Shaping our community together

CITY OF LACEY

LACEY CITY COUNCIL
WORKSESSION

THURSDAY, APRIL 7, 2016
7:00 – 8:15 P.M.
LACEY CITY HALL – 420 COLLEGE STREET SE

AGENDA

7:00 **LEGISLATIVE SESSION WRAP-UP**
MARK BROWN, LOBBYIST
(VERBAL – PRESENTATION)

7:45 **CAPITAL FACILITIES PLAN**
TOM PALMATEER, MANAGEMENT ANALYST
(STAFF REPORT ATTACHED)

8:15 **ADJOURN**

LACEY CITY COUNCIL WORKSESSION
April 7, 2016

SUBJECT: **2016 – 2035 Capital Facilities Plan**

RECOMMENDATION: **Review the 2016 – 2035 Capital Facilities Plan and forward to the April 14, 2016, Council Meeting for adoption.**

STAFF CONTACT: Scott Spence, City Manager
Toy Woo, Finance Director
Scott Egger, Public Works Director
Rick Walk, Community Development Director
Tom Palmateer, Management Analyst
Ryan Andrews, Planning Manager

ORIGINATED BY: Public Works Department

ATTACHMENTS:
1. Ordinance
2. 2016-2035 Capital Facilities Plan

FISCAL NOTE: The Capital Facilities Plan (CFP) details the City of Lacey's anticipated public projects with a financial timeline. Funding for public projects are paid for, but not limited to, using current funds, grants, and debt.

PRIOR REVIEW: City of Lacey Planning Commission held a public hearing on March 1, 2016, then took action to endorse the CFP and forward to the City Council with a recommendation to approve the CFP.

BACKGROUND:

Capital Facilities Plans are considered a mandatory element of the city's overall Comprehensive Plan by the Growth Management Act as set forth in RCW 36.70A. A Capital Facility Plan element must show an inventory of existing capital facilities, their locations, and a forecast of the future needs to include locations and capacities. It must show a least a six-year plan that details how the city intends to finance the cost of the facilities consistent with the city's revenue forecast.

This new annual update, the 2016 – 2035 Capital Facilities Plan, includes an Executive Summary, an Introduction, and sections for General Government, Parks, Transportation, Wastewater, Stormwater and applicable Appendices. It updates all capital projects planned in the current 6-year window of 2016 to 2021 and future years to 2035.

The last Capital Facilities Plan was adopted on March 26, 2015. This plan is an update to the version adopted in 2015 with only minor changes to project schedules and budgets. The Capital Facilities Plan is updated annually. The update process begins shortly after the adoption of the City's annual budget in December.

ADVANTAGES:

1. This plan updates all sections as of 2016.

DISADVANTAGES:

1. None.

2016-2035
Capital Facilities Plan

LACEY CITY COUNCIL
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Scott H. Spence

CITY OF LACEY

Prepared by
Tom Palmateer, Management Analyst

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Executive Summary

This Executive Summary provides "bottom line" financial information summarizing capital project costs and proposed funding sources of capital facility projects included in the first six years of this twenty year Capital Facilities Plan.[1] For a detailed explanation of capital facilities planning procedures, the effect of the State Growth Management Act on such planning, and how to read the various sections of this plan, please refer to the *Introduction* section.

Capital Project Costs for the 6-Year Financial Planning Period

Capital project costs for the City of Lacey 2016-2021 six year financial planning period total $132,348,956. Table 1.1 illustrates planned capital costs by project category and year of expenditure. Chart 1.1 illustrates the percentage of the plan's six year capital costs attributed to each project category.

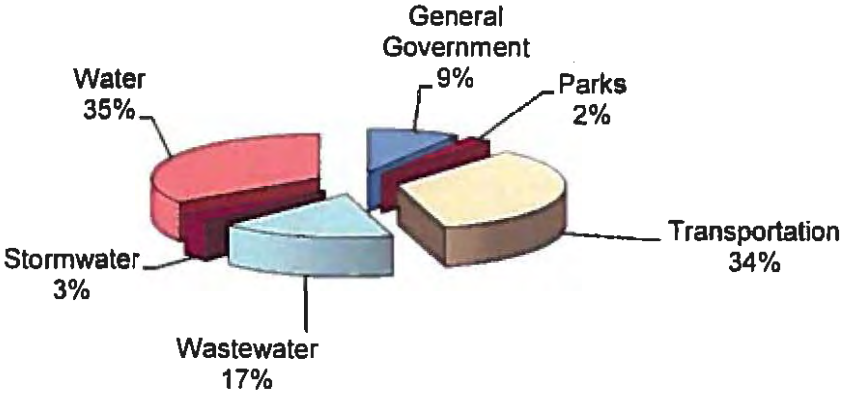
Table 1.1

6-Year Financial Planning Period Capital Costs By Category

	2016	2017	2018	2019	2020	2021	Total
General Government	208,305	95,000	87,500	1,153,275	6,560,199	3,696,786	11,801,065
Parks	189,000	54,200	460,000	125,000	100,000	2,000,000	2,928,200
Transportation	12,197,500	12,729,800	8,158,403	2,217,897	8,263,888	1,950,000	45,517,488
Wastewater	7,546,397	6,257,980	1,815,464	4,169,837	985,170	1,397,526	22,182,374
Stormwater	1,243,999	267,732	726,998	649,643	983,728	470,699	4,342,799
Water	7,460,577	5,712,061	6,376,492	11,820,200	6,409,600	7,798,100	45,577,030
TOTAL	$28,845,778	$25,126,773	$17,624,857	$20,135,852	$23,302,585	$17,313,111	$132,348,956

Chart 1.1

Percentage of 2016-2021 Capital Costs by Category



1. The Growth Management Act requires that capital facilities be planned twenty years into the future, and that a financing plan be identified for the first six years.

Revenue Source Availability for the 6-Year Financial Planning Period

Utility Projects. City water, wastewater, and stormwater utilities are operated like businesses and must be self-supporting, and therefore do not receive support from the General Fund of the City. Utility projects are funded through a combination of general facility charges, user fees, utility local improvement districts, developer improvements, and utility replacement funds. In addition, state and federal grants also play an important role in the funding of utility projects.

Non-Utility Projects. General Government, Parks, and Transportation projects are funded through general revenue, non-voted (Councilmanic) and voted general obligation bonds, grants, cost sharing with neighboring jurisdictions (on shared projects), local improvement districts (LID's), and developer contributions.

The reader is invited to review the *City of Lacey Budget* for a more detailed explanation of revenue sources and their relationship to specific funds. Budget documents are available in the reference section of the Lacey Library and at Lacey City Hall.

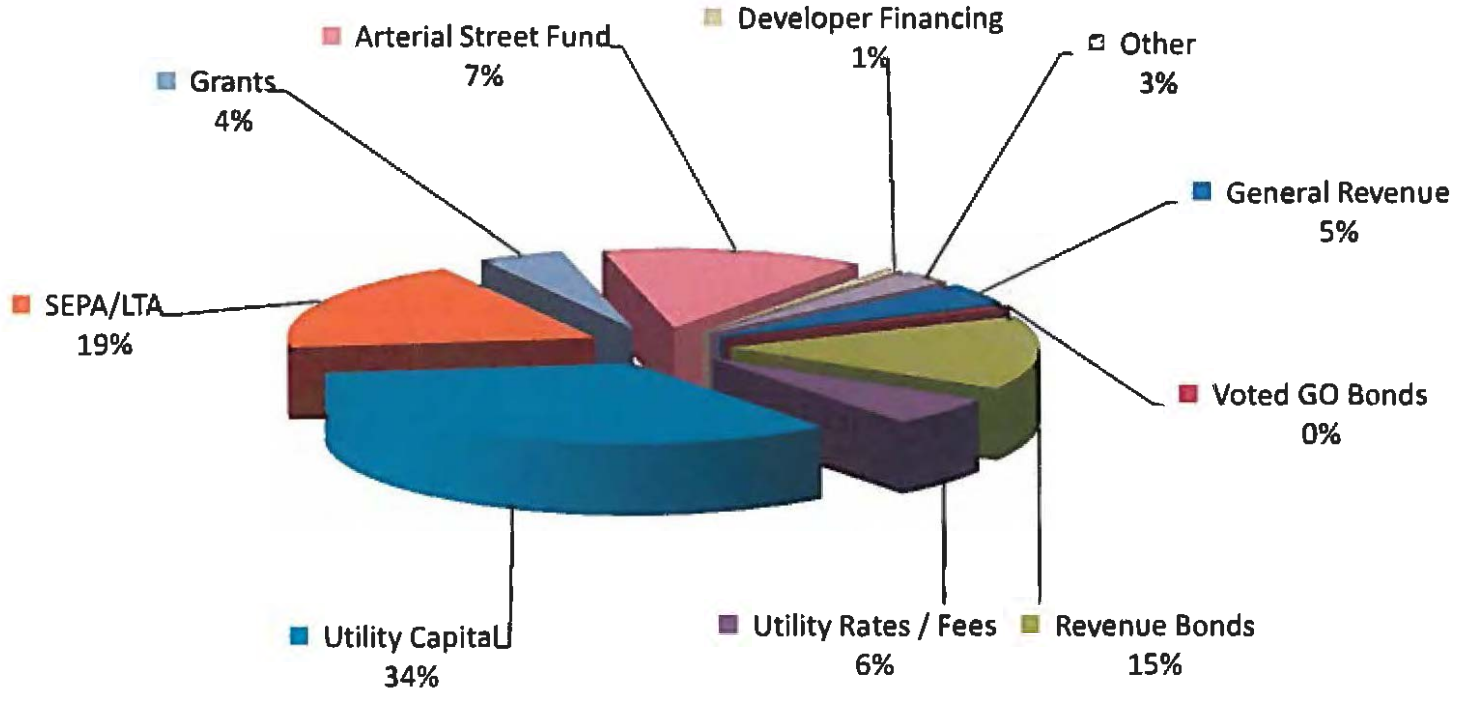
Table 1.2

6-Year Financing Plan for all Projects By Revenue Source

	2016	2017	2018	2019	2020	2021	Total
General Revenue	358,305	137,478	542,500	350,000	2,050,000	2,685,000	6,123,283
Voted GO Bonds				25,000	100,000	500,000	625,000
Revenue Bonds	3,028,279	500,000	1,673,800	8,132,231	5,276,625	1,144,699	19,755,634
Utility Rates / Fees	1,594,482	1,008,560	464,202	2,104,330	1,162,229	1,446,715	7,780,518
Utility Capital	11,312,760	10,739,213	6,780,952	6,403,119	1,939,644	7,074,911	44,250,599
State Grants	6,468,373	6,839,200	2,789,190	1,037,500	6,009,860	1,530,000	24,674,123
Federal Grants	2,467,874	1,695,774		508,447	300,000	950,000	5,922,095
Arterial Street Fund	2,665,605	3,710,826	5,336,558	1,209,450	4,404,028	1,000,000	18,326,467
Traffic Mitigation	752,100	484,000	32,655				1,268,755
Other	198,000	11,722	5000	365,775	2,060,199	981,786	3,622,482
TOTAL	$28,845,778	$25,126,773	$17,624,857	$20,135,852	$23,302,585	$17,313,111	$132,348,956

Chart 1.2

Percentage of 2016-2021 CFP Financing by Revenue Source



Introduction

What are Capital Facilities, and Why Do We Need to Plan for Them?

Capital facilities are all around us. They are the public facilities we all use, and possibly take for granted, on a daily basis. They are our public streets and transportation facilities, our city parks and recreation facilities, our public buildings such as libraries, fire stations, and community centers, our public water systems that bring us pure drinking water, and the sanitary sewer systems that collect our wastewater for treatment and safe disposal. Even if you don't reside within the City of Lacey, you use capital facilities every time you drive, eat, shop, or play here.

All of these facilities must be planned years in advance to assure that they will be available and adequate to serve all who need or desire to utilize them. Such planning involves determining not only where the facilities will be needed, but when; and not only how much they will cost, but how they will be paid.

City of Lacey Capital Facilities

Public Buildings
—
Public Street and Trail Systems
—
Public Parks
—
Public Water Systems
—
Public Sewer Systems
—
Public Storm Drainage Systems

The State Growth Management Act and the Capital Facilities Planning Process

In 1990, in response to the effect of unprecedented population growth on our state's environment and public facilities, the Washington State Legislature determined that "uncoordinated and unplanned growth, together with a lack of common goals expressing the public's interest in the conservation and the wise use of our lands, pose a threat to the environment, sustainable economic development, and the health, safety, and the high quality of life enjoyed by the residents of this state," and that "it is in the public interest that citizens, communities, local governments, and the private sector cooperate and coordinate with one another in comprehensive land use planning." The *State of Washington Growth Management Act* (GMA) was adopted by the Legislative body in that year to address these concerns.

The GMA requires that all jurisdictions located within counties that (a) have a population of 50,000 or more people and have experienced a population increase of ten or more percent over the last ten years, or (b) regardless of current population have experienced a population increase of twenty or more percent over the last ten years, must write, adopt, and implement local comprehensive plans that will guide all development activity within their jurisdictions and associated Urban Growth Areas (UGA) over the next twenty years. Each jurisdiction is required to coordinate its comprehensive plan with the plans of neighboring jurisdictions, and unincorporated areas located within designated Urban Growth Areas must be planned through a joint process involving the associated city and county.

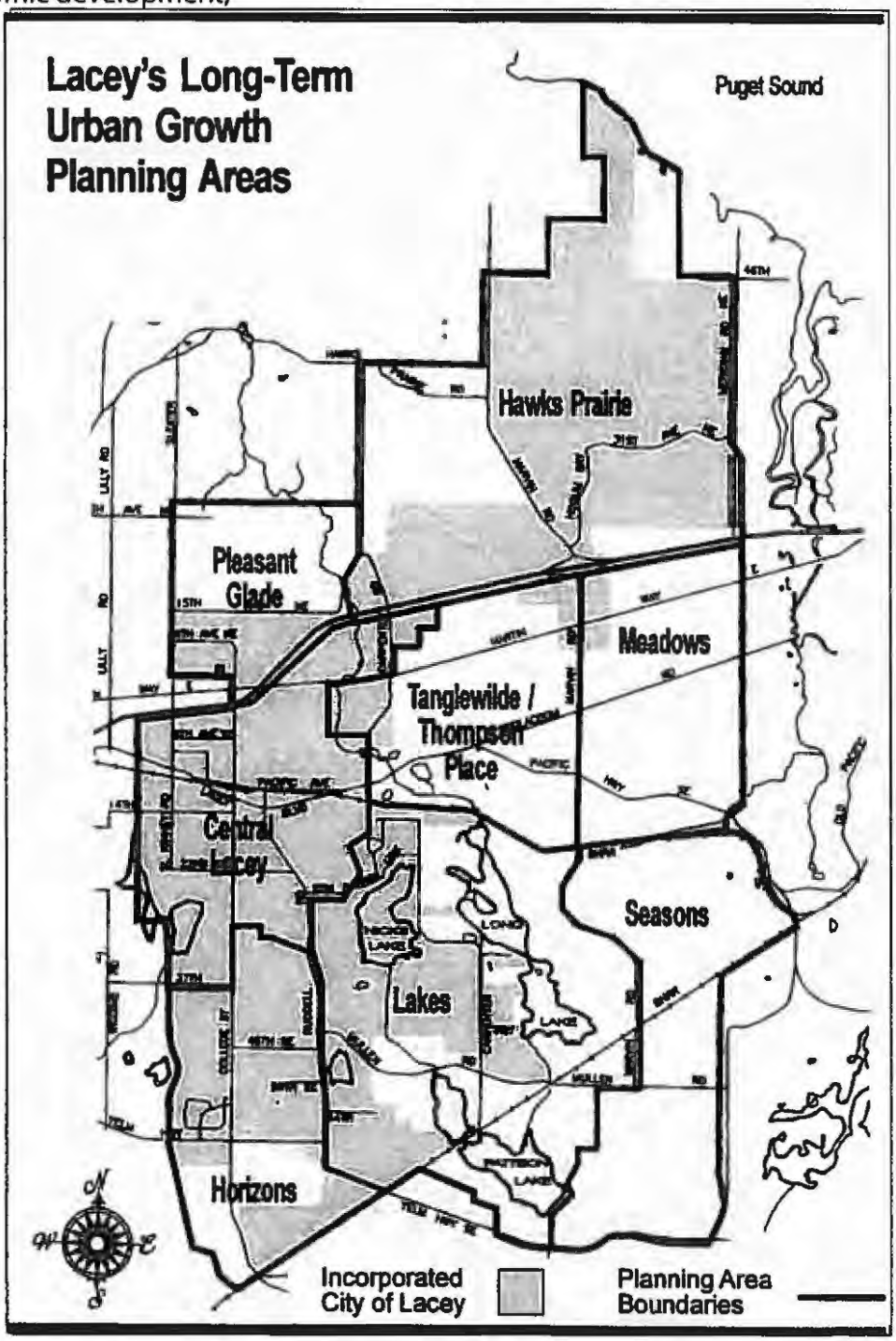
The GMA requires that jurisdictional comprehensive plans guide growth and development in a manner that is consistent with the following State planning goals:

1) Encouragement of urban-density growth within designated urban growth areas;

2) Reduction of urban sprawl outside of designated urban growth management areas;
3) Encouragement of efficient transportation systems, including alternate systems of travel;
4) Encouragement of affordable housing availability to all economic segments;
5) Encouragement of economic development;
6) Just compensation for private property taken for public use;
7) Timely processing of governmental permits;
8) Enhancement of natural resource based industries and encouragement of productive land conservation;
9) Encouragement of open space retention for recreational opportunities and wildlife habitat;
10) Protection of the environment, including air and water quality;
11) Encouragement of citizen participation in the planning process;
12) Provision of adequate public facilities to support development without decreasing current service standards below locally established-minimum standards; and
13) Encouragement of the preservation of lands, sites, and structures that have either historical or archaeological significance.

This Capital Facilities Plan as an Element of Lacey's Comprehensive Plan

The Growth Management Act requires inclusion of six mandatory planning elements in each jurisdictions' comprehensive plan, and suggests the inclusion of several optional elements. The **mandatory elements** required by the GMA are:



1) A Land Use Element designating the proposed general distribution and general location of uses of land for a variety of purposes, including housing, commerce, industry, recreation and open space;

2) A Housing Element that includes (a) an inventory and analysis of existing and projected housing needs; (b) a statement of goals, policies, and objectives for the preservation, improvement, and development of housing; (c) identification of sufficient land for housing; and (d) adequate provision for existing and projected needs of all economic segments of the community;

3) A Utilities Element that includes the general location, proposed location, and capacity of all existing and proposed utilities, including, but not limited to, electrical lines, tele-communication lines, and natural gas lines;

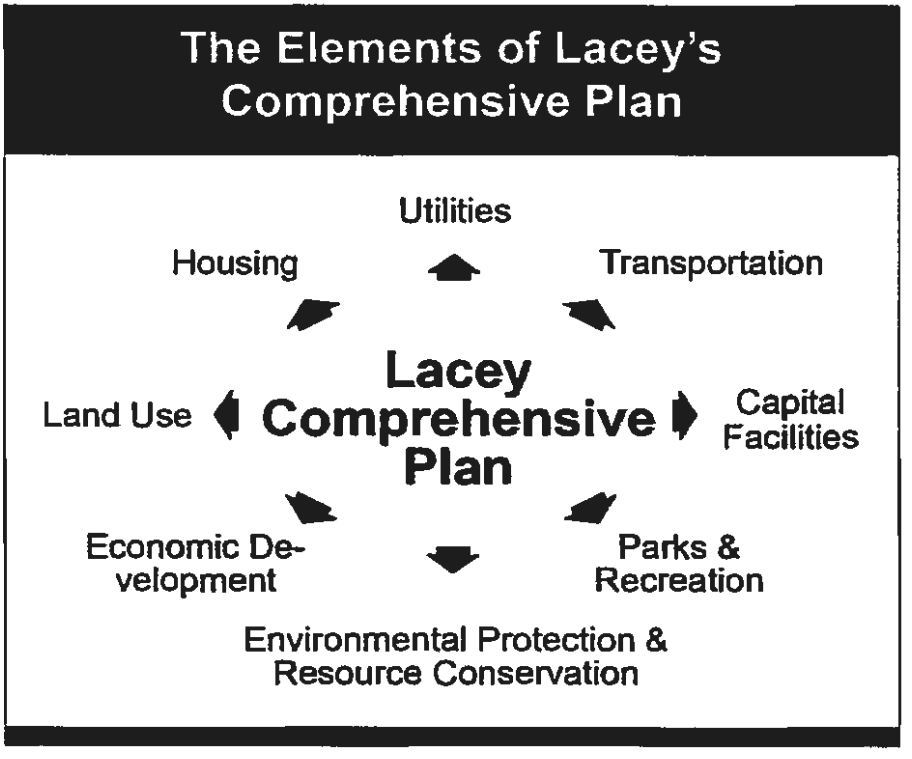
4) A Transportation Element that implements and is consistent with the land use element, with an analysis of funding capability to judge needs against probable funding sources; and

5) An Environmental Protection and Resource Conservation Element that identifies natural resource lands and critical areas, as well as open space corridors useful for recreation, wildlife habitat, trails and connections between critical areas; and

6) A Capital Facilities Plan Element that includes (a) an inventory of existing public capital facilities, showing the locations and capacity of such facilities; (b) a forecast of the future needs for such capital facilities; (c) the proposed locations and capacities of expanded or new capital facilities; (d) at least a six-year plan to finance the needed facilities with sources of funding identified; and e) an analysis of the financial capacity of the jurisdiction to utilize the funding sources identified.

Optional elements jurisdictions are encouraged to incorporate into their comprehensive plans include solar energy and recreation. Lacey has elected to include a **Parks and Recreation Element**, as well as an **Economic Development Element**. While economic development is not

Chart 2.1



specifically listed as either mandatory or optional, the act does stress the importance of economic planning.

Each of Lacey's Comprehensive Planning Elements, shown in Chart 2.1, require specialized planning. The GMA requires, however, that planning done under each element be coordinated and consistent with planning done under other elements.

Concurrency and Levels-of-Service Requirements

The Growth Management Act requires jurisdictions to have capital facilities in place and readily available when new development occurs or a service area population grows. This concept is known as *concurrency*. Specifically, this means that:

1) All public facilities needed to serve new development and/or a growing service area population must be in place at the time of initial need. If the facilities are not in place, a financial commitment must have been made to provide the facilities within six years of the time of the initial need; and

2) Such facilities must be of sufficient capacity to serve the service area population and/or new development without decreasing service levels below locally established minimum standards, known as levels-of-service.

