale to turn left; This intersection has been identified as one of the first traffic mitigation projects that is required in the Master Planned Development FEIS. However this project will be accomplished in phases as the City grows. If the City were able to secure adequate funding soon then the City could move forward with a comprehensive ultimate traffic solution for the Roberts Drive and Ravensdale intersections.

**COMMENTS**

The developer's initial mitigation improvements for this intersection will be realignment and signal improvements. As traffic grows and the needs increase the chances of receiving grant funding will improve. Once the preliminary engineering is complete the City will be prepared to begin applying for grants.

| <b>CAPITAL PROJECT COSTS</b> | <b>Total \$<br/>2017 -2022</b> | <b>2017</b> | <b>2018</b>    | <b>2019</b>      | <b>2020</b>      | <b>2021</b> | <b>2022</b> |
|------------------------------|--------------------------------|-------------|----------------|------------------|------------------|-------------|-------------|
| Land/Right of Way            | 300,000                        |             |                | 300,000          |                  |             |             |
| Preliminary Engineering      | 200,000                        |             | 200,000        |                  |                  |             |             |
| Environ Engr & Permitting    | 300,000                        |             |                | 300,000          |                  |             |             |
| Construction Engineering     | 600,000                        |             |                |                  | 600,000          |             |             |
| Bid Documents                | 50,000                         |             |                | 50,000           |                  |             |             |
| Design Engineering           | 700,000                        |             |                | 700,000          |                  |             |             |
| Construction Costs           | 4,965,000                      |             |                | 350,000          | 4,615,000        |             |             |
| Environ Mitigation           | 300,000                        |             |                | 300,000          |                  |             |             |
| Management / Admin           | 355,000                        |             | 10,000         | 90,000           | 255,000          |             |             |
| <b>TOTAL COSTS</b>           | <b>7,770,000</b>               |             | <b>210,000</b> | <b>2,090,000</b> | <b>5,470,000</b> |             |             |
| <b>REQUESTED FUNDING</b>     |                                |             |                |                  |                  |             |             |
| Developer Funded             | 3,535,000                      |             | 210,000        | 1,060,000        | 2,265,000        |             |             |
| Grants                       | 4,235,000                      |             |                | 1,030,000        | 3,205,000        |             |             |
| <b>TOTAL SOURCES</b>         | <b>7,770,000</b>               |             | <b>210,000</b> | <b>2,090,000</b> | <b>5,470,000</b> |             |             |



**Street Department** **T8**

**Roberts Drive Rehabilitation Phase 2** **14.02**

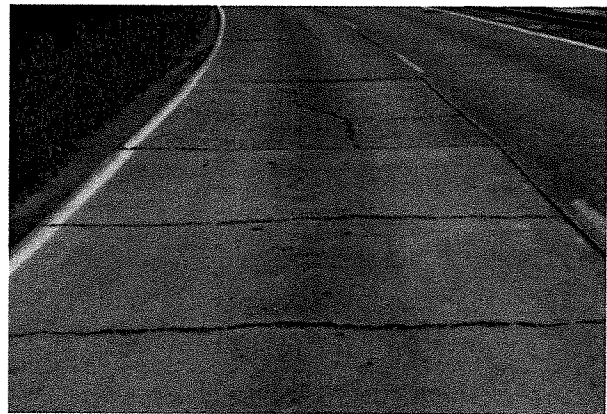
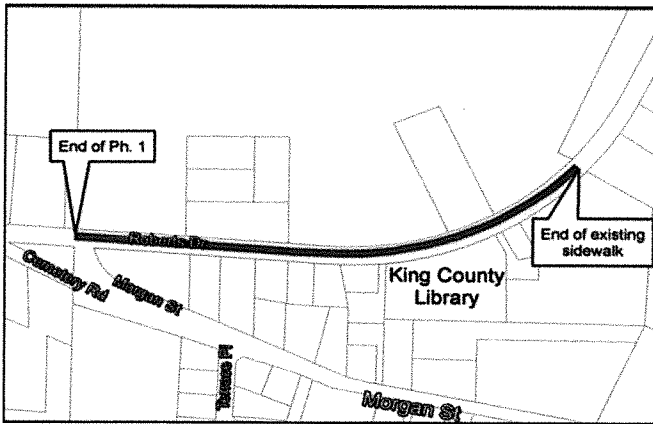
**DESCRIPTION** Major Street Maintenance from Morgan Street to the sidewalk end past the Library (1600 ft.). Patch and Replace concrete panels; Seal joints and cracks; Plane the concrete to a smooth surface; Widen shoulders.

**BACKGROUND** The concrete roadway is about 100 years old but needs repair work. This project is to repair and preserve the existing road.

**COMMENTS** This section of Roberts Drive is in fair condition with some bad spots. Sidewalks curb and street lights have already been installed on a pedestrian grant. Going further east from this project would make more sense to go after total reconstruction funding and upgrade to urban standards.

| CAPITAL PROJECT COSTS   | Total \$<br>2017 -2022 | 2017 | 2018           | 2019 | 2020 | 2021 | 2022 |
|-------------------------|------------------------|------|----------------|------|------|------|------|
| Design & Bid Docs       | 35,000                 |      | 35,000         |      |      |      |      |
| Management & Inspection | 15,000                 |      | 15,000         |      |      |      |      |
| Construction            | 120,000                |      | 120,000        |      |      |      |      |
| <b>TOTAL COSTS</b>      | <b>170,000</b>         |      | <b>170,000</b> |      |      |      |      |
| REQUESTED FUNDING       |                        |      |                |      |      |      |      |
| Grant Matching          | 25,500                 |      | 25,500         |      |      |      |      |
| Grants                  | 144,500                |      | 144,500        |      |      |      |      |
| <b>TOTAL SOURCES</b>    | <b>170,000</b>         |      | <b>170,000</b> |      |      |      |      |

End of library to City Hall





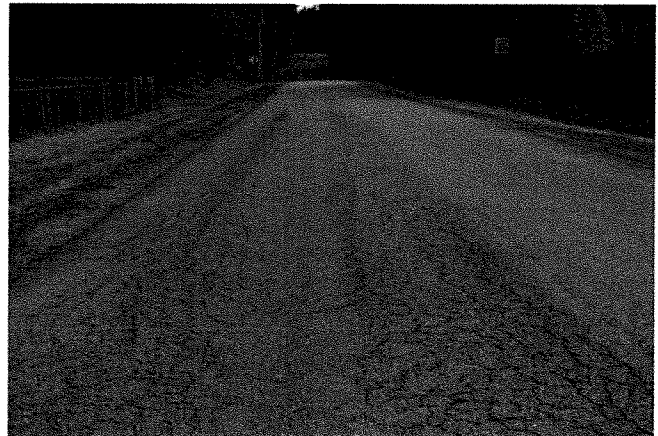
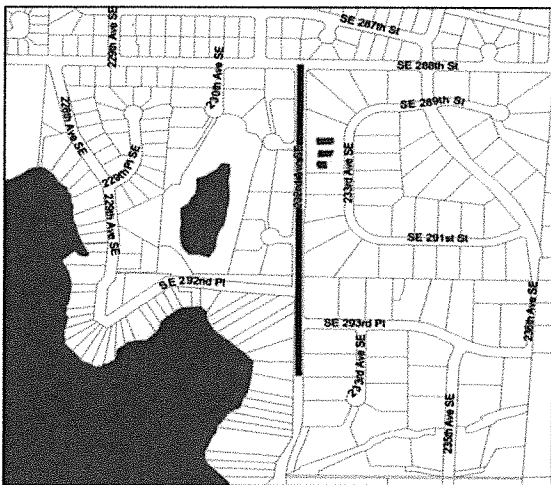
**Street Department** **T9**

**232nd Ave. SE Chip Seal** **14.03**

**DESCRIPTION** **Major Street Maintenance. Patch and Chip Seal 232nd Ave. SE from SE 288th Street to the back of the Pond at Greenbrier.**

**BACKGROUND** This section of roadway can be preserved by 7 to 10 years at one third of the cost of an overlay. A chip seal will help stretch the grant funding and help the City get ahead of the curve with deteriorating streets.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017           | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------|------------------------|----------------|------|------|------|------|------|
| Design Engineering       | 10,000                 | 10,000         |      |      |      |      |      |
| Management and Admin     | 10,000                 | 10,000         |      |      |      |      |      |
| Construction             | 80,000                 | 80,000         |      |      |      |      |      |
| <b>TOTAL COSTS</b>       | <b>100,000</b>         | <b>100,000</b> |      |      |      |      |      |
| <b>REQUESTED FUNDING</b> |                        |                |      |      |      |      |      |
| Grants                   | 90,000                 | 90,000         |      |      |      |      |      |
| Grant Matching           | 10,000                 | 10,000         |      |      |      |      |      |
| <b>TOTAL SOURCES</b>     | <b>100,000</b>         | <b>100,000</b> |      |      |      |      |      |



# Street Department T10

## Downtown Public Parking

**DESCRIPTION** Develop additional public parking in the downtown area of Baker Street and Railroad Ave.

**BACKGROUND** Most of the existing buildings in the Railroad Ave area were constructed without off street parking lots other than the Eagles Hall. This area is zoned "Town Center" which does not require off street parking with the development of the property. There currently is a deficiency in available parking to support the existing businesses. The cope of this project will be refined in the initial preliminary engineering phase. In the preliminary phase of this project the City will rebiew the cost and benefit of creating additional on street parking, expangingindg the use of city owned right of way in the area, negotiating with owner of undeveloped property and / or purchasing additional property in the area.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017 | 2018 | 2019          | 2020           | 2021 | 2022 |
|--------------------------|------------------------|------|------|---------------|----------------|------|------|
| Land/Right of Way        | 60,000                 |      |      |               | 60,000         |      |      |
| Preliminary Engineering  | 10,000                 |      |      | 10,000        |                |      |      |
| Design Engineering       | 10,000                 |      |      | 10,000        |                |      |      |
| Management and Admin     | 5,000                  |      |      | 5,000         |                |      |      |
| Construction             | 60,000                 |      |      |               | 60,000         |      |      |
| <b>TOTAL COSTS</b>       | <b>145,000</b>         |      |      | <b>25,000</b> | <b>120,000</b> |      |      |
| REQUESTED FUNDING        |                        |      |      |               |                |      |      |
| Grants                   | 108,000                |      |      |               | 108,000        |      |      |
| Real Estate Excise Tax 2 | 25,000                 |      |      | 25,000        |                |      |      |
| Grant Matching           | 12,000                 |      |      |               | 12,000         |      |      |
| Other (Specify)          |                        |      |      |               |                |      |      |
| <b>TOTAL SOURCES</b>     | <b>145,000</b>         |      |      | <b>25,000</b> | <b>120,000</b> |      |      |



**Street Department** **T11**

**216th Avenue SE Overlay**

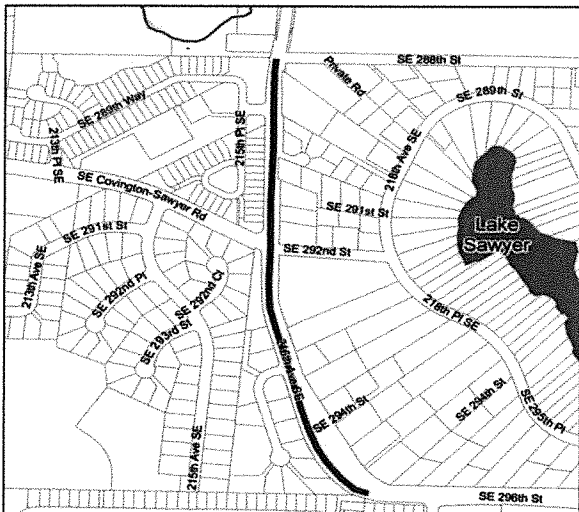
**DESCRIPTION**

**Major Street Maintenance.** Patch and overlay 216th Ave. SE from SE 288th St. to SE 296th St.

**BACKGROUND**

The pavement condition is average to poor. The roadway width and side improvements vary. The engineering, bid process, inspections and project management will be provided by City staff. This is a heavy traffic area project.

| CAPITAL PROJECT COSTS     | Total \$<br>2017 -2022 | 2017 | 2018 | 2019           | 2020 | 2021 | 2022 |
|---------------------------|------------------------|------|------|----------------|------|------|------|
| Engineering & Bid Docs    | 20,000                 |      |      | 20,000         |      |      |      |
| Management & Admin        | 15,000                 |      |      | 15,000         |      |      |      |
| Construction              | 145,000                |      |      | 145,000        |      |      |      |
| <b>TOTAL COSTS</b>        | <b>180,000</b>         |      |      | <b>180,000</b> |      |      |      |
| <b>REQUESTED FUNDING</b>  |                        |      |      |                |      |      |      |
| TIB Pavement Preservation | 153,000                |      |      | 153,000        |      |      |      |
| Grant Matching            | 27,000                 |      |      | 27,000         |      |      |      |
| <b>TOTAL SOURCES</b>      | <b>180,000</b>         |      |      | <b>180,000</b> |      |      |      |



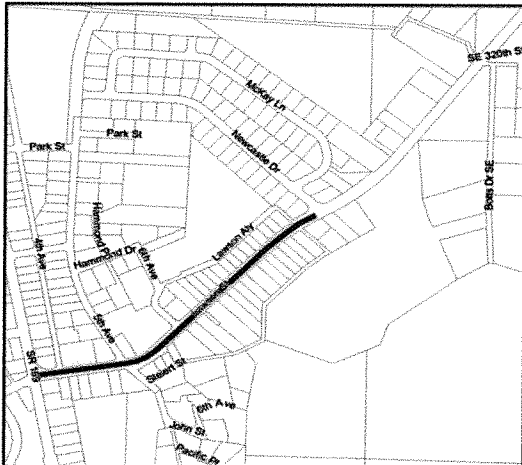
**Street Department** **T12**

**Lawson Street Ph. 1**

**DESCRIPTION** Major Street Maintenance. Surface grinding; some panel replacement and shoulder widening from SR 169 to Newcastle Dr.

**BACKGROUND** The pavement condition is average to poor. The roadway width is a little to narrow with no shoulders. The engineering, bid process, inspections and project management will be provided by City staff.

| CAPITAL PROJECT COSTS     | Total \$<br>2017 -2022 | 2017 | 2018 | 2019           | 2020 | 2021 | 2022 |
|---------------------------|------------------------|------|------|----------------|------|------|------|
| Engineering & Bid Docs    | 20,000                 |      |      | 20,000         |      |      |      |
| Management & Admin        | 15,000                 |      |      | 15,000         |      |      |      |
| Construction              | 130,000                |      |      | 130,000        |      |      |      |
| <b>TOTAL COSTS</b>        | <b>165,000</b>         |      |      | <b>165,000</b> |      |      |      |
| <b>REQUESTED FUNDING</b>  |                        |      |      |                |      |      |      |
| TIB Pavement Preservation | 148,500                |      |      | 148,500        |      |      |      |
| Grant Matching            | 16,500                 |      |      | 16,500         |      |      |      |
| <b>TOTAL SOURCES</b>      | <b>165,000</b>         |      |      | <b>165,000</b> |      |      |      |



**Street Department** **T13**

**Grant Matching Fund** **13.03**

**DESCRIPTION** This project is used to accumulate funds for a match for grants for street and pedestrian projects now scheduled on the CIP.

**BACKGROUND** The City has used this fund for professional technical assistance with grant applications and supplement funding if a grant is received for a project that needs to be moved up in the CIP schedule or if a larger match than anticipated is needed.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
|--------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Funding to Match Grants  | 240,000                | 40,000        | 40,000        | 40,000        | 40,000        | 40,000        | 40,000        |
| <b>TOTAL COSTS</b>       | <b>240,000</b>         | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> |
| <b>REQUESTED FUNDING</b> |                        |               |               |               |               |               |               |
| Real Estate Excise Tax 2 | 240,000                | 40,000        | 40,000        | 40,000        | 40,000        | 40,000        | 40,000        |
| <b>TOTAL SOURCES</b>     | <b>240,000</b>         | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> |



**What is a matching grant?**

A matching grant is a contingent grant awarded only if the receiving entity is able to put up (or independently raise) a sum equal to the amount provided by the granting entity.



**Street Department** **T14**

**Lawson Street Sidewalk Phase 2** **13.5**

**DESCRIPTION** **Pedestrian Project.** Construct 1015 feet of new 5 foot concrete sidewalk on the north side of Lawson Street to from Sixth Avenue to the east boundary of Lawson Hill Estates. This project does not include curb gutter or street widening.

**BACKGROUND** Lawson Hill Estates and the surrounding area is within 1 mile of the elementary school on Baker Street. The City is partnering with the School District to seek Safe Routes to School grants for this project. It is anticipated that additional funding will be needed to cover the entire cost. Transportation Improvement Board Funding and or potentially MPD mitigation funding may also be available. The City and the School District are planning to cooperate and jointly apply for this grant in 2017 for funding in 2018 and 2019.

**COMMENTS** The timing of this project may have to wait for the pedestrian mitigation assistance from the Lawson Hills developer for this project. Other grant funding may also be available to complete the total funding.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017 | 2018          | 2019           | 2020 | 2021 | 2022 |
|--------------------------|------------------------|------|---------------|----------------|------|------|------|
| Land/Right of Way        | 10,000                 |      | 10,000        |                |      |      |      |
| Design Engineering       | 61,000                 |      | 61,000        |                |      |      |      |
| Mgmt & Admin             | 15,000                 |      | 5,000         | 10,000         |      |      |      |
| Construction Costs       | 270,000                |      |               | 270,000        |      |      |      |
| <b>TOTAL COSTS</b>       | <b>356,000</b>         |      | <b>76,000</b> | <b>280,000</b> |      |      |      |
| <b>REQUESTED FUNDING</b> |                        |      |               |                |      |      |      |
| Safe Rt to School Grant  | 165,000                |      | 55,000        | 110,000        |      |      |      |
| TIB Pedestrian Grant     | 150,000                |      |               | 150,000        |      |      |      |
| Dev/Impact Fees/SEPA     | 41,000                 |      | 21,000        | 20,000         |      |      |      |
| <b>TOTAL SOURCES</b>     | <b>356,000</b>         |      | <b>76,000</b> | <b>280,000</b> |      |      |      |



**Street Department** **T15**

**Downtown Pedestrian and Bicycle Linkages Study**

**DESCRIPTION**

**Pedestrian Project:** This study will identify the best routes for pedestrians and bicycles to connect to the north and south of the old downtown area and identify right of way acquisition if needed.

**BACKGROUND**

The existing right of way for the state route is inadequate for widening to accommodate additional lanes along with pedestrian and bicycles. The study will investigate various bypass routes and key connection points, and provide opportunities for public input. Once the City has approved a pedestrian and bicycle plan for the downtown area the City will be in a better position to seek funding for these important alternative mode connections.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017 | 2018 | 2019 | 2020 | 2021          | 2022 |
|--------------------------|------------------------|------|------|------|------|---------------|------|
| Preliminary Engineering  | 10,000                 |      |      |      |      | 10,000        |      |
| Design Engineering       | 20,000                 |      |      |      |      | 20,000        |      |
| <b>TOTAL COSTS</b>       | <b>30,000</b>          |      |      |      |      | <b>30,000</b> |      |
| <b>REQUESTED FUNDING</b> |                        |      |      |      |      |               |      |
| Grant Match              | 3,000                  |      |      |      |      | 3,000         |      |
| Pedestrian Grant         | 27,000                 |      |      |      |      | 27,000        |      |
| <b>TOTAL SOURCES</b>     | <b>30,000</b>          |      |      |      |      | <b>30,000</b> |      |



**Street Department** **T16**

**Lawson Connector**

**DESCRIPTION**

**Capacity Adding Project.** This project provides a new connection from East Black Diamond to SR-169 west of the narrow section of through old downtown. The new road will primarily serve the Lawson Hills Master Planned Development.

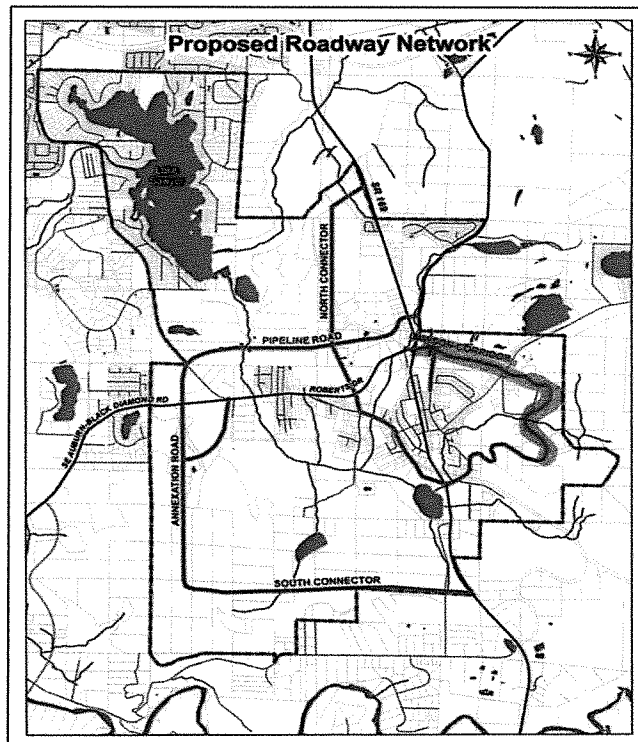
**BACKGROUND**

This important additional street connection will help distribute traffic and increase local capacity as well as preserve the existing capacity on Lawson street and the downtown corridor on SR 169. This project was added to the future street network planning in the 2009 comprehensive plan update.

**COMMENTS**

The timing of this project is tied to the Lawson Hills MPD initial phases. This project is planned to be designed and constructed by the developer.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017 | 2018             | 2019 | 2020 | 2021 | 2022 |
|--------------------------|------------------------|------|------------------|------|------|------|------|
| Design Engineering       | 600,000                |      | 600,000          |      |      |      |      |
| Construction Costs       | 2,600,000              |      | 2,600,000        |      |      |      |      |
| <b>TOTAL COSTS</b>       | <b>3,200,000</b>       |      | <b>3,200,000</b> |      |      |      |      |
| <b>REQUESTED FUNDING</b> |                        |      |                  |      |      |      |      |
| Developer Funded         | 3,200,000              |      | 3,200,000        |      |      |      |      |
| <b>TOTAL SOURCES</b>     | <b>3,200,000</b>       |      | <b>3,200,000</b> |      |      |      |      |





**Street Department** **T17**

**BD-Ravensdale Rd/Roberts Drive /SR 169 Interim Improve.**

**DESCRIPTION**

**Capacity Adding Project.** This project will meet existing Level of Service deficiency, near term future capacity needs and address safety issues at these two intersections.

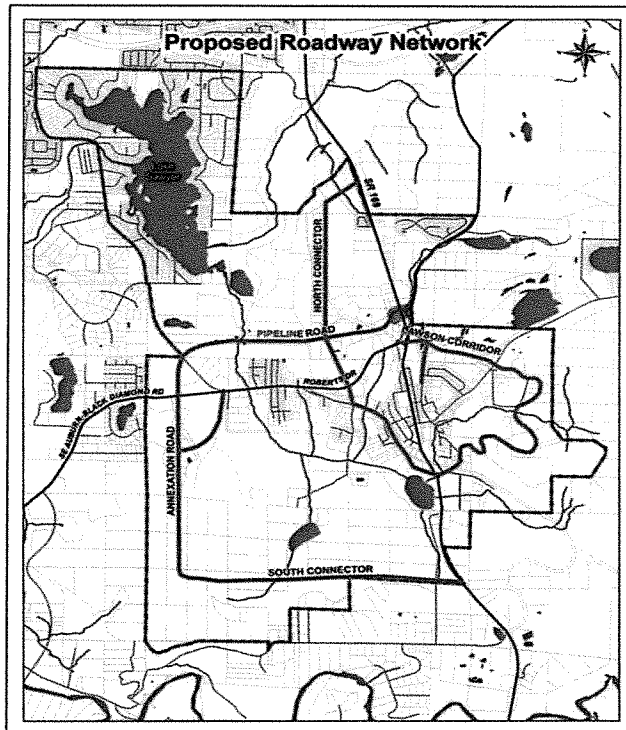
**BACKGROUND**

If the City is able to obtain significant grant funding in the next couple of years (once the population exceeds 5,000), the City may be able to move forward with a better long term comprehensive solution for these two intersections. This initial interim project does not replace the ultimate plan for these intersections but it will give the City more time to obtain the funding for a more comprehensive solution.