Levels-of-service are quantifiable measures of capacity, such as acres of park land per capita, vehicle capacity of intersections, or gallons of water available per capita in a water system. Minimum standards are established at the local level. Factors that influence local standards are citizen, City Council, and Planning Commission recommendations, national standards, and the standards of neighboring jurisdictions.

The GMA stipulates that if a jurisdiction is unable to provide or finance capital facilities in a manner that meets concurrency and level-of-service requirements, it must either (a) adopt and enforce ordinances which prohibit approval of proposed development if such development would cause levels-of-service to decline below locally established standards, or (b) lower established standards for levels-of-service.

This Capital Facilities Plan, then, must identify *where* and *when* public capital facilities will be required to maintain concurrency and levels-of-service in Lacey's UGA service area. And, just as importantly, it must demonstrate *how* the City will finance them.

Determining Where, When and How Capital Facilities Will be Built

In planning for future capital facilities, several factors have to be considered, many unique to the type of facility being planned. The process used to determine the location of a new park is very different from the process used to determine the location of a new sewer line. Many sources of financing can only be used for certain types of projects. This capital facilities plan, therefore, is actually the product of seven separate but coordinated compre-hensive planning documents, each focusing on a specific type of facility. Future *sewer* requirements are addressed via a sewer plan; parks facilities through a parks and recreation plan; storm drainage facility needs through three stormwater basin plans; water facility needs through a water plan; and transportation needs through a transportation plan.

In addition, the recommendations of local citizens, the Lacey City Council, and the Lacey and Thurston County Planning Commissions are considered when determining types and locations of projects.

The Plans and People Behind This Capital Facilities Plan

Chart 2.2

Chart 2.2 demonstrates how the Land Use Element of the City's Comprehensive Plan directly impacts the other plans and ultimately the CFP. By establishing allowable land uses, such as residential, commercial, industrial, park land or open space, and minimum and maximum densities, the Land Use Element affects the type and required capacities of capital facilities required to support those uses.

Chart 2.3 illustrates how much of Lacey's total planning area is allocated to each classification of land use. Readers wishing more detailed explanations of land use planning and methodologies are encouraged to read the *Land Use Element of the Comprehensive Plan*, which is available in the reference section of the Lacey Library.

Population Forecasts for Lacey's Urban Growth Area

The GMA mandates that capital facilities plans be structured to accommodate projected population growth within a jurisdiction's Urban Growth Area planning area. Thurston Regional Planning Council projects 148,900 prospective new people in Thurston County by the year 2030, for a total county population of 373,000. The City of Lacey and its associated UGA area is expected to accommodate almost one-third of this new growth, an additional 42,010 people. Each of the capital project category sections of this CFP demonstrate how the facilities listed under that section have been planned to accommodate the additional growth.

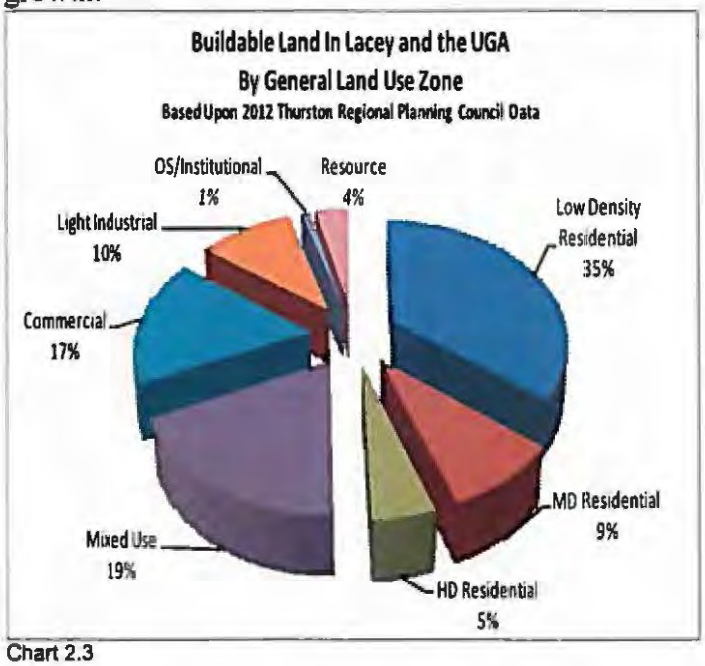


Chart 2.3

How to Read This Capital Facilities Plan

The first section of this document is the **Executive Summary**. Its purpose is to provide "bottom line" financial information summarizing capital project costs and proposed funding sources of capital facility projects included in the first six years of this 20 year Capital Facilities Plan.

Following the **Introduction** section, all of the projects proposed within this CFP's six year and twenty year planning windows are presented in

the following project categories:

- **General Government Projects**
- **Park Projects**
- **Transportation Projects**
- **Sewer Projects**
- **Storm Drainage Projects**
- **Water Projects**

Each of the project category sections are organized in the same way and contain:

1) A narrative providing a general background of the planning activities done under that section, as well as discussion of planning goals and policies, documents supporting the section's projects, and key issues related to that particular planning area;

2) A level-of-service analysis explaining the City's level-of-service standards in the particular section, and how scheduled projects will affect the level-of-service levels;

3) A six-year project financing plan identifying intended project funding sources for that section. The Growth Management Act requires that capital facilities funding sources be identified within 6 years of determining a project's need.

4) An inventory map showing existing facilities in that section;

5) A project location map showing the location of projects proposed under that section;

6) A project summary sheet summarizing proposed project construction costs, revenue sources, and operating costs for all projects in that category; and

7) Individual project worksheets detailing the description, UGA planning area location, justification, supporting planning documents, status, funding sources, and construction and operating costs of all individual project found in that section.

Following the project sections, an Appendix section contains a glossary of terms used in this document; an explanation of capital project revenue sources; the *North Thurston School District Capital Facilities Plan*; and the *Thurston County Capital Facilities Plan*.

Joint Projects and Projects by Other Jurisdictions

Several of the projects listed within this document will be undertaken jointly with other jurisdictions or agencies. A stormwater project, for instance, may address a drainage problem that ignores city or UGA boundaries. A transportation project may involve the upgrading of a roadway that crosses in and out of the city and the county. On such projects, joint planning and financing arrangements have been detailed on the individual project's worksheet.

Capital Facilities Not Provided by the City

In addition to planning for public buildings, streets, parks, trails, and water, sewer, and storm drainage systems, the GMA requires that jurisdictions plan for 1) public school facilities, and 2) solid waste collection and disposal facilities. These facilities are planned for and provided throughout the Lacey UGA area by the North Thurston School District and the Thurston County Department of Solid Waste, respectively.

General Government

2016 - 2035

Doug Walker Photo

Background

General Government facilities are designed to meet a broad spectrum of needs — facilities that directly serve the public, such as a library or community center, and those that house city and contractual employees as they work to assure that public and governmental responsibilities are met.

The City of Lacey contracts with a number of public and interlocal agencies for a variety of general government services, including senior services, municipal court services, library services, animal services and public health and social services. Contracting for such services provides efficiencies and economies of scale that significantly reduce our community's general government capital facilities planning and financing requirements.

General Government Facility Planning

The policy of the City Council is to provide essential public services and enhancements in a manner that is cost effective and based on documented need. As mentioned above, many general government services and associated capital facilities are provided through contractual arrangements to take advantage of the efficiencies and economies of scale achieved. The general government facilities included in this Capital Facilities Plan are those in which the city is either the primary or a significant provider.

Level-of-Service

General government facilities level-of-service may be defined by community preference and standards, or by association, state, or national guidelines. For instance, while service capacity needs for community centers, economic development facilities, or other "quality of life" facilities are determined at the local level, Washington State standards affect other facilities.

The Lacey Senior Center, located in Woodland Creek Community Park, opened in July of 2003. The center is owned by the City of Lacey, and has been managed by Senior Services for South Sound since opening. The Lacey Senior Center serves a regional population of nearly 74,000. The demand for services offered within the 5,035 square-foot building has grown at exponential rates. Meals-on-Wheels and on-site lunches have surged from 4,992 to 29,101 annually. Demand for social services has tripled. A 5,400 square foot addition, constructed in 2013, is projected to meet needs through 2020. In 2016-2017, the parking will be expanded with an additional 50 stalls. The senior population in Thurston County will nearly double by the end of the next decade, with 11,000 new seniors in Lacey. By 2030, a Phase 3 expansion could add an additional 2,800 square-feet to accommodate the population growth.

Fundraising for the Lacey Museum at the Depot

will kick-off at a ceremony in December to celebrate Lacey's 50th anniversary of incorporation and 125th anniversary of establishment. The existing museum is too small to display the present collection, with no room for growth and improper conditions to store the collection. The city proposes to secure outside funds to reconstruct an 8,500 square-foot replica of the 1891-era historic train depot. The depot was important in the settlement and development of the Lacey community.

Accomplishments Since 2007

Lacey's City Hall Expansion has been completed at a cost of $7.5 million, funded with city general revenue and non-voted general obligation bonds. The Lacey City Hall Renovation Project is also complete, financed with $1.8 million in general revenues.

One notable public art project, the Hawk Sculpture, was commissioned and installed at the Quinault and Galaxy Drive roundabout at a cost of $75,000. The public art program has been suspended but will be reactivated in future years as the economy improves.

Phase II of the Woodland Trail, from Sleater-Kinney Road to Woodland Creek Community Park, is complete and open for public use. Construction totaled $2,475,000. The project was financed through a combination of grants and funding partners: $445,000 in Federal Transportation, Housing, and Urban Development funding; the Washington State Department of Transportation Surface Transportation Program (STP) allocated $637,000; $1 million of American Recovery and Reinvestment Act (ARRA) funds, and city contributions of $392,000. The segment to the east from Woodland Creek Community Park to McAllister Park is planned for 2020 – 2030, or whenever the active rail line is abandoned.

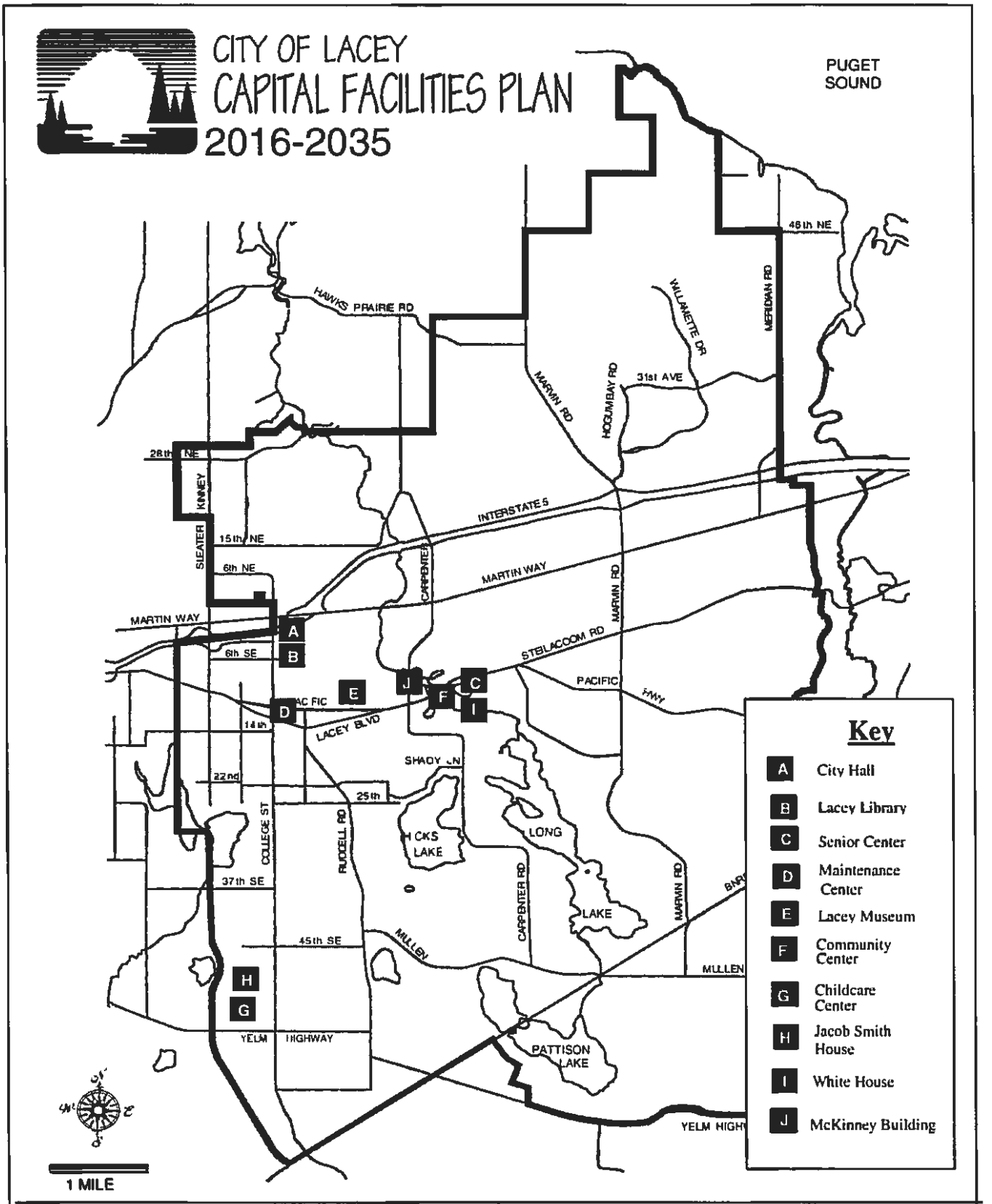
The Lacey Senior Center Expansion Project was completed in the spring of 2013, enlarging the kitchen and dining hall for meal service, adding a total of 5,400 square-feet. The $3,089,685 project was financed with $1.86 million from the City Building Reserve Account, $1 million in federal CDBG funds, $44,600 in Program Income and $188,085 from either fundraising events or donations from individuals and local organizations.

Capital Project Financing

The financing plan for the next six years of the General Government section of the 2016-2021 Capital Facilities Plan is illustrated in the table below. Funding sources include general revenue, voted bonds, utility revenue, federal and state grants, as well as grants from foundations, local corporate and individuals donations, and contributions from service partners.

FUNDING SOURCES	2016	2017	2018	2019	2020	2021	Total
General Revenue	208,305	83,278	87,500	300,000	2,050,000	2,685,000	5,414,083
Voted G.O. Bonds							
Utility Rates and Fees							
Grants				487,500	2,450,000	530,000	3,467,500
Other		11,722		365,775	2,060,199	481,786	2,919,482
TOTAL	$208,305	$95,000	$87,500	$1,153,275	$6,560,199	$3,696,786	$11,801,065

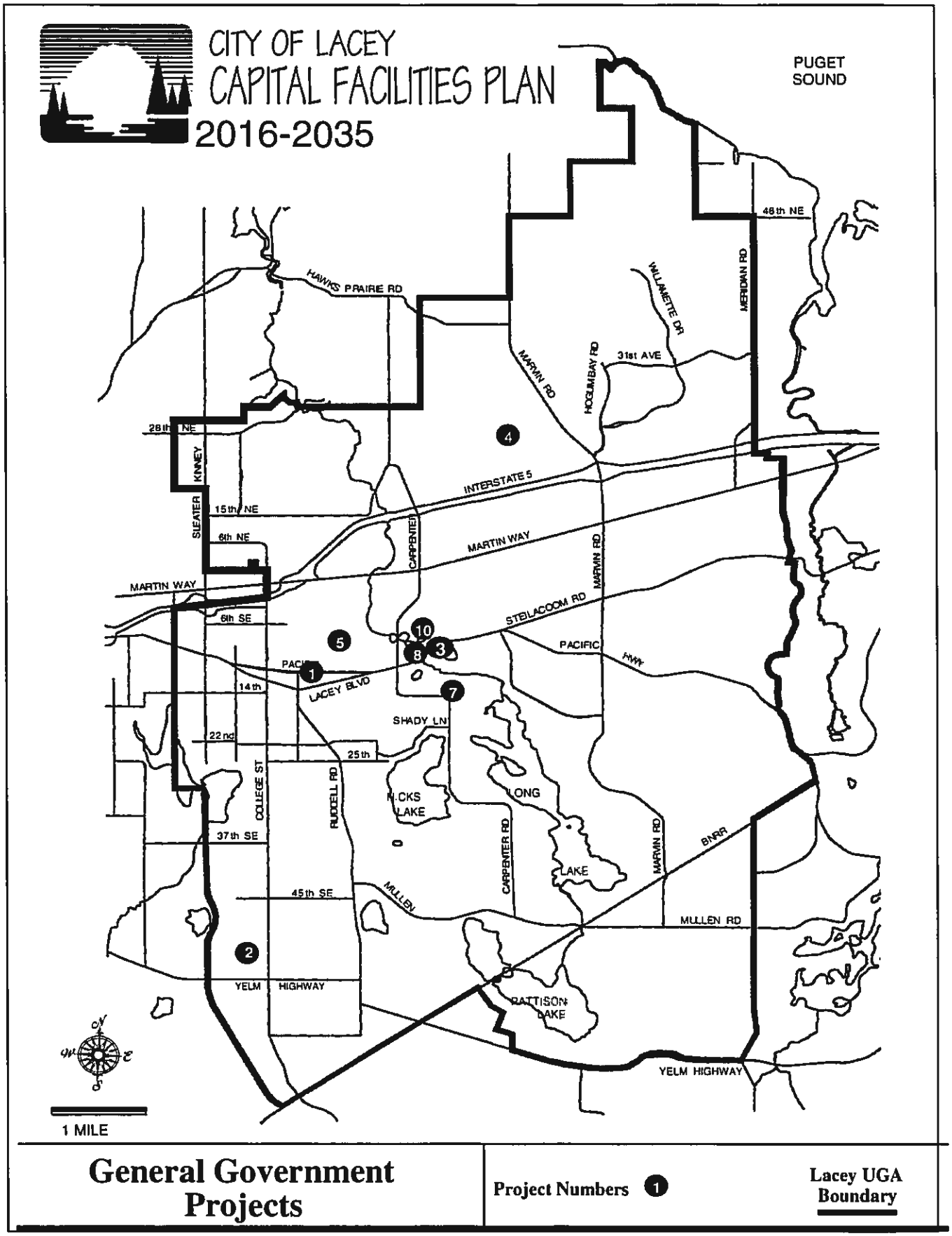
Table 3.1 Funding Sources



City Buildings and Facilities Inventory Map

City Buildings and Facilites A

Lacey UGA Boundary



General Government Projects

Project Numbers 1

Lacey UGA Boundary

CITY OF LACEY 2016-2035 CAPITAL FACILITIES PLAN
GENERAL GOVERNMENT PROJECTS SUMMARY SHEET

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING SOURCES										
General Revenue	2,201,469	208,305	83,278	87,500	300,000	2,050,000	2,685,000	5,414,083	46%	9,225,000
Voted G.O. Bonds										10,350,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants	1,000,000				487,500	2,450,000	530,000	3,467,500	29%	3,500,000
SEPA / LTA										
Developer Financing										
Other	229,685		11,722		365,775	2,060,199	481,786	2,919,482	25%	
TOTAL	3,431,154	208,305	95,000	87,500	1,153,275	6,560,199	3,696,786	11,801,065	100%	23,075,000
EXPENDITURES BY CATEGORY										
Planning	56,000									60,000
Preliminary Design	190,417									150,000
Design & Engineering	409,444	208,305		67,500	480,775	211,755	10,000	978,335	8%	627,500
Land / ROW Acquisition						2,000,000	2,500,000	4,500,000	38%	2,375,000
Construction	2,731,793		40,000	20,000	642,500	3,255,000	1,151,786	5,109,286	43%	19,840,000
Other	43,500		55,000		30,000	1,093,444	35,000	1,213,444	10%	22,500
TOTAL	3,431,154	208,305	95,000	87,500	1,153,275	6,560,199	3,696,786	11,801,065	100%	23,075,000
EXPENDITURES BY PROJECT										
GG- 1 New Depot Museum Facility	246,417	208,305	55,000		445,775	4,560,199	1,011,786	6,281,065	53%	
GG- 2 Jacob Smith House Parking & Pavillion					300,000		185,000	485,000	4%	
GG- 3 Senior Center Expansion	3,089,685			67,500	382,500			450,000	4%	1,350,000
GG- 4 Gateway Project						2,000,000	2,500,000	4,500,000	38%	6,000,000
GG- 5 Historic City Hall & Museum					25,000			25,000	0%	
GG- 6 Public Art	95,052		40,000	20,000				60,000	1%	25,000
GG- 7 Woodland Trail Phase 3										3,000,000
GG- 8 Lacey Community Center Phase II and III										10,000,000
GG- 9 Urban Beautification										2,000,000
GG- 10 McKinney Environmental Interpretive Center										700,000
TOTAL	3,431,154	208,305	95,000	87,500	1,153,275	6,560,199	3,696,786	11,801,065	100%	23,075,000

Notes: Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as projects move into the 6-year planning window.

Planning Period:	2016-2035	File Number:	gg01.xls	CFP Project:	GG- 1
Project Title:	New Depot Museum Facility	UGA Area:	Central	Department	Parks
Location:	Pacific Avenue, west of Clearbrook Dr SE	Parks Plan Sector:	Woodland		

Project Description: Replacement public facility for the existing Lacey Museum. The Depot Museum will be constructed in phases as funding is secured. Phase 1 is scheduled to be open after June 1, 2019

Project Justification: The existing building is not adequate to house museum artifacts, exhibits and activities . The Depot Museum will celebrate Lacey's 50th year as an incorporated city and it's 125th year as an established community.

Policy Basis: 2010 Comprehensive Plan for Outdoor Recreation & Council Decision | Current Project Status: Planning | Land Status | City Ownership/Rail Banking Agreement

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	246,417	208,305	43,278			50,000		301,583	5%	
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants					105,000	2,450,000	530,000	3,085,000	49%	
SEPA / LTA										
Developer Financing										
Other - Donations			11,722		340,775	2,060,199	481,786	2,894,482	46%	
TOTAL FUNDING	246,417	208,305	55,000		445,775	4,560,199	1,011,786	6,281,065	100%	
EXPENDITURES										
Planning	56,000									
Preliminary Design	190,417									
Design & Engineering		208,305			445,775	211,755		865,835	14%	
Land / ROW Acquisition										
Construction						3,255,000	976,786	4,231,786	67%	
Other [1]			55,000			1,093,444	35,000	1,183,444	19%	
TOTAL EXPENDITURES	246,417	208,305	55,000		445,775	4,560,199	1,011,786	6,281,065	100%	

Notes: 1. Exhibit Fabrication

Planning Period:	2016-2035	File Number:	gg04.xls	CFP Project:	GG- 2
Project Title:	Jacob Smith House Parking & Pavillion	UGA Planning Area:	Horizons	Department:	Parks
Location:	Jacob Smith House on Intelco Loop SE	Parks Plan Sector:	Rainier Vista		

Project Description: This project will be constructed in phases as funds are available. Phase 1 includes construction of a 60 stall parking lot, lighting, and storm retention. Phase 2 includes construction of a pavillion for rental during outdoor special events.

Project Justification: A covered pavillion and paved parking lot will draw larger groups to rent the Jacob Smith House for social events, such as family reunions and outdoor weddings, and bring in more revenue.

Policy Basis: 2010 Comprehensive Plan for Outdoor Recreation & Council decision Current Project Status: Planning Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2616	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue					300,000		185,000	485,000	100%	
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING					300,000		185,000	485,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					30,000		10,000	40,000	8%	
Land / ROW Acquisition										
Construction					240,000		175,000	415,000	86%	
Other					30,000			30,000	6%	
TOTAL EXPENDITURES					300,000		185,000	485,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	gg02.xls	CFP Project:	GG- 3
Project Title:	Senior Center Expansion	UGA Planning Area:	Tang/Thom	Department:	Parks
Location:	Lacey Senior Center on Pacific Ave	Park Plan Sector:	Thompson Place		

Project Description: Expansion of Lacey Senior Center and parking.

Project Justification: Phase A, 5,400 square feet addition was constructed in 2012-2013. Addition of 50 stalls to the Senior Center parking lot is planned in 2018 and 2800 square feet building addition in 2023.

Policy Basis: 2010 Comprehensive Plan for Outdoor Recreation and Council Decision Current Project Status: Planning Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	1,860,000			67,500				67,500	15%	700,000
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants	1,000,000				382,500			382,500	85%	650,000
SEPA / LTA										
Developer Financing										
Other	229,685									
TOTAL FUNDING	3,089,685			67,500	382,500			450,000	100%	1,350,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	409,444			67,500				67,500	15%	202,500
Land / ROW Acquisition										
Construction	2,636,741				382,500			382,500	85%	1,125,000
Other (furnishings)	43,500									22,500
TOTAL EXPENDITURES	3,069,685 *			67,500	382,500			450,000	100%	1,350,000

Notes: * Confirm when project is complete

Planning Period:	2016-2035	File Number:	gg03.xls	CFP Project:	GG- 4
Project Title:	Gateway Project	UGA Area	Hawks Prairie	Department:	General
Location:	Hawks Prairie Business District				

Project Description: Purchase of 10 acres and construction of City facility(s).

Project Justification: The Gateway Project requires a City municipal presence to be successful. A Memorandum Of Understanding between the project developer and the City agrees to the City's purchase of 10 acres in the Hawks Prairie Business District to establish a City facility such as a Library, public performing arts center, conference center, police sub-station or public plaza.

Policy Basis: Council Decision | Current Project Status: Planning | Land status: Acquisition Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue						2,000,000	2,500,000	4,500,000	100%	6,000,000
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING						2,000,000	2,500,000	4,500,000	100%	6,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition						2,000,000	2,500,000	4,500,000	100%	
Construction										6,000,000
Other										
TOTAL EXPENDITURES						2,000,000	2,500,000	4,500,000	100%	6,000,000

Notes:

Planning Period:	2016-2035	File Number:	gg05.xls	CFP Project:	GG- 5
Project Title:	Historic City Hall & Museum	UGA Planning Area:	Central	Department:	Parks
Location:	829 Lacey Streeet SE	Parks Plan Sector:	Woodland		

Project Description: First Lacey City Hall / Lacey Museum Re-purposing.

Project Justification: When the Museum moves from this structure into the DEPOT MUSEUM in December of 2018, this structure will be vacant.
The City desires to use the historic building for another purpose. An accessible entrance will be constructed.

Policy Basis: Comprehensive Parks Plan | Current Project Status: | Land Status:

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other					25,000			25,000	100%	
TOTAL FUNDING					25,000			25,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					5,000			5,000	20%	
Land / ROW Acquisition										
Construction					20,000			20,000	80%	
Other										
TOTAL EXPENDITURES					25,000			25,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	gg06.xls	CFP Project:	GG- 6
Project Title:	Public Art	UGA Planning Area:	City-Wide	Department:	City Council
Location:	City-Wide				

Project Description: This is a continuing program to acquire art for enjoyment of the public at various facilities. The City Council adopted a similar requirement in Ordinance 1022. The City Public Art Program was suspended in 2009, but will be reactivated in future years as the economy improves.

Project Justification: State law mandates a percentage of project costs be set aside for art for all state and school facilities. The City Council adopted a similar requirement in Ordinance 1022.

Policy Basis: Council Directive | Current Project Status: Planning | Land Status: Public Property

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	95,052		40,000	20,000				60,000		25,000
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	95,052		40,000	20,000				60,000		25,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction	95,052		40,000	20,000				60,000		25,000
Other										
TOTAL EXPENDITURES	95,052		40,000	20,000				60,000		25,000

Notes:

Planning Period:	2016-2035	File Number:	gg07.xls	CFP Project:	GG- 7
Project Title:	Woodland Trail Phase 3	Planning Area:	Meadows	Department:	Parks
Location:	Sleater-Kinney to McAllister Park	Parks Plan Sector:	McAllister		

Project Description: Acquisition and development of a trail on the old railroad right of way parallel to Pacific Avenue from Woodland Creek Community Park to McAllister Park . Development of the Woodland Trail was planned in three phases: Phase One from the Lacey city limits to Golf Club Rd was completed in 2006. Phase Two; east of round-about on Pacific Avenue to Woodland Creek Park was completed in 2010; Phase Three from Woodland Creek Park to McAllister Park is contingent upon abandonment of the active rail line.

Project Justification: Implements goals in the Comprehensive Land Use Plan to promote a pedestrian friendly community and goals in the Comprehensive Plan for Outdoor Recreation to establish and link trail systems to serve the Lacey community.

Policy Basis: Council Decision / 2010 Comprehensive Plan for Outdoor Recreation Current Project Status: Planning Land Status: Acquisition Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										500,000
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										2,500,000
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										3,000,000
EXPENDITURES										
Planning										25,000
Preliminary Design										75,000
Design & Engineering										250,000
Land / ROW Acquisition										1,450,000
Construction										1,200,000
Other										
TOTAL EXPENDITURES										3,000,000

Notes:

Planning Period:	2016-2035	File Number:	gg08.xls	CFP Project:	GG- 8
Project Title:	Lacey Community Center Phase II and III	UGA Planning Area:	Tang/Thom.	Department:	Parks
Location:	Woodland Creek Park	Park Plan Sector:	Thompson Place		

Project Description: Expansion of the Lacey Community Center.

Project Justification: Public access to school facilities is limited to non-school hours. Expanded center would allow full adult and family use during the day and evening hours. The facility could become a focal point for the community. Gymnasium space is needed on evenings and weekends. Cultural arts and program space will be needed when the white house is demolished.

Policy Basis: Council Priority

Current Project Status: Planning

Land Status: City-owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										10,000,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants [1]										
SEPA / LTA										
Developer Financing										
Other [2]										
TOTAL FUNDING										10,000,000
EXPENDITURES										
Planning										35,000
Preliminary Design										50,000
Design & Engineering										100,000
Land / ROW Acquisition										925,000
Construction										8,890,000
Other [3]										
TOTAL EXPENDITURES										10,000,000

Notes:

Planning Period:	2016-2035	File Number:	gg09.xls	CFP Project:	GG- 9
Project Title:	Urban Beautification	UGA Planning Area:	Central	Department:	General
Location:	Core Area / Collector and Arterial Streeets				

Project Description: Implementation of streetscape / landscape design, Phases 1-8, as outlined in the City's Urban Beautification Program.

Project Justification: The 1985 Urban Beautification Plan addresses the need to provide streetscape and landscape elements to Lacey's business and residential areas.

Policy Basis: 1985 Urban Beautification Plan and 2010 Comp Plan | Current Project Status: Planning | Land Status: City / Private

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										2,000,000
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										2,000,000
Other										
TOTAL EXPENDITURES										2,000,000

Notes:

Planning Period:	2016-2035	File Number:	gg010.xls	CFP Project:	GG- 10
Project Title:	McKinney Environmental Interpretive Center	UGA Planning Area:	Tang/Thom.	Department:	Parks
Location:	Lake Lois Habitat Reserve on Pacific Ave SE	Parks Plan Sector:	Thompson Place		

Project Description: Renovation of the historic McKinney Building for use as an Environmental Interpretive Center.

Project Justification: The McKinney Building is the last remaining structure of the resort era. Structural improvements and utility connections will provide a shell for a future Interpretive Center, and preserve its structural integrity and life expectancy.

Policy Basis: 2010 Comprehensive Plan for Outdoor Recreation and Council decision Current Project Status: Planning Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										350,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										350,000
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										700,000
EXPENDITURES										
Planning										
Preliminary Design										25,000
Design & Engineering										75,000
Land / ROW Acquisition										
Construction										600,000
Other										
TOTAL EXPENDITURES										700,000

Notes:

Parks
2016-2035

Background

The City of Lacey 2010 Comprehensive Plan for Outdoor Recreation serves as the primary framework for providing high-quality parks and recreation facilities to residents and visitors of Lacey and its surrounding urban growth area, and will ensure that adequate facilities and resources are available in the future.

In developing the Outdoor Recreation Plan, Lacey and its Urban Growth Area (UGA) was divided into ten "park planning sectors," each encompassing a different geographic area. The UGA was adopted by local jurisdictions in 1988. An inventory of all public and private park and recreational facilities, as well as special features, conditions, and limitations which could affect future park land acquisition and development, was conducted in each sector.

To ensure that the parks and recreation planning process would address the interests and needs of the citizenry, a significant public participation program was implemented for development of the 2010 Comprehensive Plan for Outdoor Recreation. City staff held an open house in January and a public meeting in May; surveyed participants at the open house, several events and at winter and spring program registrations; provided surveys and drop boxes at facilities; and conducted an online survey to get public input in order to update this Comprehensive Plan for Outdoor Recreation. The questions were identical on the on-line and hard copy surveys.

Results of the survey indicated strong support for improvement of existing parks and development of undeveloped parklands. Playground equipment, youth athletic fields, outdoor swimming areas, picnic facilities and shelters, restrooms, parking, and walking and bicycle trails all rated very highly. Respondents were very interested natural area preservation and enhancement. There was also high interest in boating, hiking, fishing, and attending special events, such as outdoor fairs and concerts.

The information acquired through the facilities inventory, the survey, and public participation during development of the 2010 Comprehensive Plan for Outdoor Recreation, together with City and UGA population growth forecasts, provided the basis for the plan's development.

Parks and Recreation 2010 Goals

The goals identified in the City of Lacey 2010 Comprehensive Plan for Outdoor Recreation are:

1) Develop a high quality, diversified parks and recreation system that provides amenities and activities for all ages, interests and abilities.
2) Provide stable, long term revenue sources.
3) Provide parks and facilities to under-served areas as identified by the Comprehensive Plan.
4) Coordinate with other agencies, cities, Thurston County, Thurston Regional Planning Council, districts, and individuals

to plan and provide for open spaces, facilities, parks, and trails to meet recreational and regional transportation needs sufficient to serve long-term population growth.

5) Incorporate critical areas, ecological features and natural resources into the park system to protect and preserve habitat and retain migration corridors important to local wildlife.

6) Develop a high quality system of multi-purpose trails and corridors that access significant environmental features, public facilities, neighborhoods and business districts and promote physical activity and a health conscious community. Coordinate trail acquisition and development with the City of Lacey Capital Facilities Plan, Transportation Plan and the Cities of Olympia, Lacey and Tumwater Urban Trails Plan, and the Thurston Regional Trails Plan.

7) Preserve significant historical resources that are of the highest quality that recognizes our diverse community.

8) Continue to maintain parks and recreational facilities at a high standard of care.

9) Encourage public involvement when planning for park development and management, and for recreational opportunities.

10) Provide indoor and outdoor facilities that encourage family participation in both recreational and cultural activities.

11) Develop, staff, train and support a professional parks and recreation department that effectively serves the community in the realization of the identified goals and objectives.

12) Ensure that diverse traditional and non-traditional programs and facilities are considered when balancing the diverse recreational needs of the community.

Objectives vital to achieving goals include:

- Acquire land for future park development in underserved planning areas as land becomes available, especially in light of the recent decline in land prices.
- Initiate and strengthen public/private partnerships in order to offer optimum services to residents that would not be possible without the partnership.
- Maximize scarce public dollars by continuing the partnership with North Thurston Public Schools.

General Action Policies

The Comprehensive Plan for Outdoor Recreation outlines the following areas of "General Actions" the City will undertake to improve its recreational facilities and programs:

Athletic Fields — Acquire and provide additional athletic field sites to ensure that sufficient land is available should school facility access become more limited.

Funding — Establish long term, stable funding sources-for-acquisition,-development,-and maintenance of park and recreation facilities.

Fresh and Salt Water Access — Develop-a-comprehensive program to inventory, assess, and improve public access to lakes, streams and waterfront, in conjunction with Shoreline Master Program planning efforts.

Indoor and Outdoor Facilities — Conduct space planning to ensure adequate public indoor and outdoor facilities are available to meet the diverse cultural and recreational needs of the community.

Maintenance — Provide-for-continuing maintenance of all facilities at an appropriate level.

Multiple Use Designs — Design public facilities to ensure multiple use of sites whenever feasible.

Open Space — Maintain a comprehensive inventory of all open space within the planning areas. Maintain City standards of requiring consolidation of open space within and among residential development, and to provide for park land dedication or fee payment as an alternative.

Public/Private Partnerships — Pursue opportunities for self-supporting or revenue-producing projects that provide a public service and complement any private investment.

Regional Planning — Continue coordination with other jurisdictions for acquisition and development of parks of regional scope and purpose.

Schools — Maintain and expand agreements for joint facility use with North Thurston Public Schools.

Signs — Maintain the comprehensive park signage program, including design and installation standards.

Support Facilities — Standardize the design and specifications for construction of support facilities such as restrooms and picnic shelters.

Urban Trails and Linear Parks — Identify-and preserve routes, such as railroad rights-of-way and along Woodland Creek, which will link all of the planning areas via a system of urban trails. Maintain the regional Urban Trails Plan in cooperation with Olympia, Tumwater, and Thurston County and the pedestrian and bikeways plans in the City of Lacey's Capital Facilities and Transportation Plans.

Utilities — Extend municipal utilities to all neighborhood and community parks and special use facilities.

Urban Growth Area Parks — Identify and acquire land for future neighborhood and community parks and trails. Develop neighborhood parks upon annexation of the service area into the City. Community parks may be developed prior to annexation if serving unmet needs for city residents.

Needs Assessment Guidelines

In determining the need for additional public recreation facilities within the ten planning area of the City and UGA, the role that private recreation provides can play in meeting needs was considered:

- Small, privately owned playgrounds and other recreational facilities within apartment complexes and other developments meet some of the need for park land.
- Private park facilities serving residents of a small area, such as HOA Pocket Parks, do not reduce the long-term need for public parks within a ½ mile service area.
- Private facilities accessed through membership, such as L.A. Fitness or Thrive Community Fitness do not substitute for public facilities.
- Private facilities that are open to the public and charge fees comparable to those charged by public facilities, such as Tanglewilde Park's Outdoor Swimming Pool, meet some of the need for public facilities.
- Private access to salt or fresh water and open space or habitat reserves serve a special purpose and may help to offset the need for additional public park property.

Park Classifications

Parks are classified by types and guidelines in the plan to serve the recreational interests and needs of Lacey's service area citizens:

Plazas and Public Spaces: Plazas and public spaces are small specialized facilities, including tot lots, downtown parks, and seating areas along trails or sidewalks. They are generally used by nearby residents or special user groups, such as downtown employees and shoppers. The service radius for plazas and public spaces is two to three blocks with no minimum acreage guidelines,

but are typically less than one acre. Generally, the plazas and public spaces have benches or picnic tables, flags or artwork, and limited play equipment, if any. Plazas and public spaces are usually located in proximity to higher density residential or commercial areas with pedestrian access.

Neighborhood Parks: Neighborhood parks are easily accessible, serving the nearby population within walking distance of all residential areas. The service radius for neighborhood parks is one-half to one mile with a minimum goal of 2 acres per 1,000 residents. The preferred size is 5 to 20 acres. Active outdoor recreation is usually designated as the primary purpose. The common features in a neighborhood park include open, multi-purpose playfields, limited athletic facilities, sport courts, children's playgrounds and picnic facilities. Restroom facilities, if provided, are portable and/or seasonal. Parking is usually limited to parallel parking in the roadway. Sites suitable for neighborhood parks are those lands that can support intense development. At least 50% of a neighborhood park should be bordered by public roads, located in the center of the service area with convenient pedestrian access, adjacent to or in close proximity to other open space and school sites. A neighborhood park service area may include several subdivisions and may correlate to elementary school boundaries.

Community Parks: Community parks serve multiple neighborhoods and may serve the entire city and UGA by offering a diverse environment suitable for a wide range of active and passive recreational activities, and include developed and natural areas. A portion of the site normally must be suitable for intense development. The service radius is two to three miles with a minimum goal of 3 acres per 1,000 residents. The preferred size is 40 to 100 acres. These parks often include features unique in the community or the city. Common features in a community park are athletic fields and courts (lighted or day-use), swimming facilities, recreation buildings, group picnic facilities, natural areas, skate park and local access trail systems. Sites suitable for community parks include shorelines, waterfront, natural features and vegetation, and varied topography. Although it is preferred that 50% of the land be bordered by public streets accessed from an arterial street, it is not always achieved.

Regional Parks: Regional parks are areas offering recreational opportunities that attract a diverse group of people county-wide or from a larger region. They provide residents of the region with an opportunity to enjoy outdoor recreation in a natural setting or in an intensely developed area. Common features one might find in a regional park are special purpose facilities, lighted athletic complex, waterfront, or natural areas. Regional parks typically require a user fee and should not be entirely supported by City of Lacey tax dollars.

Special Purpose Facilities: Special purpose facilities offer major specialized or single-purpose facilities filling particular needs for specific recreational facilities. The service area can be variable and is generally community-wide. The acreage, preferred size, and site factors are variable as well. Common features of a special purpose facility are indoor swimming areas, golf courses, nature centers, athletic facilities, museums, and community centers.

Linear Parks: Linear parks are areas developed for recreational travel or to accent linear resources, such as a stream or shoreline. They provide the community with an opportunity to enjoy shorelines and streams and provide places to walk, jog, bicycle, or ride horseback along paths set apart from public streets. The service area can be variable, generally community-wide or regional, and the acreage and size can also be variable. Common features of a linear park are paved paths, seating areas, landscaping, shoreline and viewpoints. Suitable sites for linear

parks include linkages between public facilities, neighboring land uses and varied topography. They have easy public access and usually multiple access points.

Open Space: Open spaces are areas that have been preserved or protected from development. They may provide a buffer between land uses, ensure a rural atmosphere, reduce building density, preserve natural settings, provide visual relief, or are used for other public purposes. The size is variable. Common features of open areas are natural vegetation or landscaping and steep topography. The open space may provide wildlife habitat. Sites suitable for open spaces depend on the density of surrounding development.

Conservancy Sites: Conservancy sites are those special management areas encompassing rare, irreplaceable, natural or cultural features. They are created to preserve, protect and enhance appreciation of environmental and cultural features of significance or sensitivity. The size is variable. Common features of conservancy sites are wetlands, wildlife habitat and historical sites and structures. Suitable sites show a presence of significant and sensitive features. Conservancy sites may be commonly called natural areas refuges, or habitat reserves.

Tot lots, often referred to as pocket parks, which are typically dedicated as active open space within subdivisions are owned and maintained by the development's Homeowners Association. They are not available for public use and are not included in this inventory.

Level-of-Service Analysis

The City's comprehensive parks plan established a level of service (LOS) standard of five developed acres of park land per one thousand people. The level of service has been calculated by considering total acres of park area, including both neighborhood and community parks, in each planning area. LOS is considered the most accurate way of to assess need for additional land and park development. Due to the design and service area of different park types, it would be misleading to consider LOS by the presence or absence of a particular park type within each planning area. Community parks can and do fill the role of neighborhood parks, when they provide some or all of the same recreation opportunities of a neighborhood park, and when located within walking distance of one-half to one mile of the subject area. Wonderwood Park is an example of such a park. There is no need to provide a neighborhood park within a .5 mile distance from Wonderwood Park due to the recreation opportunities at this park.

LOS is considered the most accurate way to assess need for additional land and park development. However, the service area for a park, whether a neighborhood or community park, is defined by the distance to a park, ease of accessibility, the location of busy streets or geographic features, such as lakes and other natural features that present barriers, is an assessment factor also. Community parks and neighborhood parks have different service areas. Community parks, based on amenities provided, may serve multiple neighborhoods, multiple planning areas, or the entire city and UGA. Long Lake Park serves the entire city with its freshwater beach and guarded swimming area. Community parks typically have a service area of two to three miles, which may overlap multiple planning areas.

Level of Service Standard
Combined Neighborhood and Community Parks
Minimum Standard 5 acres/1000 population

Planning Area	Population 2010	Minimum Required	Current Acerage	Acerage Needed
Pleasant Glade	2,472	12.36	366.72	0.00
Woodland	772	3.86	9.80	0.00
Wonderwood	15,819	79.10	68.85	10.48
Rainier Vista	13,423	67.11	84.80	0.00
Interlake	5,278	26.39	9.95	16.44
Pattison	3,679	18.40	0.00	18.40
McAllister	5,150	25.75	58.97	0.00
Thompson Place	8,836	44.18	98.76	0.00
Meadows	12,581	62.91	71.47	0.00
Hawk's Prairie	8,354	41.77	198.09	0.00
TOTAL	**76,364**	**381.83**	**967.41**	**45.09**

Table 4 1

Population density can increase need and reduce the service area. Analysis of the service area map demonstrates that parks are provided to most areas of the City and many areas within the growth area. In addition, projects identified in the Action Program of the City of Lacey 2010 Comprehensive Plan for Outdoor Recreation will provide additional service to areas both within the City and the growth area through 2015. Table 4.1 illustrates how the capital facilities park projects planned through the year 2030 will affect this service level. It should be noted that the general purpose of this Capital Facilities Plan is to demonstrate how the City will implement the 2010 Comprehensive Plan for Outdoor Recreation. Readers wishing more detailed explanations of parks and recreation facility planning methodologies are encouraged to review the City of Lacey 2010 Comprehensive Plan for Outdoor Recreation, which is available in the reference section of the Lacey Timberland Library, at Lacey City Hall, and on-line at www.ci.lacey.wa.us.