**COMMENTS**

This project is planned to be designed and constructed by the developer.

| CAPITAL PROJECT COSTS       | Total \$<br>2017 -2022 | 2017           | 2018           | 2019             | 2020 | 2021 | 2022 |
|-----------------------------|------------------------|----------------|----------------|------------------|------|------|------|
| Design Engineering          | 200,000                | 200,000        |                |                  |      |      |      |
| Management & Administration | 100,000                |                | 100,000        |                  |      |      |      |
| Construction Costs          | 1,000,000              |                |                | 1,000,000        |      |      |      |
| <b>TOTAL COSTS</b>          | <b>1,300,000</b>       | <b>200,000</b> | <b>100,000</b> | <b>1,000,000</b> |      |      |      |
| <b>REQUESTED FUNDING</b>    |                        |                |                |                  |      |      |      |
| Developer Funded            | 1,300,000              | 200,000        | 100,000        | 1,000,000        |      |      |      |
| <b>TOTAL SOURCES</b>        | <b>1,300,000</b>       | <b>200,000</b> | <b>100,000</b> | <b>1,000,000</b> |      |      |      |



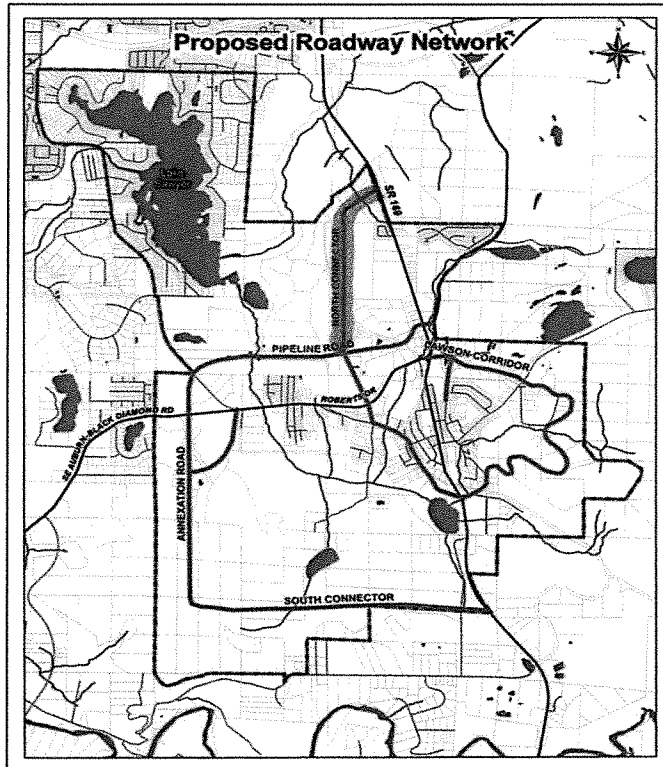
**Street Department** **T18**

**North Connector**

**DESCRIPTION** Capacity Adding Project. This project provides a link from the North Triangle area of Lawson Hill MPD and the Villages MPD to SR 169 and a future link to the "pipeline" road.

**BACKGROUND** This project is consistent with the City's Future Road Network Plan in the City's Comprehensive Plan

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017 | 2018 | 2019 | 2020             | 2021 | 2022 |
|--------------------------|------------------------|------|------|------|------------------|------|------|
| Design Engineering       | 225,000                |      |      |      | 225,000          |      |      |
| Construction Costs       | 775,000                |      |      |      | 775,000          |      |      |
| <b>TOTAL COSTS</b>       | <b>1,000,000</b>       |      |      |      | <b>1,000,000</b> |      |      |
| <b>REQUESTED FUNDING</b> |                        |      |      |      |                  |      |      |
| Developer Funded         | 1,000,000              |      |      |      | 1,000,000        |      |      |
| <b>TOTAL SOURCES</b>     | <b>1,000,000</b>       |      |      |      | <b>1,000,000</b> |      |      |



**Street Department**

**T19**

**Roberts Dr/Lake Sawyer Rd Extension Roundabout**

**DESCRIPTION**

**Capacity Adding Project.** This project will provide intersection capacity as needed for the Villages MPD.

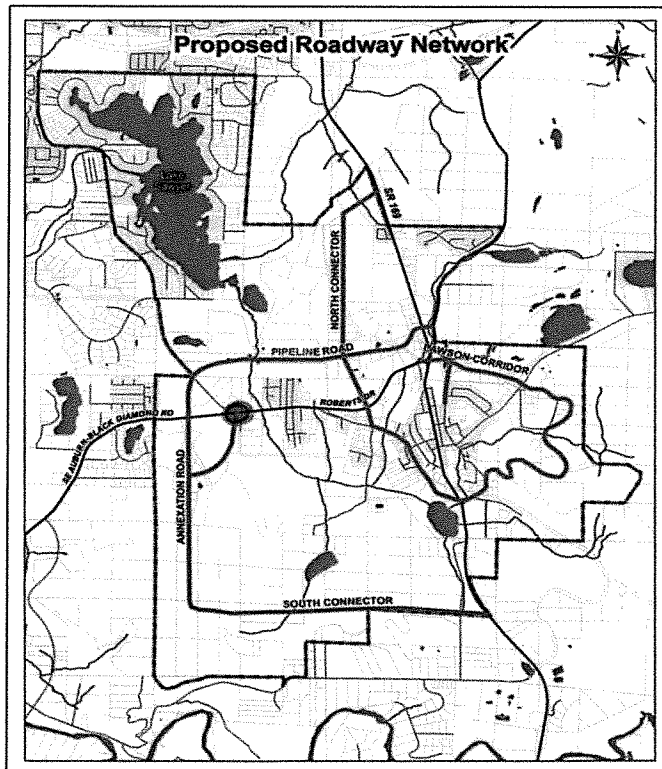
**BACKGROUND**

This project is consistent with the City's Future Road Network Plan in the City's Comprehensive Plan

**COMMENTS**

This project is planned to be designed and constructed by the developer.

| CAPITAL PROJECT COSTS    | Total \$<br>2017-2022 | 2017             | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------|-----------------------|------------------|------|------|------|------|------|
| Design Engineering       | 225,000               | 225,000          |      |      |      |      |      |
| Construction Costs       | 775,000               | 775,000          |      |      |      |      |      |
| <b>TOTAL COSTS</b>       | <b>1,000,000</b>      | <b>1,000,000</b> |      |      |      |      |      |
| <b>REQUESTED FUNDING</b> |                       |                  |      |      |      |      |      |
| Developer funded         | 1,000,000             | 1,000,000        |      |      |      |      |      |
| <b>TOTAL SOURCES</b>     | <b>1,000,000</b>      | <b>1,000,000</b> |      |      |      |      |      |



**Street Department**

**T20**

**BD-Ravensdale Rd/SR 169 Permanent Intersection Imp.**

**DESCRIPTION**

**Capacity Adding Project.** This project realigns Ravensdale Road further to the north providing a functional distance between the next major intersection to the south (Roberts Drive) The intersection capacity will be increased by either a larger signalized intersection or a roundabout. Road right of way will need to be acquired.

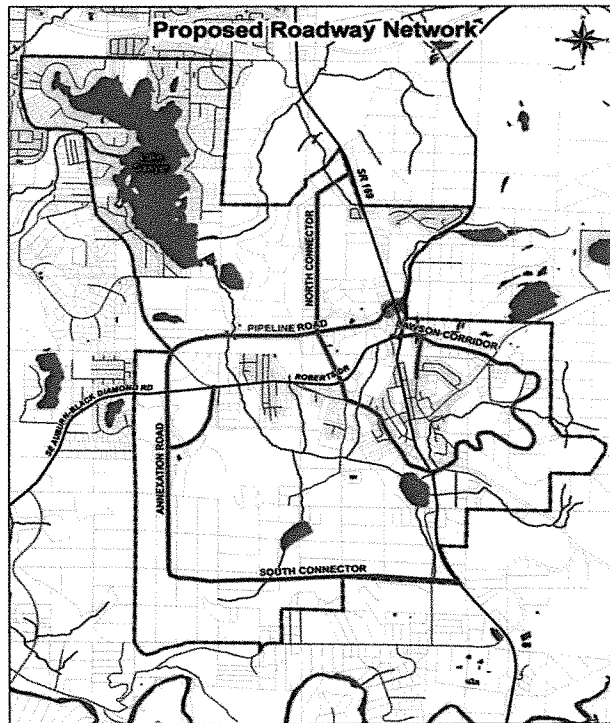
**BACKGROUND**

This project is in keeping with the City's adopted Future Roadway Network as part of the City's Comprehensive Plan. Once the City is over 5000 in population, the City will be eligible for larger grants for larger projects such as this.

**COMMENTS**

This project is planned to be designed and constructed by the developer.

| CAPITAL PROJECT COSTS      | Total \$<br>2017 -2022 | 2017 | 2018 | 2019 | 2020 | 2021             | 2022 |
|----------------------------|------------------------|------|------|------|------|------------------|------|
| Design Engineering         | 1,500,000              |      |      |      |      | 1,500,000        |      |
| Construction Costs         | 6,500,000              |      |      |      |      | 6,500,000        |      |
| <b>TOTAL COSTS</b>         | <b>8,000,000</b>       |      |      |      |      | <b>8,000,000</b> |      |
| REQUESTED FUNDING          |                        |      |      |      |      |                  |      |
| Developer Funded           | 4,000,000              |      |      |      |      | 4,000,000        |      |
| TIB Federal Grant Matching | 4,000,000              |      |      |      |      | 4,000,000        |      |
| <b>TOTAL SOURCES</b>       | <b>8,000,000</b>       |      |      |      |      | <b>8,000,000</b> |      |



**Street Department** **T21**

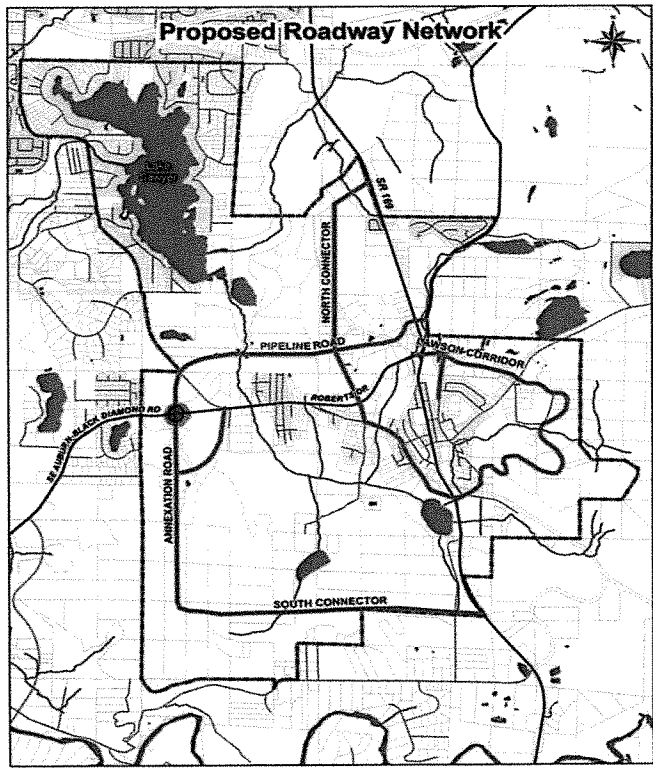
**Roberts Dr/Annexation Road Intersection Improvements**

**DESCRIPTION** Capacity Adding Project. This project will provide intersection capacity to serve the Villages MPD.

**BACKGROUND** This project is consistent with the City's Comprehensive Plan and the Future Road Network plan therein.

**COMMENTS** This project is planned to be designed and constructed by the developer.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 -2022 | 2017 | 2018 | 2019 | 2020 | 2021             | 2022 |
|--------------------------|------------------------|------|------|------|------|------------------|------|
| Design Engineering       | 250,000                |      |      |      |      | 250,000          |      |
| Construction Costs       | 750,000                |      |      |      |      | 750,000          |      |
| <b>TOTAL COSTS</b>       | <b>1,000,000</b>       |      |      |      |      | <b>1,000,000</b> |      |
| <b>REQUESTED FUNDING</b> |                        |      |      |      |      |                  |      |
| Developer Funded         | 1,000,000              |      |      |      |      | 1,000,000        |      |
| <b>TOTAL SOURCES</b>     | <b>1,000,000</b>       |      |      |      |      | <b>1,000,000</b> |      |



**Street Department**

**T22**

**216th Ave SE/SE 288th St Intersection Improvements**

**DESCRIPTION**

**Capacity Adding Project.** This project will provide intersection capacity for growth within the City of Black Diamond.

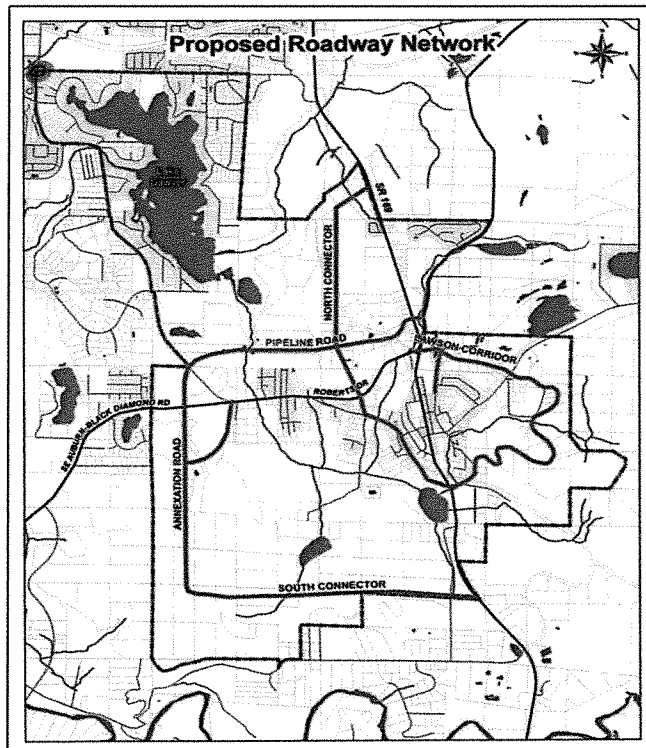
**BACKGROUND**

This project is consistent with the City's Comprehensive Plan and the Future Road Network Plan therein.

**COMMENTS**

This project is planned to be designed and constructed by the developer.

| CAPITAL PROJECT COSTS | Total \$<br>2017 -2022 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022             |
|-----------------------|------------------------|------|------|------|------|------|------------------|
| Design Engineering    | 300,000                |      |      |      |      |      | 300,000          |
| Construction Costs    | 1,100,000              |      |      |      |      |      | 1,100,000        |
| <b>TOTAL COSTS</b>    | <b>1,400,000</b>       |      |      |      |      |      | <b>1,400,000</b> |
| REQUESTED FUNDING     |                        |      |      |      |      |      |                  |
| Developer Funded      | 1,400,000              |      |      |      |      |      | 1,400,000        |
| <b>TOTAL SOURCES</b>  | <b>1,400,000</b>       |      |      |      |      |      | <b>1,400,000</b> |



## Street Department (Transportation Projects)

### CAPITAL PROJECT SUMMARY

| Summary by Project                            |                         | Capital Plan 2017 - 2022 |                  |                  |                  |                  |                  |
|---|-------------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|
| Project Title                                 | Total \$<br>2017 - 2022 | 2017                     | 2018             | 2019             | 2020             | 2021             | 2022             |
| T1 General Street Improvement                 | 180,000                 | 30,000                   | 30,000           | 30,000           | 30,000           | 30,000           | 30,000           |
| T2 Roberts Drive Road Improvements            | 1,158,108               | 1,158,108                |                  |                  |                  |                  |                  |
| T3 New Arterial "Annexation Road"             | 2,900,000               | 2,900,000                |                  |                  |                  |                  |                  |
| T4 Lake Sawyer Road Extension                 | 1,800,000               | 1,800,000                |                  |                  |                  |                  |                  |
| T5 224th Guardrail at Covington Creek         | 25,000                  |                          | 25,000           |                  |                  |                  |                  |
| T6 224th Ave SE Asphalt Overlay               | 300,000                 | 300,000                  |                  |                  |                  |                  |                  |
| T7 Roberts Roundabout                         | 7,770,000               |                          | 210,000          | 2,090,000        | 5,470,000        |                  |                  |
| T8 Roberts Drive Rehabilitation Phase 2       | 170,000                 |                          | 170,000          |                  |                  |                  |                  |
| T9 232nd Ave Chip Seal                        | 100,000                 | 100,000                  |                  |                  |                  |                  |                  |
| T10 Downtown Public Parking                   | 145,000                 |                          |                  | 25,000           | 120,000          |                  |                  |
| T11 216th Ave SE Overlay                      | 180,000                 |                          |                  | 180,000          |                  |                  |                  |
| T12 Lawson Street Phase 1                     | 165,000                 |                          |                  | 165,000          |                  |                  |                  |
| T13 Grant Matching                            | 240,000                 | 40,000                   | 40,000           | 40,000           | 40,000           | 40,000           | 40,000           |
| T14 Lawson Street Sidewalk Phase 2            | 356,000                 |                          | 76,000           | 280,000          |                  |                  |                  |
| T15 Pedestrian and Bicycle Study              | 30,000                  |                          |                  |                  |                  | 30,000           |                  |
| T16 Lawson Connector                          | 3,200,000               |                          | 3,200,000        |                  |                  |                  |                  |
| T17 Ravensdale - 169 Intersection             | 1,300,000               | 200,000                  | 100,000          | 1,000,000        |                  |                  |                  |
| T18 North Connector                           | 1,000,000               |                          |                  |                  | 1,000,000        |                  |                  |
| T19 Roberts Dr. Lake Sawyer Rd. Roundabout    | 1,000,000               | 1,000,000                |                  |                  |                  |                  |                  |
| T20 Ravensdale - 169 Intersection - Permanent | 8,000,000               |                          |                  |                  |                  | 8,000,000        |                  |
| T21 Roberts Dr. Annex Road Intersection Imp.  | 1,000,000               |                          |                  |                  |                  | 1,000,000        |                  |
| T22 216 Ave SE/288th Intersection Improvement | 1,400,000               |                          |                  |                  |                  |                  | 1,400,000        |
| <b>TOTAL ESTIMATED COSTS</b>                  | <b>32,419,108</b>       | <b>7,528,108</b>         | <b>3,851,000</b> | <b>3,810,000</b> | <b>6,660,000</b> | <b>9,100,000</b> | <b>1,470,000</b> |
| <b>Funding Sources</b>                        |                         |                          |                  |                  |                  |                  |                  |
| <b>TIB, CDBG and Other Grants</b>             |                         |                          |                  |                  |                  |                  |                  |
| T2 Roberts Drive Road Improvements            | 1,079,867               | 1,079,867                |                  |                  |                  |                  |                  |
| T6 224th Ave SE Asphalt Overlay               | 255,000                 | 255,000                  |                  |                  |                  |                  |                  |
| T7 Roberts Roundabout                         | 4,235,000               |                          |                  | 1,030,000        | 3,205,000        |                  |                  |
| T8 Roberts Drive Rehabilitation Phase 2       | 144,500                 |                          | 144,500          |                  |                  |                  |                  |
| T9 232nd Ave Chip Seal                        | 90,000                  | 90,000                   |                  |                  |                  |                  |                  |
| T10 Downtown Public Parking                   | 108,000                 |                          |                  |                  | 108,000          |                  |                  |
| T11 216th Ave SE Overlay                      | 153,000                 |                          |                  | 153,000          |                  |                  |                  |
| T12 Lawson Street Phase 1                     | 148,500                 |                          |                  | 148,500          |                  |                  |                  |
| T14 Lawson Street Sidewalk Phase 2            | 315,000                 |                          | 55,000           | 260,000          |                  |                  |                  |
| T15 Pedestrian and Bicycle Study              | 27,000                  |                          |                  |                  |                  | 27,000           |                  |
| T20 Ravensdale - 169 Intersection - Permanent | 4,000,000               |                          |                  |                  |                  | 4,000,000        |                  |
|   | <b>10,555,867</b>       | <b>1,424,867</b>         | <b>199,500</b>   | <b>1,591,500</b> | <b>3,313,000</b> | <b>4,027,000</b> |                  |
| <b>Developer Funded/Impact Fees/SEPA</b>      |                         |                          |                  |                  |                  |                  |                  |
| T2 Roberts Drive Road Improvements            | 52,250                  | 52,250                   |                  |                  |                  |                  |                  |
| T3 New Arterial "Annexation Road"             | 2,900,000               | 2,900,000                |                  |                  |                  |                  |                  |
| T4 Lake Sawyer Road Extension                 | 1,800,000               | 1,800,000                |                  |                  |                  |                  |                  |
| T7 Roberts Roundabout                         | 3,535,000               |                          | 210,000          | 1,060,000        | 2,265,000        |                  |                  |
| T14 Lawson Street Sidewalk Phase 2            | 41,000                  |                          | 21,000           | 20,000           |                  |                  |                  |
| T16 Lawson Connector                          | 3,200,000               |                          | 3,200,000        |                  |                  |                  |                  |
| T17 Ravensdale - 169 Intersection             | 1,300,000               | 200,000                  | 100,000          | 1,000,000        |                  |                  |                  |
| T18 North Connector                           | 1,000,000               |                          |                  |                  | 1,000,000        |                  |                  |
| T19 Roberts Dr. Lake Sawyer Rd. Roundabout    | 1,000,000               | 1,000,000                |                  |                  |                  |                  |                  |
| T20 Ravensdale - 169 Intersection - Permanent | 4,000,000               |                          |                  |                  |                  | 4,000,000        |                  |
| T21 Roberts Dr. Annex Road Intersection Imp.  | 1,000,000               |                          |                  |                  |                  | 1,000,000        |                  |
| T22 216 Ave SE/288th Intersection Improvement | 1,400,000               |                          |                  |                  |                  |                  | 1,400,000        |
| <b>Total Developer/Impact/SEPA Funding</b>    | <b>21,228,250</b>       | <b>5,952,250</b>         | <b>3,531,000</b> | <b>2,080,000</b> | <b>3,265,000</b> | <b>5,000,000</b> | <b>1,400,000</b> |

## Street Department (Transportation Projects) CAPITAL PROJECT SUMMARY

| Summary by Funding, cont.                                 | Capital Plan 2017 - 2022 |                  |                  |                  |                  |                  |                  |
|---|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|   | Total \$<br>2017 - 2022  | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
| <b>Real Estate Excise Tax 2 Funding or Grant Matching</b> |                          |                  |                  |                  |                  |                  |                  |
| T1 General Street Improvement                             | 180,000                  | 30,000           | 30,000           | 30,000           | 30,000           | 30,000           | 30,000           |
| T2 Roberts Drive Road Improvements                        | 25,991                   | 25,991           |                  |                  |                  |                  |                  |
| T5 224th Guardrail at Covington Creek                     | 25,000                   |                  | 25,000           |                  |                  |                  |                  |
| T6 224th Ave SE Asphalt Overlay                           | 45,000                   | 45,000           |                  |                  |                  |                  |                  |
| T8 Roberts Drive Rehabilitation Phase 2                   | 25,500                   |                  | 25,500           |                  |                  |                  |                  |
| T9 232nd Ave Chip Seal                                    | 10,000                   | 10,000           |                  |                  |                  |                  |                  |
| T10 Downtown Public Parking                               | 37,000                   |                  |                  | 25,000           | 12,000           |                  |                  |
| T11 216th Ave SE Overlay                                  | 27,000                   |                  |                  | 27,000           |                  |                  |                  |
| T12 Lawson Street Phase 1                                 | 16,500                   |                  |                  | 16,500           |                  |                  |                  |
| T13 Grant Matching  | 240,000                  | 40,000           | 40,000           | 40,000           | 40,000           | 40,000           | 40,000           |
| T15 Pedestrian and Bicycle Study                          | 3,000                    |                  |                  |                  |                  | 3,000            |                  |
| <b>Total REET 2 Funding</b>                               | <b>634,991</b>           | <b>150,991</b>   | <b>120,500</b>   | <b>138,500</b>   | <b>82,000</b>    | <b>73,000</b>    | <b>70,000</b>    |
| <b>TOTAL ESTIMATED FUNDING SOURCES</b>                    | <b>32,419,108</b>        | <b>7,528,108</b> | <b>3,851,000</b> | <b>3,810,000</b> | <b>6,660,000</b> | <b>9,100,000</b> | <b>1,470,000</b> |



**Water Department** **W1**

**4.3 Mil Gal Tank Maintenance & Repairs** 14.11

**DESCRIPTION**                      The 4.3 million gallon water tank will be 10 years old in 2016. The tank will need be drained and any and all spots of corrosion or paint damage will need to be spot treated to help preserve the over all inside and exterior coatings.

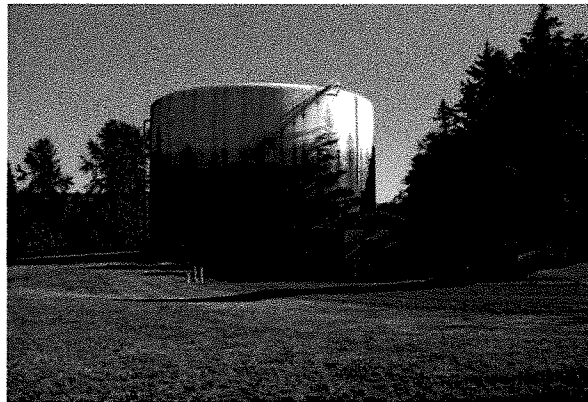
**COMMENTS**                        This project while it is a maintenance project does extend the life of the coating by about 5 to 10 years and therefore is included in this Capital Improvement Plan

| <b>CAPITAL PROJECT COSTS</b> | <b>Total \$<br/>2017 - 2022</b> | <b>2017</b>   | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>2021</b> | <b>2022</b> |
|------------------------------|---------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|
| Water Tank Maintenance       | 30,000                          | 30,000        |             |             |             |             |             |
| <b>TOTAL COSTS</b>           | <b>30,000</b>                   | <b>30,000</b> |             |             |             |             |             |
| <b>REQUESTED FUNDING</b>     |                                 |               |             |             |             |             |             |
| Water Rates                  | 30,000                          | 30,000        |             |             |             |             |             |
| <b>TOTAL SOURCES</b>         | <b>30,000</b>                   | <b>30,000</b> |             |             |             |             |             |

Newly constructed



August 2016



**Water Department** **W2**

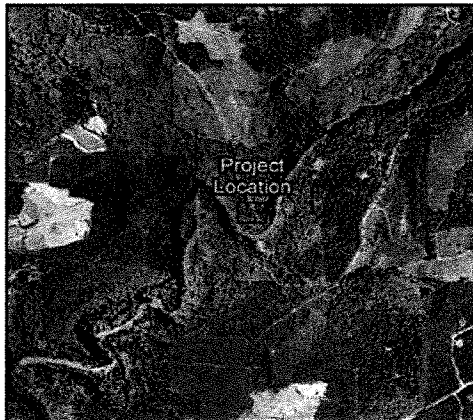
**Springs & Transmission Reconstruction (WSFFA)** 13.06

**DESCRIPTION** The concept to rehabilitate the City's water source has shifted from A (trying to protect and rehabilitate the existing open springs, replacing pipes over the steep slope, and reconstructing the river crossing) to B (tapping an artesian spring on the north side of the river, changing the water right point of withdrawal, and securing an easement from State Parks. Common to both options are a new pumping system, an updated chlorine system, and replacing the transmission main back to Black Diamond.

**BACKGROUND** In late 2013, the City contracted with RH2 to study and compare two alternative concepts to improve and redevelop the springs to full water right capacity. The Springs Alternative Analysis Study recommended that the City pursue tapping an artesian spring on the north side of the river rather than reconstructing the more vulnerable and more complicated spring collection system on the south side. City staff and the Public Works Committee and Council at a CIP workshop agreed with this recommendation because of the lower maintenance, higher reliability, lower risks to employees, and a better protected water supply.

**COMMENTS** This is a capacity and system reliability project funded by the Water Supply and Facilities Funding Agreement (WSFFA).

| CAPITAL PROJECT COSTS          | Total \$<br>2017 - 2022 | 2017           | 2018             | 2019 | 2020 | 2021 | 2022 |
|--------------------------------|-------------------------|----------------|------------------|------|------|------|------|
| Easement/water right transfer  | 300,000                 | 150,000        | 150,000          |      |      |      |      |
| Road/bldg imp.                 | 30,000                  |                | 30,000           |      |      |      |      |
| Preliminary Engineering        | 80,000                  | 80,000         |                  |      |      |      |      |
| Design Engineering             | 180,000                 | 180,000        |                  |      |      |      |      |
| Management / Admin             | 105,000                 | 55,000         | 50,000           |      |      |      |      |
| Construction Costs             | 2,251,000               |                | 2,251,000        |      |      |      |      |
| Legal Fees                     | 10,000                  |                | 10,000           |      |      |      |      |
| <b>TOTAL COSTS</b>             | <b>2,956,000</b>        | <b>465,000</b> | <b>2,491,000</b> |      |      |      |      |
| <b>REQUESTED FUNDING</b>       |                         |                |                  |      |      |      |      |
| Water Supply & Fac. Fnd Agrmt. | 2,956,000               | 465,000        | 2,491,000        |      |      |      |      |
| <b>TOTAL SOURCES</b>           | <b>2,956,000</b>        | <b>465,000</b> | <b>2,491,000</b> |      |      |      |      |



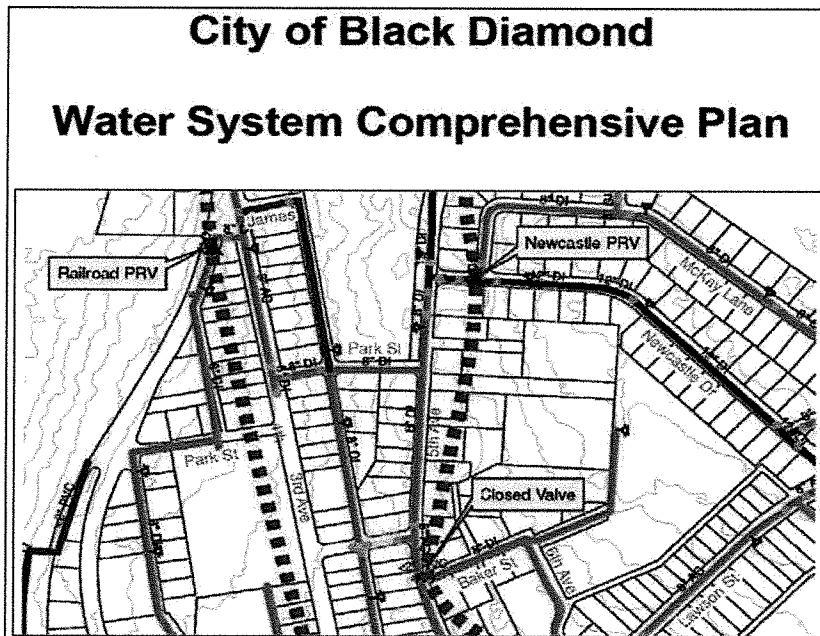
**Water Department** **W3**

**Water Comprehensive Plan Update** 14.12

**DESCRIPTION** The Department of Health requires an update of the Water Comprehensive Plan every 6 years. The City was due to update the Water Comprehensive Plan in 2015.

**COMMENTS** The Public Works Department work load and staffing level has held up the update the Water Comprehensive Plan. A portion of the work was intended to be done in house with assistance from an outside consultant for water system modeling and system mapping. The City staff also needs time to guide and direct the planning effort.

| CAPITAL PROJECT COSTS          | Total \$<br>2017 - 2022 | 2017          | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------------|-------------------------|---------------|------|------|------|------|------|
| Management / Administration    | 5,000                   | 5,000         |      |      |      |      |      |
| In house engineering           | 5,000                   | 5,000         |      |      |      |      |      |
| Public hearings/edits/approval | 20,000                  | 20,000        |      |      |      |      |      |
| <b>TOTAL COSTS</b>             | <b>30,000</b>           | <b>30,000</b> |      |      |      |      |      |
| <b>REQUESTED FUNDING</b>       |                         |               |      |      |      |      |      |
| Water Reserves and Rates       | 30,000                  | 30,000        |      |      |      |      |      |
| <b>TOTAL SOURCES</b>           | <b>30,000</b>           | <b>30,000</b> |      |      |      |      |      |



## Water Department

**W4**

### Salmon Enhancement & Green Energy

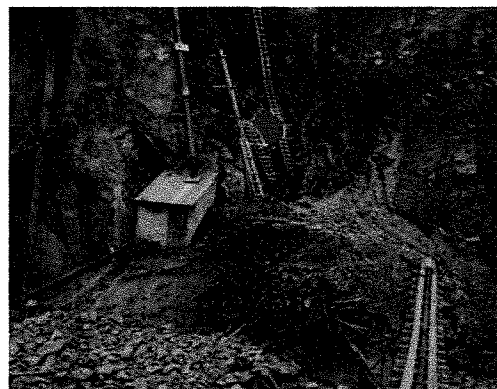
14.09

**DESCRIPTION** Replace the turbine, with a new larger turbine, electrical generator and connections to the power grid. The inlet pipe and spring overflow pipes needs to be replaced and upsized. The outlet discharge pipe needs to be replaced.

**BACKGROUND** This project will provide a source of green energy, prevent south bank erosion, reduce the risk of landslides into the Green River, reduce turbidity in the Green River and protect the stability of the springs collection sites. The City hopes to partner with an environmental group or a local tribe for the construction of a salmon spawning bed with the cool clean discharge water from the power generation.

**COMMENTS** The City is considering a simpler, easier to maintain water source on the north side of the Green River. See project W1. The transfer of the springs water right to an artesian spring on the north side of the river separates the need for the turbine pumping of south spring water across the river and therefore separates the obligation from the Water Supply and Facilities Funding Partners. However the benefit to the City of potentially generating revenue to keep water rates down and producing clean green power is still available to the City. The possibility of grant funding for the project looks very strong. If debt is incurred it will be repaid by energy savings.

| CAPITAL PROJECT COSTS      | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019          | 2020          | 2021           | 2022             |
|----------------------------|-------------------------|------|------|---------------|---------------|----------------|------------------|
| Preliminary Engineering    | 70,000                  |      |      | 70,000        |               |                |                  |
| Permit and Partnership Dev | 50,000                  |      |      |               | 50,000        |                |                  |
| Engineering                | 200,000                 |      |      |               |               | 200,000        |                  |
| Project Management         | 72,000                  |      |      | 7,000         | 5,000         | 10,000         | 50,000           |
| Construction Costs         | 1,000,000               |      |      |               |               |                | 1,000,000        |
| <b>TOTAL COSTS</b>         | <b>1,392,000</b>        |      |      | <b>77,000</b> | <b>55,000</b> | <b>210,000</b> | <b>1,050,000</b> |
| <b>REQUESTED FUNDING</b>   |                         |      |      |               |               |                |                  |
| <b>Grant Funding</b>       |                         |      |      |               |               |                |                  |
| Grant (Salmon mitigation)  | 540,000                 |      |      |               |               |                | 540,000          |
| Grant (Green Energy)       | 550,000                 |      |      |               | 40,000        |                | 510,000          |
| <b>Total Grant Funding</b> |                         |      |      |               |               |                |                  |
| <b>Loans</b>               |                         |      |      |               |               |                |                  |
| PWTF Loan                  | 302,000                 |      |      | 77,000        | 15,000        | 210,000        |                  |
| <b>TOTAL SOURCES</b>       | <b>1,392,000</b>        |      |      | <b>77,000</b> | <b>55,000</b> | <b>210,000</b> | <b>1,050,000</b> |



**Water Department** **W5**

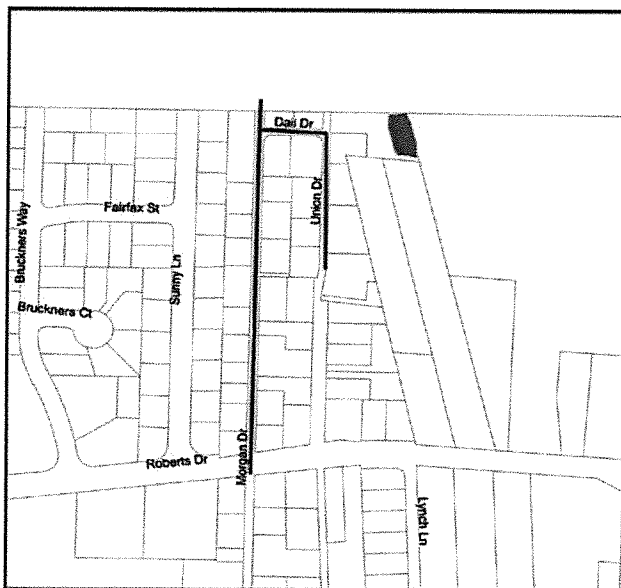
**Asbestos Water Main Replacement Program** 17.13

**DESCRIPTION** Replace 4 inch and 6 inch asbestos water main on Morgan Drive from Roberts Drive to the north end of Morgan Drive, east to Union and then south 350 feet to the existing ductile iron pipe. 1600 feet.

**BACKGROUND** This project will improve fire flows to the Morganville area and replace substandard pipe that is nearing its useful performance life. An income survey will be required to determine eligibility for Community Development Block Grant Funding.

**COMMENTS** Further future study of the existing asbestos water mains may show that a different asbestos water main should be replaced than this particular water main. Leak history, street reconstruction projects, pavement condition, developer improvements and asbestos pipe strength tests may change the priority of the asbestos pipe to be replaced.

| CAPITAL PROJECT COSTS           | Total \$<br>2017 - 2022 | 2017         | 2018         | 2019          | 2020           | 2021 | 2022 |
|---------------------------------|-------------------------|--------------|--------------|---------------|----------------|------|------|
| Income survey/ CDBG application | 8,000                   | 5,000        | 3,000        |               |                |      |      |
| Preliminary Engineering         | 20,000                  |              |              | 20,000        |                |      |      |
| Engineering, Design, Bid Docs   | 70,000                  |              |              | 70,000        |                |      |      |
| Management / Administration     | 19,000                  |              |              | 9,000         | 10,000         |      |      |
| Construction                    | 380,000                 |              |              |               | 380,000        |      |      |
| Contingency                     | 38,000                  |              |              |               | 38,000         |      |      |
| <b>TOTAL COSTS</b>              | <b>535,000</b>          | <b>5,000</b> | <b>3,000</b> | <b>99,000</b> | <b>428,000</b> |      |      |
| <b>REQUESTED FUNDING</b>        |                         |              |              |               |                |      |      |
| KC CDBG Grant                   | 476,000                 |              |              | 90,000        | 386,000        |      |      |
| REET or Grant Matching Funds    | 59,000                  | 5,000        | 3,000        | 9,000         | 42,000         |      |      |
| <b>TOTAL SOURCES</b>            | <b>535,000</b>          | <b>5,000</b> | <b>3,000</b> | <b>99,000</b> | <b>428,000</b> |      |      |



## Water Department

W6

### 0.5 MG Water Reservoir Recoat

**DESCRIPTION** Repaint the 0.5 MG reservoir inside and out.

**BACKGROUND** The City drained and inspected the interior of the water tank in 2015. The interior coating has deteriorated to a point where total replacement is needed. If the developer were to move forward with development above this reservoir, it would be cheaper with lower operational cost to rebuild the storage capacity up above with the new reservoir that will be needed at a higher elevation. However the lower reservoir would need to last until the higher one is built.

**COMMENTS** This project has been deferred to 2019. In 2018 The City will reassess the tank condition, and the development schedule and make a decision to defer the project for a few more years or move forward and paint the tank and preserve it. If the City makes a decision to move forward the staff should seek PWTF loan if available.

| CAPITAL PROJECT COSTS         | Total \$<br>2017 - 2022 | 2017 | 2018          | 2019           | 2020 | 2021 | 2022 |
|-------------------------------|-------------------------|------|---------------|----------------|------|------|------|
| Design Engineering & Bid Docs | 20,000                  |      | 20,000        |                |      |      |      |
| Specialty Inspection          | 10,000                  |      |               | 10,000         |      |      |      |
| Tank Painting                 | 180,000                 |      |               | 180,000        |      |      |      |
| Project Management            | 5,000                   |      |               | 5,000          |      |      |      |
| <b>TOTAL COSTS</b>            | <b>215,000</b>          |      | <b>20,000</b> | <b>195,000</b> |      |      |      |
| <b>REQUESTED FUNDING</b>      |                         |      |               |                |      |      |      |
| PWTF Loan or other            | 215,000                 |      | 20,000        | 195,000        |      |      |      |
| <b>TOTAL SOURCES</b>          | <b>215,000</b>          |      | <b>20,000</b> | <b>195,000</b> |      |      |      |



**Water Department** **W7**

**Fire Flow Loop - North Commercial Area** **13.08**

**DESCRIPTION** Replace 200 feet of 4 inch asbestos concrete with 12 inch ductile iron water main across SR 169 at the power substation; Complete a 750 foot 12 inch ductile iron water main loop from Cedar Brook Mobile Home Park to the 6 inch asbestos water main behind Boots Tavern. Replace 1200 feet of 8 inch asbestos water main on the west side of SR 169 from Ravensdale Road north to the existing 12 inch ductile iron water main. 2150 feet of 12 inch water in total.

**BACKGROUND** This is a capacity and system reliability project. Other commercial properties development along SR-169 may also be contributing or constructing portions of this project, if required through SEPA. This project can easily be phased if funding is short.

**COMMENTS** This project does not describe what is needed to provide fire flow and redundant service to the north triangle but rather is the minimum to provide a looped system for the north part of the existing city system. If OakPointe commercial development in the North Triangle moves forward, the water line looping required for that new development will provide an outside loop for this area and therefore lower the priority of the project. The pipe replacement issues however would remain.

| CAPITAL PROJECT COSTS        | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019 | 2020           | 2021           | 2022 |
|------------------------------|-------------------------|------|------|------|----------------|----------------|------|
| Management / Administration  | 30,000                  |      |      |      | 30,000         |                |      |
| Permitting, easements, legal | 30,000                  |      |      |      | 30,000         |                |      |
| Engineering                  | 80,000                  |      |      |      | 80,000         |                |      |
| Construction Costs           | 660,000                 |      |      |      |                | 660,000        |      |
| <b>TOTAL COSTS</b>           | <b>800,000</b>          |      |      |      | <b>140,000</b> | <b>660,000</b> |      |
| REQUESTED FUNDING            |                         |      |      |      |                |                |      |
| Water Fund Reserves          | 400,000                 |      |      |      | 70,000         | 330,000        |      |
| Developer Mitigation         | 400,000                 |      |      |      | 70,000         | 330,000        |      |
| <b>TOTAL SOURCES</b>         | <b>800,000</b>          |      |      |      | <b>140,000</b> | <b>660,000</b> |      |



## Water Department CAPITAL PROJECT SUMMARY

| Summary by Project  |                      | Capital Plan 2017 - 2022 |                  |                |                |                |                  |
|---|----------------------|--------------------------|------------------|----------------|----------------|----------------|------------------|
| Project Title   | Total \$ 2017 - 2022 | 2017                     | 2018             | 2019           | 2020           | 2021           | 2022             |
| W1 4.3 Mil Gal Tank Maintenance and Repair                | 30,000               | 30,000                   |                  |                |                |                |                  |
| W2 Springs & Transmission Reconstruction                  | 2,956,000            | 465,000                  | 2,491,000        |                |                |                |                  |
| W3 Water Comprehensive Plan Update                        | 30,000               | 30,000                   |                  |                |                |                |                  |
| W4 Salmon Enhancement & Green Energy                      | 1,392,000            |                          |                  | 77,000         | 55,000         | 210,000        | 1,050,000        |
| W5 Asbestos Water Main Replacement Prgm                   | 535,000              | 5,000                    | 3,000            | 99,000         | 428,000        |                |                  |
| W6 0.5 MG Water Reservoir Recoat                          | 215,000              |                          | 20,000           | 195,000        |                |                |                  |
| W7 Fire Flow Loop - North Commercial Area                 | 800,000              |                          |                  |                | 140,000        | 660,000        |                  |
| <b>TOTAL ESTIMATED COSTS</b>                              | <b>5,958,000</b>     | <b>530,000</b>           | <b>2,514,000</b> | <b>371,000</b> | <b>623,000</b> | <b>870,000</b> | <b>1,050,000</b> |
| <b>Funding Sources</b>                                    |                      |                          |                  |                |                |                |                  |
| <b>Water Reserves and Rates</b>                           |                      |                          |                  |                |                |                |                  |
| W1 4.3 Mil Gal Tank Maintenance and Repair                | 30,000               | 30,000                   |                  |                |                |                |                  |
| W3 Water Comprehensive Plan Update                        | 30,000               | 30,000                   |                  |                |                |                |                  |
| W5 Asbestos Water Main Replacement Prgm                   | 59,000               | 5,000                    | 3,000            | 9,000          | 42,000         |                |                  |
| W7 Fire Flow Loop - North Commercial Area                 | 400,000              |                          |                  |                | 70,000         | 330,000        |                  |
| <b>Total Water Reserves &amp; Rates</b>                   | <b>519,000</b>       | <b>65,000</b>            | <b>3,000</b>     | <b>9,000</b>   | <b>112,000</b> | <b>330,000</b> |                  |
| <b>Water System &amp; Facilities Funding Agmt (WSFFA)</b> |                      |                          |                  |                |                |                |                  |
| W2 Springs & Transmission Reconstruction                  | 2,956,000            | 465,000                  | 2,491,000        |                |                |                |                  |
| <b>Total WSFFA Funds</b>                                  | <b>2,956,000</b>     | <b>465,000</b>           | <b>2,491,000</b> |                |                |                |                  |
| <b>Grant Funding</b>                                      |                      |                          |                  |                |                |                |                  |
| W4 Salmon Mitigation (Salmon Enhancement)                 | 540,000              |                          |                  |                |                |                | 540,000          |
| W4 Green Energy (Salmon Enhancement)                      | 550,000              |                          |                  |                | 40,000         |                | 510,000          |
| W5 CDBG Grant (Asbestos Replacement Prgm)                 | 476,000              |                          |                  | 90,000         | 386,000        |                |                  |
| <b>Total Grant Funding</b>                                | <b>1,566,000</b>     |                          |                  | <b>90,000</b>  | <b>426,000</b> |                | <b>1,050,000</b> |
| <b>Loans</b>  |                      |                          |                  |                |                |                |                  |
| W4 PWTF Loan (Salmon Enhancement)                         | 302,000              |                          |                  | 77,000         | 15,000         | 210,000        |                  |
| W6 PWTF Loan (0.5 MG Water Reservoir Recoat)              | 215,000              |                          | 20,000           | 195,000        |                |                |                  |
| <b>Total PWTF Loan</b>                                    | <b>517,000</b>       |                          | <b>20,000</b>    | <b>272,000</b> | <b>15,000</b>  | <b>210,000</b> |                  |
| <b>Developer Funding</b>                                  |                      |                          |                  |                |                |                |                  |
| W7 Fire Flow Loop - North Commercial Area                 | 400,000              |                          |                  |                | 70,000         | 330,000        |                  |
| <b>Total Developer Funding</b>                            | <b>400,000</b>       |                          |                  |                | <b>70,000</b>  | <b>330,000</b> |                  |
| <b>TOTAL ESTIMATED FUNDING SOURCES</b>                    | <b>5,958,000</b>     | <b>530,000</b>           | <b>2,514,000</b> | <b>371,000</b> | <b>623,000</b> | <b>870,000</b> | <b>1,050,000</b> |



**Sewer Department** **S1**

**Upgrade Facilities Staff Facility**

**DESCRIPTION** Provide locker room, boot / rain / safety gear room, shower and cleanup facility. Install security fencing around the facility with automated gates.

**BACKGROUND** Staff has one small bathroom that is too small to change clothes, needs more room for gear storage, need a place to wash down when they get too muddy or contaminated from various materials in the course of their work. This project is being charged primarily to sewer as the need to shower and clean up is usually related to sewer work. The other major need is for fencing around the Public Works Facility for safety and security reasons.

| <b>CAPITAL PROJECT COSTS</b> | <b>Total \$<br/>2017 - 2022</b> | <b>2017</b>   | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>2021</b> | <b>2022</b> |
|------------------------------|---------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|
| In house design & permitting | 1,000                           | 1,000         |             |             |             |             |             |
| Remodel costs                | 14,000                          | 14,000        |             |             |             |             |             |
| Fencing costs                | 39,000                          | 39,000        |             |             |             |             |             |
| Management / Administration  | 5,000                           | 5,000         |             |             |             |             |             |
| <b>TOTAL COSTS</b>           | <b>59,000</b>                   | <b>59,000</b> |             |             |             |             |             |
| <b>REQUESTED FUNDING</b>     |                                 |               |             |             |             |             |             |
| Water Department             | 10,000                          | 10,000        |             |             |             |             |             |
| Street Department            | 10,000                          | 10,000        |             |             |             |             |             |
| Stormwater Department        | 10,000                          | 10,000        |             |             |             |             |             |
| Sewer Funds.                 | 29,000                          | 29,000        |             |             |             |             |             |
| <b>TOTAL SOURCES</b>         | <b>59,000</b>                   | <b>59,000</b> |             |             |             |             |             |



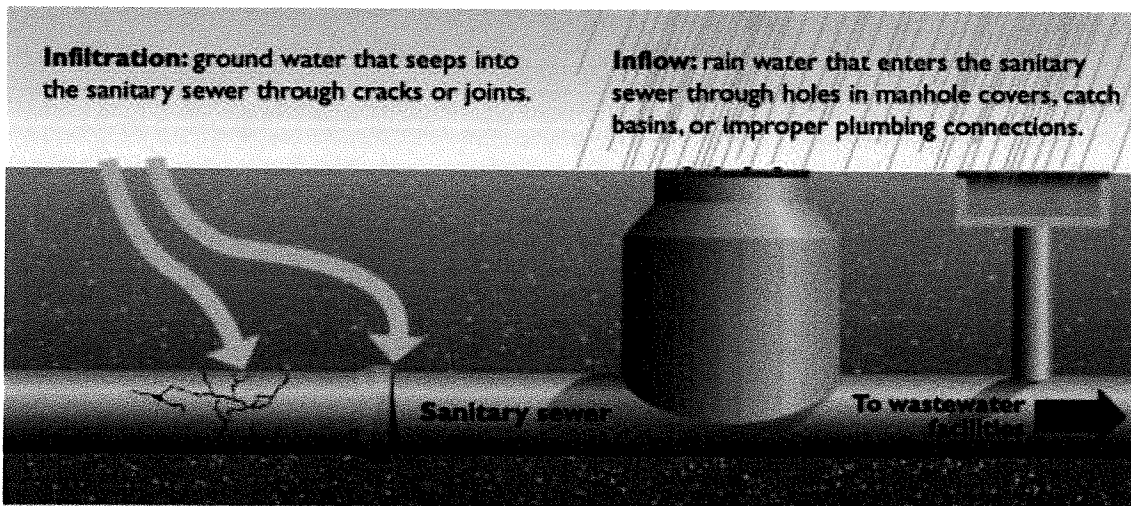
**Sewer Department** **S2**

**Infiltration and Inflow Reduction Program** **13.10**

**DESCRIPTION** This project funds any activities that reduce infiltration of groundwater or inflow of stormwater into the sewer system such as: TV inspections, smoke testing, flow monitoring, and then Repair Work such as: pipe rehabilitation, sealing, requiring private line replacement, manhole repair and sewer line replacement.