Level of Service Standard
Combined Neighborhood and Community Parks
Minimum Standard 5 acres/1000 population

Planning Area	Population 2030	Minimum Required	Current Acerage	Acerage Needed
Pleasant Glade	6,129	30.65	366.72	0.00
Woodland	1,100	5.50	9.80	0.00
Wonderwood	16,579	82.89	68.85	14.28
Rainier Vista	16,182	80.91	84.80	0.00
Interlake	6,049	30.25	9.95	20.30
Pattison	7,631	38.16	0.00	38.16
McAllister	10,632	53.16	58.97	0.00
Thompson Place	12,015	60.08	98.76	0.00
Meadows	20,185	100.93	71.47	29.47
Hawk's Prairie	16,066	80.33	198.09	50.07
TOTAL	**112,568**	**562.84**	**967.41**	**152.25**

Table 4.2

Plan Implementation Costs

At this stage of the general planning process it is difficult to accurately predict the total cost of acquisition, development and maintenance of an expanded park system. Many variables, such as land acquisition, volunteer assistance, facility components and design, and levels of maintenance, will affect these costs. The following estimates are presented simply as an aid in assessing the implementation costs.

Land

Acquisition of park land average cost: $35,000 to $65,000 per acre.

Facilities

Neighborhood Park Development Costs: $100,000 to $150,000 per acre (excluding natural areas).

Community Park Development Costs: $100,000 to $200,000 per acre (excluding natural areas).

Urban Trail Construction: A minimum of $250,000 to $500,000 per mile (paved).

Urban trail construction: A minimum of $75,000 to $100,000 per mile (non-paved).

Maintenance

Maintenance personnel: One technician per 12 to 15 acres of developed park area. Total annual maintenance and operation costs including administration, support staff and miscellaneous items: $10,000 to $12,000 per developed acre.

Capital Project Scheduling

Some of the projects listed in this Capital Facilities Plan may appear in an order that differs from that shown in the 2010 Comprehensive Plan for Outdoor Recreation. This reflects the reality that, in the comprehensive planning process, it is not always possible to determine when certain properties will become available for park development. In some instances, the City may have first right-of-refusal on identified parcels that cannot be exercised until the property is put on the market. In other instances, park areas are created

during commercial or residential development, which may occur earlier or later than anticipated.

6-Year Capital Project Financing

The financing plan for the first six years of the Parks Element of the 2016-2035 Capital Facilities Plan is outlined in Table 4.3. The Growth Management Act requires that capital facilities funding sources be identified within six years of determining a project's need. Funding sources include general revenue, voted G.O. bonds, SEPA, the Park and Open Space Fund, grants and local community contributions.

The first public facility was donated to the City of Lacey in 1970, and the first park was acquired in 1971. In 1990, the City began collecting a 1% utility tax for the acquisition and development of parks and open spaces. In 2002, Lacey voters supported a $9.9 million bond issue to fund park development and renovation. By 2009, all bonds had been spent.

Acquisition of park land is financed primarily with utility taxes, grants, donations, and land dedicated as a results of development mitigation. Parks and facilities have been developed with voted G.O. bonds, grants, development mitigation, SEPA, utility taxes, the public facilities district sales tax revenues, general revenue, lodging tax revenues, and donations.

The City will consider placing a park development bond issue before the voters during this six year period, if the economy improves. The City will continue to rely on a variety of these funding sources to finance the projects in 2014 – 2019 and through 2026.

Accomplishments

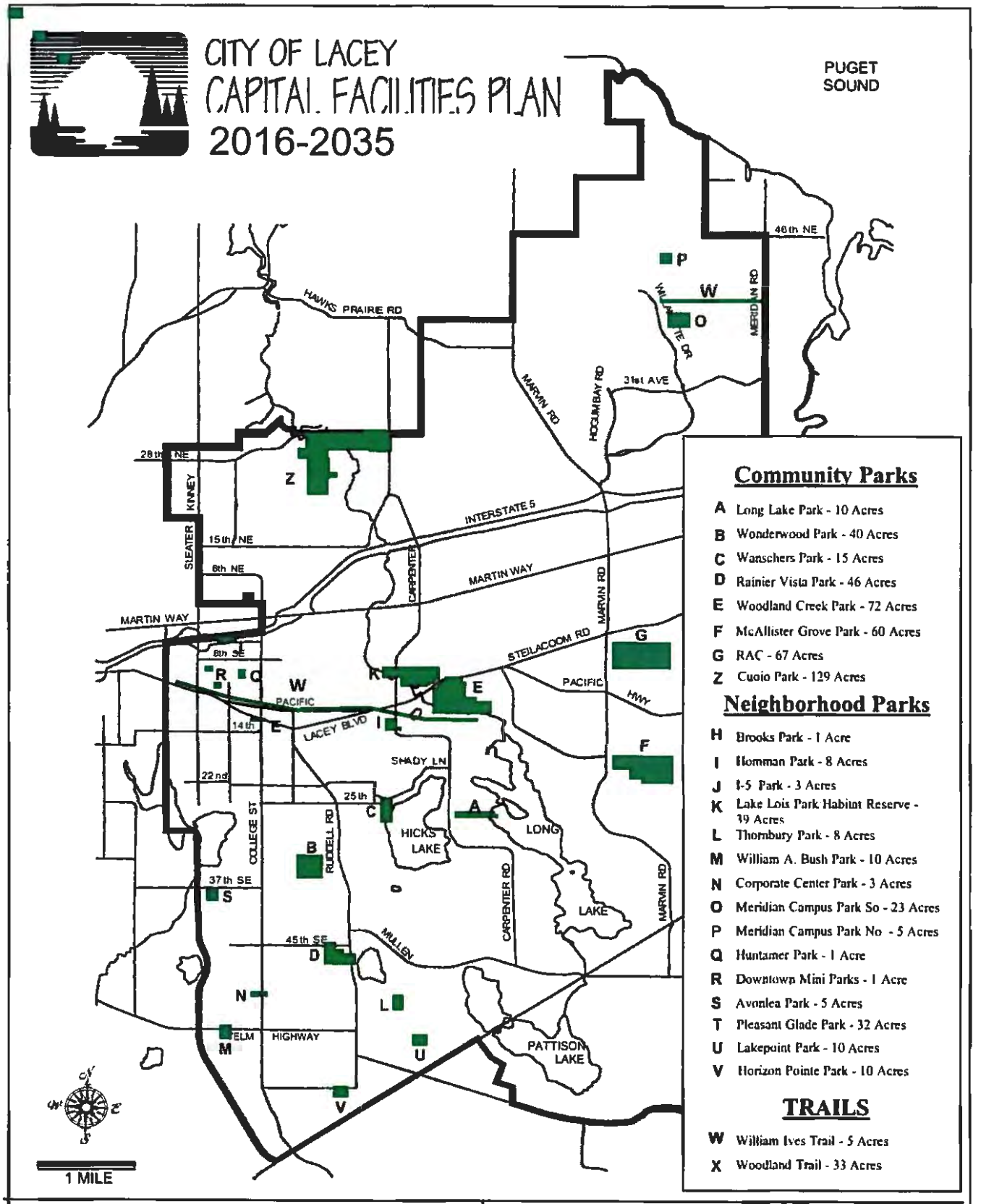
The 2007 – 2026 CFP was adopted in April of 2007. With the update and adoption of the Comprehensive Plan for Outdoor Recreation in July, 2010, it was necessary to include those projects identified in the 2010 – 2015 Action Program in the CFP, so that the two documents are consistent. The City Council adopted the interim update in September of 2010. Projects that have been completed since adoption of the CFP in 2007 and the 2014 updates are noted below and removed from this update.

Project PARKS-1, Regional Sports Complex/ Dev was completed in 2009 with the additional netting and fencing constructed in 2012-2013. PARKS-2, the Woodland Creek Community Park/Dev Project was completed in 2008 and included construction of two picnic shelters and facilities, parking, restroom, and play equipment; construction of the trail head and trail was completed in two phases from 2010-2012. Phase one of Meridian Neighborhood Park, one of the two parks identified in PARKS-3, was constructed in 2008. Improvements to William A. Bush Neighborhood Park, PARKS-4, were completed in 2008, and financed entirely with voter approved

	2016	2017	2018	2019	2020	2021	Total
General Revenue	150,000	$4,200	455,000	50,000			709,200
Voted G.O. Bonds				25,000	100,000	500,000	625,000
Grants	19,000			50,000		1,000,000	1,069,000
Developer Financing	10,000						10,000
Other	10,000		5,000			500,000	515,000
TOTAL	$189,000	$54,200	$460,000	$125,000	$100,000	$2,000,000	$2,928,200

Table 4 3

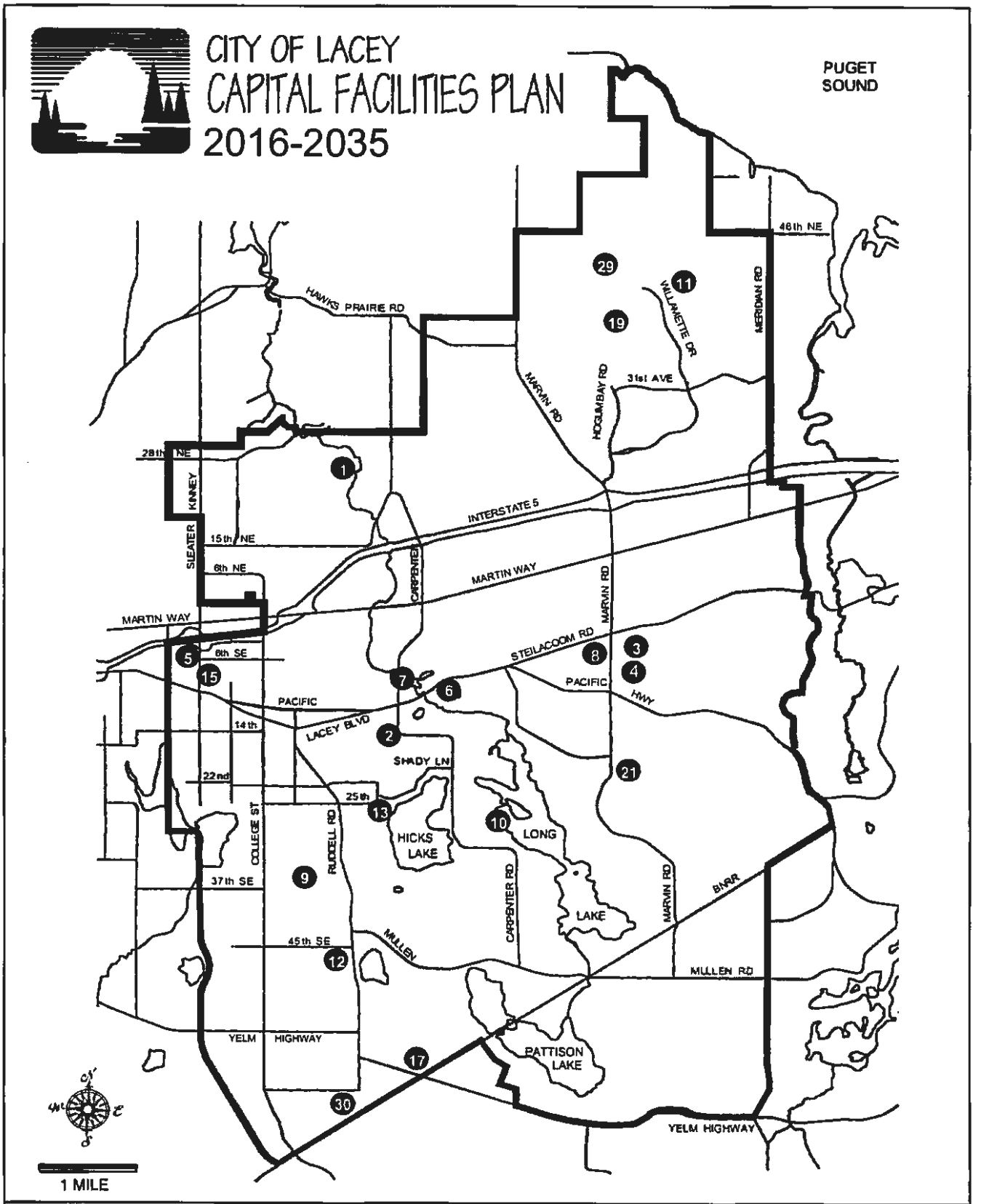
bonds. Project PARKS-8, development of Avonlea Neighborhood Park was completed in 2008, and financed entirely with voter approved bonds. The picnic shelter and facilities, half basketball court, and play equipment at Thornbury Neighborhood Park, project PARKS-10, were also financed entirely with voter approved bonds. In 2012, PARKS-16, was implemented. A 0.23 acre parcel was acquired and an asphalt trail from Ruddell Loop to the SE corner of the park was constructed. PARKS-17, 407 acres of parkland were acquired in March of 2011; and 87 acres in October of 2012.



City Parkland Inventory

Existing Parkland

Lacey UGA Boundary



Park Development Projects

Project Numbers 1

Lacey UGA Boundary

CITY OF LACEY 2016-2035 CAPITAL FACILITIES PLAN
PARKS PROJECTS SUMMARY SHEET

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING SOURCES										
General Revenue	2,168,229	150,000	54,200	455,000	50,000			709,200	24%	3,104,489
Voted G.O. Bonds	14,303,500				25,000	100,000	500,000	625,000	21%	14,565,000
Non-Voted G.O. Bonds										5,500,000
Revenue Bonds										
Utility Rates / Fees	1,456,000	10,000						10,000	0%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants	1,428,000	19,000			50,000		1,000,000	1,069,000	37%	11,850,000
SEPA / LTA										3,500,000
Developer Financing		10,000						10,000	0%	6,350,000
Other	1,991,986			5,000			500,000	505,000	17%	1,215,000
TOTAL	21,347,715	189,000	54,200	460,000	125,000	100,000	2,000,000	2,928,200	100%	46,084,489
EXPENDITURES BY CATEGORY										
Planning	14,514									5,000
Preliminary Design	23,000					100,000	50,000	150,000	5%	485,000
Design & Engineering	25,948		50,000		11,486		100,000	161,486	6%	2,364,000
Land / ROW Acquisition	3,456,000						1,000,000	1,000,000	34%	17,290,000
Construction	17,731,783	189,000	4,200	460,000	113,514		850,000	1,616,714	55%	24,915,489
Other	96,470									1,025,000
TOTAL	21,347,715	189,000	54,200	460,000	125,000	100,000	2,000,000	2,928,200	100%	46,084,489
EXPENDITURES BY PROJECT										
PARKS- 1 Pleasant Glade Park / Dev		10,000						10,000	0%	
PARKS- 2 Homann Park / Redevelopment		65,000						65,000	2%	250,000
PARKS- 3 Regional Athletic Complex / Dev	14,178,229	20,000						20,000	1%	1,654,489
PARKS- 4 Regional Athletic Complex Parking			50,000	450,000				500,000	17%	
PARKS- 5 Civic Plaza Renovation			4,200	10,000				14,200	0%	
PARKS- 6 Woodland Creek Community Park / Dev	2,518,986	10,000			100,000			110,000	4%	
PARKS- 7 Lake Lois Park Restoration	10,000				25,000			25,000	1%	25,000
PARKS- 8 Regional Athletic Complex, Ph 3/Dev						100,000		100,000	3%	5,000,000
PARKS- 9 Wonderwood Park / Improvements		33,600						33,600	1%	
PARKS- 10 Long Lake Park / Acq & Dev							2,000,000	2,000,000	68%	
PARKS- 11 Meridian Campus Parks / Dev	1,184,500									2,500,000
PARKS- 12 Rainier Vista Park (45th Ave) / Dev		50,400						50,400	2%	
PARKS- 13 Wenschers Community Park / Dev										3,000,000
PARKS- 14 Bikes, Boards, and Rollerblades Facility										1,200,000
PARKS- 15 Downtown Mini-Parks / Dev										100,000
PARKS- 16 Neighborhood Parks (2) / Acq & Dev										2,000,000
PARKS- 17 Lakepointe Park / Dev										390,000
PARKS- 18 Athletic Field Pavillion										1,000,000
PARKS- 19 NE Area Community Park / Acq	3,458,000									5,000,000
PARKS- 20 Neighborhood Park / Acq & Dev										665,000
PARKS- 21 McAllister Community Park / Dev										2,000,000
PARKS- 22 Southeast Area Community Park										4,000,000
PARKS- 23 Neighborhood Parks / Acq & Dev										2,000,000
PARKS- 24 Neighborhood Park / Acq & Dev										2,000,000
PARKS- 25 Neighborhood Park / Acq & Dev										2,000,000
PARKS- 26 Neighborhood Parks (3) / Acq & Dev										2,000,000
PARKS- 27 Neighborhood Parks (3) / Acq & Dev										2,000,000
PARKS- 28 Neighborhood Parks (2) / Acq & Dev										1,000,000
PARKS- 29 William Ives Trail Extension										100,000
PARKS- 30 Horizon Pointe Park Expansion										600,000
PARKS- 31 Waterfront Access										3,000,000
PARKS 32 Woodland Creek										2,000,000
PARKS 33 Off Leash Dog Area										100,000
PARKS 34 Woodland Creek										500,000
TOTAL	21,347,715	189,000	54,200	460,000	125,000	100,000	2,000,000	2,928,200	100%	46,084,489

Notes: Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as projects move into the 6-year planning window.

Planning Period:	2016-2035	File Number:	pr001.xls	CFP Project:	PARKS- 1
Project Title:	Pleasant Glade Park / Dev	UGA Planning Area:	Pleasant Gla	Department:	Parks
Location:	5011 Pleasant Glade Rd NE	Parks Plan Sector:	Pleasant Glade		

Project Description: Phase 1 development of a neighborhood park site. The parkland, 32 acres, was acquired in 2002 with State Grant funds. Minimal development (trail, fencing, picnic table, kiosk) to accomodate public use of the site.

Project Justification:

Policy Basis: 2004 and 2010 Comprehensive Parks Plan

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees		10,000						10,000	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING		10,000						10,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		10,000						10,000	100%	
Other [2]										
TOTAL EXPENDITURES		10,000						10,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	pr002.xls	CFP Project:	PARKS- 2
Project Title:	Homann Park / Redevelopment	UGA Planning Area:	Central	Department:	Parks
Location:	Carpenter Road SE at Alana Drive	Parks Plan Sector:	Wonderwood		

Project Description: Project to include repair and/or replacement of fencing, play equipment, and restroom facilities, basketball court re-surfacing, and the addition of a picnic shelter. Play equipment will be replaced in 2015.

Project Justification: Fencing and other park amenities are in need of repair or replacement. The playground equipment is outdated and does not meet ADA standards.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue		65,000						65,000	100%	
Voted G.O. Bonds										250,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		65,000						65,000	100%	250,000
EXPENDITURES										
Planning										
Preliminary Design										5,000
Design & Engineering										20,000
Land / ROW Acquisition										
Construction		65,000						65,000	100%	225,000
Other										
TOTAL EXPENDITURES		65,000						65,000	100%	250,000

Notes:

Planning Period:	2016-2035	File Number:	pr003.xls	CFP Project:	PARKS- 3
Project Title:	Regional Athletic Complex / Dev	UGA Planning Area:	Meadows	Department:	Parks
Location:	Marvin Road SE at Steilacoom Road	Parks Plan Sector:	Meadows		

Project Description: Replace clay soil pitchers mound on baseball field #5 with synthetic mound and replace natural turf bullpens on baseball field #5 with synthetic turf.

Project Justification: In future years, synthetic turf on the ballfield infields and soccer field will need life cycle replacement.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	122,229	15,000						15,000		704,489
Voted G.O. Bonds	11,855,000[1, 2]									
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants	240,000	5,000						5,000		100,000
SEPA / LTA										
Developer Financing										850,000
Other	1,961,000[3]									
TOTAL FUNDING	14,178,229	20,000						20,000		1,654,489
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	10,500									
Land / ROW Acquisition										
Construction	14,167,729	20,000						20,000		1,654,489
Other										
TOTAL EXPENDITURES	14,178,229	20,000						20,000		1,654,489

Notes: 1. Non-voted bond debt financed by Public Facility District (PFD) revenue ($7,993,000).
2. Park Development Bonds approved by voters in 2002.
3. Open Space Fund.

Planning Period:	2016-2035	File Number:	pr004.xls	CFP Project:	PARKS- 4
Project Title:	Regional Athletic Complex Parking	UGA Planning Area:	Meadows	Department:	Parks
Location:	Marvin Road SE at Steilacoom Road	Parks Plan Sector:	Meadows		

Project Description: Design and contruct an additional parking lot with 100-200 parking stalls that will provide sufficient parking for the larger events scheduled at the Regional Athletic Complex.

Project Justification: Additional parking is needed to accomodate the larger groups at the site

Policy Basis: Best Management Practices

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue			50,000	450,000				500,000	100%	
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING								500,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			50,000					50,000	10%	
Land / ROW Acquisition										
Construction				450,000				450,000	90%	
Other										
TOTAL EXPENDITURES			50,000	450,000				500,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	pr005.xls	CFP Project:	PARKS- 5
Project Title:	Civic Plaza Renovation	UGA Planning Area:	Central	Department:	Parks
Location:	521 Sleater Kinney Rd SE	Parks Plan Sector:	Woodland		

Project Description: Civic Plaza Renovation will include some new landscaping, signs, historical and war memorial amenities.

Project Justification: The I-5 Bicycle Trail Retaining Wall blocks the 'Welcome to Lacey' sign as well as the organizational signs. Some landscaping and the retaining wall needs replacement.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City-owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue			4,200	5,000				9,200	65%	
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]				5,000				5,000	35%	
TOTAL FUNDING			4,200	10,000				14,200	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction			4,200	10,000				14,200	100%	
Other										
TOTAL EXPENDITURES			4,200	10,000				14,200	100%	

Notes:

Planning Period:	2016-2035	File Number:	pr006.xls	CFP Project:	PARKS- 6
Project Title:	Woodland Creek Community Park / Dev	UGA Planning Area:	Tanglewilde	Department:	Parks
Location:	6729 Pacific Avenue SE	Parks Plan Sector:	Thompson Place		

Project Description: Construction of large and small group picnic facilities, playgrounds, restrooms, parking, walkways, and landscaping in 2008. Construction of trailhead, parking, and connecting loop trail to the Woodland Trail in 2011-2012. Completion of loop trail in future years with available grant funds. Repair to shoreline trail along Long's Pond in 2015.

Project Justification: City community parks are not meeting existing demand. Several priorities outlined in the Comprehensive Parks Plan, including trails and water access, will be addressed by development of this site.

Policy Basis: 2004 and 2010Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	450,000				50,000			50,000	45%	
Voted G.O. Bonds	1,850,000									
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants	188,000				50,000			50,000	45%	
SEPA / LTA										
Developer Financing		10,000						10,000	9%	
Other	30,986									
TOTAL FUNDING	2,518,986	10,000			100,000			110,000	100%	
EXPENDITURES										
Planning	4,514									
Preliminary Design	23,000									
Design & Engineering	15,448				8,986			8,986	8%	
Land / ROW Acquisition										
Construction	2,379,554	10,000			91,014			101,014	92%	
Other	96,470									
TOTAL EXPENDITURES	2,518,986	10,000			100,000			110,000	100%	

Notes: 1 Park Development Bonds approved by voters in 2002.

Planning Period:	2016-2035	File Number:	pr007.xls	CFP Project:	PARKS- 7
Project Title:	Lake Lois Park Restoration	UGA Planning Area:	Central	Department:	Parks
Location:	Carpenter Road at Lake Lois Rd	Parks Plan Sector:	Thompson Place / Woodland		

Project Description: This project will develop in phases and include restoration of Lake Lois and the minimal development of Lake Lois Habitat Reserve as a low-intensity use preservation and interpretive area. Phase 1 occurred in 2013 with the paving of accessible parking at Lake Lois Park. Phase 2 includes replacement of the retaining wall and picnic table.

Project Justification: DNR has recognized the value of Lake Lois as a regional storm water basin that contributes to the integrity of Puget Sound water quality and flow must be enhanced, resulting in improved vegetation and wildlife habitat.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	10,000									
Voted G.O. Bonds					25,000			25,000	100%	25,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	10,000				25,000			25,000	100%	25,000
EXPENDITURES										
Planning	10,000									
Preliminary Design										
Design & Engineering					2,500			2,500	10%	
Land / ROW Acquisition										
Construction					22,500			22,500	90%	25,000
Other										
TOTAL EXPENDITURES	10,000				25,000			25,000	100%	25,000

Notes:

Planning Period:	2016-2035	File Number:	pr0087.xls	CFP Project:	PARKS - 8
Project Title:	Regional Athletic Complex, Ph 3/Dev	UGA Planning Area:	Meadows	Department:	Parks
Location:	Marvin Rd SE & Steilacoom Rd SE	Parks Plan Sector:	Thompson Place		

Project Description: Regional Athletic Center (the RAC), Phase 3 / Development is a 26 acre parcel to develop athletic fields for tournament and league play at the the RAC.

Project Justification: Development of additional fields and facilities will expand the number of players and size of tournaments that can be offered at the RAC, leading to increased tourism revenue.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds						100,000		100,000		4,000,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										1,000,000
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING						100,000		100,000		5,000,000
EXPENDITURES										
Planning										
Preliminary Design						100,000		100,000		50,000
Design & Engineering										450,000
Land / ROW Acquisition										
Construction										4,500,000
Other [2]										
TOTAL EXPENDITURES						100,000		100,000		5,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr009.xls	CFP Project:	PARKS- 9
Project Title:	Wonderwood Park / Improvements	UGA Planning Area:	Central	Department:	Parks
Location:	32nd Avenue SE	Parks Plan Sector:	Wonderwoo		

Project Description: Repair and resurfacing of four tennis courts.

Project Justification: Significant cracks on the court can lead to water damage to court and subsurface. Court surface shows wear and birdbaths.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue		28,000						28,000	83%	
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants		5,600						5,600	17%	
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		33,600						33,600	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		33,600						33,600	100%	
Other										
TOTAL EXPENDITURES		33,600						33,600	100%	

Planning Period:	2016-2035	File Number:	pr010.xls	CFP Project:	PARKS- 10
Project Title:	Long Lake Park / Acq & Dev	UGA Planning Area:	Lakes	Department:	Parks
Location:	2790 Carpenter Road SE	Parks Plan Sector:	Interlake		

Project Description: Upgrades to the park, and acquisition and development of an adjacent privately owned parcel (1.8 acres), to expand Long Lake Park to a total of 11.8 acres and complete development per master plan.

Project Justification: The project will increase public access frontage on Long Lake.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Right of Refusal

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds							500,000	500,000	25%	
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants							1,000,000	1,000,000	50%	
SEPA / LTA										
Developer Financing										
Other [1]							500,000	500,000	25%	
TOTAL FUNDING							2,000,000	2,000,000	100%	
EXPENDITURES										
Planning										
Preliminary Design							50,000	50,000	3%	
Design & Engineering							100,000	100,000	5%	
Land / ROW Acquisition							1,000,000	1,000,000	50%	
Construction							850,000	850,000	43%	
Other										
TOTAL EXPENDITURES							2,000,000	2,000,000	100%	

Notes: 1. Park and Open Space Funds

Planning Period:	2016-2035	File Number:	pr011.xls	CFP Project:	PARKS- 11
Project Title:	Meridian Campus Parks / Dev	UGA Planning Area:	Hawks	Department:	Parks
Location:	Meridian Campus	Parks Plan Sector:	Hawks Prairie		

Project Description: Development of two neighborhood park sites, dedicated to the City by the developers of Meridian Campus in 1993. Meridian Park was constructed in 2008, and Phase 2 will be constructed when the adjacent school develops. The five acre Meridian Campus North Park will develop after surrounding residential , and may require voter approved bond.

Project Justification: Development of these neighborhood park sites will be required to meet service level standards in this area.

Policy Basis: 2004 and 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	586,000									1,500,000
Voted G.O. Bonds	598,500									500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										500,000
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	1,184,500									2,500,000
EXPENDITURES										
Planning										
Preliminary Design										20,000
Design & Engineering										100,000
Land / ROW Acquisition										
Construction	1,184,500									2,380,000
Other										
TOTAL EXPENDITURES	1,184,500									2,500,000

Notes:

Planning Period:	2016-2035	File Number:	pr012.xls	CFP Project:	PARKS- 12
Project Title:	Rainier Vista Park (45th Ave) / Dev	UGA Planning Area:	Horizons	Department:	Parks
Location:	45th Avenue SE at Ruddell Road	Parks Plan Sector:	Rainier Vista		

Project Description: Repair and resurface of four tennis courts and two half basketbal courts..

Project Justification: Courts have significant cracks which can lead to water damage to court and subsurface. Court surface shows wear.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue		42,000						42,000	83%	
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants		8,400						8,400	17%	
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		50,400						50,400	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		50,400						50,400	100%	
Other										
TOTAL EXPENDITURES		50,400						50,400	100%	

Notes:

Planning Period:	2016-2035	File Number:	pr013.xls	CFP Project:	PARKS- 13
Project Title:	Wanschers Community Park / Dev	UGA Planning Area:	Lakes	Department:	Parks
Location:	Hicks Lake Road at 25th Avenue SE	Parks Plan Sector:	Wonderwood		

Project Description: Further development of 15 acres of Hicks Lake waterfront property donated to the City by Lettie Wanschers in August, 1993. Phase I will include waterfront access for swimming and fishing, picnic facilities, playground areas, restrooms, walkways, trails, and parking. This special-use community park will improve public access to Hick's Lake

Project Justification: Waterfront access is one of the highest priorities identified in the Lacey Comprehensive Parks Plan and Shoreline Management Program.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										1,500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										1,500,000
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										3,000,000
EXPENDITURES										
Planning										
Preliminary Design										25,000
Design & Engineering										275,000
Land / ROW Acquisition										425,000
Construction										2,275,000
Other										
TOTAL EXPENDITURES										3,000,000

Planning Period:	2016-2035	File Number:	pr014.xls	CFP Project:	PARKS- 14
Project Title:	Bikes, Boards, and Rollerblades Facility	UGA Planning Area:	TBD	Department:	Parks
Location:	To Be Determined	Parks Plan Sector:	TBD		

Project Description: Construction of a BMX bikes, skateboards, and rollerblades complex to serve as a regional facility, with matching funds provided by community user groups. Features would include a BMX bike track, a competition area for skateboards and in-line skates, spectator areas and open space, restrooms, concessions, and parking facilities.

Project Justification: The regional complex would be designed to facilitate both local and multi-state competition in BMX racing, skateboarding, and in-line skating. These three activities are among the fast-growing non-traditional sports in the U.S., attracting all ages as spectators and as participants. A large unmet need for these facilities exists in and around the Lacey community.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Acquisition Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										700,000
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING										1,200,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										50,000
Land / ROW Acquisition										300,000
Construction										850,000
Other										
TOTAL EXPENDITURES										1,200,000

Notes:

Planning Period:	2016-2035	File Number:	pr015.xls	CFP Project:	PARKS- 15
Project Title:	Downtown Mini-Parks / Dev	UGA Planning Area:	Cenrtral	Department:	Parks
Location:	Market Square	Parks Plan Sector:	Woodland		

Project Description: Phased construction of 2 downtown mini-parks. The combination of passive use facility and landscaped plaza will help to address the open space needs of the downtown area.

Project Justification: As the downtown develops, it will become critical that landscaped areas be set aside for use by those employed in the downtown as well as customers of the business community.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										100,000
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										100,000
EXPENDITURES										
Planning										
Preliminary Design										5,000
Design & Engineering										10,000
Land / ROW Acquisition										
Construction										85,000
Other										
TOTAL EXPENDITURES										100,000

Notes:

Planning Period:	2016-2035	File Number:	pr016.xls	CFP Project:	PARKS- 16
Project Title:	Neighborhood Parks (2) / Acq & Dev	UGA Planning Area:	Lakes	Department:	Parks
Location:	To be determined	Parks Plan Sector:	Interlake		

Project Description: Acquisition/development of two neighborhood park sites (minimum of 5 acres each) to serve adjacent residential areas.

Project Justification: Two neighborhood parks will be required to meet service standards in this parks sector. The LOS shows a current need for one park, with a second park needed by 2030.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										1,000,000
SEPA / LTA										500,000
Developer Financing										
Other [1]										500,000
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										25,000
Design & Engineering										125,000
Land / ROW Acquisition										500,000
Construction										1,350,000
Other										
TOTAL EXPENDITURES										2,000,000

Notes: 1. Parks and Open Space Fund

Planning Period:	2016-2035	File Number:	pr017.xls	CFP Project:	PARKS- 17
Project Title:	Lakepointe Park / Dev	UGA Planning Area:	Lakes	Department:	Parks
Location:	Compton Drive at Stockton	Parks Plan Sector:	Rainier Vista		

Project Description: Renovation of facilities at this 10-acre neighborhood park, including expanded playground and picnic facilities, and new walkways.

Project Justification: The Comprehensive Parks Plan identifies the need for additional neighborhood park facilities in this planning sector.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										390,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										390,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										39,000
Land / ROW Acquisition										
Construction										351,000
Other										
TOTAL EXPENDITURES										390,000

Notes:

Planning Period:	2016-2035	File Number:	pr018.xls	CFP Project:	PARKS- 18
Project Title:	Athletic Field Pavillion	UGA Planning Area:	Various	Department:	Parks
Location:	Undetermined	Parks Plan Sector:	Various		

Project Description: Covered athletic field with lighting at undetermined location within the community, for various sports, both practice and competition.

Project Justification: Provide for more hours of play during the spring, summer, and fall use periods. The lights would also allow tournament play to take place.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City/NTSD Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										500,000
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										1,000,000
EXPENDITURES										
Planning										
Preliminary Design										25,000
Design & Engineering										75,000
Land / ROW Acquisition										900,000
Construction										
Other										
TOTAL EXPENDITURES										1,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr019.xls	CFP Project:	PARKS- 19
Project Title:	NE Area Community Park / Acq	UGA Planning Area:	Hawks	Department:	Parks
Location:	To be determined	Parks Plan Sector:	Hawks Prairie & Pleasant Glade		

Project Description: Acquisition and development of a community park site (minimum 40 acres) in the city's Northeast area.

Project Justification: There are no community parks north of I-5. Land was acquired in 2011. Development contingent upon passage of a voter approved bond and award of state grant funds, and utility availability.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	1,000,000									
Voted G.O. Bonds										
Non-Voted G.O. Bonds										3,500,000
Revenue Bonds										
Utility Rates / Fees	1,456,000									
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants	1,000,000									1,500,000
SEPA / LTA										
Developer Financing										
Other		1								
TOTAL FUNDING	3,456,000									5,000,000
EXPENDITURES										
Planning										
Preliminary Design										50,000
Design & Engineering										500,000
Land / ROW Acquisition	3,456,000									
Construction										4,450,000
Other										
TOTAL EXPENDITURES	3,456,000									5,000,000

Notes: 1. Park and Open Space Funds

Planning Period:	2016-2035	File Number:	pr020.xls	CFP Project:	PARKS- 20
Project Title:	Neighborhood Park / Acq & Dev	UGA Planning Area:	Central	Department:	Parks
Location:	Parks Plan Sector III	Parks Plan Sector:	Wonderwood		

Project Description: Acquisition and development of a neighborhood park site (minimum of 5 acres) south of downtown area.

Project Justification: A neighborhood park is required to meet the current service level standards for this area. A second neighborhood park may be required in 2030.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										500,000
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										165,000
TOTAL FUNDING										665,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										265,000
Construction										400,000
Other										
TOTAL EXPENDITURES										665,000

Notes: 1. City of Lacey Park and Open Space Fund

Planning Period:	2016-2035	File Number:	pr021.xls	CFP Project:	PARKS- 21
Project Title:	McAllister Community Park / Dev	UGA Planning Area:	Seasons	Department:	Parks
Location:	Marvin Road SE	Parks Plan Sector:	McAllister		

Project Description: Development of the 60-acre McAllister community park site for active and passive uses.

Project Justification: It is anticipated that demand for high-use community activity areas will exceed present facilities. Development of this park should occur in conjunction with the adjacent NTPS School site.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Property

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										1,000,000
SEPA / LTA										
Developer Financing										
Other [1]										500,000
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										50,000
Design & Engineering										150,000
Land / ROW Acquisition										1,800,000
Construction										
Other										
TOTAL EXPENDITURES										2,000,000

Notes: 1. Park and Open Space Funds

Planning Period:	2016-2035	File Number:	pr022.xls	CFP Project:	Parks- 22
Project Title:	Southeast Area Community Park	UGA Planning Area:	Lakes	Department:	Parks
Location:	To be determined	Parks Plan Sector:	Pattison		

Project Description: Acquisition and development of a community park site (minimum 40 acres) in the city's southeast area.

Project Justification: A community park is needed to meet the level of service in this area.

Policy Basis: 2004 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: XX

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										2,000,000
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										1,000,000
SEPA / LTA										1,000,000
Developer Financing										
Other [1]										
TOTAL FUNDING										4,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										4,000,000
Construction										
Other [2]										
TOTAL EXPENDITURES										4,000,000

Notes: 1 & 2 Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the projec moves into the 6-year planning window.

Planning Period:	2016-2035	File Number:	pr023.xls	CFP Project:	PARKS- 23
Project Title:	Neighborhood Parks / Acq & Dev	UGA Planning Area:	Pleas. Glade	Department:	Parks
Location:	Parks Plan Sector I	Parks Plan Sector:	Pleasant Glade		

Project Description: Acquisition and development of one-two neighborhood park sites (minimum of 5 acres each) to serve adjacent subdivisions in the Pleasant Glade Planning area.

Project Justification: A neighborhood park will be required to meet service standards in this area.

Policy Basis: 2010Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										1,000,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										1,000,000
Other										
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										50,000
Design & Engineering										100,000
Land / ROW Acquisition										850,000
Construction										1,000,000
Other										
TOTAL EXPENDITURES										2,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr024.xls	CFP Project:	PARKS- 24
Project Title:	Neighborhood Park / Acq & Dev	UGA Planning Area:	Seas/Lakes	Department:	Parks
Location:	To be determined	Parks Plan Sector:	Pattison		

Project Description: Acquisition and development of a neighborhood park site in the Pattison Park Planning area (minimum of 5 acres). Land will be obtained and consolidated as various developments occur in the area.

Project Justification: One-Two neighborhood parks will be required in this area as it develops. The LOS shows a need for 1 park in 2010 and two in 2020 - 2030.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										500,000
SEPA / LTA										
Developer Financing										1,000,000
Other										
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										50,000
Design & Engineering										100,000
Land / ROW Acquisition										850,000
Construction										1,000,000
Other										
TOTAL EXPENDITURES										2,000,000

Notes:

Planning Period:	2016-2035	File Number	pr025.xls	CFP Project:	PARKS- 25
Project Title:	Neighborhood Park / Acq & Dev	UGA Planning Area:	Seas/Lakes	Department:	Parks
Location:	To be determined	Parks Plan Sector:	McAllister		

Project Description: Acquisition and development of 1-2 neighborhood park sites in the McAllister Park Planning Area (minimum of 5 acres). Land will be obtained and consolidated as various developments occur in the area.

Project Justification: A neighborhood park facility will be required in this area as it develops, per the LOS. In 2010, one neighborhhod park is needed, with a second park needed in 2020-2030.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										500,000
SEPA / LTA										
Developer Financing										1,000,000
Other										
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										50,000
Design & Engineering										100,000
Land / ROW Acquisition										850,000
Construction										1,000,000
Other										
TOTAL EXPENDITURES										2,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr026.xls	CFP Project:	PARKS- 26
Project Title:	Neighborhood Parks (3) / Acq & Dev	UGA Planning Area:	Tanglewilde	Department:	Parks
Location:	Parks Plan Sector VIII	Parks Plan Sector:	Thompson Place		

Project Description: Acquisition and development of one-two neighborhood park sites in Thompson Place Planning Area (minimum of 5 acres each). Land will be obtained and consolidated as various developments occur in the area.

Project Justification: Neighborhood park facilities will be required in this area as it develops, per the LOS. Community Parks fulfill a portion of the neighborhood park need.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										1,000,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										1,000,000
Other										
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										50,000
Design & Engineering										100,000
Land / ROW Acquisition										850,000
Construction										1,000,000
Other										
TOTAL EXPENDITURES										2,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr027.xls	CFP Project:	PARKS- 27
Project Title:	Neighborhood Parks (3) / Acq & Dev	UGA Planning Area:	Meadows	Department:	Parks
Location:	To be determined	Parks Plan Sector:	Meadows		

Project Description: Acquisition and development of one-two neighborhood park sites in Meadows Park Planning Area (minimum of 5 acres each). Land will be obtained and consolidated as various developments occur in the area.

Project Justification: Neighborhood park facilities will be required in this area as it develops, per the LOS. The RAC fulfills a portion of the neighborhood park need.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										500,000
SEPA / LTA										
Developer Financing										1,000,000
Other										
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										50,000
Land / ROW Acquisition										100,000
Construction										850,000
Other										1,000,000
TOTAL EXPENDITURES										2,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr028.xls	CFP Project:	PARKS- 28
Project Title:	Neighborhood Parks (2) / Acq & Dev	UGA Planning Area:	Hawks	Department:	Parks
Location:	Northeast Area	Parks Plan Sector:	Hawks Prairie		

Project Description: Acquisition and development of one neighborhood park in the northeast planning area. Land will be obtained and consolidated as various developments occur in the area.

Project Justification: A neighborhood park facility will be required in this area as it develops, based on the service area and distance from other neighborhood parks.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										500,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										500,000
Other										
TOTAL FUNDING										1,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										50,000
Land / ROW Acquisition										300,000
Construction										650,000
Other										
TOTAL EXPENDITURES										1,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr029.xls	CFP Project:	PARKS- 29
Project Title:	William Ives Trail Extension	UGA Planning Area:	Hawks	Department:	Parks
Location:	South of 41st Ave NE	Parks Plan Sector:	Hawks Prairie		

Project Description: Extend the William Ives Trail from Willamette Drive West to Marvin Road NE, with volunteer labor.

Project Justification: Trails are a high priority identified in the Comprehensive Plan for Outdoor Recreation. This will allow additional residents easy access to the trail.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned / Easement

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										50,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										50,000
TOTAL FUNDING										100,000
EXPENDITURES										
Planning										
Preliminary Design										5,000
Design & Engineering										
Land / ROW Acquisition										
Construction										95,000
Other										
TOTAL EXPENDITURES										100,000

Notes: 1. Volunteer Labor and Donations

Planning Period:	2016-2035	File Number:	pr030.xls	CFP Project:	PARKS- 30
Project Title:	Horizon Pointe Park Expansion	UGA Planning Area:	Horizon S.	Department:	Parks
Location:	5700 Balustrade Blvd. SE	Parks Plan Sector:	Rainier Vista		

Project Description: Acquisition and development of a six acre parcel adjacent to Horizon Pointe Park.

Project Justification: Acquire six acres adjacent to Horizon Pointe Park to expand the park and provide connectivity to existing residences. this is a densely developed community that couold benefit from additional recreational amenities.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										300,000
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										300,000
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										600,000
EXPENDITURES										
Planning										
Preliminary Design										5,000
Design & Engineering										20,000
Land / ROW Acquisition										300,000
Construction										250,000
Other										25,000
TOTAL EXPENDITURES										600,000

Notes:

Planning Period:	2016-2035	File Number:	pr031.xls	CFP Project:	PARKS - 31
Project Title:	Waterfront Access	UGA Planning Area:	All	Department:	Parks
Location:	City and UGA Wide	Parks Plan Sector:	All		

Project Description: Waterfront Land Acquisition

Project Justification: Additional public access to fresh water and saltwater is needed in Lacey and it's UGA. Puget Sound, Pattison Lake, Long Lake (east shoreline), Hicks Lake, and Chambers Lake.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: Purchase Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										1,000,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										1,000,000
SEPA / LTA										1,000,000
Developer Financing										
Other [1]										
TOTAL FUNDING										3,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										3,000,000
Construction										
Other [2]										
TOTAL EXPENDITURES										3,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr032.xls	CFP Project:	PARKS - 32
Project Title:	Woodland Creek	UGA Planning Area:	Pleas. Glade	Department:	Parks
Location:	UGA	Parks Plan Sector:	Pleasant Glade		

Project Description: Woodland Creek corridor acquisition of property with creek frontage to protect water quality and enhance the wildlife corridor.