**BACKGROUND** The City needs to reduce the infiltration and inflow as good stewardship and maintenance of the existing sewer system. The City also desires to preserve and recapture capacity in the wastewater system by reducing and controlling the peak flows. The City will continue to monitor the expense and effectiveness of this program.

| CAPITAL PROJECT COSTS       | Total \$<br>2017 - 2022 | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
|-----------------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Management / Administration | 30,000                  | 5,000         | 5,000         | 5,000         | 5,000         | 5,000         | 5,000         |
| Design & Construction       | 120,000                 | 20,000        | 20,000        | 20,000        | 20,000        | 20,000        | 20,000        |
| <b>TOTAL COSTS</b>          | <b>150,000</b>          | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> |
| <b>REQUESTED FUNDING</b>    |                         |               |               |               |               |               |               |
| Sewer Reserve               | 150,000                 | 25,000        | 25,000        | 25,000        | 25,000        | 25,000        | 25,000        |
| <b>TOTAL SOURCES</b>        | <b>150,000</b>          | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> |



**Sewer Department** **S3**

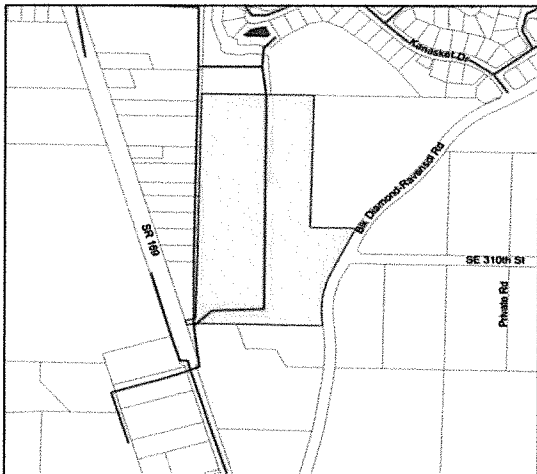
**Cedarbrook Sewer Main** **13.11**

**DESCRIPTION** Acquire City easement through the trailer park. Rehabilitate or reconstruct the existing sewer main to provide reliable public sewer service to the customers in the north east portion of the City.

**BACKGROUND** This project is necessary to reduce infiltration and Inflow and to eliminate the maintenance problems caused by the settled sections of sewer main.

**COMMENTS** Portions of the existing sewer main will have to reconstructed other section might be just repaired. The budget has been increased to reflect the cost of reconstructing portion of the sewer. A 20 year Public Works Trust Fund Loan will generate a debt payment of \$13,853.83 per year at 1%.

| CAPITAL PROJECT COSTS             | Total \$<br>2017 - 2022 | 2017          | 2018           | 2019          | 2020          | 2021          | 2022          |
|-----------------------------------|-------------------------|---------------|----------------|---------------|---------------|---------------|---------------|
| Prelim Engineering & Legal        | 30,000                  | 30,000        |                |               |               |               |               |
| Design Engineering                | 50,000                  |               | 50,000         |               |               |               |               |
| Construction Costs                | 235,000                 |               | 235,000        |               |               |               |               |
| Management / Administration       | 15,000                  | 5,000         | 10,000         |               |               |               |               |
| <b>TOTAL COSTS</b>                | <b>330,000</b>          | <b>35,000</b> | <b>295,000</b> |               |               |               |               |
| <b>REQUESTED FUNDING</b>          |                         |               |                |               |               |               |               |
| Public Works Trust Fund Loan      | 330,000                 | 35,000        | 295,000        |               |               |               |               |
| <b>TOTAL SOURCES</b>              | <b>330,000</b>          | <b>35,000</b> | <b>295,000</b> |               |               |               |               |
| <b>PWTF Loan Repay</b>            |                         |               |                |               |               |               |               |
| Sewer Fund                        | 69,270                  |               | 13,854         | 13,854        | 13,854        | 13,854        | 13,854        |
| <b>Total Debt under Timeframe</b> | <b>69,270</b>           |               | <b>13,854</b>  | <b>13,854</b> | <b>13,854</b> | <b>13,854</b> | <b>13,854</b> |



**Sewer Department** **S4**

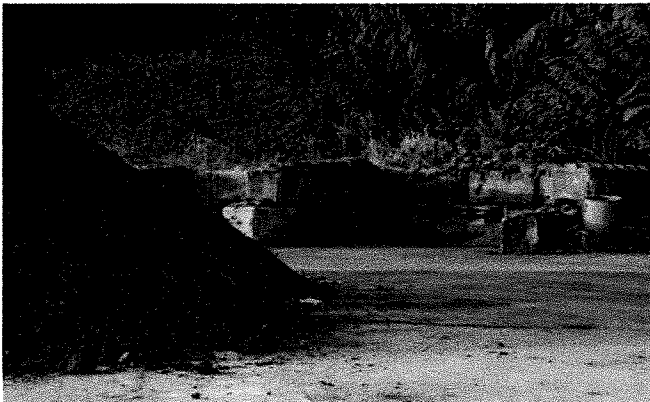
**Materials Handling Facility** **13.13**

**DESCRIPTION** Construct a Materials Handling site for composting soil and organic material for re-use, storage of street waste for disposal, storage of woody debris and dewater vector material. The site will need sanitary sewer connection, a shed to keep contaminated materials out of the rain.

**BACKGROUND** When the City sells the sewer lagoon back to Palmer Coking Coal as per the purchase and sale agreement, the City will need to either lease the site for a while longer but will need to look for a better long term solution for this need.

**COMMENTS** Two other options are: 1) a joint facility with Covington, Maple Valley, King County and perhaps, WSDOT , 2) designing, permitting and constructing a facility between the gym and the public works buildings.

| CAPITAL PROJECT COSTS         | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019          | 2020           | 2021 | 2022 |
|-------------------------------|-------------------------|------|------|---------------|----------------|------|------|
| Study and interlocal coord    | 10,000                  |      |      | 10,000        |                |      |      |
| Engineering and Environmental | 20,000                  |      |      |               | 20,000         |      |      |
| Property Purchase             |                         |      |      |               |                |      |      |
| Construction Costs            | 330,000                 |      |      |               | 330,000        |      |      |
| <b>TOTAL COSTS</b>            | <b>360,000</b>          |      |      | <b>10,000</b> | <b>350,000</b> |      |      |
| <b>REQUESTED FUNDING</b>      |                         |      |      |               |                |      |      |
| Sewer Funds                   | 12,000                  |      |      | 2,000         | 10,000         |      |      |
| Water Department              | 12,000                  |      |      | 2,000         | 10,000         |      |      |
| Parks & Cemetery              | 12,000                  |      |      | 2,000         | 10,000         |      |      |
| Street Department             | 12,000                  |      |      | 2,000         | 10,000         |      |      |
| Stormwater Department         | 12,000                  |      |      | 2,000         | 10,000         |      |      |
| Grant                         | 300,000                 |      |      |               | 300,000        |      |      |
| <b>TOTAL SOURCES</b>          | <b>360,000</b>          |      |      | <b>10,000</b> | <b>350,000</b> |      |      |



**Sewer Department** **S5**

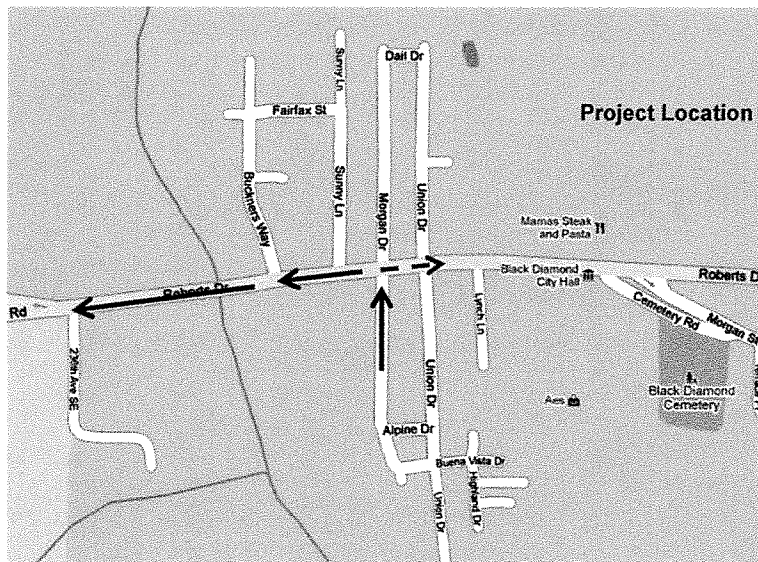
**Morganville Force Main Reroute** **13.12**

**DESCRIPTION** Reroute the flows from the Morgan Street Sewer pump station from pumping to the Jones Lake Pump Station to pump to the new King County western storage facility. The new force main will be about 3500 feet from Morgan Street west along Roberts Drive and northwest along Lake Sawyer Road East.

**BACKGROUND** This project was programmed to provide capacity for infill in the old part of Black Diamond and save energy from pumping sewage twice. The need has diminished because of King County approval of a regional discharge location in the western part of Black Diamond, additional capacity from obstruction removal on our main trunk line and with the verification excellent pipe condition and capacity of our main trunk line. The priority of this project will also be affected, if Infiltration and Inflow can be reduced further.

**COMMENTS** A Public Works Trust Fund Loan of 20 years generates a debt payment of \$24,382.74 per year at 1%. This project is shifted to later years because of the lower priority as described above.

| CAPITAL PROJECT COSTS                    | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019 | 2020 | 2021          | 2022           |
|--|-------------------------|------|------|------|------|---------------|----------------|
| Preliminary Engineering                  | 20,000                  |      |      |      |      | 20,000        |                |
| Design Engineering                       | 40,000                  |      |      |      |      |               | 40,000         |
| Construction Costs                       | 380,000                 |      |      |      |      |               | 380,000        |
| Management / Administration              | 20,000                  |      |      |      |      |               | 20,000         |
| <b>TOTAL COSTS</b>                       | <b>460,000</b>          |      |      |      |      | <b>20,000</b> | <b>440,000</b> |
| <b>REQUESTED FUNDING</b>                 |                         |      |      |      |      |               |                |
| Sewer Reserve                            | 20,000                  |      |      |      |      | 20,000        |                |
| PWTF Loan                                | 440,000                 |      |      |      |      |               | 440,000        |
| <b>TOTAL SOURCES</b>                     | <b>460,000</b>          |      |      |      |      | <b>20,000</b> | <b>440,000</b> |
| <b>PWTF Loan Repay</b><br>Begins in 2023 |                         |      |      |      |      |               |                |



## Sewer Department

S6

### Equipment Replacement Program

**DESCRIPTION**

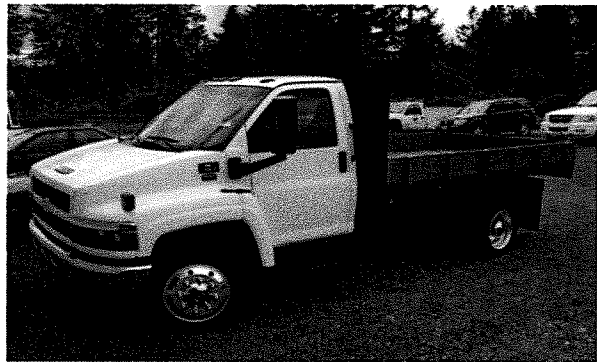
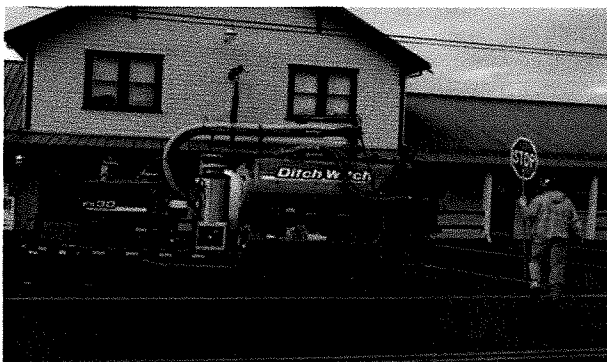
Replace and purchase new equipment as needed for the City Public Works needs, with regular, fairly distributed, expenses to the various departments.

**BACKGROUND**

The current funding level which has been in place for about 10 years appears to be enough to meet the current needs of the department. No adjustment are currently being recommended.

| CAPITAL PROJECT COSTS          | Total \$<br>2017 - 2022 | 2017          | 2018           | 2019           | 2020          | 2021          | 2022          |
|--------------------------------|-------------------------|---------------|----------------|----------------|---------------|---------------|---------------|
| Contribution to Equipment Fund | 282,000                 | 47,000        | 47,000         | 47,000         | 47,000        | 47,000        | 47,000        |
| <b>TOTAL COSTS</b>             | <b>282,000</b>          | <b>47,000</b> | <b>47,000</b>  | <b>47,000</b>  | <b>47,000</b> | <b>47,000</b> | <b>47,000</b> |
| <b>REQUESTED FUNDING</b>       |                         |               |                |                |               |               |               |
| Water Department               | 60,000                  | 10,000        | 10,000         | 10,000         | 10,000        | 10,000        | 10,000        |
| Sewer Department               | 60,000                  | 10,000        | 10,000         | 10,000         | 10,000        | 10,000        | 10,000        |
| Stormwater Department          | 60,000                  | 10,000        | 10,000         | 10,000         | 10,000        | 10,000        | 10,000        |
| Street Department              | 60,000                  | 10,000        | 10,000         | 10,000         | 10,000        | 10,000        | 10,000        |
| Parks/ Cemetery                | 42,000                  | 7,000         | 7,000          | 7,000          | 7,000         | 7,000         | 7,000         |
| <b>TOTAL SOURCES</b>           | <b>282,000</b>          | <b>47,000</b> | <b>143,018</b> | <b>143,019</b> | <b>47,000</b> | <b>47,000</b> | <b>47,000</b> |

| Public Works Equipment Replacement Plan   | 2017             | 2018             | 2019              | 2020             | 2021             | 2022        |
|---|------------------|------------------|-------------------|------------------|------------------|-------------|
| Replace John Deere Riding Mower           | 15,000           |                  |                   |                  |                  |             |
| Back Hoe Tune Up                          | 10,000           |                  |                   |                  |                  |             |
| Replace Ferris zero turn Mower            |                  | 12,000           |                   |                  |                  |             |
| 1/2 Ton Utility Truck 4X4                 |                  | 40,000           |                   |                  |                  |             |
| Sewer Jet Rodder major maintenance        |                  | 20,000           |                   |                  |                  |             |
| 1998 White Ford PU Truck Replace          |                  |                  |                   |                  | 50,000           |             |
| Cemetery Casket Lowering Device & Carport |                  | 5,000            |                   |                  |                  |             |
| Mini Track Hoe                            |                  |                  | 130,000           |                  |                  |             |
| 2005 White Chevy 4X4 Replace              |                  |                  |                   | 40,000           |                  |             |
| <b>Totals</b>                             | <b>\$ 25,000</b> | <b>\$ 77,000</b> | <b>\$ 130,000</b> | <b>\$ 40,000</b> | <b>\$ 50,000</b> | <b>\$ -</b> |



## Sewer Department CAPITAL PROJECT SUMMARY

| Summary By Project                                |                         | Capital Plan 2017 - 2022 |                |               |                |               |                |
|---|-------------------------|--------------------------|----------------|---------------|----------------|---------------|----------------|
| Project Title                                     | Total \$<br>2017 - 2022 | 2017                     | 2018           | 2019          | 2020           | 2021          | 2022           |
| S1 Upgrade Utility Staff Facilities               | 59,000                  | 59,000                   |                |               |                |               |                |
| S2 Infiltration and Inflow Reduction              | 150,000                 | 25,000                   | 25,000         | 25,000        | 25,000         | 25,000        | 25,000         |
| S3 Cedarbrook Sewer Main                          | 330,000                 | 35,000                   | 295,000        |               |                |               |                |
| S4 Materials Handling Facility                    | 360,000                 |                          |                | 10,000        | 350,000        |               |                |
| S5 Morganville Force Main Reroute                 | 460,000                 |                          |                |               |                | 20,000        | 440,000        |
| S6 Equipment Replacement                          | 282,000                 | 47,000                   | 47,000         | 47,000        | 47,000         | 47,000        | 47,000         |
| <b>TOTAL ESTIMATED COSTS</b>                      | <b>1,641,000</b>        | <b>166,000</b>           | <b>367,000</b> | <b>82,000</b> | <b>422,000</b> | <b>92,000</b> | <b>512,000</b> |
| <b>Funding Sources</b>                            |                         |                          |                |               |                |               |                |
| <b>PWTF Loan Funding</b>                          |                         |                          |                |               |                |               |                |
| S3 Cedarbrook Sewer Main                          | 330,000                 | 35,000                   | 295,000        |               |                |               |                |
| S5 Morganville Force Main Reroute                 | 440,000                 |                          |                |               |                |               | 440,000        |
| <b>Total PWTF Funding</b>                         | <b>770,000</b>          | <b>35,000</b>            | <b>295,000</b> |               |                |               | <b>440,000</b> |
| <b>Grants</b>                                     |                         |                          |                |               |                |               |                |
| S4 Materials Handling Facility                    | 300,000                 |                          |                |               | 300,000        |               |                |
| <b>Total Grants</b>                               | <b>300,000</b>          |                          |                |               | <b>300,000</b> |               |                |
| <b>Sewer Reserves</b>                             |                         |                          |                |               |                |               |                |
| S1 Upgrade Utility Staff Facilities               | 29,000                  | 29,000                   |                |               |                |               |                |
| S2 Infiltration and Inflow Reduction              | 150,000                 | 25,000                   | 25,000         | 25,000        | 25,000         | 25,000        | 25,000         |
| S4 Materials Handling Facility                    | 12,000                  |                          |                | 2,000         | 10,000         |               |                |
| S5 Morganville Force Main Reroute                 | 20,000                  |                          |                |               |                | 20,000        |                |
| S6 Equipment Replacement                          | 60,000                  | 10,000                   | 10,000         | 10,000        | 10,000         | 10,000        | 10,000         |
| <b>Total Sewer Reserves</b>                       | <b>271,000</b>          | <b>64,000</b>            | <b>35,000</b>  | <b>37,000</b> | <b>45,000</b>  | <b>55,000</b> | <b>35,000</b>  |
| <b>Contributions from other Departments</b>       |                         |                          |                |               |                |               |                |
| S1 Upgrade Utility Staff Facilities               | 30,000                  | 30,000                   |                |               |                |               |                |
| S4 Materials Handling Facility                    | 48,000                  |                          |                | 8,000         | 40,000         |               |                |
| S6 Equipment Replacement                          | 222,000                 | 37,000                   | 37,000         | 37,000        | 37,000         | 37,000        | 37,000         |
| <b>Total Contributions from Other Departments</b> | <b>300,000</b>          | <b>67,000</b>            | <b>37,000</b>  | <b>45,000</b> | <b>77,000</b>  | <b>37,000</b> | <b>37,000</b>  |
| <b>TOTAL ESTIMATED FUNDING SOURCES</b>            | <b>1,641,000</b>        | <b>166,000</b>           | <b>367,000</b> | <b>82,000</b> | <b>422,000</b> | <b>92,000</b> | <b>512,000</b> |
| <b>DEBT SERVICE</b>                               |                         |                          |                |               |                |               |                |
| S3 Cedarbrook Sewer Main                          | 69,270                  |                          | 13,854         | 13,854        | 13,854         | 13,854        | 13,854         |
| <b>TOTAL DEBT SERVICE</b>                         | <b>69,270</b>           |                          | <b>13,854</b>  | <b>13,854</b> | <b>13,854</b>  | <b>13,854</b> | <b>13,854</b>  |

**Stormwater Department** **D1**

**Lawson Hills Estates Storm Pond** 15.01

**DESCRIPTION** Reduce the scope of this project from constructing a maintenance access road to bringing in special equipment to remove the sediment and re-establish the treatment flow regime.

**BACKGROUND** In preliminary design and project planning, the City considered the cost and benefit of constructing a maintenance access as compared to bringing in an excavator to remove the sediment from the bottom of the pond and re-establishing the effectiveness of the storm pond. Given that the frequency of removing sediment is expected to be on the order of 20 years, this simplified approach is more cost effective.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 - 2022 | 2017          | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------|-------------------------|---------------|------|------|------|------|------|
| Construction             | 10,000                  | 10,000        |      |      |      |      |      |
| <b>TOTAL COSTS</b>       | <b>10,000</b>           | <b>10,000</b> |      |      |      |      |      |
| <b>REQUESTED FUNDING</b> |                         |               |      |      |      |      |      |
| Stormwater Funds         | 10,000                  | 10,000        |      |      |      |      |      |
| <b>TOTAL SOURCES</b>     | <b>10,000</b>           | <b>10,000</b> |      |      |      |      |      |





**Stormwater Department** **D2**

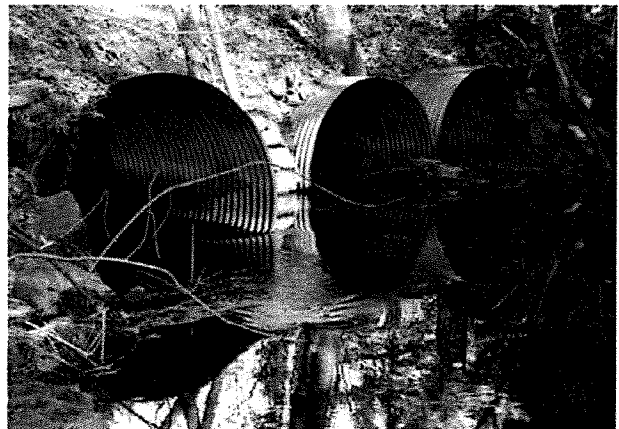
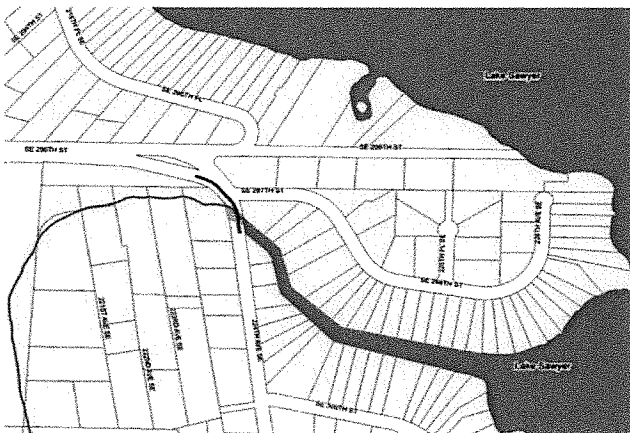
**Replace Covington Creek Culverts** 13.14

**DESCRIPTION** Replace the three 5 foot diameter culverts with an open bottom concrete box culvert.

**BACKGROUND** The summer 2012 inspections found the culverts are nearing the end of their useful life and have serious corrosion and pitting in the lower third of the culverts and a few areas where corrosion has opened holes in the culvert. The three culverts divide the small summer flow leaving only a small amount of water for fish passage.