Project Justification: the city has a goal to protect and enhance the land adjacent to Woodland Creek either through acquisition or easements.

Policy Basis: 2010 Comprehensive Parks Plan

Current Project Status: Planning

Land Status: Purchase/Easments Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										1,000,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										1,000,000
Developer Financing										
Other [1]										
TOTAL FUNDING										2,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										2,000,000
Construction										
Other [2]										
TOTAL EXPENDITURES										2,000,000

Notes:

Planning Period:	2016-2035	File Number:	pr033.xls	CFP Project:	PARKS- 33
Project Title:	Off Leash Dog Area	UGA Planning Area:	TBD	Department:	Parks
Location:	TBD	Parks Plan Sector:	TBD		

Project Description: An off-leash dog area could be located in either an existing or proposed park with trail, fencing, drinking fountain, picnic tables, parking and other basic amenities.

Project Justification: Citizens have requested a fenced area with trails to walk their dogs off leash.

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned / Acquisition

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										100,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING										100,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										100,000
Other [2]										
TOTAL EXPENDITURES										100,000

Notes:

Planning Period:	2016-2035	File Number:	pr034.xls	CFP Project:	PARKS- 34
Project Title:	Spray Park	UGA Planning Area:	TBD	Department:	Parks
Location:	TBD	Parks Plan Sector:	TBD		

Project Description: A Spray Park will be constructed in either a community or special use park.

Project Justification: Citizens have requested a seasonal spray park for family use in hot weather (spring / summer).

Policy Basis: 2010 Comprehensive Parks Plan | Current Project Status: Planning | Land Status: City Owned or Purchased

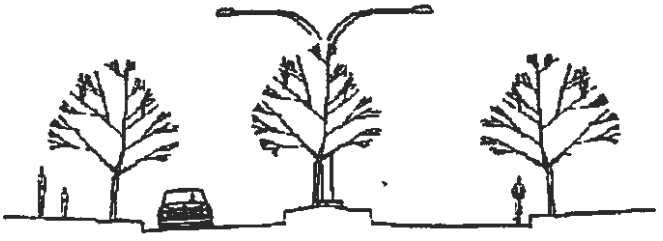
PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										250,000
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										250,000
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING										500,000
EXPENDITURES										
Planning										5,000
Preliminary Design										20,000
Design & Engineering										50,000
Land / ROW Acquisition										
Construction										425,000
Other [2]										
TOTAL EXPENDITURES										500,000

Notes:

Transportation

2016 - 2035



Background

The transportation needs of the City of Lacey and its planning areas are met by a growing multimodal network of arterial, collector and local residential streets. Arterial streets are designed to move goods and people from one section of the urban area to another, and carry the greatest portion of through or long-distance travel. Collector streets generally connect commercial, industrial and residential projects to other collectors and arterials, and provide a balance of mobility and access. Residential streets are designed to move people within neighborhood, to a collector or arterial. While collector and local access streets are usually built as a condition of development, arterial streets are usually constructed using a combination of federal, state, local and private funds. The transportation projects listed in this transportation element are improvements necessary to improve safety and meet existing and future demand. It is important to note that the timing of these projects depends upon securing funding and the pace of development.

Maintenance of existing public streets is the responsibility of the city. Routine maintenance includes regular street sweeping, stormwater conveyance and treatment, pavement restoration, sign cleaning, signal and illumination maintenance and lane marking. Major maintenance includes asphalt overlay projects, which are prioritized by the city's pavement management system. Funding for street maintenance comes from the City's portion of the sales tax, utility taxes, a portion of the city's stormwater utility, and state road and fuel taxes.

The City of Lacey's adopted Comprehensive Transportation Plan and the Six Year Transportation Improvement Plan serve as the basis for the Transportation Element of this Capital Facilities Plan. The plan identifies street, bicycle and pedestrian infrastructure improvements needed to accommodate the area's anticipated travel demand. The City of Lacey is a member of the Thurston Regional Planning Council (TRPC), which serves as the federally recognized Metropolitan Planning Organization (MPO) for the Lacey-Olympia-Tumwater urban area. TRPC also serves as the state recognized Regional Transportation Planning Organization (RTPO) for Thurston County. Lacey's Transportation Plan was created concurrently with TRPC's Regional Transportation Plan in order to assure that local and regional transportation needs are addressed in a cohesive and integrated manner.

Transportation Planning Goals

Lacey's Transportation Plan adopts a number of transportation planning goals and policies designed to guide the development of a multimodal transportation system that will support the city's Comprehensive Land Use Plan and accommodate the transportation needs of the city into the future.

Level of Service Analysis

The City has established service levels for the street network to provide a means for identifying deficiencies in the transportation system. Level of Service (LOS) is a qualitative term describing operating conditions a driver will experience while traveling on a particular street or highway during a specific time interval. It ranges from A (very little delay) to F (long

delays and congestion). Any transportation facility that functions below the adopted standards is considered to be failing.

While levels of roadway congestion are identified through the above national standards, which of the above standards represent "acceptable" congestion is determined at the local level.

To predict the effect of population and employment growth on Lacey's LOS, traffic volume forecasts were jointly developed by TRPC and a consulting engineering firm using a computer model of the entire Thurston County roadway network. The model was calibrated to match current transportation volumes, and then traffic volumes were estimated for a future year, based on forecasted future land use and the current transportation infrastructure. This tests the capability of the current system to sustain future traffic, and reveals the road sections that are likely to become congested. Alternative solutions are proposed to address the congestion, and the model evaluates their performance. This process assists in allocating scarce resources in a way that benefits the city's transportation network.

Alternative Modes of Transportation

Lacey has emphasized and continues to emphasize a multimodal transportation system. Many of the city's streets include sidewalks and bike lanes, making non-motorized travel a viable alternative to cars. Current standards require non-motorized elements including bike lanes and sidewalks on all new or redeveloped portions of roadway, in order to close any gaps in the existing system and expand its network. Additionally, Travel Demand Management strategies include provisions for bicycle and pedestrian facilities, as well as long-term efforts to promote multimodal transportation options and implement transit-oriented development. The Transportation Plan incorporates and integrates the Pedestrian Plan and Bicycle Facilities Plan.
The Lacey Pedestrian Plan includes many facilities that will be completed as elements of scheduled roadway improvements projects, and a number of others that will be constructed through "stand-alone" sidewalk projects. Improvements with the Bicycle Facilities Plan will also be completed through a combination of roadway improvement projects and stand-alone projects along existing roadways.

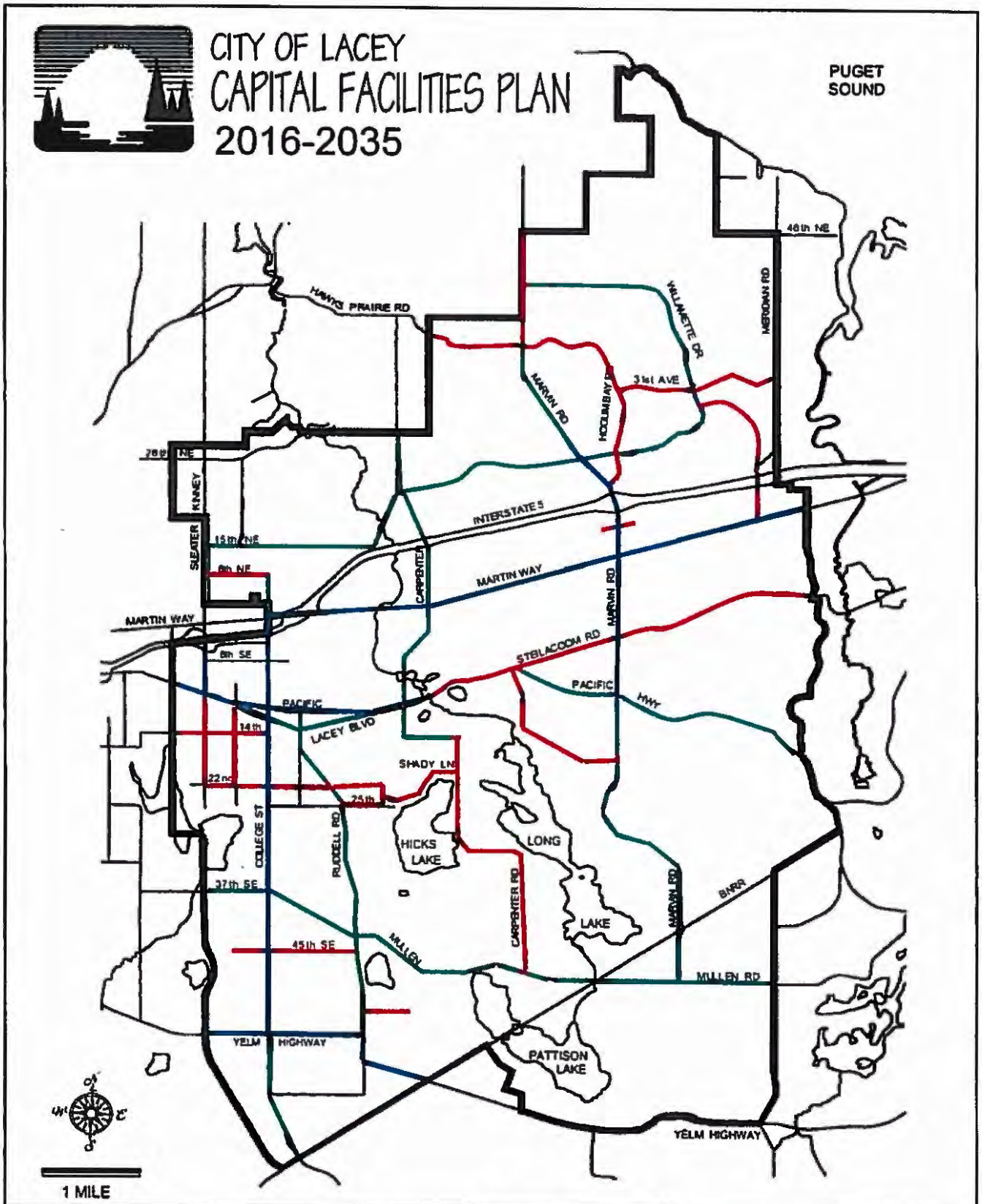
6-Year Financing Plan

The financing plan for the first 6 years of the Transportation Element of this Capital Facilities Plan is outlined in Table 5.1 below. Funding sources include the general fund, arterial street fund, grants, shared costs with other jurisdictions, and developer contributions.

As a final note, it should be recognized that the principal purpose of this Capital Facilities Plan is to demonstrate how the city will implement its adopted Transportation Plan. Readers wishing more detailed explanations of transportation planning methodologies are encouraged to review the full Comprehensive Transportation Plan.

Source of Funds	2016	2017	2018	2019	2020	2021	Total
Arterial Street Fund	2,665,605	3,710,826	5,336,558	1,209,450	4,404,028	1,000,000	18,326,467
Federal Grants	2,467,874	1,695,774		508,447	300,000	950,000	5,922,095
State Grants	6,123,921	6,839,200	2,789,190	500,000	3,559,860		19,812,171
Traffic Mitigation	742,100	484,000	32,655				1,258,755
Other	198,000						198,000
TOTAL	**$12,197,500**	**$12,729,800**	**$8,158,403**	**$2,217,897**	**$8,263,888**	**$1,950,000**	**$45,517,488**

Table 5.1

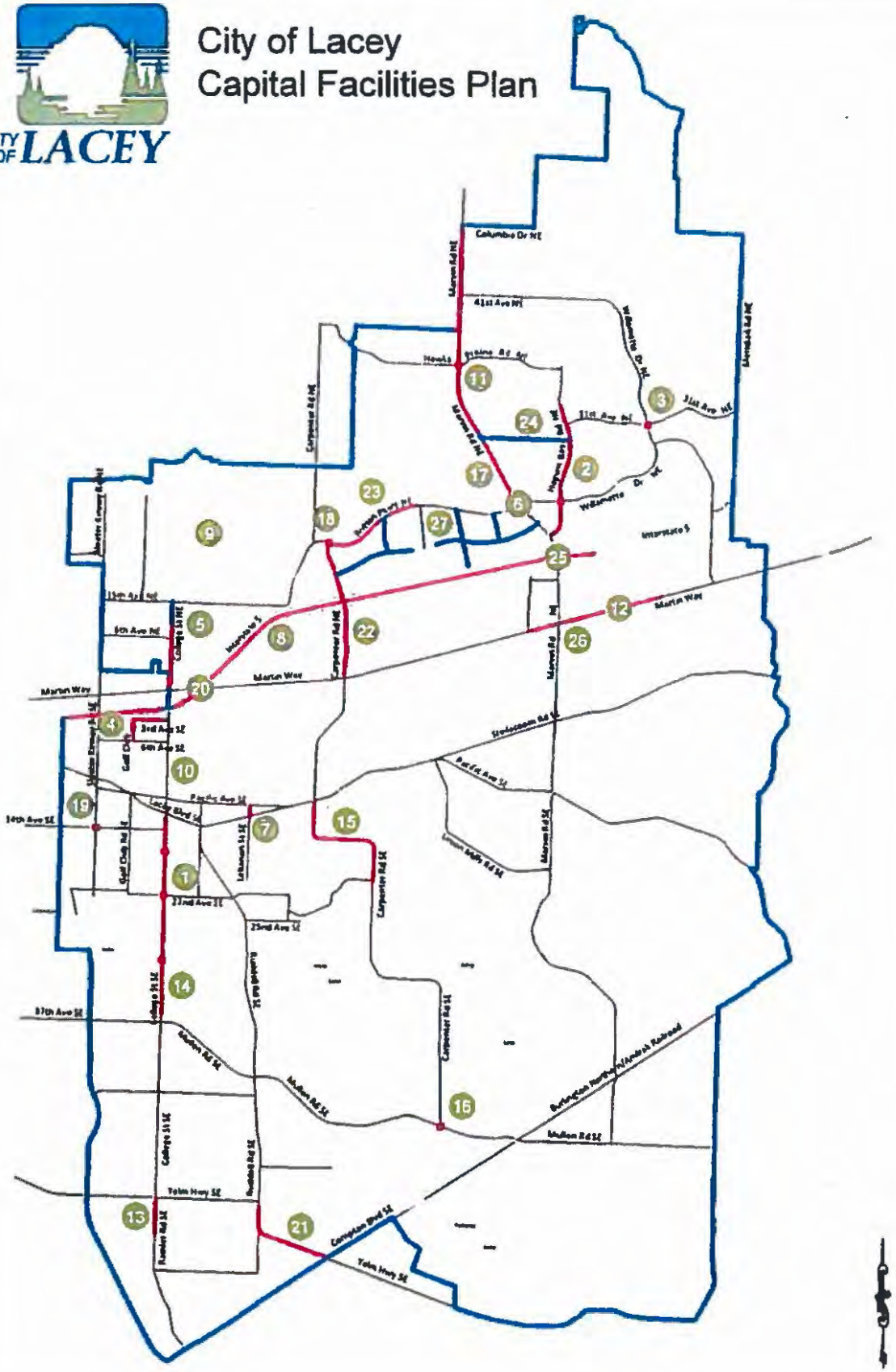


Principal City Streets Inventory Map

Major Arterials
Minor Arterials
Collectors

Lacey UGA Boundary

City of Lacey
Capital Facilities Plan



Transportation Projects

Project Number	1	New Roadway	
Improvement Project		Lacey UGA Boundary	

CITY OF LACEY 2016-2035 CAPITAL FACILITIES PLAN
TRANSPORTATION PROJECTS SUMMARY SHEET

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING SOURCES										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	3,197,695	2,665,605	3,710,826	5,336,558	1,209,450	4,404,028	1,000,000	18,326,467	40.3%	46,742,656
PWTF Loan										
Interfund Loan										
Federal Grants	4,275,800	2,467,874	1,695,774		508,447	300,000	950,000	5,922,095	13.0%	11,903,726
State Grants	212,700	6,123,921	6,839,200	2,789,190	500,000	3,559,860		19,812,171	43.5%	18,620,817
Traffic Mitigation	1,558,500	742,100	484,000	32,655				1,258,755	2.8%	
Other	150,000	198,000						198,000	0.4%	
TOTAL	9,394,695	12,197,500	12,729,800	8,158,403	2,217,897	8,263,888	1,950,000	45,517,488	100.0%	77,267,199
EXPENDITURES BY CATEGORY										
Planning	1,648,800									
Preliminary Design	93,395	63,000						63,000	0.1%	
Design & Engineering	3,377,400	283,300	514,400	1,273,210	692,897	1,000,000	1,950,000	5,713,807	12.6%	13,961,215
Land / ROW Acquisition	1,258,600	2,285,000	500,000	500,000	500,000	500,000		4,285,000	9.4%	2,500,000
Construction	3,006,800	9,566,200	11,715,400	6,385,193	1,025,000	6,763,888		35,455,681	77.9%	60,805,984
Other	83,700									
TOTAL	9,468,695	12,197,500	12,729,800	8,158,403	2,217,897	8,263,888	1,950,000	45,517,488	100.0%	77,267,199
EXPENDITURES BY PROJECT										
TRANS- 1 College Street Corridor - Phase 1	679,200	2,480,500	1,217,500					3,698,000	8.1%	
TRANS- 2 Hogum Bay Road Improvements	1,106,700	4,049,000	1,683,700					5,732,700	12.6%	
TRANS- 3 Willamette Dr/31st Ave Roundabout	1,639,500	350,000						350,000	0.8%	
TRANS- 4 Golf Club Extension	939,500									
TRANS- 5 College Street NE Extension	129,000			2,723,873				2,723,873	6.0%	
TRANS- 6 Marvin Rd and Britton Improvements	30,900	820,000	3,280,000					4,100,000	9.0%	
TRANS- 7 Lebanon St Extension			467,300					467,300	1.0%	
TRANS- 8 Martin Way and Marvin Rd IJR	1,648,800									
TRANS- 9 Annual Street Overlay	619,200	500,000						500,000	1.1%	
TRANS- 10 City-wide Intersection Improvements	1,689,095	712,500						712,500	1.6%	
TRANS- 11 Hawks Prairie/Marvin Roundabout	42,000	120,000	80,000					200,000	0.4%	1,000,000
TRANS- 12 Martin Way/Hoh St Improvements	28,000	10,000			611,125			621,125	1.4%	
TRANS- 13 Rainier Road Improvements	203,300	65,000	635,000	1,601,952				2,301,952	5.1%	
TRANS- 14 College St Corridor Improvements	682,100	2,260,500	1,217,500	500,000	500,000	500,000	1,000,000	5,978,000	13.1%	30,500,000
TRANS- 15 Carpenter Rd Capacity Improvements			368,800	3,263,000				3,631,800	8.0%	
TRANS- 16 Carpenter Rd and Mullen Improvements	500	10,000	500,000					510,000	1.1%	
TRANS- 17 Marvin Road Improvements	30,900	820,000	3,280,000		500,000	7,163,888		11,763,888	25.8%	
TRANS- 18 Britton Parkway/Carpenter Improvements				69,578	465,000			534,578	1.2%	
TRANS- 19 Sleater Kinney Improvements					141,772	600,000		741,772	1.6%	
TRANS- 20 Martin Way & I-5 Interchange							550,000	550,000	1.2%	4,897,746
TRANS- 21 Yelm Highway Improvements							400,000	400,000	0.9%	3,685,809
TRANS- 22 Carpenter Road Widening										15,767,917
TRANS- 23 Britton Parkway Widening										2,054,000
TRANS- 24 31st Avenue Extension										4,132,000
TRANS- 25 Martin Way East Improvements										4,740,910
TRANS- 26 Lacey Hawks Prairie Business Dist.										10,488,817
TOTAL	9,468,695	12,197,500	12,729,800	8,158,403	2,217,897	8,263,888	1,950,000	45,517,488	100.0%	77,267,199

Notes: Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as projects move into the 6-year planning window

Planning Period:	2016-2035	File Number:	14tr001.xls	CFP Project:	TRANS 1
Project Title:	College Street Corridor - Phase 1	UGA Planning Area:	Central	Department:	Public Works
Location:	College Street	Trans. Plan Project:	7		

Project Description: Construct a roundabout at the intersection of College St SE and 22nd Avenue. Realign and improve both College Street and 22nd Avenue from approximately 18th Avenue to 25th Avenue. Includes sidewalks illumination, access control, landscaping, and other urban amenities.

Project Justification: Capacity and safety improvement are needed.

Policy Basis: Six Year TIP | Current Project Status: Design | Land Status: R.O.W. Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	242,900	667,800	369,600					1,037,400	28%	
PWTF Loan										
Interfund Loan										
Federal[1] Grants	94,700	847,900	847,900					1,695,800	46%	
State Grants[2]	212,700	964,800						964,800	26%	
Traffic Mitigation	128,900									
Other										
TOTAL FUNDING	679,200	2,480,500	1,217,500					3,698,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	558,300	63,000						63,000	2%	
Land / ROW Acquisition	120,900	1,200,000						1,200,000	32%	
Construction		1,217,500	1,217,500					2,435,000	66%	
Other										
TOTAL EXPENDITURES	679,200	2,480,500	1,217,500					3,698,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	14tr002.xls	CFP Project:	TRANS 2
Project Title:	Hogum Bay Road Improvements	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Hogum Bay Road	Trans. Plan Project:	3		

Project Description: Design and build a roundabout and improve Hogum Bay Road with emphasis on structural loading for the truck route.

Project Justification: Improvements to freight mobility for a dedicated truck route.

Policy Basis: 2014 TIP

Current Project Status: Design & R.O.W. Acquisition

Land Status: R.O.W. Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Federal Grant	675,900	453,800						453,800	8%	
State Grant		3,595,200	1,683,700					5,278,900	92%	
Traffic Mitigation	280,800									
Other	150,000									
TOTAL FUNDING	1,106,700	4,049,000	1,683,700					5,732,700	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	803,500	20,300						20,300	0%	
Land / ROW Acquisition	303,200	100,000						100,000	2%	
Construction		3,928,700	1,683,700					5,612,400	98%	
Other										
TOTAL EXPENDITURES	1,106,700	4,049,000	1,683,700					5,732,700	100%	

Notes:

Planning Period:	2016-2035	File Number:	14tr003.xls	CFP Project:	TRANS 3
Project Title:	Willamette Dr/31st Ave Roundabout	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Willamette Dr and 31st Avene	Trans. Plan Project:	26		

Project Description: Construct a roudabout at Willamette Drive and 31st Avenue.

Project Justification: Safety and efficiency improvements to the intersection

Policy Basis: 2014 TIP | Current Project Status: Construction | Land Status:

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	506,300	31,700						31,700	9%	
PWTF Loan										
Interfund Loan										
Federal[1] Grant	893,500	318,300						318,300	91%	
State Grant										
Traffic Mitigation	239,700									
Other[3]										
TOTAL FUNDING	1,639,500	350,000						350,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	203,200									
Land / ROW Acquisition	12,300									
Construction	1,424,000	350,000						350,000	100%	
Other										
TOTAL EXPENDITURES	1,639,500	350,000						350,000	100%	

Notes: 1. Federal Grant: $1,591,660

Planning Period:	2016-2035	File Number:	14tr004.xls	CFP Project:	TRANS- 4
Project Title:	Golf Club Extension	UGA Planning Area:	Central	Department:	Public Works
Location:	Golf Club Road	Trans. Plan Project:	16		

Project Description: Rechannelize and rehabilitate both 3rd Avenue and Golf Club Road and extend Golf Club Road to 3rd Ave

Project Justification: Improve connectivity in the Woodland District and reduce congestion at nearby intersections.

Policy Basis: 2014 TIP | Current Project Status: Complete | Land Status: R.O.W. Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	933,600									
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										
Traffic Mitigation	5,900									
Other										
TOTAL FUNDING	939,500									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	178,300									
Land / ROW Acquisition	2,400									
Construction	758,800									
Other										
TOTAL EXPENDITURES	939,500									

Notes:

Planning Period:	2015-2034	File Number:	14tr005.xls	CFP Project:	TRANS 5
Project Title:	College Street NE Extension	UGA Planning Area:	Pleasant Glade	Department:	Public Works
Location:	College Street NE	Trans. Plan Project:	4		

Project Description: Extend College Street from 6th Avenue NE to 15th Avenue NE with 3-lane roadway with bike lanes and sidewalks. Rechannelize and rehabilitate both 6th Avenue and College Street to correlate.

Project Justification: Improve traffic flow and make roadway imrpovements.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: R.O.W. Secured

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund				2,691,218				2,691,218		
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										
Traffic Mitigation	129,000			32,655				32,655		
Other										
TOTAL FUNDING	129,000			2,723,873				2,723,873		
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	87,200			492,230				492,230		
Land / ROW Acquisition										
Construction				2,231,643				2,231,643		
Other	41,800									
TOTAL EXPENDITURES	129,000			2,723,873				2,723,873		

Notes:

Planning Period:	2016-2035	File Number:	14tr006.xls	CFP Project:	TRANS 6
Project Title:	Marvin Rd and Britton Improvements	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Marvin Rd and Britton Parkway	Trans. Plan Project:	9		

Project Description: Construct a slip lane and improve the geometrics of the roundabout

Project Justification: Safety Improvements.

Policy Basis: 2014 TIP

Current Project Status: Design

Land Status: R.O.W. Secured

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	8,000		761,000					761,000	19%	
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant		474,000	2,292,000					2,766,000	67%	
Traffic Mitigation	22,900	247,000	227,000					474,000	12%	
Other		99,000						99,000	2%	
TOTAL FUNDING	30,900	820,000	3,280,000					4,100,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	30,900									
Land / ROW Acquisition										
Construction		820,000	3,280,000					4,100,000	100%	
Other										
TOTAL EXPENDITURES	30,900	820,000	3,280,000					4,100,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	14tr007.xls	CFP Project:	TRANS 7
Project Title:	Lebanon St Extension	UGA Planning Area:	Central	Department:	Public Works
Location:	Lacey Blvd to Pacific Avenue	Trans. Plan Project:	17		

Project Description: New roadway on Lebanon Street between Lacey Blvd and Pacific Avenue.

Project Justification: Connectivity improvement and access to the propsed Train Depot Museum.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund			467,300					467,300	100%	
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										
Traffic Mitigation										
Other										
TOTAL FUNDING			467,300					467,300	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			65,600					65,600	14%	
Land / ROW Acquisition										
Construction			401,700					401,700	86%	
Other [2]										
TOTAL EXPENDITURES			467,300					467,300	100%	

Notes:

Planning Period:	2016-2035	File Number:	14tr008.xls	CFP Project:	TRANS 8
Project Title:	Martin Way and Marvin Rd IJR	UGA Planning Area:	Tanglewilde	Department:	Public Works
Location:	Nisqually Interchange to Pacific Ave	Trans. Plan Project:	5 & 6		

Project Description: Complete Interchange Justification Report for Interstate 5 from Nisqually exit to Pacific Ave exit.

Project Justification: Planning and design for upgrades to I-5 interchanges.

Policy Basis: 2014 TIP | Current Project Status: Planning | Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Federal Grant	1,192,900									
State Grant										
Traffic Mitigation	455,900									
Other										
TOTAL FUNDING	1,648,800									
EXPENDITURES										
Planning	1,648,800									
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES	1,648,800									

Planning Period:	2016-2035	File Number:	14tr009.xls	CFP Project:	TRANS 9
Project Title:	Annual Street Overlay	UGA Planning Area:	Varies	Department:	Public Works
Location:	Varies	Trans. Plan Project:			

Project Description: Annual street overlay program

Project Justification: As revenue allows, this program will maintain the streets at a high level.

Policy Basis: Annual city budgets

Current Project Status: Planning

Land Status: City R.O.W

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	619,200	500,000						500,000	100%	
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										
Traffic Mitigation										
Other										
TOTAL FUNDING	619,200	500,000						500,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	103,800									
Land / ROW Acquisition										
Construction	515,400	500,000						500,000	100%	
Other [2]										
TOTAL EXPENDITURES	619,200	500,000						500,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	tr010.xls	CFP Project:	TRANS- 10
Project Title:	City-wide Intersection Improvements	UGA Planning Area:	All	Department:	Public Works
Location:	City-wide	Trans. Plan Project:	N/A		

Project Description: Replace all signal cabinets in the city with a modern centralized system capable of advanced signal to signal coordination to improve efficiency.

Project Justification: Improve efficiency in the transporation network.

Policy Basis: Best Management Practices | Current Project Status: Design | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	270,295	599,800						599,800	84%	
PWTF Loan										
Interfund Loan										
Federal Grant	1,418,800									
State Grant										
Traffic Mitigation		112,700						112,700	16%	
Other										
TOTAL FUNDING	1,689,095	712,500						712,500	100%	
EXPENDITURES										
Planning										
Preliminary Design	51,395									
Design & Engineering	1,329,100									
Land / ROW Acquisition										
Construction	308,600	712,500						712,500	100%	
Other [2]										
TOTAL EXPENDITURES	1,689,095	712,500						712,500	100%	

Notes: Other funding from Thurston County

Planning Period:	2016-2035	File Number:	tr011.xls	CFP Project:	TRANS 11
Project Title:	Hawks Prairie/Marvin Roundabout	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Hawks Prairie Rd and Marvin Rd	Trans. Plan Project:	N/A		

Project Description: Increase capacity by adding an additional lane to the existing roundabout.

Project Justification: Safety and capacity improvements.

Policy Basis: Best Management Practices

Current Project Status: Preliminary Design

Land Status: To be determined

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	1,300		50,000					50,000	25%	1,000,000
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										
Traffic Mitigation	40,700	120,000	30,000					150,000	75%	
Other										
TOTAL FUNDING	42,000	120,000	80,000					200,000	100%	1,000,000
EXPENDITURES										
Planning										
Preliminary Design	42,000									
Design & Engineering		120,000	80,000					200,000	100%	
Land / ROW Acquisition										
Construction										1,000,000
Other [2]										
TOTAL EXPENDITURES	42,000	120,000	80,000					200,000	100%	1,000,000

Notes:

Planning Period:	2016-2035	File Number:	14tr012.xls	CFP Project:	TRANS 12
Project Title:	Martin Way/Hoh St Improvements	UGA Planning Area:	Tanglewilde	Department:	Public Works
Location:	Martin Way and Hoh Street	Trans. Plan Project:	25		

Project Description: Construct a traffic signal at the intersection and eliminate the offset.

Project Justification: Intersection safety improvements.

Policy Basis: 2014 TIP | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund					244,450			244,450	39%	
PWTF Loan										
Interfund Loan										
Federal Grant					366,675			366,675	59%	
State Grant										
Traffic Mitigation	28,000	10,000						10,000	2%	
Other										
TOTAL FUNDING	28,000	10,000			611,125			621,125	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	28,000	10,000			51,125			61,125	10%	
Land / ROW Acquisition										
Construction					560,000			560,000	90%	
Other										
TOTAL EXPENDITURES	28,000	10,000			611,125			621,125	100%	

Notes:

Planning Period:	2016-2035	File Number:	14tr013.xls	CFP Project:	TRANS 13
Project Title:	Rainier Road Improvements	UGA Planning Area:	Horizons	Department:	Public Works
Location:	Yelm Highway to south city limits	Trans. Plan Project:	22		

Project Description: Improve tapers and storage at the intersections and add bike lanes and sidewalks.

Project Justification: Reduce congestion .

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: R.O.W. Needed

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund		61,500	63,500	812,762				937,762	41%	
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant			571,500	789,190				1,360,690	59%	
Traffic Mitigation	203,300	3,500						3,500	0%	
Other										
TOTAL FUNDING	203,300	65,000	635,000	1,601,952				2,301,952	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	23,700	60,000		348,402				408,402	18%	
Land / ROW Acquisition	179,600	5,000						5,000	0%	
Construction			635,000	1,253,550				1,888,550	82%	
Other										
TOTAL EXPENDITURES	203,300	65,000	635,000	1,601,952				2,301,952	100%	

Notes: State Grant of $1,360,690

Planning Period:	2016-2025	File Number:	14tr014.xls	CFP Project:	TRANS- 14
Project Title:	College St Corridor Improvements	UGA Planning Area:	Central	Department:	Public Works
Location:	College St - 37th Ave to Lacey Blvd	Trans. Plan Project:	21		

Project Description: Construct remaining portions of the the College St Corridor Improvements. The College Street and 22nd Ave Roundabout will be constructed in 2015-2016.

Project Justification: Urban arterial intersection and capacity improvements.

Policy Basis: 2014 TIP | Current Project Status: Planning | Land Status: R.O.W. Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	608,100	796,705	369,626	500,000	500,000	500,000	1,000,000	3,666,331	61%	30,500,000
PWTF Loan										
Interfund Loan										
Federal Grant		847,874	847,874					1,695,748	28%	
State Grant		615,921						615,921	10%	
Traffic Mitigation										
Other	74,000									
TOTAL FUNDING	682,100	2,260,500	1,217,500	500,000	500,000	500,000	1,000,000	5,978,000	100%	30,500,000
EXPENDITURES										
Planning										
Preliminary Design		63,000						63,000	1%	
Design & Engineering							1,000,000	1,000,000	17%	5,600,000
Land / ROW Acquisition	640,200	980,000		500,000	500,000	500,000		2,480,000	41%	2,500,000
Construction		1,217,500	1,217,500					2,435,000	41%	22,400,000
Other	41,900									
TOTAL EXPENDITURES	682,100	2,260,500	1,217,500	500,000	500,000	500,000	1,000,000	5,978,000	100%	30,500,000

Notes:

Planning Period:	2016-2035	File Number:	14tr015.xls	CFP Project:	TRANS 15
Project Title:	Carpenter Rd Capacity Improvements	UGA Planning Area:	Central/Lakes	Department:	Public Works
Location:	Pacific Ave to Shady Lane	Trans. Plan Project:	12		

Project Description: Widen roadway to taper from 5-lane section to 3-lane section with bike lanes and sidewalks. Also realign 14th Avenue.

Project Justification: Multimodal roadway improvements.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund			368,800	1,263,000				1,631,800		
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant				2,000,000				2,000,000		
Traffic Mitigation										
Other										
TOTAL FUNDING			368,800	3,263,000				3,631,800		
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			368,800	363,000				731,800		
Land / ROW Acquisition										
Construction				2,900,000				2,900,000		
Other [2]										
TOTAL EXPENDITURES			368,800	3,263,000				3,631,800		

Planning Period:	2016-2035	File Number:	14tr016.xls	CFP Project:	TRANS 16
Project Title:	Carpenter Rd and Mullen Improvements	UGA Planning Area:	Lakes	Department:	Public Works
Location:	Carpenter Rd and Mullen Rd	Trans. Plan Project:	19		

Project Description: Construct a roundabout at the intersection of Mullen Rd and Carpenter Rd.

Project Justification: Improve efficiency and reduce congestion.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund		8,100	500,000					508,100	100%	
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										
Traffic Mitigation	500	1,900						1,900	0%	
Other										
TOTAL FUNDING	500	10,000	500,000					510,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	500	10,000						10,000	2%	
Land / ROW Acquisition			500,000					500,000	98%	
Construction										
Other										
TOTAL EXPENDITURES	500	10,000	500,000					510,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	14tr017.xls	CFP Project:	TRANS 17
Project Title:	Marvin Road Improvements	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Britton Parkway to Columbia Dr NE	Trans. Plan Project:	8		

Project Description: Widen Marvin Road from 2 lanes to 5 lanes to Hawks Prairie Rd then transition to 3 lane section with bike lanes and sidewalks.

Project Justification: Improve traffic capacity.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund	8,000		761,000			3,604,028		4,365,028	37%	
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant		474,000	2,292,000		500,000	3,559,860		6,825,860	58%	
Traffic Mitigation	22,900	247,000	227,000					474,000	4%	
Other		99,000						99,000	1%	
TOTAL FUNDING	30,900	820,000	3,280,000		500,000	7,163,888		11,763,888	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	30,900				500,000	1,000,000		1,500,000	13%	
Land / ROW Acquisition										
Construction		820,000	3,280,000			6,163,888		10,263,888	87%	
Other										
TOTAL EXPENDITURES	30,900	820,000	3,280,000		500,000	7,163,888		11,763,888	100%	

Notes: State Funds of $6,829,860

Planning Period:	2016-2035	File Number:	14tr018.xls	CFP Project:	TRANS 18
Project Title:	Britton Parkway/Carpenter Improvements	UGA Planning Area:	Hawks Prairi	Department:	Public Works
Location:	Britton Parkway/Carpenter	Trans. Plan Project:	9		

Project Description: Add intersections traffic control devices .

Project Justification: Improve intersection efficiency.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: R.O.W. Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund				69,578	465,000			534,578	100%	
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										
Traffic Mitigation										
Other										
TOTAL FUNDING				69,578	465,000			534,578	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				69,578				69,578	13%	
Land / ROW Acquisition										
Construction					465,000			465,000	87%	
Other [2]										
TOTAL EXPENDITURES				69,578	465,000			534,578	100%	

Notes: 1 & 2 Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Planning Period:	2016-2035	File Number:	14tr019.xls	CFP Project:	TRANS 19
Project Title:	Sleater Kinney Improvements	UGA Planning Area:	Central	Department:	Public Works
Location:	Sleater Kinney Rd at 14th Avenue	Trans. Plan Project:	18		

Project Description: Install a traffic control device at Sleater Kinney and 14th Avenue. Probable Roundabout

Project Justification: Intersection safety and capacity improvements.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund						300,000		300,000	40%	
PWTF Loan										
Interfund Loan										
Federal Grant					141,772	300,000		441,772	60%	
State Grant										
Traffic Mitigation										
Other										
TOTAL FUNDING					141,772	600,000		741,772	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					141,772			141,772	19%	
Land / ROW Acquisition										
Construction						600,000		600,000	81%	
Other										
TOTAL EXPENDITURES					141,772	600,000		741,772	100%	

Notes: STP (U) Grant of $441,772

Planning Period:	2016-2035	File Number:	14tr020.xls	CFP Project:	TRANS 20
Project Title:	Martin Way & I-5 Interchange	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Martin Way & I-5	Trans. Plan Project:	13		

Project Description: Construct an approved interchange per the Interchange Justification Report. Assumed to be a half clover.

Project Justification: Improve traffic capacity.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: City R.O.W.

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										447,746
PWTF Loan										
Interfund Loan										
Federal Grant							550,000	550,000	100%	4,450,000
State Grant										
Traffic Mitigation										
Other										
TOTAL FUNDING							550,000	550,000	100%	4,897,746
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering							550,000	550,000	100%	539,550
Land / ROW Acquisition										
Construction										4,358,196
Other										
TOTAL EXPENDITURES							550,000	550,000	100%	4,897,746

Notes: 1. Federal Grant: Discretionary - IMD grant of $5,000,000

Planning Period:	2016-2035	File Number:	14tr021.xls	CFP Project:	TRANS 21
Project Title:	Yelm Highway Improvements	UGA Planning Area:	Horizons	Department:	Public Works
Location:	Ruddell Rd to Amtrak Bridge	Trans. Plan Project:	23		

Project Description: Widen east side for an additional northbound lane, bike lane, sidewalk and other urban amenities.

Project Justification: Improve traffic flow

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: City R.O.W.

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										2,000,000
PWTF Loan										
Interfund Loan										
Federal Grant							400,000	400,000	100%	1,685,809
State Grant										
Traffic Mitigatin										
Other [1]										
TOTAL FUNDING							400,000	400,000	100%	3,685,809
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering							400,000	400,000	100%	415,809
Land / ROW Acquisition										
Construction										3,270,000
Other [2]										
TOTAL EXPENDITURES							400,000	400,000	100%	3,685,809

Notes: Federal Grant available $2,085,809

Planning Period:	2016-2035	File Number:	14tr022.xls	CFP Project:	TRANS 22
Project Title:	Carpenter Road Widening	UGA Planning Area:	Central	Department:	Public Works
Location:	Martin Way to Britton Parkway	Trans. Plan Project:	20		

Project Description: Widen the roadway to 5 lanes with auxilary turn lanes, bike lanes, sidewalks and other urban amenities.

Project Justification: Multimodal capacity improvements.

Policy Basis: 2014 TIP | Current Project Status: Planning | Land Status: City R.O.W.

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										5,000,000
PWTF Loan										
Interfund Loan										
Federal Grant										5,767,917
State Grant										5,000,000
Traffic Mitigation										
Other										
TOTAL FUNDING										15,767,917
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										3,129,583
Land / ROW Acquisition										
Construction										12,638,334
Other										
TOTAL EXPENDITURES										15,767,917

Notes:
1. Federal Grant: STP $5,767,917
2. State Grant $5,000,000

Planning Period:	2016-2035	File Number:	14tr023.xls	CFP Project:	TRANS- 23
Project Title:	Britton Parkway Widening	UGA Planning Area:	Hawks Prairi	Department:	Public Works
Location:	Gateway Blvd to Carpenter	Trans. Plan Project:	15		

Project Description: Widen to 4-lane boulevard

Project Justification: Capacity improvements.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: R.O.W. Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										1,054,000
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										1,000,000
Traffic Mitigation										
Other										
TOTAL FUNDING										2,054,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										404,000
Land / ROW Acquisition										
Construction										1,650,000
Other										
TOTAL EXPENDITURES										2,054,000

Notes: 1. State Grant: TIB $1,000,000

Planning Period:	2016-2035	File Number:	14tr024.xls	CFP Project:	TRANS 24
Project Title:	31st Avenue Extension	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Hogum Bay to Marvin Road	Trans. Plan Project:	10		

Project Description: New 3 lane collector street that will ultimately be extended to Sleater Kinney Road.

Project Justification: To improve traffic flows.

Policy Basis: 2014 TIP | Current Project Status: Planning | Land Status: R.O.W. Needed

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										2,000,000
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										2,132,000
Traffic Mitigation										
Other										
TOTAL FUNDING										4,132,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										833,600
Land / ROW Acquisition										
Construction										3,298,400
Other										
TOTAL EXPENDITURES										4,132,000

Notes: State Grant of $2,132,000

Planning Period:	2016-2035	File Number:	14tr025.xls	CFP Project:	TRANS- 25
Project Title:	Martin Way East Improvements	UGA Planning Area:	Meadows	Department:	Public Works
Location:	Galaxy Drive to River Ridge Drive	Trans. Plan Project:	27		

Project Description: Access management, bike lanes, sidewalks, and other urban amenities.

Project Justification: Improve traffic flow

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: City R.O.W

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										4,740,910
PWTF Loan										
Interfund Loan										
Federal Grant										
State Grant										
Traffic Mitigation										
Other										
TOTAL FUNDING										4,740,910
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										940,910
Land / ROW Acquisition										
Construction										3,800,000
Other										
TOTAL EXPENDITURES										4,740,910

Notes:

Planning Period:	2016-2035	File Number:	14tr026.xls	CFP Project:	TRANS- 26
Project Title:	Lacey Hawks Prairie Business Dist.	UGA Planning Area:	Central	Department:	Public Works
Location:	Construct new corridors in District	Trans. Plan Project:	14		

Project Description: Construct new corridors with the Lacey Hawks Prairie Business District (LHPBD).

Project Justification: Improve connectivity.

Policy Basis: 2014 TIP

Current Project Status: Planning

Land Status: R.O.W. Needed

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Federal Grants										
State Grants										10,488,817
Traffic Mitigation										
Other										
TOTAL FUNDING										10,488,817
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										2,097,763
Land / ROW Acquisition										
Construction										8,391,054
Other										
TOTAL EXPENDITURES										10,488,817

Notes: State Grant of $10,488,817

Wastewater

Background

The City of Lacey owns, operates, and maintains a wastewater (sewer) system with a service area of approximately 33 square miles. The system consists of approximately 211 miles interceptor, gravity, force, and septic tank effluent pumping (STEP) lines and 48 pump stations.

The city's existing service area includes most of incorporated Lacey. Although this means that sewer service is generally available to all homes and businesses within the city limits, it is important to note that a large number of households, and some businesses, are currently utilizing on-site septic systems to treat and dispose of their wastewater. It is anticipated that many of these household and businesses will eventually connect to the city system.