**COMMENTS** Grant Funding has been obtained from the King County Flood Control District for the design phase. The City will continue to seek grant funding for the construction and completion of the project.

| CAPITAL PROJECT COSTS       | Total \$<br>2017 - 2022 | 2017          | 2018           | 2019 | 2020 | 2021 | 2022 |
|-----------------------------|-------------------------|---------------|----------------|------|------|------|------|
| Design Engineering          | 12,000                  | 12,000        |                |      |      |      |      |
| Construction                | 545,000                 |               | 545,000        |      |      |      |      |
| Management / Administration | 80,000                  | 10,000        | 70,000         |      |      |      |      |
| <b>TOTAL COSTS</b>          | <b>637,000</b>          | <b>22,000</b> | <b>615,000</b> |      |      |      |      |
| <b>REQUESTED FUNDING</b>    |                         |               |                |      |      |      |      |
| Grant Funding               | 637,000                 | 22,000        | 615,000        |      |      |      |      |
| <b>TOTAL SOURCES</b>        | <b>637,000</b>          | <b>22,000</b> | <b>615,000</b> |      |      |      |      |



**Stormwater Department** **D3**

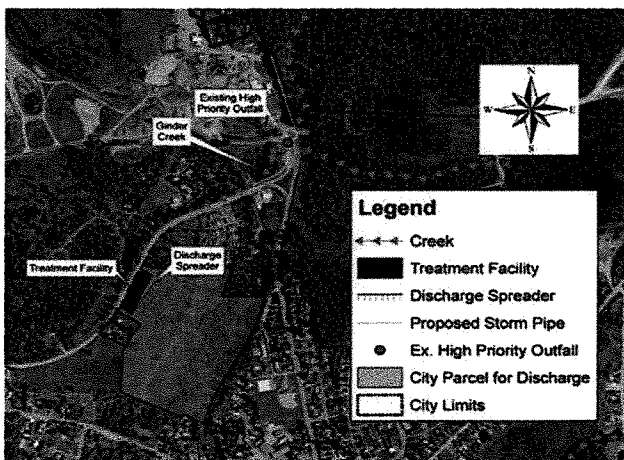
**North Commercial and SR 169 Stormwater Treatment Pond** 13.15

**DESCRIPTION** Collect storm water runoff from the main commercial area in north Black Diamond and from State Route 169 and route to city property north of the library. Construct a wet pond or vault for pre-treatment followed by constructed wetlands to dispersion trenches for discharge to upland above Ginder Creek.

**BACKGROUND** Whereas there is a total maximum daily load (TMDL) on Lake Sawyer for phosphorous, the city should look for opportunities to reduce phosphorous inputs from existing untreated stormwater discharges. Stormwater outfall discharges from the commercial area and the state route appear to have the highest pollutant loadings as compared to other City stormwater outfalls.

**COMMENTS** The City obtained a grant from the Department of Ecology for the design of this project. With a completed design at 90%, the City will have a well defined project and will use the detailed information to improve grant applications.

| CAPITAL PROJECT COSTS              | Total \$<br>2017 - 2022 | 2017          | 2018           | 2019 | 2020 | 2021 | 2022 |
|------------------------------------|-------------------------|---------------|----------------|------|------|------|------|
| Final Engineering Prepare Bid Docs | 20,000                  | 20,000        |                |      |      |      |      |
| Construction                       | 850,000                 |               | 850,000        |      |      |      |      |
| Management / Administration        | 40,000                  | 5,000         | 35,000         |      |      |      |      |
| <b>TOTAL COSTS</b>                 | <b>910,000</b>          | <b>25,000</b> | <b>885,000</b> |      |      |      |      |
| <b>REQUESTED FUNDING</b>           |                         |               |                |      |      |      |      |
| Opportunity funds BD set aside     | 60,000                  | 25,000        | 35,000         |      |      |      |      |
| Grant Funding                      | 850,000                 |               | 850,000        |      |      |      |      |
| <b>TOTAL SOURCES</b>               | <b>910,000</b>          | <b>25,000</b> | <b>885,000</b> |      |      |      |      |



**Stormwater Department** **D4**

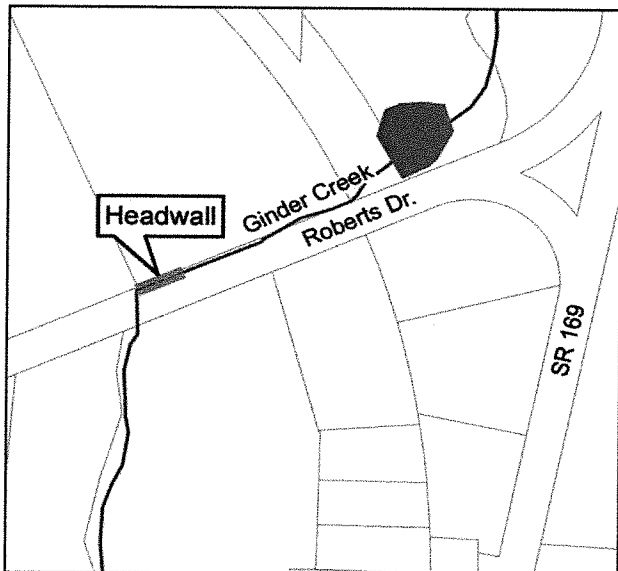
**Ginder Creek Headwall** 14.16

**DESCRIPTION** Reconstruct an 80 foot section of the Ginder Creek Headwall along the north side of Roberts Drive

**BACKGROUND** The base of the existing concrete headwall was not constructed deep enough so that high flows in Ginder Creek have undermined the headwall destabilizing the wall. The headwall has been slowly tilting into the Creek. Staff has braced the headwall as an interim step to hold the wall in position.

**COMMENTS** This project is needed to protect the roadway and prevent the erosion that would occur if the headwall tipped over. A significant amount of the cost of this project will be related to environmental permitting. This project may get rolled into a larger street reconstruction project if street grants are obtained for this road segment.

| CAPITAL PROJECT COSTS           | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019          | 2020          | 2021 | 2022 |
|---------------------------------|-------------------------|------|------|---------------|---------------|------|------|
| Preliminary Engineer/Permitting | 25,000                  |      |      | 25,000        |               |      |      |
| Design Engineering              | 10,000                  |      |      | 10,000        |               |      |      |
| Construction                    | 45,000                  |      |      |               | 45,000        |      |      |
| Management / Administration     | 10,000                  |      |      | 5,000         | 5,000         |      |      |
| <b>TOTAL COSTS</b>              | <b>90,000</b>           |      |      | <b>40,000</b> | <b>50,000</b> |      |      |
| <b>REQUESTED FUNDING</b>        |                         |      |      |               |               |      |      |
| Grant                           | 45,000                  |      |      | 20,000        | 25,000        |      |      |
| Grant Matching                  | 45,000                  |      |      | 20,000        | 25,000        |      |      |
| <b>TOTAL SOURCES</b>            | <b>90,000</b>           |      |      | <b>40,000</b> | <b>50,000</b> |      |      |



## Stormwater Department

**D5**

### Lawson Hills Stormwater Ponds

**DESCRIPTION**

Reconstruct the two stormwater ponds in Lawson Hills estates to eliminate the conflicts of stormwater treatment and detention from the recreational use.

**BACKGROUND**

The original intent of these storm ponds was to provide joint use for homeowner association provided recreation facilities and City provided stormwater detention and treatment facilities. The configuration hasn't worked very well for stormwater or for recreation. The City would like to work with the Homeowners association to put the stormwater facilities underground so that the surface of the lots will be well drained and available for year around recreation and open space for the neighborhood.

**COMMENTS**

This project would make the stormwater system and the surface park easier to maintain for both agencies.

| CAPITAL PROJECT COSTS       | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022           |
|-----------------------------|-------------------------|------|------|------|------|------|----------------|
| In House Design/ Mgmt       | 15,000                  |      |      |      |      |      | 15,000         |
| Construction                | 120,000                 |      |      |      |      |      | 120,000        |
| Management / Administration | 5,000                   |      |      |      |      |      | 5,000          |
| <b>TOTAL COSTS</b>          | <b>140,000</b>          |      |      |      |      |      | <b>140,000</b> |
| <b>REQUESTED FUNDING</b>    |                         |      |      |      |      |      |                |
| Stormwater Funds            | 140,000                 |      |      |      |      |      | 140,000        |
| <b>TOTAL SOURCES</b>        | <b>140,000</b>          |      |      |      |      |      | <b>140,000</b> |



**Stormwater Department** **D6**

**Replace Diamond Glen Storm Pond**

**DESCRIPTION** If the new regional stormwater facility is constructed for the North Villages Commercial area, divert stormwater from the Diamond Glen local stormwater pond to the regional stormwater facility.

**BACKGROUND** Many small stormwater facilities increase the City maintenance costs. Providing a commensurate amount of storage and treatment in the larger regional stormwater pond to the west would allow the land to be reclaimed for a residential lot, improve the neighborhood and lower maintenance costs.

**COMMENTS** Legal and planning issues must be addressed before the City property can be sold.

| CAPITAL PROJECT COSTS         | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022          |
|-------------------------------|-------------------------|------|------|------|------|------|---------------|
| Pay for offsite pond capacity | 15,000                  |      |      |      |      |      | 15,000        |
| Design and Bid                | 10,000                  |      |      |      |      |      | 10,000        |
| Construction                  | 20,000                  |      |      |      |      |      | 20,000        |
| Management / Administration   | 5,000                   |      |      |      |      |      | 5,000         |
| Return funds to Operations    | 30,000                  |      |      |      |      |      | 30,000        |
| <b>TOTAL COSTS</b>            | <b>80,000</b>           |      |      |      |      |      | <b>80,000</b> |
| <b>REQUESTED FUNDING</b>      |                         |      |      |      |      |      |               |
| Sale of Lot                   | 80,000                  |      |      |      |      |      | 80,000        |
| <b>TOTAL SOURCES</b>          | <b>80,000</b>           |      |      |      |      |      | <b>80,000</b> |



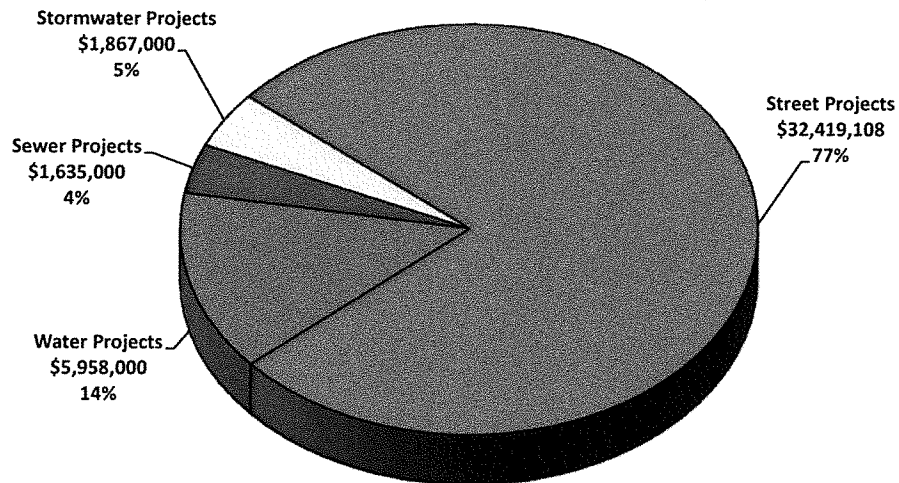
## Stormwater Department CAPITAL PROJECT FUNDING SUMMARY

| Summary by Project                              |                         | Capital Plan 2017 - 2022 |                  |               |               |      |                |
|---|-------------------------|--------------------------|------------------|---------------|---------------|------|----------------|
| Project Title                                   | Total \$<br>2017 - 2022 | 2017                     | 2018             | 2019          | 2020          | 2021 | 2022           |
| D1 Lawson Hills Storm Pond Sediment Removal     | 10,000                  | 10,000                   |                  |               |               |      |                |
| D2 Replace Covington Creek Culverts             | 637,000                 | 22,000                   | 615,000          |               |               |      |                |
| D3 N. Commercial St 169 Stormwater Improvements | 910,000                 | 25,000                   | 885,000          |               |               |      |                |
| D4 Ginder Creek Headwall                        | 90,000                  |                          |                  | 40,000        | 50,000        |      |                |
| D5 Lawson Hills Stormwater Pond Improvement     | 140,000                 |                          |                  |               |               |      | 140,000        |
| D6 Replace Diamond Glen Storm Pond              | 80,000                  |                          |                  |               |               |      | 80,000         |
| <b>TOTAL ESTIMATED EXPENDITURES</b>             | <b>1,867,000</b>        | <b>57,000</b>            | <b>1,500,000</b> | <b>40,000</b> | <b>50,000</b> |      | <b>220,000</b> |
| <b>Funding Sources</b>                          |                         |                          |                  |               |               |      |                |
| <b>Grants</b>                                   |                         |                          |                  |               |               |      |                |
| D2 Replace Covington Creek Culverts             | 637,000                 | 22,000                   | 615,000          |               |               |      |                |
| D3 N. Commercial St 169 Stormwater Improvements | 850,000                 |                          | 850,000          |               |               |      |                |
| D4 Ginder Creek Headwall                        | 45,000                  |                          |                  | 20,000        | 25,000        |      |                |
| <b>Total Grants</b>                             | <b>1,532,000</b>        | <b>22,000</b>            | <b>1,465,000</b> | <b>20,000</b> | <b>25,000</b> |      |                |
| <b>Stormwater Funding</b>                       |                         |                          |                  |               |               |      |                |
| D1 Lawson Hills Storm Pond Sediment Removal     | 10,000                  | 10,000                   |                  |               |               |      |                |
| D5 Lawson Hills Stormwater Pond Improvement     | 140,000                 |                          |                  |               |               |      | 140,000        |
| <b>Total Stormwater Funding</b>                 | <b>150,000</b>          | <b>10,000</b>            |                  |               |               |      | <b>140,000</b> |
| <b>Sale of Land (Stormwater Funds)</b>          |                         |                          |                  |               |               |      |                |
| D6 Replace Diamond Glen Storm Pond              | 80,000                  |                          |                  |               |               |      | 80,000         |
| <b>Total Sale of Land</b>                       | <b>80,000</b>           |                          |                  |               |               |      | <b>80,000</b>  |
| <b>Real Estate Excise Tax 2</b>                 |                         |                          |                  |               |               |      |                |
| D3 N. Commercial St 169 Stormwater Improvements | 60,000                  | 25,000                   | 35,000           |               |               |      |                |
| <b>Total REET 2 Funding</b>                     | <b>60,000</b>           | <b>25,000</b>            | <b>35,000</b>    |               |               |      |                |
| <b>Grant Matching</b>                           |                         |                          |                  |               |               |      |                |
| D4 Ginder Creek Headwall                        | 45,000                  |                          |                  | 20,000        | 25,000        |      |                |
| <b>Total Grant Matching</b>                     | <b>45,000</b>           |                          |                  | <b>20,000</b> | <b>25,000</b> |      |                |
| <b>TOTAL ESTIMATED FUNDING SOURCES</b>          | <b>1,867,000</b>        | <b>57,000</b>            | <b>1,500,000</b> | <b>40,000</b> | <b>50,000</b> |      | <b>220,000</b> |

**Public Works Fund Summary**  
**Capital Improvement Plan 2017 - 2022**

| Funds                      | Total \$ Project<br>2017 - 2022 | 2017               | 2018               | 2019               | 2020               | 2021                | 2022               |
|----------------------------|---------------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
| Street Projects            | 32,419,108                      | 7,528,108          | 3,851,000          | 3,810,000          | 6,660,000          | 9,100,000           | 1,470,000          |
| Water Projects             | 5,958,000                       | 530,000            | 2,514,000          | 371,000            | 623,000            | 870,000             | 1,050,000          |
| Sewer Projects             | 1,635,000                       | 160,000            | 367,000            | 82,000             | 422,000            | 92,000              | 512,000            |
| Stormwater Projects        | 1,867,000                       | 57,000             | 1,500,000          | 40,000             | 50,000             |                     | 220,000            |
| <b>TOTAL Project COSTS</b> | <b>\$ 41,879,108</b>            | <b>\$8,275,108</b> | <b>\$8,232,000</b> | <b>\$4,303,000</b> | <b>\$7,755,000</b> | <b>\$10,062,000</b> | <b>\$3,252,000</b> |

**Public Works CIP by Fund**  
**Total: \$41,879,108**

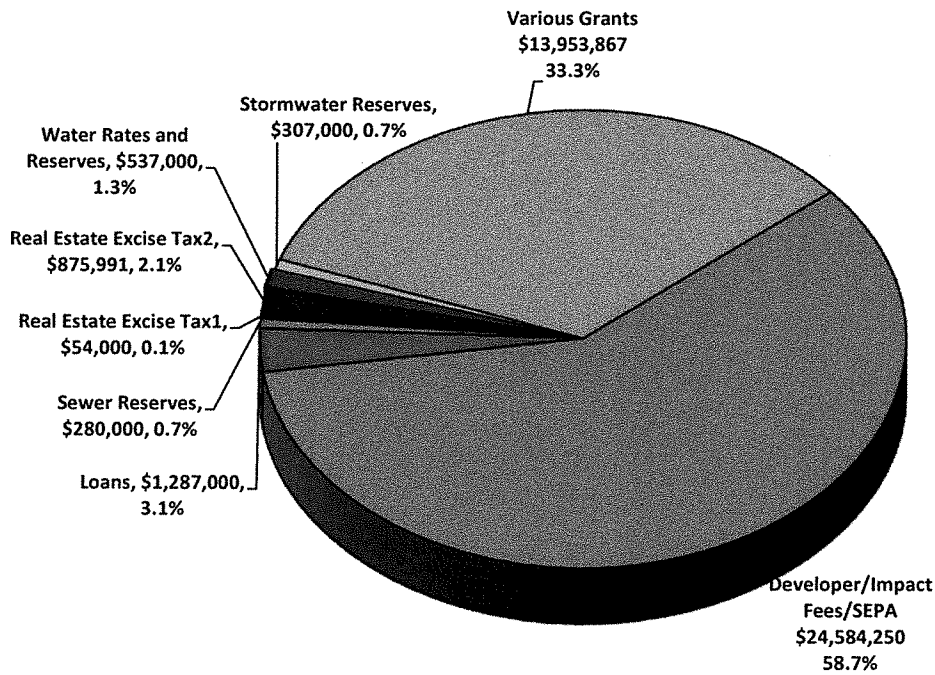


## CIP Public Works Revenue Summary

### Capital Improvement Plan 2017 - 2022

| REQUESTED FUNDING          | Total \$<br>Project<br>2017 - 2022 | 2017               | 2018               | 2019               | 2020               | 2021                | 2022               |
|----------------------------|------------------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
| Various Grants             | 13,953,867                         | 1,446,867          | 1,664,500          | 1,701,500          | 4,064,000          | 4,027,000           | 1,050,000          |
| Developer/Impact Fees/SEPA | 24,584,250                         | 6,417,250          | 6,022,000          | 2,080,000          | 3,335,000          | 5,330,000           | 1,400,000          |
| Loans                      | 1,287,000                          | 35,000             | 315,000            | 272,000            | 15,000             | 210,000             | 440,000            |
| Sewer Reserves             | 280,000                            | 73,000             | 35,000             | 37,000             | 45,000             | 55,000              | 35,000             |
| Real Estate Excise Tax 1   | 54,000                             | 7,000              | 7,000              | 9,000              | 17,000             | 7,000               | 7,000              |
| Real Estate Excise Tax 2   | 875,991                            | 195,991            | 168,500            | 179,500            | 169,000            | 83,000              | 80,000             |
| Water Rates and Reserves   | 537,000                            | 75,000             | 10,000             | 12,000             | 90,000             | 340,000             | 10,000             |
| Stormwater Reserves        | 307,000                            | 25,000             | 10,000             | 12,000             | 20,000             | 10,000              | 230,000            |
| <b>TOTAL SOURCES</b>       | <b>\$41,879,108</b>                | <b>\$8,275,108</b> | <b>\$8,232,000</b> | <b>\$4,303,000</b> | <b>\$7,755,000</b> | <b>\$10,062,000</b> | <b>\$3,252,000</b> |

**Public Works CIP by Type of Funding Total: \$41,879,108**





| <b>REET 2 ANALYSIS SUMMARY (Fund 320)</b>             |   |                |                |                |                |                |                |
|---|---|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Capital Improvement Plan 2017 - 2022</b>           |   |                |                |                |                |                |                |
| <b>REET 2 - REVENUE</b>                               | <b>Capital Improvement Plan 2017 - 2022</b> |                |                |                |                |                |                |
|   | <b>Total \$ Project</b>                     | <b>2017</b>    | <b>2018</b>    | <b>2019</b>    | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    |
|   | <b>2017 - 2022</b>                          |                |                |                |                |                |                |
| Beg Fund Balance 321                                  | 180,741                                     | 131,000        | 48,034         | 34,334         | 51,709         | 142,584        | 331,147        |
| <b>REET Revenue (annual)</b>                          |   |                |                |                |                |                |                |
| 1/4 of 1% REET - Existing Property                    | 631,138                                     | 71,775         | 87,300         | 103,125        | 115,500        | 123,438        | 130,000        |
| 1/4 of 1% REET - Other new homes                      | 570,000                                     | 41,250         | 67,500         | 93,750         | 144,375        | 148,125        | 75,000         |
| <b>Subtotal REET 2 Revenue</b>                        | <b>1,201,138</b>                            | <b>113,025</b> | <b>154,800</b> | <b>196,875</b> | <b>259,875</b> | <b>271,563</b> | <b>205,000</b> |
| <b>TOTAL Avail. Balance for Public Works Projects</b> | <b>1,381,879</b>                            | <b>244,025</b> | <b>202,834</b> | <b>231,209</b> | <b>311,584</b> | <b>414,147</b> | <b>536,147</b> |
| <b>REET 2 - PROJECT EXPENDITURES</b>                  | <b>Capital Improvement Plan 2017 - 2022</b> |                |                |                |                |                |                |
|   | <b>Total \$ Project</b>                     | <b>2017</b>    | <b>2018</b>    | <b>2019</b>    | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    |
| <b>Street Projects</b>                                |   |                |                |                |                |                |                |
| T1 General Street Improvement                         | 180,000                                     | 30,000         | 30,000         | 30,000         | 30,000         | 30,000         | 30,000         |
| T2 Roberts Drive Road Improvements                    | 25,991                                      | 25,991         |                |                |                |                |                |
| T5 224th Guardrail at Covington Creek                 | 25,000                                      |                | 25,000         |                |                |                |                |
| T6 224th Ave SE Asphalt Overlay                       | 45,000                                      | 45,000         |                |                |                |                |                |
| T8 Roberts Drive Rehabilitation Phase 2               | 25,500                                      |                | 25,500         |                |                |                |                |
| T9 232nd Ave Chip Seal                                | 10,000                                      | 10,000         |                |                |                |                |                |
| T10 Downtown Public Parking                           | 37,000                                      |                |                | 25,000         | 12,000         |                |                |
| T11 216th Ave SE Overlay                              | 27,000                                      |                |                | 27,000         |                |                |                |
| T13 Lawson Street Phase 1                             | 16,500                                      |                |                | 16,500         |                |                |                |
| T14 Grant Matching                                    | 240,000                                     | 40,000         | 40,000         | 40,000         | 40,000         | 40,000         | 40,000         |
| T16 Pedestrian and Bicycle Study                      | 3,000                                       |                |                |                |                | 3,000          |                |
| <b>Water</b>  |   |                |                |                |                |                |                |
| W5 Asbestos Water Main Replacement Prgm               | 59,000                                      | 5,000          | 3,000          | 9,000          | 42,000         |                |                |
| <b>Sewer</b>  |   |                |                |                |                |                |                |
| S1 Upgrade Utility Staff Facilities                   | 5,000                                       | 5,000          |                |                |                |                |                |
| S4 Material Handling Facility - Street                | 12,000                                      |                |                | 2,000          | 10,000         |                |                |
| S6 Equipment Replacement - Street                     | 60,000                                      | 10,000         | 10,000         | 10,000         | 10,000         | 10,000         | 10,000         |
| <b>Stormwater</b>                                     |   |                |                |                |                |                |                |
| D3 N. Commercial St 169 Stormwater Improvements       | 60,000                                      | 25,000         | 35,000         |                |                |                |                |
| D4 Fire Flow Loop - North Commercial Area             | 45,000                                      |                |                | 20,000         | 25,000         |                |                |
| <b>Total REET 2 Projects</b>                          | <b>875,991</b>                              | <b>195,991</b> | <b>168,500</b> | <b>179,500</b> | <b>169,000</b> | <b>83,000</b>  | <b>80,000</b>  |
| <b>REET 2 left for next year (Ending Balance)</b>     | <b>505,888</b>                              | <b>48,034</b>  | <b>34,334</b>  | <b>51,709</b>  | <b>142,584</b> | <b>331,147</b> | <b>456,147</b> |
| <b>REET based on Houses sold</b>                      |   | <b>2017</b>    | <b>2018</b>    | <b>2019</b>    | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    |
| Existing Property Sales (in 000's)                    |   | 87 @\$330      | 97 @\$360      | 110 @\$375     | 120 @\$385     | 125 @\$395     | 130 @\$400     |
| Other new home sales (in 000's)                       |   | 50 @\$330      | 75 @\$360      | 100 @\$375     | 150 @\$385     | 150 @\$395     | 75 @\$400      |

## Parks Department

P1

### Ginder Creek Trail and Site Restoration

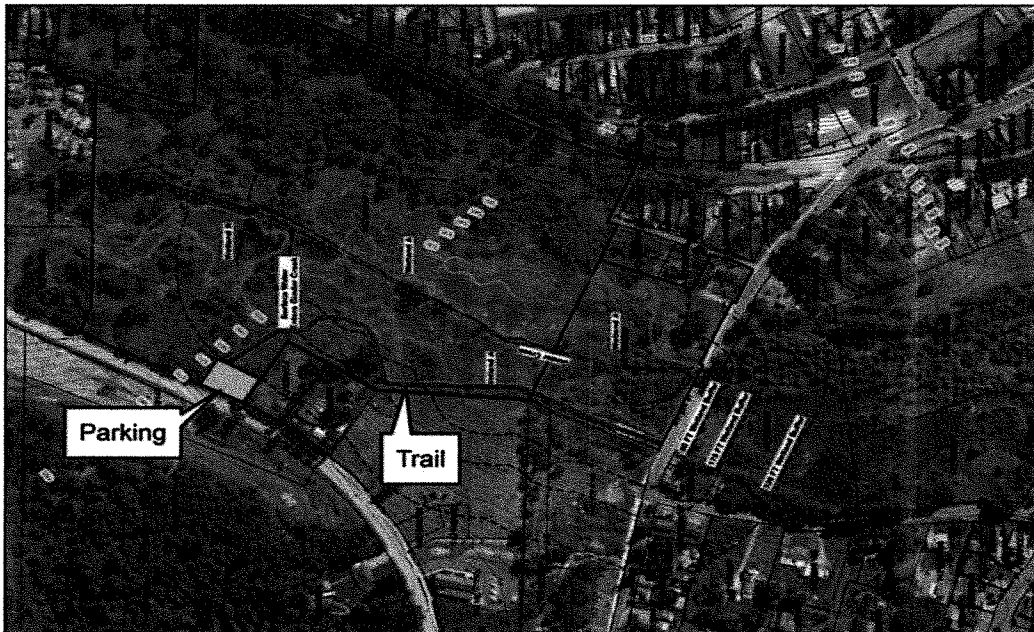
**DESCRIPTION**

Design and Construct a 1540 foot long 10 feet wide multi purpose trail and a small parking lot on Roberts Drive.

**BACKGROUND**

The City acquired the Ginder Creek parcel as a component to the Open Space Agreement signed in 2005. Initial planning efforts, work with the City Council, as well as public input has steered the Parks Department towards trail development along the Ginder Creek corridor. This area has historically been used for agricultural activities, but has since remained fallow, with the proliferation of invasive Reed Canary Grass, Evergreen Blackberry, and Scotch Broom. This trail will provide a north/south link from Roberts Drive to Morgan Street and provide the public the enjoyment of the natural area along Ginder Creek.

| CAPITAL PROJECT COSTS                | Total \$<br>2017 - 2022 | 2017 | 2018          | 2019 | 2020          | 2021           | 2022 |
|--------------------------------------|-------------------------|------|---------------|------|---------------|----------------|------|
| Property Acquisition                 | 60,000                  |      | 60,000        |      |               |                |      |
| Design and Permitting                | 40,000                  |      |               |      | 40,000        |                |      |
| Construction Costs                   | 310,000                 |      |               |      |               | 310,000        |      |
| Project Mgmt & Construction Inspect. | 30,000                  |      | 1,000         |      | 4,000         | 25,000         |      |
| Project Administration               | 5,000                   |      | 1,000         |      | 1,000         | 3,000          |      |
| <b>TOTAL COSTS</b>                   | <b>445,000</b>          |      | <b>62,000</b> |      | <b>45,000</b> | <b>338,000</b> |      |
| <b>REQUESTED FUNDING</b>             |                         |      |               |      |               |                |      |
| King County Tax Levy Funds           | 201,000                 |      | 32,000        |      |               | 169,000        |      |
| Rec Conserv. Office Grant (RCO)      | 214,000                 |      |               |      | 45,000        | 169,000        |      |
| Conservation Futures                 | 30,000                  |      | 30,000        |      |               |                |      |
| <b>TOTAL SOURCES</b>                 | <b>445,000</b>          |      | <b>62,000</b> |      | <b>45,000</b> | <b>338,000</b> |      |



**Cemetery**

**P2**

**New Niche Wall**

**DESCRIPTION**

Funds earmarked for matching grant resources to be utilized in the design and construction of Parks and Natural Resource projects.

| <b>CAPITAL PROJECT COSTS</b> | <b>Total \$<br/>2017 - 2022</b> | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>2020</b>  | <b>2021</b>  | <b>2022</b>  |
|------------------------------|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>COMMENTS</b>              |                                 |              |              |              |              |              |              |
| Grant Matching               | 25,000                          | 2,500        | 2,500        | 5,000        | 5,000        | 5,000        | 5,000        |
| <b>TOTAL COSTS</b>           | <b>25,000</b>                   | <b>2,500</b> | <b>2,500</b> | <b>5,000</b> | <b>5,000</b> | <b>5,000</b> | <b>5,000</b> |
| <b>REQUESTED FUNDING</b>     |                                 |              |              |              |              |              |              |
| Real Estate Excise Tax 1     | 25,000                          | 2,500        | 2,500        | 5,000        | 5,000        | 5,000        | 5,000        |
| <b>TOTAL SOURCES</b>         | <b>25,000</b>                   | <b>2,500</b> | <b>2,500</b> | <b>5,000</b> | <b>5,000</b> | <b>5,000</b> | <b>5,000</b> |

## Cemetery

P3

### New Niche Wall

**DESCRIPTION**

The City's Park Plan has expired. An update of the City's Comprehensive Parks, Recreation and Open Space Plan is needed for state grant eligibility towards trails, open space and park's infrastructure.

**BACKGROUND**

The last Parks Plan was developed by staff in late 2008. The Recreation and Conservation Office approved the plan and the City used the Parks Plan to support several grant applications and improvements throughout the City. Once the staffing level improves this Parks Planning update can be kicked off. It is expected that the City will need consultant assistance for about 50% of the park planning effort.

| CAPITAL PROJECT COSTS                 | Total \$<br>2017 - 2022 | 2017 | 2018          | 2019          | 2020 | 2021 | 2022 |
|---------------------------------------|-------------------------|------|---------------|---------------|------|------|------|
| Consulting Services                   | 40,000                  |      | 20,000        | 20,000        |      |      |      |
| City In-house Services                | 40,000                  |      | 20,000        | 20,000        |      |      |      |
| <b>TOTAL COSTS</b>                    | <b>80,000</b>           |      | <b>40,000</b> | <b>40,000</b> |      |      |      |
| <b>REQUESTED FUNDING</b>              |                         |      |               |               |      |      |      |
| Real Estate Excise Tax 1              | 40,000                  |      | 20,000        | 20,000        |      |      |      |
| Recreation Conser. Office Grant (RCO) | 40,000                  |      | 20,000        | 20,000        |      |      |      |
| <b>TOTAL SOURCES</b>                  | <b>80,000</b>           |      | <b>40,000</b> | <b>40,000</b> |      |      |      |

**Parks Department** **P4**

**Pond to Park Improvement - Eagle Creek**

**DESCRIPTION** Convert the stormwater retention pond at the Eagle Creek Sub-Division to a stormwater / Park multi-purpose facility. Add a layer of permeable top soil that will not exceed the design infiltration rate of the storm water retention pond and seed to grass. The area and slopes will be seeded to a nice lawn and the fence removed on the south end of the project.

**BACKGROUND** After the construction of this facility, engineering staff observed that surface water infiltration rates far exceeded the delivery volumes associated with surface run-off generated within the sub-division. Because of this, the pond is dry throughout the year and can provide an excellent grass lawn open space feature to users of the City parks facility. The conversion of a gravel storm infiltration pond to a stormwater/park multi-purpose facility will improve storm water treatment, aesthetics, and provide additional park area for citizens.

| CAPITAL PROJECT COSTS      | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019 | 2020          | 2021 | 2022 |
|----------------------------|-------------------------|------|------|------|---------------|------|------|
| In house Planning & Design | 3,000                   |      |      |      | 3,000         |      |      |
| Construction Costs         | 8,000                   |      |      |      | 8,000         |      |      |
| <b>TOTAL COSTS</b>         | <b>11,000</b>           |      |      |      | <b>11,000</b> |      |      |
| REQUESTED FUNDING          |                         |      |      |      |               |      |      |
| Stormwater Grant or Other  | 11,000                  |      |      |      | 11,000        |      |      |
| <b>TOTAL SOURCES</b>       | <b>11,000</b>           |      |      |      | <b>11,000</b> |      |      |

Entrance to the Eagle Creek Pond



## Cemetery

P5

### Boat Launch Park Shoreline Stabilization

**DESCRIPTION**

Using boulder and plantings reinforce the shoreline to stop the bank erosion and protect the old growth trees along the shoreline.

**BACKGROUND**

The City many years ago stabilized the bank with wood retaining walls, rebar and logs. The logs bounced along the shore and only partially protected the bank. The logs were a maintenance problem and periodically broke loose causing a hazard on the lake. The wood retaining wall has deteriorated significantly. The rebar has been an ongoing maintenance problem and hazard.

**COMMENTS**

Once the Park Plan has been accepted by the Recreation Conservation Office this project will be eligible for state grant funding.

| CAPITAL PROJECT COSTS       | Total \$<br>2017 - 2022 | 2017 | 2018 | 2019 | 2020          | 2021 | 2022           |
|-----------------------------|-------------------------|------|------|------|---------------|------|----------------|
| Engineering and Permitting  | 30,000                  |      |      |      | 30,000        |      |                |
| Construction                | 260,000                 |      |      |      |               |      | 260,000        |
| Project Administration/Mgmt | 10,000                  |      |      |      |               |      | 10,000         |
| <b>TOTAL COSTS</b>          | <b>300,000</b>          |      |      |      | <b>30,000</b> |      | <b>270,000</b> |
| REQUESTED FUNDING           |                         |      |      |      |               |      |                |
| Real Estate Excise Tax 1    | 150,000                 |      |      |      | 30,000        |      | 120,000        |
| RCO Grant                   | 150,000                 |      |      |      |               |      | 150,000        |
| <b>TOTAL SOURCES</b>        | <b>300,000</b>          |      |      |      | <b>30,000</b> |      | <b>270,000</b> |

Shoreline Erosion



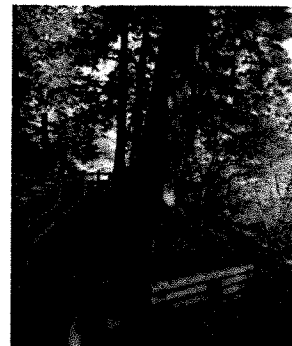
Rotten Wall



Exposed Roots



Leaning Tree



**Cemetery** **P6**

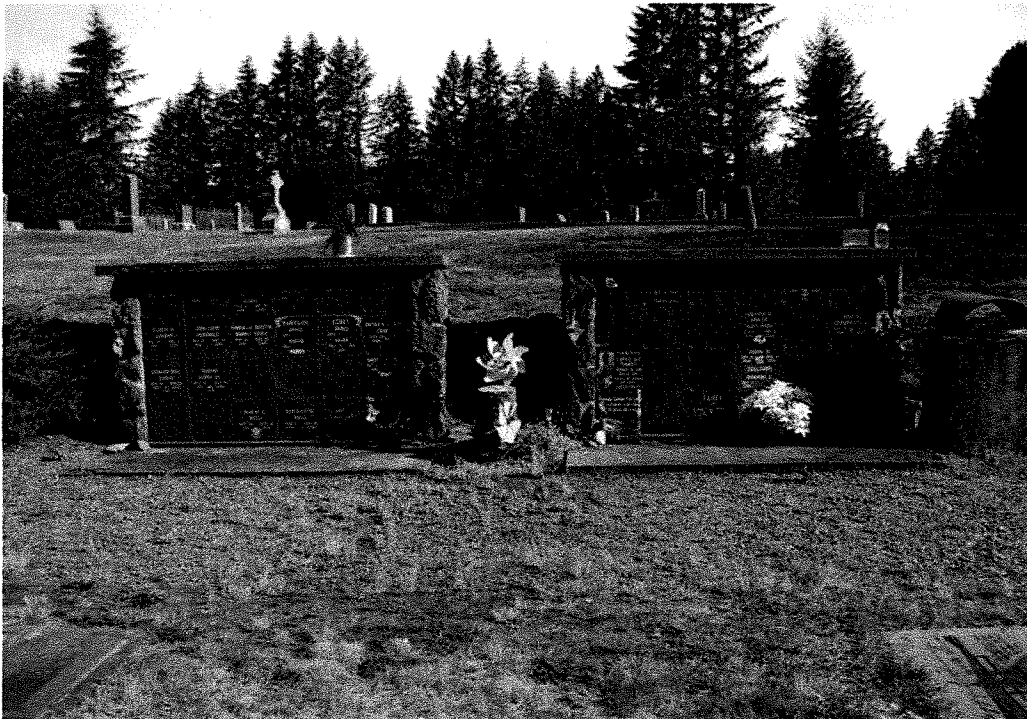
**New Niche Wall**

**DESCRIPTION** Install a niche wall for cremation remains in the cemetery 5 ft. high by about 24 feet long.

**BACKGROUND** The existing niche wall is nearly all sold out. Many people do not want to purchase an entire plot within the cemetery and the niche would serve their needs. The niche wall preserves space within the cemetery. The price of the niches could be reassessed after the final expense of the project is known so that the City could recover their costs. The price of a niche right now is \$350 and the price of a plot is \$1500. The new wall would provide about 90 to 100 new niches.

**COMMENTS** The cemetery board reviewed and approved this project and recommended that the Council add this project to the City's Capital Improvement Plan.

|                              | Total \$<br>2017 - 2022 | 2017 | 2018          | 2019 | 2020 | 2021 | 2022 |
|------------------------------|-------------------------|------|---------------|------|------|------|------|
| <b>CAPITAL PROJECT COSTS</b> |                         |      |               |      |      |      |      |
| Niche Wall Purchase          | 10,000                  |      | 10,000        |      |      |      |      |
| Niche Wall Installation      | 10,000                  |      | 10,000        |      |      |      |      |
| <b>TOTAL COSTS</b>           | <b>20,000</b>           |      | <b>20,000</b> |      |      |      |      |
| <b>REQUESTED FUNDING</b>     |                         |      |               |      |      |      |      |
| Real Estate Excise Tax 1     | 20,000                  |      | 20,000        |      |      |      |      |
| <b>TOTAL SOURCES</b>         | <b>20,000</b>           |      | <b>20,000</b> |      |      |      |      |



**Cemetery**

**P7**

**Rehabilitate East Ginder Creek Property**

**DESCRIPTION**

Remove cottonwood, maple, alder, blackberry, Nott weed, English Ivy along the east boundary of the property and revegetate with grass and Flowering cherry trees, maple, and dogwood. The initial effort will be to fall the trees, and deck the debris in a long pile to compost onsite and to spray invasive weeds and then seed the surrounding area back to grass. The trees should compost nicely within about 5 years. Once the limb have decomposed, the organic matter will be spread and the area reseeded to lawn and trees planted.

**BACKGROUND**

A major portion on the east side of the property has been overtaken by invasive weeds and invasive hazardous trees. The cottonwood trees have grown to a hazardous size and present a threat and hazard to the homes and backyards to the east as citizens walking on City open space.

**COMMENTS**

This project is to fulfill the City's role in good stewardship of the public land.

| CAPITAL PROJECT COSTS    | Total \$<br>2017 - 2022 | 2017          | 2018 | 2019 | 2020 | 2021 | 2022          |
|--------------------------|-------------------------|---------------|------|------|------|------|---------------|
| Tree Felling and Decking | 30,000                  | 30,000        |      |      |      |      |               |
| Initial Weed Control     | 5,000                   | 5,000         |      |      |      |      |               |
| Grading & Tree Planting  | 20,000                  |               |      |      |      |      | 20,000        |
| <b>TOTAL COSTS</b>       | <b>55,000</b>           | <b>35,000</b> |      |      |      |      | <b>20,000</b> |
| <b>REQUESTED FUNDING</b> |                         |               |      |      |      |      |               |
| Sewer Funding            | 10,000                  | 10,000        |      |      |      |      |               |
| Street Funds             | 5,000                   | 5,000         |      |      |      |      |               |
| Real Estate Excise Tax 1 | 40,000                  | 20,000        |      |      |      |      | 20,000        |
| <b>TOTAL SOURCES</b>     | <b>55,000</b>           | <b>35,000</b> |      |      |      |      | <b>20,000</b> |





## Parks Department CAPITAL PROJECT SUMMARY

| New Niche Wall                                   |                          |               |                |               |               |                |                |
|--|--------------------------|---------------|----------------|---------------|---------------|----------------|----------------|
| Summary by Project                               | Capital Plan 2017 - 2022 |               |                |               |               |                |                |
| Project Title                                    | Total \$<br>2017 - 2022  | 2017          | 2018           | 2019          | 2020          | 2021           | 2022           |
| P1 Ginder Creek Trail and Site                   | 445,000                  |               | 62,000         |               | 45,000        | 338,000        |                |
| P2 Grant Matching Funds                          | 25,000                   | 2,500         | 2,500          | 5,000         | 5,000         | 5,000          | 5,000          |
| P3 Park Plan Update                              | 80,000                   |               | 40,000         | 40,000        |               |                |                |
| P4 Pond to Parks Improvement                     | 11,000                   |               |                |               | 11,000        |                |                |
| P5 Boat Launch Park Shoreline Stabilization      | 300,000                  |               |                |               | 30,000        |                | 270,000        |
| P6 New Cemetery Niche Wall                       | 20,000                   |               | 20,000         |               |               |                |                |
| P7 Rehabilitate E. Ginder Creek Property         | 55,000                   | 35,000        |                |               |               |                | 20,000         |
| <b>TOTAL ESTIMATED COST</b>                      | <b>936,000</b>           | <b>37,500</b> | <b>124,500</b> | <b>45,000</b> | <b>91,000</b> | <b>343,000</b> | <b>295,000</b> |
| <b>Funding Sources</b>                           |                          |               |                |               |               |                |                |
| <b>King County Parks Property Tax Levy Funds</b> |                          |               |                |               |               |                |                |
| P1 Ginder Creek Trail and Site                   | 201,000                  |               | 32,000         |               |               | 169,000        |                |
| Total King County Parks Levy Fund                | <b>201,000</b>           |               | <b>32,000</b>  |               |               | <b>169,000</b> |                |
| <b>King County Conservation District Grant</b>   |                          |               |                |               |               |                |                |
| P1 Ginder Creek Trail and Site                   | 214,000                  |               |                |               | 45,000        | 169,000        |                |
| P3 Park Plan Update                              | 40,000                   |               | 20,000         | 20,000        |               |                |                |
| P4 Pond to Parks Improvement                     | 11,000                   |               |                |               | 11,000        |                |                |
| Total KCD Grant                                  | <b>265,000</b>           |               | <b>20,000</b>  | <b>20,000</b> | <b>56,000</b> | <b>169,000</b> |                |
| <b>WA Recreation and Conservation Grants</b>     |                          |               |                |               |               |                |                |
| P5 Boat Launch Park Shoreline Stabilization      | 150,000                  |               |                |               |               |                | 150,000        |
| Total RCO Grants                                 | <b>150,000</b>           |               |                |               |               |                | <b>150,000</b> |
| <b>Conservation Futures</b>                      |                          |               |                |               |               |                |                |
| P1 Ginder Creek Trail and Site                   | 30,000                   |               | 30,000         |               |               |                |                |
| Total Conservation Futures                       | <b>30,000</b>            |               | <b>30,000</b>  |               |               |                |                |
| <b>Real Estate Excise Tax 1</b>                  |                          |               |                |               |               |                |                |
| P2 Grant Matching Funds                          | 25,000                   | 2,500         | 2,500          | 5,000         | 5,000         | 5,000          | 5,000          |
| P3 Park Plan Update                              | 40,000                   |               | 20,000         | 20,000        |               |                |                |
| P5 Boat Launch Park Shoreline Stabilization      | 150,000                  |               |                |               | 30,000        |                | 120,000        |
| P6 New Cemetery Niche Wall                       | 20,000                   |               | 20,000         |               |               |                |                |
| P7 Rehabilitate E. Ginder Creek Property         | 40,000                   | 20,000        |                |               |               |                | 20,000         |
| Total REET 1 Funding                             | <b>275,000</b>           | <b>22,500</b> | <b>42,500</b>  | <b>25,000</b> | <b>35,000</b> | <b>5,000</b>   | <b>145,000</b> |
| <b>Sewer Funds</b>                               |                          |               |                |               |               |                |                |
| P7 Rehabilitate E. Ginder Creek Property         | 10,000                   | 10,000        |                |               |               |                |                |
| Total Sewer Fund Funding                         | <b>10,000</b>            | <b>10,000</b> |                |               |               |                |                |
| <b>Street Funds</b>                              |                          |               |                |               |               |                |                |
| P7 Rehabilitate E. Ginder Creek Property         | 5,000                    | 5,000         |                |               |               |                |                |
| Total Street Fund Funding                        | <b>5,000</b>             | <b>5,000</b>  |                |               |               |                |                |
| <b>TOTAL ESTIMATED FUNDING SOURCES</b>           | <b>936,000</b>           | <b>37,500</b> | <b>124,500</b> | <b>45,000</b> | <b>91,000</b> | <b>343,000</b> | <b>295,000</b> |

## Fire Department

F1

### Replace Primary Fire Engine (2000)

**DESCRIPTION** This project replaces the newest engine in the fleet with a suitable, demo pumper having better long-term maintenance prospects.

**BACKGROUND** The present vehicle experienced a major mechanical malfunction during 2010 annual service testing. Repairs cost over \$21,000 and required more than four months to complete. Only one service center bid on the overhaul because of difficulties obtaining replacement parts.

**COMMENTS** The Fire Maintenance Supervisor recommends replacing the current pumper now with a 3 to 4 year old used one, to offset the higher cost of replacement. A State sponsored loan is one means of funding this project. Cost projections below are based on 5% interest rate over a 10 year term.

| CAPITAL PROJECT COSTS            | Total \$<br>2017-2022 | 2017 | 2018           | 2019          | 2020          | 2021          | 2022          |
|----------------------------------|-----------------------|------|----------------|---------------|---------------|---------------|---------------|
| Replace 2000 Primary Fire Engine | 365,000               |      | 365,000        |               |               |               |               |
| <b>TOTAL COSTS</b>               | <b>365,000</b>        | -    | <b>365,000</b> | -             | -             | -             | -             |
| REQUESTED FUNDING                |                       |      |                |               |               |               |               |
| Loan Plan                        | 265,000               |      | 265,000        |               |               |               |               |
| Surplus Equipment Sale           | 100,000               |      | 100,000        |               |               |               |               |
| <b>TOTAL SOURCES</b>             | <b>965,000</b>        | -    | <b>365,000</b> | -             | -             | -             | -             |
| DEBT SERVICE                     |                       |      |                |               |               |               |               |
| REET 1 Debt Repay (10yr @5%)     | 137,276               |      |                | 34,319        | 34,319        | 34,319        | 34,319        |
| <b>TOTAL DEBT SERVICE</b>        | <b>137,276</b>        | -    | -              | <b>34,319</b> | <b>34,319</b> | <b>34,319</b> | <b>34,319</b> |



Fire Engine 98

**Fire Department** **F2**

**Replace Reserve Engine (1986)**

**DESCRIPTION** Replace reserve engine # 981 and extend the service life of front-line engine.

**BACKGROUND** Engine 981 is a Pierce brand engine custom built for Kent Fire in 1986. The City later purchased this engine used. It has more than 155,000 miles on the odometer and 12,000 hours in use.

**COMMENTS** Replacement of the Fire Engine and Station will require growth from REET 1 or bond sales revenue.

| CAPITAL PROJECT COSTS       | Total \$<br>2017-2022 | 2017 | 2018 | 2019 | 2020           | 2021 | 2022 |
|-----------------------------|-----------------------|------|------|------|----------------|------|------|
| Replace 1986 Reserve Engine | 600,000               |      |      |      | 600,000        |      |      |
| <b>TOTAL COSTS</b>          | <b>600,000</b>        | -    | -    | -    | <b>600,000</b> | -    | -    |
| <b>REQUESTED FUNDING</b>    |                       |      |      |      |                |      |      |
| Growth or Bond Sales        | 600,000               |      |      |      | 600,000        |      | -    |
| <b>TOTAL SOURCES</b>        | <b>600,000</b>        | -    | -    | -    | <b>600,000</b> | -    | -    |



Engine #981

## Fire Department

**F3**

### Replace Aid Car (1994)

**DESCRIPTION**

Replace Aid 98 to provide reliable patient transport capability.

**BACKGROUND**

Aid 98 is a 1994 Ford purchased by City surplus from King County Medic One. This vehicle shows over 143,160 miles. This is the only aid car owned by the City and maintenance costs are expected to increase with age in continued front-line use.

| CAPITAL PROJECT COSTS             | Total \$<br>2017-2022 | 2017 | 2018 | 2019 | 2020           | 2021 | 2022 |
|-----------------------------------|-----------------------|------|------|------|----------------|------|------|
| Replace 1994 Aid Car              | 225,000               |      |      |      | 225,000        |      |      |
| <b>TOTAL COSTS</b>                | <b>225,000</b>        |      |      | -    | <b>225,000</b> |      |      |
| REQUESTED FUNDING                 |                       |      |      |      |                |      |      |
| Funding From Growth or Bond Sales | 225,000               |      |      |      | 225,000        |      |      |
| <b>TOTAL SOURCES</b>              | <b>225,000</b>        | -    | -    | -    | <b>225,000</b> | -    | -    |



**Fire Department**

**F4**

**New Fire Station and Equipment**

**DESCRIPTION** Provide a satellite fire station sited and equipped to enhance fire and emergency medical service delivery in the community. This initiative begins with a site location study, proceeds to construct the station, and ends with a complement of essential equipment in service at the new facility.

**BACKGROUND** Service needs within the community will change with growth. This project seeks to determine the optimal location, build approximately 8,000 square feet of fire station at \$405 per square foot within the next six year at a cost of approximately \$3,240,000. Additional growth related equipment of a Fire Pumper, Aid Car, Brush Truck, & Support Vehicle will be needed in later years after more growth has occurred. Land costs are not included and could add approximately \$750,000 if the station is not built on existing City property.

**COMMENTS** Financing for this project may be a 20 year bond issue at 5% interest. Payments of the debt if growth related, will be 83.73% developer responsibility of approximately \$213,190 (from fire impact fees), and the City portion at 16.27% of the total, with payments of \$41,426. This is per the Fire District Impact Fee Study, (IFS p.17). The City share of payments will need to come from REET 1, or from bond issue.

| CAPITAL PROJECT COSTS     | Total \$<br>2017-2022 | 2017 | 2018 | 2019 | 2020 | 2021           | 2022             |
|---------------------------|-----------------------|------|------|------|------|----------------|------------------|
| Preliminary Engineering   | 75,000                |      |      |      |      | 75,000         |                  |
| Construction Engineering  | 70,000                |      |      |      |      |                | 70,000           |
| Design Engineering        | 120,000               |      |      |      |      | 50,000         | 70,000           |
| Construction Costs (bldg) | 2,950,000             |      |      |      |      |                | 2,950,000        |
| <b>TOTAL COSTS</b>        | <b>3,215,000</b>      |      |      |      |      | <b>125,000</b> | <b>3,090,000</b> |
| <b>REQUESTED FUNDING</b>  |                       |      |      |      |      |                |                  |
| Growth or Bond Sales      | 3,215,000             |      |      |      |      | 125,000        | 3,090,000        |
| <b>TOTAL SOURCES</b>      | <b>3,215,000</b>      |      |      |      |      | <b>125,000</b> | <b>3,090,000</b> |



New Fire Station 96

## Fire Department CAPITAL PROJECT SUMMARY

| Expenditures                           |                       | Capital Plan 2017 - 2022 |                |          |                |                |                  |
|--|-----------------------|--------------------------|----------------|----------|----------------|----------------|------------------|
| Project Title                          | Total \$<br>2017-2022 | 2017                     | 2018           | 2019     | 2020           | 2021           | 2022             |
| F1 Replace Primary Fire Engine 98      | 365,000               |                          | 365,000        |          |                |                |                  |
| F2 Replace Reserve Engine              | 600,000               |                          |                |          | 600,000        |                |                  |
| F3 Replace Aid Car                     | 225,000               |                          |                |          | 225,000        |                |                  |
| F4 New Fire Station & Equipment        | 3,215,000             |                          |                |          |                | 125,000        | 3,090,000        |
| <b>TOTAL ESTIMATED COSTS</b>           | <b>4,405,000</b>      |                          | <b>365,000</b> |          | <b>825,000</b> | <b>125,000</b> | <b>3,090,000</b> |
| Funding Sources                        |                       |                          |                |          |                |                |                  |
| Loans to Finance Projects              |                       |                          |                |          |                |                |                  |
| F1 Replace Primary Fire Engine 98      | 265,000               |                          | 265,000        |          |                |                |                  |
| Total Loans                            | 265,000               |                          | 265,000        |          |                |                |                  |
| Funding From Growth or Bond Sales      |                       |                          |                |          |                |                |                  |
| F2 Replace Reserve Engine              | 600,000               |                          |                |          | 600,000        |                |                  |
| F3 Replace Aid Car                     | 225,000               |                          |                |          | 225,000        |                |                  |
| F4 New Fire Station and Equipment      | 3,215,000             |                          |                |          |                | 125,000        | 3,090,000        |
| Total from Growth or Bond Sales        | 4,040,000             |                          |                |          | 825,000        | 125,000        | 3,090,000        |
| Funding From Surplus Sales             |                       |                          |                |          |                |                |                  |
| F1 Replace Primary Fire Engine 98      | 100,000               |                          | 100,000        |          |                |                |                  |
| Total Surplus Sales                    | 100,000               |                          | 100,000        |          |                |                |                  |
| <b>TOTAL ESTIMATED FUNDING SOURCES</b> | <b>4,405,000</b>      | <b>-</b>                 | <b>365,000</b> | <b>-</b> | <b>825,000</b> | <b>125,000</b> | <b>3,090,000</b> |
| State Loan Repayment - Debt Service    |                       |                          |                |          |                |                |                  |
| REET 1                                 |                       |                          |                |          |                |                |                  |
| F1 Replace Primary Fire Engine 98 (5%) | 137,276               |                          |                | 34,319   | 34,319         | 34,319         | 34,319           |
| Total R1 Debt Service Payments         | 137,276               |                          |                | 34,319   | 34,319         | 34,319         | 34,319           |

**Police Department**

**L1**

**Police Technology**

**DESCRIPTION** Variety of technology for Police including PC purchases, network upgrades for hard and software, printers and copiers.

**COMMENTS** Laptops for all officers. General technology needs in years after.

| <b>CAPITAL PROJECT COSTS</b>   | <b>Total \$<br/>2017 -2022</b> | <b>2017</b>   | <b>2018</b>   | <b>2019</b>   | <b>2020</b>   | <b>2021</b>   | <b>2022</b>   |
|--------------------------------|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Laptops, PC's - Replacements   | 60,300                         | 8,300         | 8,200         | 9,000         | 8,200         | 12,900        | 13,700        |
| PC Software                    | 10,050                         | 1,500         | 1,650         | 1,650         | 1,650         | 1,750         | 1,850         |
| Networking Hardware & Software | 69,650                         | 5,200         | 15,150        | 14,350        | 15,150        | 10,350        | 9,450         |
| <b>TOTAL COSTS</b>             | <b>140,000</b>                 | <b>15,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> |
| <b>REQUESTED FUNDING</b>       |                                |               |               |               |               |               |               |
| Real Estate Excise Tax 1       | 140,000                        | 15,000        | 25,000        | 25,000        | 25,000        | 25,000        | 25,000        |
| <b>TOTAL SOURCES</b>           | <b>140,000</b>                 | <b>15,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> |



## Technology Police

|                           | Yr      | 2015           | 2016            | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|---------------------------|---------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Total Workstations</b> |         | 12             | 13              | 13              | 14              | 14              | 14              | 15              | 16              |
| (rugged laptops)          |         | 8              | 9               | 9               | 10              | 10              | 10              | 11              | 12              |
| <b>Phone Sys System</b>   |         |                |                 |                 |                 |                 |                 |                 |                 |
| <b>PCs</b>                |         |                |                 |                 |                 |                 |                 |                 |                 |
| Purchase                  | \$1,250 | \$0            | \$0             | \$0             | \$0             | \$0             | \$0             | \$0             | \$0             |
| Replacement               | \$800   | \$0            | \$800           | \$800           | \$800           | \$800           | \$0             | \$1             | \$2             |
| Rugged Laptops            | \$4,650 | \$0            | \$0             | \$0             | \$0             | \$0             | \$0             | \$4,650         | \$4,650         |
| Replacement               | \$4,100 | \$0            | \$6,560         | \$7,380         | \$7,380         | \$8,200         | \$8,200         | \$8,200         | \$9,020         |
| <b>PC Software</b>        |         |                |                 |                 |                 |                 |                 |                 |                 |
| Software Purchase         | \$75    | \$450          | \$488           | \$488           | \$525           | \$525           | \$525           | \$563           | \$600           |
| MS Office                 | \$250   |                | \$3,250         |                 |                 |                 |                 |                 |                 |
| Software Upgrades         | \$250   | \$250          | \$250           | \$250           | \$250           | \$250           | \$250           | \$250           | \$250           |
| Anti-virus/SPAM           | \$50    | \$660          | \$715           | \$715           | \$770           | \$770           | \$770           | \$825           | \$880           |
| <b>Network</b>            |         |                |                 |                 |                 |                 |                 |                 |                 |
| Server purchases          | \$5,000 |                |                 |                 | \$5,000         | \$4,000         | \$4,000         | \$2,000         | \$1,000         |
| Server Upgrades           | \$4,000 |                |                 |                 | \$5,000         | \$5,000         | \$4,000         | \$3,000         | \$3,000         |
| NW/Security Devices       | \$2,500 |                | \$2,500         | \$1,500         | \$2,500         | \$2,000         | \$2,500         | \$2,500         | \$2,500         |
| <b>Network Software</b>   |         |                |                 |                 |                 |                 |                 |                 |                 |
| Operating Systems         | \$1,500 | \$1,500        |                 | \$1,500         | \$1,000         | \$1,500         | \$2,500         | \$1,000         | \$1,000         |
| Backup/WWW/other          | \$400   | \$400          | \$400           | \$400           | \$400           | \$400           | \$400           | \$400           | \$400           |
| <b>Other purchases</b>    |         |                |                 |                 |                 |                 |                 |                 |                 |
| Video/Audio               | \$200   | \$200          | \$200           | \$200           | \$200           | \$200           | \$200           | \$200           | \$200           |
| Mobile Devices            | \$800   | \$1,600        | \$1,600         | \$1,600         | \$1,600         | \$1,600         | \$1,600         | \$1,600         | \$1,600         |
| <b>CIP Totals</b>         |         | <b>\$5,060</b> | <b>\$16,763</b> | <b>\$14,833</b> | <b>\$25,425</b> | <b>\$25,245</b> | <b>\$24,945</b> | <b>\$25,189</b> | <b>\$25,102</b> |
| <b>Rounding</b>           |         | <b>\$5,000</b> | <b>\$17,000</b> | <b>\$15,000</b> | <b>\$25,000</b> | <b>\$25,000</b> | <b>\$25,000</b> | <b>\$25,000</b> | <b>\$25,000</b> |



## Police Department

L2

### Patrol Car Replacement Plan

**DESCRIPTION**

The City has created and maintained a vehicle replacement plan with planned expenditures for patrol cars in an effort to replace aging patrol cars before becoming too expensive to maintain and to assure officer safety.

**BACKGROUND**

This rotation plan will allow the force to spend more time on the street and less time delivering them for repairs and maintenance. This plan will allow for replacement roughly every 110,000 miles.

| CAPITAL PROJECT COSTS        | Total \$<br>2017 -2022 | 2017           | 2018   | 2019           | 2020   | 2021   | 2022          |
|------------------------------|------------------------|----------------|--------|----------------|--------|--------|---------------|
| Capital Outlay               | 320,000                | 160,000        |        | 120,000        |        |        | 40,000        |
| <b>TOTAL COSTS</b>           | <b>320,000</b>         | <b>160,000</b> |        | <b>120,000</b> |        |        | <b>40,000</b> |
| <b>REQUESTED FUNDING</b>     |                        |                |        |                |        |        |               |
| REET 1                       | 40,000                 |                |        |                |        |        | 40,000        |
| Internal Loan Program        | 280,000                | 160,000        |        | 120,000        |        |        |               |
| <b>TOTAL SOURCES</b>         | <b>320,000</b>         | <b>160,000</b> |        | <b>120,000</b> |        |        | <b>40,000</b> |
| <b>Internal Loan Program</b> |                        |                |        |                |        |        |               |
| At 1/2% for 5 years (REET1)  | 235,267                |                | 32,480 | 32,480         | 56,769 | 56,769 | 56,769        |



DRAFT City of Black Diamond Capital Improvement Plan 2017 - 2022

| Vehicle # | YEAR           | MODEL         | Years in Service | Yearly Mileage Est | 2016    | 2017    | 2018    | 2019    | 2020   | 2021   | 2022    |
|-----------|----------------|---------------|------------------|--------------------|---------|---------|---------|---------|--------|--------|---------|
| 31        | 2012 K-9 Tahoe | Chev Tahoe    | 4                | 13,200             | 67,718  | 80,918  | 94,118  | Replace | 13,200 | 26,400 | 39,600  |
| 22        | 2007 Black     | Dodge Charger | 9                | 10,650             | 124,436 | Replace | 13,200  | 26,400  | 39,600 | 52,800 | 66,000  |
| 23        | 2007 Black     | Dodge Charger | 9                | 6,500              | 100,000 | 110,000 | 120,000 | Replace | 10,000 | 20,000 | 30,000  |
| 27        | 2009 Blk/White | Dodge Charger | 7                | 12,750             | 120,633 | Replace | 13,200  | 26,400  | 39,600 | 52,800 | 66,000  |
| 28        | 2009 Blk/White | Dodge Charger | 7                | 16,700             | 115,902 | Replace | 13,200  | 26,400  | 39,600 | 52,800 | 66,000  |
| 25        | 2008 Gray      | Chev. Impala  | 8                | 19,000             | 45,500  | 53,000  | 60,500  | 68,000  | 75,500 | 83,000 | Replace |
| 26        | 2008 B/W       | Chev. Impala  | 8                | 15,000             | 85,058  | Replace | 13,200  | 26,400  | 39,600 | 52,800 | 66,000  |
| 29        | 2011 B/W       | Chev Tahoe    | 5                | 15,000             | 87,572  | 100,772 | 113,972 | Replace | 13,200 | 26,400 | 39,600  |

| Pool Cars |          |               |    |       | 2016   | 2017   | 2018   | 2019   | 2020   | 2021   | 2022   |
|-----------|----------|---------------|----|-------|--------|--------|--------|--------|--------|--------|--------|
| 24        | 2008     | Dodge Charger | 6  | 4,000 | 70,798 | 74,798 | 78,798 | 82,798 | 86,798 | 90,798 | 94,798 |
| 21        | 2006 B/W | Ford Crown    | 10 | 5,000 | 69,804 | 74,804 | 79,804 | 84,804 | 89,804 | 94,804 | 99,804 |

| Budgeted Miles |        |
|----------------|--------|
| Officers       | 13,200 |
| Sergeants      | 13,200 |
| Commander      | 10,000 |
| Chief          | 7,500  |

**Police Department** **L3**

**Police Radio Replacement**

**DESCRIPTION**                      Portable Radio Replacements to replace 20 year old radios with the 750 MegaHertz update requirement. King County voters passed a radio replacement levy that may not be ready until 2019.

| <b>CAPITAL PROJECT COSTS</b> | <b>Total \$<br/>2017 -2022</b> | <b>2017</b>  | <b>2018</b>  | <b>2019</b> | <b>2020</b> | <b>2021</b> | <b>2022</b> |
|------------------------------|--------------------------------|--------------|--------------|-------------|-------------|-------------|-------------|
| Portable Radio-Replacements  | 18,640                         | 9,320        | 9,320        |             |             |             |             |
| <b>TOTAL COSTS</b>           | <b>18,640</b>                  | <b>9,320</b> | <b>9,320</b> |             |             |             |             |
| Total Units Replaced         | 4                              | 2            | 2            |             |             |             |             |
| <b>REQUESTED FUNDING</b>     |                                |              |              |             |             |             |             |
| Beginning Fund Balance       | 18,640                         | 9,320        | 9,320        |             |             |             |             |
| <b>TOTAL SOURCES</b>         | <b>18,640</b>                  | <b>9,320</b> | <b>9,320</b> |             |             |             |             |

## Police Department CAPITAL PROJECT SUMMARY

| Expenditures                             |                                    | Capital Plan 2017 - 2022 |               |                |               |               |                |
|--|------------------------------------|--------------------------|---------------|----------------|---------------|---------------|----------------|
| CAPITAL PROJECT COSTS                    | Total \$<br>Requested<br>2017-2022 | 2017                     | 2018          | 2019           | 2020          | 2021          | 2022           |
| L1 Police Technology                     | 140,000                            | 15,000                   | 25,000        | 25,000         | 25,000        | 25,000        | 25,000         |
| L2 Patrol Car Replacement                | 320,000                            | 160,000                  |               | 120,000        |               |               | 40,000         |
| L3 Police Radio Equipment                | 18,640                             | 9,320                    | 9,320         |                |               |               |                |
| <b>TOTAL ESTIMATED COSTS</b>             | <b>478,640</b>                     | <b>184,320</b>           | <b>34,320</b> | <b>145,000</b> | <b>25,000</b> | <b>25,000</b> | <b>65,000</b>  |
| Funding Sources                          |                                    |                          |               |                |               |               |                |
| L1* Real Estate Excise Tax 1             | 180,000                            | 15,000                   | 25,000        | 25,000         | 25,000        | 25,000        | 65,000         |
| L2 Loan from Sewer Capital               | 280,000                            | 160,000                  |               | 120,000        |               |               |                |
| L3 Beginning Fund Balance                | 18,640                             | 9,320                    | 9,320         |                |               |               |                |
| <b>TOTAL ESTIMATED FUNDING SOURCES</b>   | <b>478,640</b>                     | <b>184,320</b>           | <b>34,320</b> | <b>145,000</b> | <b>25,000</b> | <b>25,000</b> | <b>65,000</b>  |
| * Loan Repay - Patrol Cars - REET 1      | 235,267                            |                          | 32,480        | 32,480         | 56,769        | 56,769        | 56,769         |
| <b>TOTAL FUNDING FOR POLICE PROJECTS</b> | <b>713,907</b>                     | <b>184,320</b>           | <b>66,800</b> | <b>177,480</b> | <b>81,769</b> | <b>81,769</b> | <b>121,769</b> |
| * Total REET 1                           | 415,267                            | 15,000                   | 57,480        | 57,480         | 81,769        | 81,769        | 121,769        |

**General Government**

**G1**

**City Technology - Capital** (excludes Police Tech)

**DESCRIPTION**

Variety of technology upgrades to the City including PC purchases, software purchases, network upgrades hard and software and printers. (see next page) These City upgrades exclude Police, as that department has a separate technology project list.

**BACKGROUND**

This project is for PC replacements and other capital technology for the City. This includes servers, network and network software, disaster software and other technology. Auburn IT will be updating amounts in next month or two.

| CAPITAL PROJECT COSTS                        | Total \$<br>2017 -2022 | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
|--|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| PC, Printers, Software                       | 68,600                 | 11,700        | 10,300        | 11,400        | 11,100        | 11,300        | 12,800        |
| Network Hardware, Software, Audio & Recovery | 75,700                 | 15,100        | 14,700        | 6,100         | 13,900        | 13,700        | 12,200        |
| New Phone System                             | 15,700                 | 8,200         |               | 7,500         |               |               |               |
| <b>TOTAL COSTS</b>                           | <b>160,000</b>         | <b>35,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> |
| <b>REQUESTED FUNDING</b>                     |                        |               |               |               |               |               |               |
| Real Estate Excise Tax 1                     | 160,000                | 35,000        | 25,000        | 25,000        | 25,000        | 25,000        | 25,000        |
| <b>TOTAL SOURCES</b>                         | <b>160,000</b>         | <b>35,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> | <b>25,000</b> |

## Technology City

|                                      |          | 2015     | 2016     | 2017     | 2018     | 2019     | 2020     | 2021     | 2022     |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Total Workstations</b>            |          | 25       | 25       | 25       | 25       | 25       | 25       | 25       | 25       |
| p/user                               |          |          |          |          |          |          |          |          |          |
| <b>Expenditures</b>                  |          |          |          |          |          |          |          |          |          |
| Phone System                         |          |          |          | \$8,200  |          |          |          |          |          |
| <b>PCs</b>                           |          |          |          |          |          |          |          |          |          |
| Purchase                             | \$1,250  | \$2,715  | \$957    | \$0      | \$0      | \$1,250  | \$1,250  | \$2,500  | \$2,500  |
| Replacement                          | \$800    | \$1,600  | \$5,000  | \$5,000  | \$5,000  | \$5,000  | \$5,000  | \$3,500  | \$3,000  |
| Printers/Mice/Access                 | \$100    | \$625    | \$1,000  | \$625    | \$625    | \$625    | \$625    | \$625    | \$625    |
| Mobile Devices                       | \$400    |          |          | \$1,500  | \$1,500  | \$1,500  | \$1,500  | \$1,500  | \$1,500  |
| <b>PC Software</b>                   |          |          |          |          |          |          |          |          |          |
| Software Purchase                    | \$150    | \$938    | \$938    | \$938    | \$938    | \$938    | \$938    | \$938    | \$938    |
| MS Office                            | \$250    |          |          | \$3,500  | \$3,500  | \$3,500  | \$3,500  | \$3,500  | \$3,500  |
| Software Upgrades                    | \$100    | \$1,000  |          | \$1,000  | \$1,000  | \$1,000  | \$1,000  | \$1,000  | \$1,000  |
| Anti-virus/SPAM                      | \$50     | \$1,250  |          | \$1,250  | \$1,250  | \$1,250  | \$1,250  | \$1,250  | \$1,250  |
| <b>Network</b>                       |          |          |          |          |          |          |          |          |          |
| Server purchases                     | \$5,000  |          | \$5,190  | \$7,000  | \$5,000  | \$4,000  | \$4,000  | \$2,000  | \$3,000  |
| Server Upgrades                      | \$4,000  |          | \$321    | \$750    | \$1,000  | \$2,000  | \$4,000  | \$4,000  | \$1,500  |
| NW/Security Devices                  | \$2,500  |          |          | \$2,500  |          | \$1,500  |          | \$1,500  | \$2,500  |
| <b>Network Software</b>              |          |          |          |          |          |          |          |          |          |
| Operating Systems                    | \$1,200  | \$1,200  |          | \$1,200  | \$2,200  | \$1,200  | \$1,000  | \$1,200  | \$2,200  |
| Backup/WWW/other                     | \$800    | \$500    | \$500    | \$800    | \$800    | \$800    | \$800    | \$800    | \$800    |
| <b>Other purchases</b>               |          |          |          |          |          |          |          |          |          |
| Video/Audio                          | \$400    | \$200    | \$400    | \$400    | \$400    | \$400    | \$400    | \$400    | \$400    |
| Disaster Recovery                    | \$1,500  |          |          |          | \$1,500  |          |          |          |          |
| <b>CIP</b>                           |          |          |          |          |          |          |          |          |          |
| Totals                               |          | 2015     | 2016     | 2017     | 2018     | 2019     | 2020     | 2021     | 2022     |
| Rounded Total                        |          | \$10,028 | \$14,305 | \$34,663 | \$24,713 | \$24,963 | \$25,263 | \$24,713 | \$24,713 |
|                                      |          | \$10,000 | \$14,000 | \$35,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 |
| <b>General Fund Operating Budget</b> |          |          |          |          |          |          |          |          |          |
| PD Records Mgmt                      | \$12,662 | \$12,662 | \$12,662 | \$12,662 | \$12,662 | \$12,662 | \$12,662 | \$12,662 | \$12,662 |
| Permit Trax                          | \$8,000  | \$8,000  | \$8,000  | \$8,000  | \$8,000  | \$8,000  | \$8,000  | \$8,000  | \$8,000  |
| Vision Financial                     | \$6,300  | \$6,300  | \$6,300  | \$6,300  | \$6,300  | \$6,300  | \$6,300  | \$6,300  | \$6,300  |
| Maint/Operating                      |          | 2015     | 2016     | 2017     | 2018     | 2019     | 2020     | 2021     | 2022     |
| Rounded Total                        |          | \$27,000 | \$27,000 | \$27,000 | \$27,000 | \$27,000 | \$27,000 | \$27,000 | \$27,000 |

**General Government** **G2**

**General Government Facility Upgrades**

**DESCRIPTION** The Police Station is due for a new roof, and a contingency of \$5,000 is for general upgrades to City Facilities.

| <b>CAPITAL PROJECT COSTS</b> | <b>Total \$<br/>2017 -2022</b> | <b>2017</b>  | <b>2018</b>  | <b>2019</b>   | <b>2020</b>  | <b>2021</b>  | <b>2022</b>  |
|------------------------------|--------------------------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Replace Police Roof          | 25,000                         |              |              | 25,000        |              |              |              |
| General Upgrades             | 30,000                         | 5,000        | 5,000        | 5,000         | 5,000        | 5,000        | 5,000        |
| <b>TOTAL COSTS</b>           | <b>55,000</b>                  | <b>5,000</b> | <b>5,000</b> | <b>30,000</b> | <b>5,000</b> | <b>5,000</b> | <b>5,000</b> |
| <b>REQUESTED FUNDING</b>     |                                |              |              |               |              |              |              |
| Real Estate Excise Tax 1     | 55,000                         | 5,000        | 5,000        | 30,000        | 5,000        | 5,000        | 5,000        |
| <b>TOTAL SOURCES</b>         | <b>55,000</b>                  | <b>5,000</b> | <b>5,000</b> | <b>30,000</b> | <b>5,000</b> | <b>5,000</b> | <b>5,000</b> |



**General Government**

**G3**

**General Government Vehicle Replacement**

**DESCRIPTION**

The Facilities truck is a 2002 Chevy with 150,000 miles. In the past three years, over \$10,000 of repair work was done and the brakes currently need to be replaced. The City Hall pool car is a 1998 Mercury Sable that is unreliable and employees are using their own cars rather than use it. The Community Development vehicle is a 2004 Ford Expedition and will need to be replaced by at least 2021.

| <b>CAPITAL PROJECT COSTS</b>    | <b>Total \$ 2017<br/>-2022</b> | <b>2017</b> | <b>2018</b>   | <b>2019</b>   | <b>2020</b> | <b>2021</b>   | <b>2022</b> |
|---------------------------------|--------------------------------|-------------|---------------|---------------|-------------|---------------|-------------|
| 2002 Facilities Truck Replace   | 25,000                         |             |               | 25,000        |             |               |             |
| 1998 City Hall Pool Car Replace | 20,000                         |             | 20,000        |               |             |               |             |
| 2004 Com. Dev. Vehicle Replace  | 29,000                         |             |               |               |             | 29,000        |             |
| <b>TOTAL COSTS</b>              | <b>74,000</b>                  |             | <b>20,000</b> | <b>25,000</b> |             | <b>29,000</b> |             |
| <b>REQUESTED FUNDING</b>        |                                |             |               |               |             |               |             |
| PW Allocation                   | 10,000                         |             |               | 10,000        |             |               |             |
| Real Estate Excise Tax 1        | 64,000                         |             | 20,000        | 15,000        |             | 29,000        |             |
| <b>TOTAL SOURCES</b>            | <b>74,000</b>                  |             | <b>20,000</b> | <b>25,000</b> |             | <b>29,000</b> |             |



**General Government** **G4**

**Comprehensive Plan Completion**

**DESCRIPTION**

The City began and Comp Plan Update in 2014 as required by the Growth Management Act (GMA). Subcontract work was done by BergerAban and they used DKS Associates as their consultant for the transportation element of the plan. DKS has already completed over 90% of the tasks in that scope of work. The final 10% of that plan is approximately \$35,000. The Comprehensive Plan update is behind the GMA schedule for adoption which is causing the City to be ineligible for grant funds. The plan needs to be completed to be in compliance with the Growth Management Act.

| <b>CAPITAL PROJECT COSTS</b> | <b>Total \$<br/>2017 -2022</b> | <b>2017</b>   | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>2021</b> | <b>2022</b> |
|------------------------------|--------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|
| Comp Plan Update             | 35,000                         | 35,000        |             |             |             |             |             |
| <b>TOTAL COSTS</b>           | <b>35,000</b>                  | <b>35,000</b> |             |             |             |             |             |
| <b>REQUESTED FUNDING</b>     |                                |               |             |             |             |             |             |
| Real Estate Excise Tax 1     | 35,000                         | 35,000        |             |             |             |             |             |
| <b>TOTAL SOURCES</b>         | <b>35,000</b>                  | <b>35,000</b> |             |             |             |             |             |

**General Government** **G5**

**Gym / Way Finding Signs**

**DESCRIPTION**

Signage is needed for the Gym, as well as for wayfinding in the City.

| <b>CAPITAL PROJECT COSTS</b>      | <b>Total \$<br/>2017 -2022</b> | <b>2017</b>   | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>2021</b> | <b>2022</b> |
|-----------------------------------|--------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|
| Gym Sign and Installation         | 5,000                          | 5,000         |             |             |             |             |             |
| Wayfinding Signs and Installation | 12,000                         | 12,000        |             |             |             |             |             |
| <b>TOTAL COSTS</b>                | <b>17,000</b>                  | <b>17,000</b> |             |             |             |             |             |
| <b>REQUESTED FUNDING</b>          |                                |               |             |             |             |             |             |
| Seattle Port Alliance Grant       | 6,000                          | 6,000         |             |             |             |             |             |
| Real Estate Excise Tax 1          | 11,000                         | 11,000        |             |             |             |             |             |
| <b>TOTAL SOURCES</b>              | <b>17,000</b>                  | <b>17,000</b> |             |             |             |             |             |

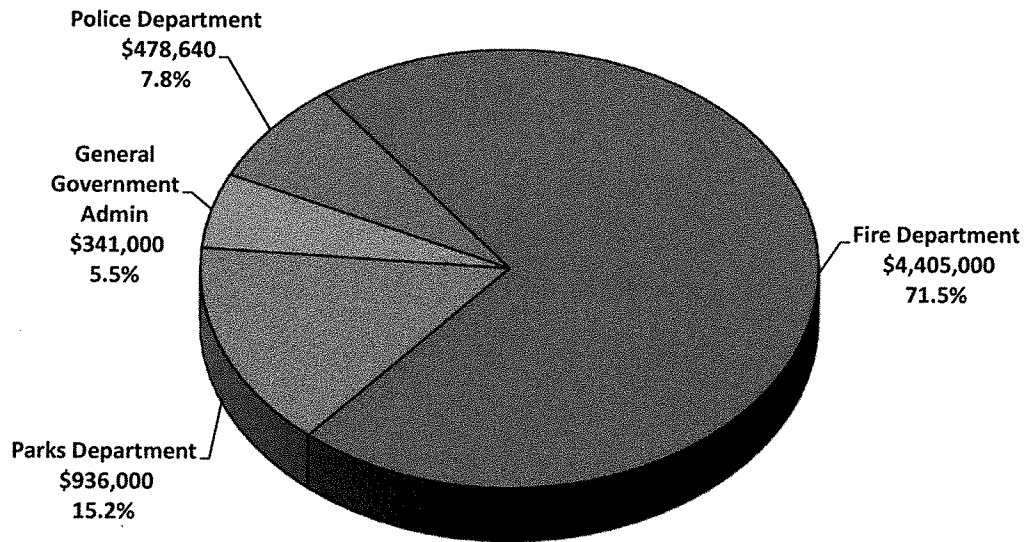
## General Government Projects CAPITAL PROJECT SUMMARY

| Summary by Project                       | Capital Plan 2017 - 2022 |               |               |               |               |               |               |
|--|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Project Title                            | Total \$<br>2017-2022    | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
| G1 City Technology Upgrades              | 160,000                  | 35,000        | 25,000        | 25,000        | 25,000        | 25,000        | 25,000        |
| G2 General Facility Improvements         | 55,000                   | 5,000         | 5,000         | 30,000        | 5,000         | 5,000         | 5,000         |
| G3 Replace Pool, Facilities & Code Truck | 74,000                   |               | 20,000        | 25,000        |               | 29,000        |               |
| G4 Comprehensive Plan Update             | 35,000                   | 35,000        |               |               |               |               |               |
| G5 Gym / Wayfinding Signs                | 17,000                   | 17,000        |               |               |               |               |               |
| <b>TOTAL ESTIMATED COSTS</b>             | <b>341,000</b>           | <b>92,000</b> | <b>50,000</b> | <b>80,000</b> | <b>30,000</b> | <b>59,000</b> | <b>30,000</b> |
| <b>Funding Sources</b>                   |                          |               |               |               |               |               |               |
| <b>Real Estate Excise Tax 1</b>          |                          |               |               |               |               |               |               |
| G1 City Technology Upgrades              | 160,000                  | 35,000        | 25,000        | 25,000        | 25,000        | 25,000        | 25,000        |
| G2 General Facility Improvements         | 55,000                   | 5,000         | 5,000         | 30,000        | 5,000         | 5,000         | 5,000         |
| G3 Replace Pool, Facilities & Code Truck | 64,000                   |               | 20,000        | 15,000        |               | 29,000        |               |
| G4 Comprehensive Plan Update             | 35,000                   | 35,000        |               |               |               |               |               |
| G5 Gym / Wayfinding Signs                | 11,000                   | 11,000        |               |               |               |               |               |
| <b>Total REET 1</b>                      | <b>325,000</b>           | <b>86,000</b> | <b>50,000</b> | <b>70,000</b> | <b>30,000</b> | <b>59,000</b> | <b>30,000</b> |
| <b>Grant Funding</b>                     |                          |               |               |               |               |               |               |
| G5 Gym / Wayfinding Signs                | 6,000                    | 6,000         |               |               |               |               |               |
| <b>Total Grants</b>                      | <b>6,000</b>             | <b>6,000</b>  |               |               |               |               |               |
| <b>Allocation from Utilities</b>         |                          |               |               |               |               |               |               |
| G3 Replace Pool, Facilities & Code Truck | 10,000                   |               |               | 10,000        |               |               |               |
| <b>Total Allocation from Utilities</b>   | <b>10,000</b>            |               |               | <b>10,000</b> |               |               |               |
| <b>TOTAL ESTIMATED FUNDING SOURCES</b>   | <b>341,000</b>           | <b>92,000</b> | <b>50,000</b> | <b>80,000</b> | <b>30,000</b> | <b>59,000</b> | <b>30,000</b> |

## General Government Departments Summary Capital Improvement Plan 2017 - 2022

|                                     | Total \$<br>Project<br>2017 - 2022 | 2017              | 2018              | 2019              | 2020              | 2021              | 2022                |
|-------------------------------------|------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| Parks Department                    | 936,000                            | 37,500            | 124,500           | 45,000            | 91,000            | 343,000           | 295,000             |
| Fire Department                     | 4,405,000                          | -                 | 365,000           | -                 | 825,000           | 125,000           | 3,090,000           |
| Police Department                   | 478,640                            | 184,320           | 34,320            | 145,000           | 25,000            | 25,000            | 65,000              |
| General Government - Admin          | 341,000                            | 92,000            | 50,000            | 80,000            | 30,000            | 59,000            | 30,000              |
| <b>TOTAL Projected Expenditures</b> | <b>\$ 6,160,640</b>                | <b>\$ 313,820</b> | <b>\$ 573,820</b> | <b>\$ 270,000</b> | <b>\$ 971,000</b> | <b>\$ 552,000</b> | <b>\$ 3,480,000</b> |

### Total General Government CIP by Department



**\$6,160,640**

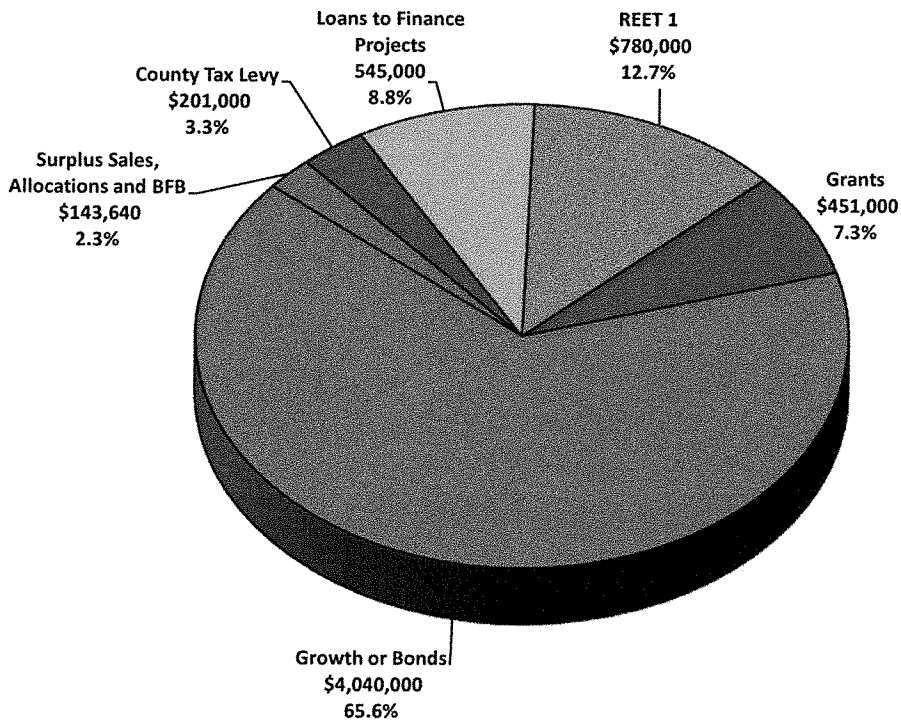
| REET 1 Payments           | Total<br>2017 - 2022 | 2017        | 2018             | 2019             | 2020             | 2021             | 2022             |
|---------------------------|----------------------|-------------|------------------|------------------|------------------|------------------|------------------|
| Repay Police Car Loan     | 235,267              |             | 32,480           | 32,480           | 56,769           | 56,769           | 56,769           |
| Repay Fire Engine 98 Loan | 137,276              |             |                  | 34,319           | 34,319           | 34,319           | 34,319           |
| <b>Total</b>              | <b>\$ 372,543</b>    | <b>\$ -</b> | <b>\$ 32,480</b> | <b>\$ 66,799</b> | <b>\$ 91,088</b> | <b>\$ 91,088</b> | <b>\$ 91,088</b> |

## General Government Departments Funding Summary

### Capital Improvement Plan 2017 - 2022

| REQUESTED FUNDING                                | Total \$<br>Project<br>2017 - 2022 | 2017             | 2018             | 2019             | 2020             | 2021             | 2022               |
|--|------------------------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
| REET 1 FUNDING                                   | 780,000                            | 123,500          | 117,500          | 120,000          | 90,000           | 89,000           | 240,000            |
| LOANS TO FINANCE PROJECTS                        | 545,000                            | 160,000          | 265,000          | 120,000          |                  |                  |                    |
| FUNDING FROM GROWTH OR BOND SALES                | 4,040,000                          |                  |                  |                  | 825,000          | 125,000          | 3,090,000          |
| COUNTY TAX LEVY FOR PARKS                        | 201,000                            |                  | 32,000           |                  |                  | 169,000          |                    |
| KING COUNTY CONSERVATION DISTRICT FUNDING GRANTS | 265,000                            |                  | 20,000           | 20,000           | 56,000           | 169,000          |                    |
| CONSERVATION FUTURES                             | 156,000                            | 6,000            | 30,000           |                  |                  |                  | 150,000            |
| TOTAL GRANT FUNDING                              | 451,000                            | 6,000            | 466,518          | 20,000           | 56,000           | 169,000          | 150,000            |
| SURPLUS SALES                                    | 100,000                            |                  | 100,000          |                  |                  |                  |                    |
| ALLOCATION FROM UTILITIES                        | 25,000                             | 15,000           |                  | 10,000           |                  |                  |                    |
| PROJECT FUND BALANCE FUNDING                     | 18,640                             | 9,320            | 9,320            |                  |                  |                  |                    |
| TOTAL SURPLUS SALES, ALLOC. AND UTILITY FUNDING  | 143,640                            | 24,320           | 109,320          | 10,000           |                  |                  |                    |
| <b>TOTAL REQUESTED FUNDING SOURCES</b>           | <b>\$6,160,640</b>                 | <b>\$313,820</b> | <b>\$990,338</b> | <b>\$270,000</b> | <b>\$971,000</b> | <b>\$552,000</b> | <b>\$3,480,000</b> |

**General Government CIP by Type of Funding Total: \$6,160,640**



## REET 1 ANALYSIS SUMMARY (Fund 310)

### Capital Improvement Plan 2017 - 2022

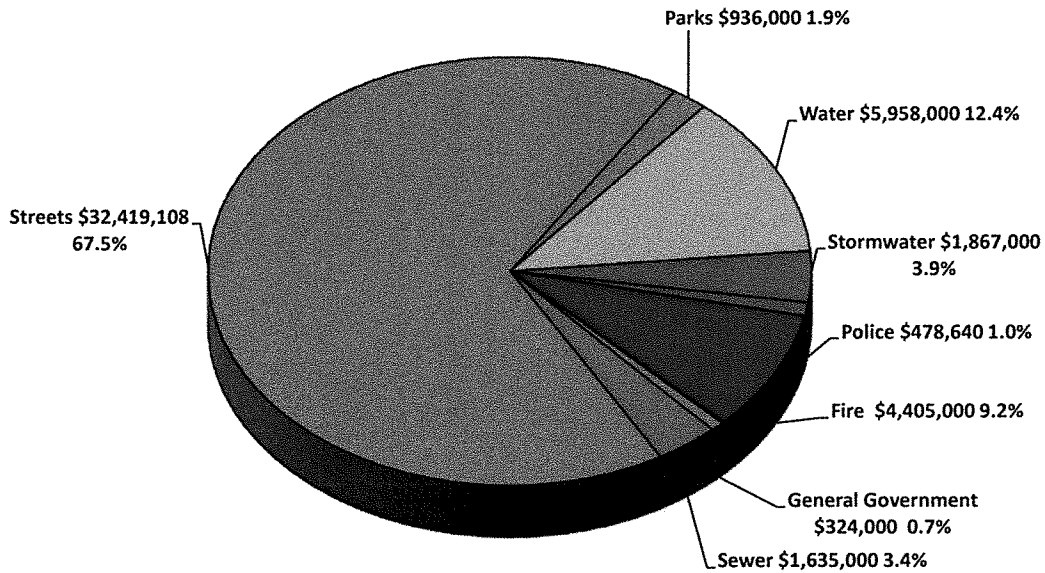
| REET 1 - REVENUE                           |                                    | Capital Improvement Plan 2017 - 2022 |                |                |                |                |                |
|--|------------------------------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|
|  | Total \$<br>Project<br>2017 - 2022 | 2017                                 | 2018           | 2019           | 2020           | 2021           | 2022           |
| Beginning Fund Balance                     | 187,770                            | 152,258                              | 141,783        | 146,603        | 156,679        | 235,466        | 326,941        |
| REET Revenue (annual)                      |                                    |                                      |                |                |                |                |                |
| 1/4 of 1% REET - Existing Property         | 631,138                            | 71,775                               | 87,300         | 103,125        | 115,500        | 123,438        | 130,000        |
| 1/4 of 1% REET - Other new homes           | 570,000                            | 41,250                               | 67,500         | 93,750         | 144,375        | 148,125        | 75,000         |
| <b>Subtotal REET I Revenue</b>             | <b>1,201,138</b>                   | <b>113,025</b>                       | <b>154,800</b> | <b>196,875</b> | <b>259,875</b> | <b>271,563</b> | <b>205,000</b> |
| <b>General Government</b>                  | <b>1,388,908</b>                   | <b>265,283</b>                       | <b>296,583</b> | <b>343,478</b> | <b>416,554</b> | <b>507,029</b> | <b>531,941</b> |
| REET 1 - PROJECT EXPENDITURES              |                                    | Capital Improvement Plan 2017 - 2022 |                |                |                |                |                |
|  | Total \$<br>Project<br>2017 - 2022 | 2017                                 | 2018           | 2019           | 2020           | 2021           | 2022           |
| <b>General Government</b>                  |                                    |                                      |                |                |                |                |                |
| G1 City Technology Upgrades                | 160,000                            | 35,000                               | 25,000         | 25,000         | 25,000         | 25,000         | 25,000         |
| G2 General Facility Improvements           | 55,000                             | 5,000                                | 5,000          | 30,000         | 5,000          | 5,000          | 5,000          |
| G3 Replace Gen. Govt Vehicles              | 64,000                             |                                      | 20,000         | 15,000         |                | 29,000         |                |
| G4 Comprehensive Plan Completion           | 35,000                             | 35,000                               |                |                |                |                |                |
| G5 Gym / Wayfinding Signs                  | 11,000                             | 11,000                               |                |                |                |                |                |
| <b>Subtotal General Government</b>         | <b>325,000</b>                     | <b>86,000</b>                        | <b>50,000</b>  | <b>70,000</b>  | <b>30,000</b>  | <b>59,000</b>  | <b>30,000</b>  |
| <b>Parks</b>                               |                                    |                                      |                |                |                |                |                |
| P2 Grant Matching Funds                    | 25,000                             | 2,500                                | 2,500          | 5,000          | 5,000          | 5,000          | 5,000          |
| P3 Park Plan Update                        | 40,000                             |                                      | 20,000         | 20,000         |                |                |                |
| P5 Boat Launch Shoreline Restoration       | 150,000                            |                                      |                |                | 30,000         |                | 120,000        |
| P6 New Niche Wall                          | 20,000                             |                                      | 20,000         |                |                |                |                |
| P7 Rehabilitate E. Ginder Creek Property   | 40,000                             | 20,000                               |                |                |                |                | 20,000         |
| <b>Subtotal Parks</b>                      | <b>275,000</b>                     | <b>22,500</b>                        | <b>42,500</b>  | <b>25,000</b>  | <b>35,000</b>  | <b>5,000</b>   | <b>145,000</b> |
| <b>Public Safety</b>                       |                                    |                                      |                |                |                |                |                |
| L1 Police Technology                       | 140,000                            | 15,000                               | 25,000         | 25,000         | 25,000         | 25,000         | 25,000         |
| L2 Patrol Car Replacement Plan             | 40,000                             |                                      |                |                |                |                | 40,000         |
| <b>Total Public Safety</b>                 | <b>180,000</b>                     | <b>15,000</b>                        | <b>25,000</b>  | <b>25,000</b>  | <b>25,000</b>  | <b>25,000</b>  | <b>65,000</b>  |
| <b>Total REET 1 Projects</b>               | <b>780,000</b>                     | <b>123,500</b>                       | <b>117,500</b> | <b>120,000</b> | <b>90,000</b>  | <b>89,000</b>  | <b>240,000</b> |
| REET 1 Debt Repayment for Fire Vehicles    | 137,276                            |                                      |                | 34,319         | 34,319         | 34,319         | 34,319         |
| REET 1 Debt Repayment for Police Cars      | 235,267                            |                                      | 32,480         | 32,480         | 56,769         | 56,769         | 56,769         |
| <b>TOTAL REET 1</b>                        | <b>1,015,267</b>                   | <b>123,500</b>                       | <b>149,980</b> | <b>186,799</b> | <b>181,088</b> | <b>180,088</b> | <b>331,088</b> |
| REET 1 left for next year (Ending Balance) | 373,641                            | 141,783                              | 146,603        | 156,679        | 235,466        | 326,941        | 200,853        |
| <b>REET based on Houses sold</b>           |                                    | <b>2017</b>                          | <b>2018</b>    | <b>2019</b>    | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    |
| Existing Property Sales (in 000's)         |                                    | 87 @\$330                            | 97 @\$360      | 110 @\$375     | 120 @\$385     | 125 @\$395     | 130 @\$400     |
| Other new home sales (in 000's)            |                                    | 50 @\$330                            | 75 @\$360      | 100 @\$375     | 150 @\$385     | 150 @\$395     | 75 @\$400      |

## Capital Improvement Plan 2017 - 2022

### Total Summary by Department

| CAPITAL PROJECTS           |                                 |                    |                    |                    |                    |                     |                    |
|----------------------------|---------------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
| Departments                | Total \$ Project<br>2017 - 2022 | 2017               | 2018               | 2019               | 2020               | 2021                | 2022               |
| Street Department          | 32,419,108                      | 7,528,108          | 3,851,000          | 3,810,000          | 6,660,000          | 9,100,000           | 1,470,000          |
| Water Department           | 5,958,000                       | 530,000            | 2,514,000          | 371,000            | 623,000            | 870,000             | 1,050,000          |
| Sewer Department           | 1,635,000                       | 160,000            | 367,000            | 82,000             | 422,000            | 92,000              | 512,000            |
| Stormwater Department      | 1,867,000                       | 57,000             | 1,500,000          | 40,000             | 50,000             |                     | 220,000            |
| Parks and Recreation       | 936,000                         | 37,500             | 124,500            | 45,000             | 91,000             | 343,000             | 295,000            |
| Police Department          | 478,640                         | 184,320            | 34,320             | 145,000            | 25,000             | 25,000              | 65,000             |
| Fire Department            | 4,405,000                       |                    | 365,000            |                    | 825,000            | 125,000             | 3,090,000          |
| City Administration        | 341,000                         | 92,000             | 50,000             | 80,000             | 30,000             | 59,000              | 30,000             |
| <b>TOTAL Project COSTS</b> | <b>\$48,039,748</b>             | <b>\$8,588,928</b> | <b>\$8,805,820</b> | <b>\$4,573,000</b> | <b>\$8,726,000</b> | <b>\$10,614,000</b> | <b>\$6,732,000</b> |

**Total CIP:                    \$48,039,748**





**DRAFT  
CITY OF BLACK DIAMOND**

**2016 Schedule  
2017 – 2022 Capital Improvement Plan (CIP)**

|   | Process   | Internal Due Date     | Workstudy | City Council Meetings |
|---|---|-----------------------|-----------|-----------------------|
| 1 | CIP Planning Meeting  | Feb 23                |           |                       |
| 2 | CIP Call letter & worksheet to affected departments (include goals, rules and timelines)  | March 1               |           |                       |
| 3 | Departments Update detailed requests and submit to Finance and City Administration  | July 11 – July 29     |           |                       |
| 4 | Finance combines revenue and all Department requests for review by Administration. Administration Reviews with Finance and Departments to requested Projects. | Aug 1 - 9             |           |                       |
| 5 | Finance, Public Works, Administration meet with Mayor to review PW projects & revenue   | Aug 10                |           |                       |
| 6 | CIP Workstudy – Non Public Works  |                       | August 25 |                       |
| 7 | CIP Workstudy – Public Works  |                       | Sept 8    |                       |
| 8 | Public Hearing for 2017 – 2022 CIP  | Aug 26 - in newspaper |           | Sept 15               |
| 9 | Council adopts 2017 – 2022 CIP  |                       |           | Sept 15 or Oct 6      |