The city's long-term sewer service area essentially corresponds to Lacey's long-term Urban Growth Area (UGA). The city is required by the State Growth Management Act to provide sewer service to this area as development occurs.

Treatment and disposal of the collected sewage is provided by the Lacey-Olympia-Tumwater-Thurston County (LOTT) Wastewater Treatment Facility located in the City of Olympia adjacent to Budd Inlet. Wastewater generated in the Lacey sewer service area is transported via the Martin Way interceptor line to the Martin Way Satellite Treatment Facility on Martin Way or to the Budd Inlet plant for treatment.

The draft *City of Lacey 2014 Comprehensive Wastewater Plan* serves as the basis for this section of the Capital Facilities Plan by providing the following:

1) Evaluation of the existing wastewater collection system's condition and capacity, and identification of deficiencies and needed repairs;

2) Investigation of various sewer system alternatives which would aid in meeting future sewer service area requirements;

3) Outlin of operation, maintenance, and emergency response issues relating to Lacey's wastewater system; and

4) Establishes a schedule of system repairs, improvements, and expansion necessary to adequately serve the City's existing and long-term sewer service areas.

It is important to note that the purpose of this Capital Facilities Plan is to demonstrate *how* the City will implement Lacey's Comprehensive Wastewater Plan. Readers wishing more detailed explanations of methodologies and findings are encouraged to review the full *City of Lacey 2014 Comprehensive Wastewater Plan,* available on the City's website.

Sewer System Planning Goals and Objectives

Planning goals and objectives established by Lacey's Wastewater Plan are:

1) To plan, build, and maintain the infrastructure necessary to provide sanitary sewer service to all parts of Lacey's existing and future service areas;

2) To protect vital groundwater resources that serve as the area's primary source of drinking water by collection, treatment, and disposal of the wasteflow away from aquifer recharge areas;

3) To successfully meet all current and future State and federal regulatory requirements.

Level-of-Service Analysis

The city's Comprehensive Wastewater Plan establishes level-of-service (LOS) criteria in regard to the collection system capacity. LOTT establishes the level of service with regard to treatment capacity and treatment levels.

Collection System Capacity. Collection system capacity refers to the ability of the wastewater collection system—city-owned sewer lines and pump stations—to accept all residential and commercial wastewater generated in Lacey's existing and future sewer service areas. The sewer plan establishes a level-of-service capacity of 85 gallons (including I&I) of wastewater per-capita-per-day, with a 2.22 peaking factor for peak hourly flows.

A study of wet weather and dry weather wastewater flows within the Lacey wastewater system indicated that I&I is well controlled throughout the collection system, with the exception of the Sleater Kinney basin. This area consists of the City's oldest sewer infrastructure, which is showing signs of degradation and higher than normal I&I due to its age.

To analyze the capacity of the existing wastewater collection system and determine its ability to handle future flows at the LOS standard, a hydraulic analysis of the system was performed. The analysis projected wastewater flows resulting from current and anticipated population densities in the existing and future sewer service areas, and identified elements in the existing system that would require upgrading to avoid overloading the capacity of the system in the future. Sewer system "enhancement" projects listed in this CFP section are the result of the analysis.

Also determined were sizing specifications for the sewer lines and pump stations that will be constructed in the future service area as the system expands to serve development requirements. Sewer system "expansion" projects listed in this CFP section reflect these findings.

Together, the system enhancement and expansion projects listed in this capital facilities plan will assure a continuous level of capacity in the city's wastewater collection system that is consistent with the established level-of-service standard throughout the 20-year planning period.

Treatment Plant Capacity.

The LOTT Alliance provides treatment for the combined 3-city Urban Growth Areas of Lacey, Tumwater and Olympia. LOTT operates the Budd Inlet Treatment Plant (BITP) located in Olympia and the Martin Way Reclaimed Water Plant located in Lacey.

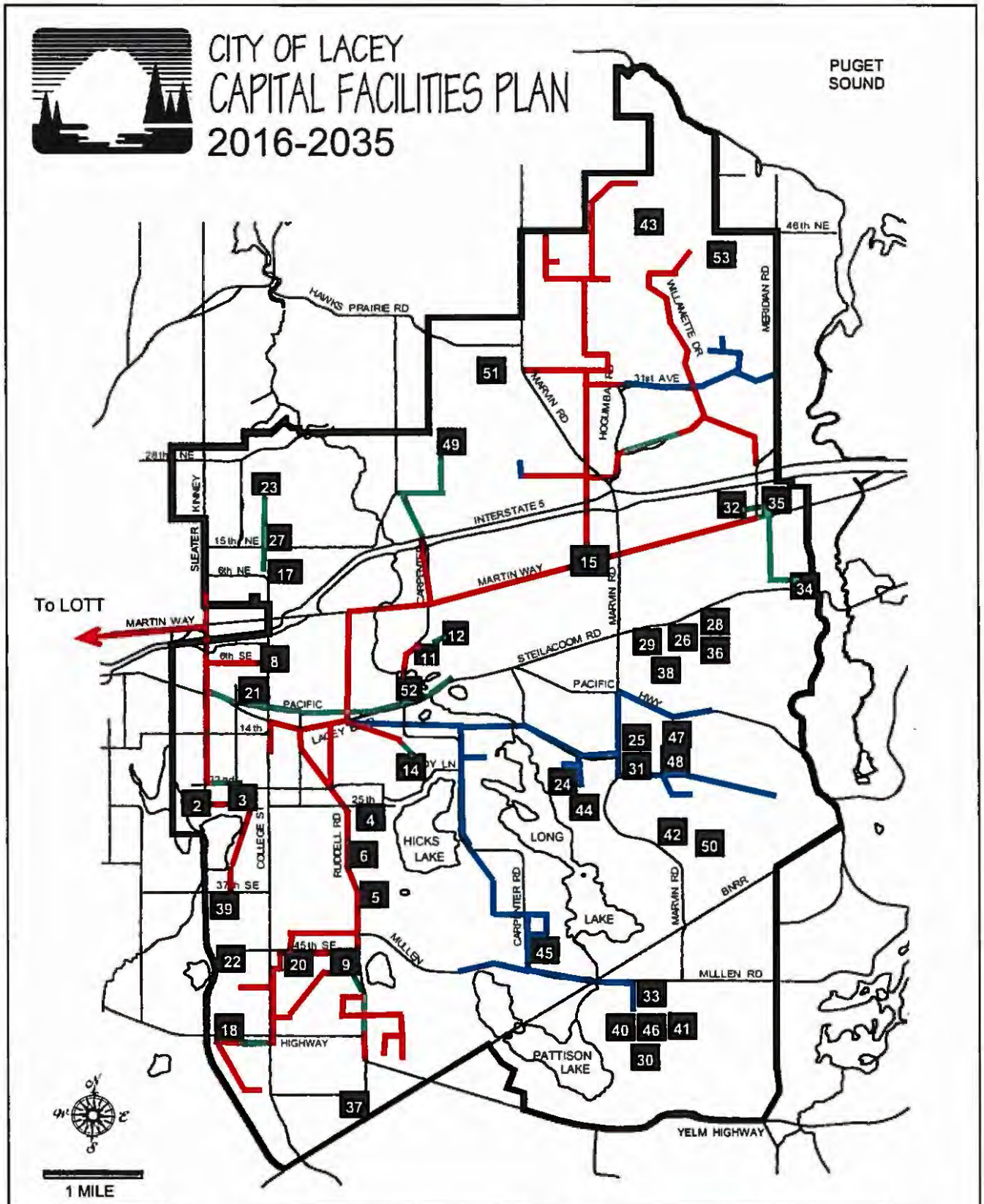
Roughly 75% of Lacey's wastewater flow passes through the Martin Way pump station which is then directed to either the Budd Inlet Treatment Plant (BITP) or the Martin Way Reclaimed Water Plant. The Martin Way Reclaimed Water Plant has a current capacity of 2.0 million gallons per day. Water at this plant is treated to Class A Reclaimed Water Standards and is made available to partner jurisdictions for non-potable uses.

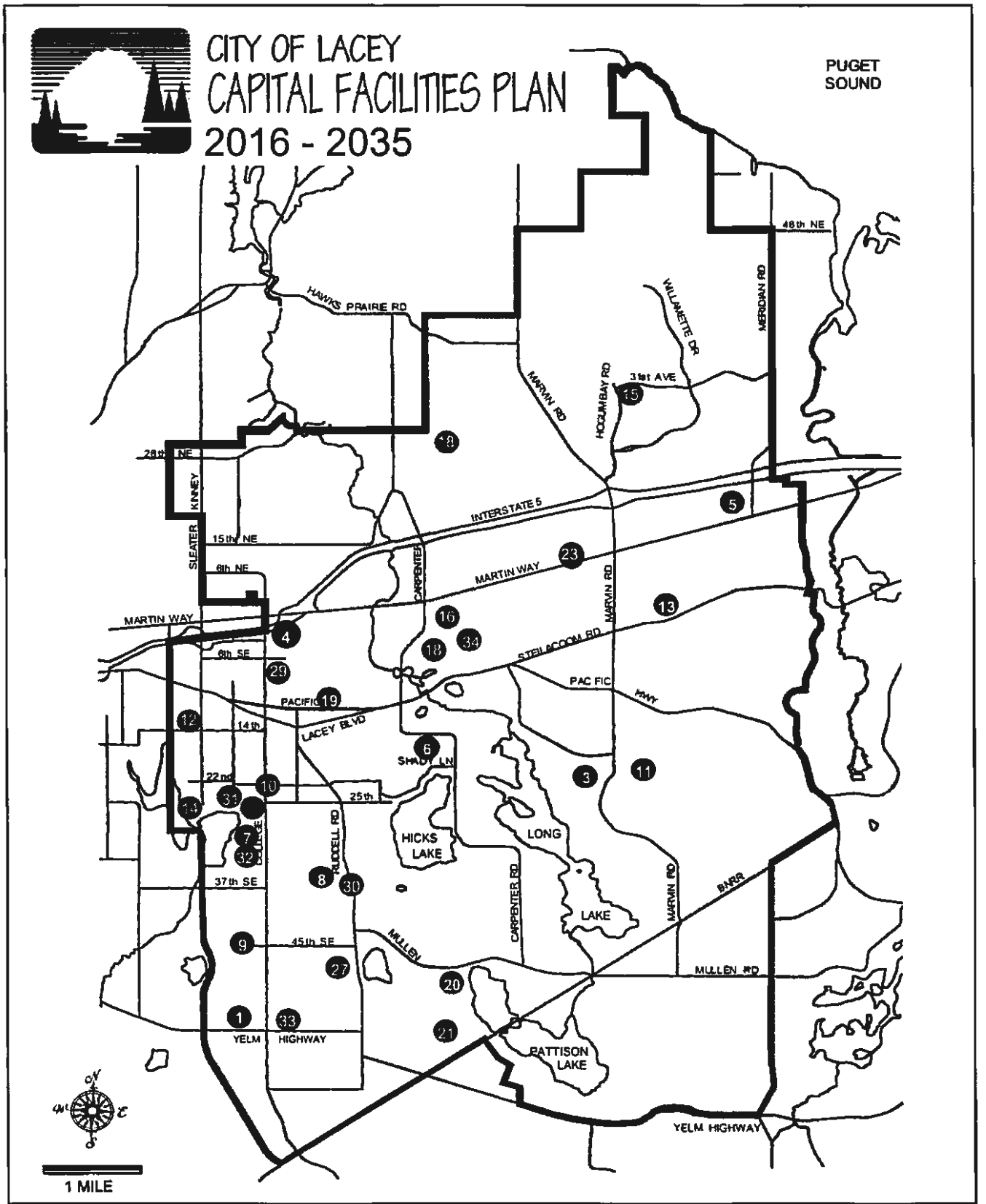
Six Year Financing Plan.

The 6-year financing plan is shown below in table 6.1.

	2016	2017	2018	2019	2020	2021	Total
Bonds	1,696,213						1,696,213
Utility Rates and Fees	177,274	53,560	55,702	582,930	553,784	125,315	1,548,565
GFC Revenue	5,672,910	6,214,420	1,759,762	3,586,907	431,386	1,272,211	18,937,596
TOTAL	$7,546,397	$6,267,980	$1,815,464	$4,169,837	$985,170	$1,397,526	$22,182,374

Table 6.1


CITY OF LACEY
CAPITAL FACILITIES PLAN
2016-2035
PUGET SOUND
HAWKS PRAIRE RD
46th NE
MERIDIAN RD
VILLANETTE DR
31st AVE
MARVIN RD
HOGUMBA RD
28th NE
KINNEY
SLEATER
15th NE
6th NE
INTERSTATE 5
MARTIN WAY
To LOTT
6th SE
STEILACOOM RD
PACIFIC
PACIFIC HWY
14th
LACEY
25th
COLLEGE ST
RUDDELL RD
HICKS LAKE
LONG LAKE
CARPENTER RD
37th SE
45th SE
MULLEN
MULLEN RD
BNRR
HIGHWAY
PATTISON LAKE
YELM HIGHWAY
1 MILE
Primary Wastewater System Inventory
Gravity Mains
Force Mains
S.T.E.P. Lines
Pump Stations
Lacey UGA



Wastewater Projects	Project Numbers ❶ Lacey UGA

CITY OF LACEY 2016-2035 CAPITAL FACILITIES PLAN
WASTEWATER PROJECTS SUMMARY SHEET

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING SOURCES										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	455,890	1,696,213						1,696,213	8%	
Utility Rates / Fees		177,274	53,560	55,702	582,930	553,784	125,315	1,548,565	7%	
GFC Revenue (see note)	2,968,333	5,672,910	6,214,420	1,759,762	3,586,907	431,386	1,272,211	18,937,596	85%	1,006,000
LID / ULID	503,154									
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL	3,927,377	7,546,397	6,267,980	1,815,464	4,169,837	985,170	1,397,526	22,182,374	100%	1,006,000
EXPENDITURES BY CATEGORY										
Planning										
Preliminary Design										
Design & Engineering	1,514,879	1,371,045	991,671	708,389	700,232	205,683	265,443	4,242,463	19%	566,000
Land / ROW Acquisition	8,895		128,544					128,544	1%	
Construction	2,377,571	6,175,353	5,147,765	1,107,075	3,469,605	779,487	1,132,083	17,811,368	80%	440,000
Other	26,031									
TOTAL	3,927,376	7,546,397	6,267,980	1,815,464	4,169,837	985,170	1,397,526	22,182,374	100%	1,006,000
EXPENDITURES BY PROJECT										
WW- 1 Upgrade Lift Station 18	697,425	295,457						295,457	1%	
WW- 2 Wastewater Comprehensive Plan	451,734									506,000
WW- 3 Liftstation 25 and 31 Upgrades	839,340	96,786						96,786	0%	
WW- 4 Martin & College Sewer ULID	503,154									
WW- 5 Tanglewilde East ULID	455,890	1,696,213						1,696,213	8%	
WW- 6 Carpenter Rd Air Releases/Manhole	26,393									
WW- 7 Lakeview Drive Sewer Upsizing	359,579						300,000	300,000	1%	
WW- 8 Brentwood Wastewater Repair	168	12,500						12,500	0%	
WW- 9 Avonlea Odor Control	78,002	101,979						101,979	0%	
WW- 10 College & 22nd Ave Sewer		135,000						135,000	1%	
WW- 11 STEP Main Air-Vacs	13,455									
WW- 12 Lift Station 3 Outfall	47,828	114,267	1,187,905					1,302,172	6%	
WW- 13 Steilacoom Regional Liftstation	390,889	3,210,474						3,210,474	14%	
WW- 14 LS-2 Forcemain/Westlake Gravity	63,520	447,721	2,165,000					2,632,721	12%	
WW- 15 Hogum Bay STEP Extension			400,000					400,000	2%	
WW- 16 Lift Station 12 Abandonment		50,000						50,000	0%	
WW- 17 Generator/Flow Meters			856,960					856,960	4%	
WW- 18 LS-49 Land Purchase			128,544					128,544	1%	
WW- 19 Train Depot - Wastewater			108,000					108,000	0%	
WW- 20 Mullen Road STEP Main		20,000	60,340	236,735	256,053			573,128	3%	
WW- 21 Rumac STEP		575,000	575,671					1,150,671	5%	
WW- 22 Annual Sewer Line Replacement			53,560	55,702	57,930	120,495	125,315	413,002	2%	
WW- 23 LS 15 Standby Power/Flowmeter		385,000						385,000	2%	
WW- 24 Lift Station Rehab Phase 1		426,000	712,000	712,000				1,850,000	8%	
WW- 25 Lift Station Rehab Phase 2				579,305	2,831,643			3,410,948	15%	
WW- 26 Lift Station/STEP Flow Meters				231,722	590,428	614,045		1,436,195	6%	500,000
WW- 27 Sewer Main Replacement					253,040			253,040	1%	
WW- 28 Chemical Storage Tank Replacement					180,743			180,743	1%	
WW- 29 LS-8 Generator/Flow Meter						250,630		250,630	1%	
WW- 30 Sewer Main Replacement							72,297	72,297	0%	
WW- 31 LS-3 Pump Capacity and Inlet Pipe							228,225	228,225	1%	
WW- 32 26th Loop Gravity Upsize							651,639	651,639	3%	
WW- 33 LS-37 Discharge Manhole							20,050	20,050	0%	
WW- 34 Lift Station 11 Abandonment										490,000
TOTAL	3,927,376	7,546,397	6,267,980	1,815,464	4,169,837	985,170	1,397,526	22,182,374	100%	1,496,000

Note: GFC Revenue line includes funds available in the capital account plus annual GFC revenue.

Planning Period:	2016-2035	File Number:	sew001.xls	CFP Project:	WW- 1
Project Title:	Upgrade Lift Station 18	UGA Planning Area:	Horizons	Department:	Public Works
Location:	Yelm Highway and Intelco	Sewer Plan Project:	7		

Project Description: Pump and electical upgrades for lift stations 18.

Project Justification: Higher head pumps are needed to overcome higher pressure in the mains. Replace existing pumps with a more modern design to improve solid handling capability, reliability, and ease of maintenance.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Construction | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2007	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees		177,274						177,274	60%	
GFC Revenue	697,425	118,183						118,183	40%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	697,425	295,457						295,457	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	218,042	26,897						26,897	9%	
Land / ROW Acquisition										
Construction	475,899	268,560						268,560	91%	
Other	3,484									
TOTAL EXPENDITURES	697,425	295,457						295,457	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew002.xls	CFP Project:	WW- 2
Project Title:	Wastewater Comprehensive Plan	UGA Planning Area:	All	Department:	Public Works
Location:	N/A	Sewer Plan Project:	1		

Project Description: Complete the Wastewater Comprehensive Plan in 2014.

Project Justification: Comprehensive Plans are required every eight years and allow for future planning to meet demand.

Policy Basis: Best Management Practices

Current Project Status: Completed

Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	451,734									506,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	451,734									506,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	451,734									506,000
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES	451,734									506,000

Notes:

Planning Period:	2016-2035	File Number:	sew003.xls	CFP Project:	WW- 3
Project Title:	Liftstation 25 and 31 Upgrades	UGA Planning Area:	Meadows	Department:	Public Works
Location:	Marvin Rd SE/15th Ave SE	Sewer Plan Project:	2		

Project Description: Pump and electrical upgrades for liftstation 25 and 31

Project Justification: Current pump size and electrical are not best for the demand. Current pump rates are not compatible with the existing STEP main. Replace pumps with more appropriate performance characteristics.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Construction | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	839,340	96,786						96,786	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	839,340	96,786						96,786	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	176,895	8,799						8,799	9%	
Land / ROW Acquisition										
Construction	660,583	87,988						87,988	91%	
Other	1,862									
TOTAL EXPENDITURES	839,340	96,786						96,786	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew004.xls	CFP Project:	WW- 4
Project Title:	Martin & College Sewer ULID	UGA Planning Area:	I Central	Department:	Public Works
Location:	Martin Way and College St	Sewer Plan Project:	5		

Project Description: Convert existing force main to gravity system and decommission liftstation

Project Justification: Properties are currently on City of Olympia system and need to connect to the City of Lacey system .

Policy Basis: Best Management Practices

Current Project Status: Complete

Land Status: Easement Needed

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID	503,154									
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	503,154									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	37,014									
Land / ROW Acquisition	6,000									
Construction	444,366									
Other	15,774									
TOTAL EXPENDITURES	503,154									

Notes:

Planning Period:	2016-2035	File Number:	sew005.xls	CFP Project:	WW- 5
Project Title:	Tanglewilde East ULID	UGA Planning Area:	Meadows	Department:	Public Works
Location:	Skokomish Way / Quinault Dr	Sewer Plan Project:	4		

Project Description: Connect Tanglewilde East Division 3 B to City of Lacey system and abandon their community on-site system.

Project Justification: Property owners have contacted the city to connect to the city system. Abandoning the drain field will improve ground water quality in the area.

Policy Basis: Utility Management Practices

Current Project Status: Construction

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds/ULID	455,890	1,696,213						1,696,213	100%	
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	455,890	1,696,213						1,696,213	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	84,031	154,201						154,201	9%	
Land / ROW Acquisition										
Construction	371,470	1,542,012						1,542,012	91%	
Other	389									
TOTAL EXPENDITURES	455,890	1,696,213						1,696,213	100%	

Notes: Expenditure listed as Other are the connection fees for the City and LOTT.

Planning Period:	2016-2035	File Number:	sew006.xls	CFP Project:	WW- 6
Project Title:	Carpenter Rd Air Releases/Manhole	UGA Planning Area:	Lakes	Department:	Public Works
Location:	Carpenter Road / Sierra Drive	Sewer Plan Project:	12		

Project Description: Install an air release valve and associated access structures on the Carpenter Road STEP main.

Project Justification: Air release valves reduce entraped air, reducing system pressures and improve operating efficiency.

Policy Basis: Utility Management Practices

Current Project Status: Complete

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	26,393									
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	26,393									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	4,456									
Land / ROW Acquisition										
Construction	21,936									
Other										
TOTAL EXPENDITURES	26,393									

Notes:

Planning Period:	2016-2035	File Number:	sew007.xls	CFP Project:	WW- 7
Project Title:	Lakeview Drive Sewer Upsizing.	UGA Planning Area:	Central	Department:	Public Works
Location:	Lakeview Drive	Sewer Plan Project:	8		

Project Description: Phase 1 in 2014, Phase 2 in 2021

Project Justification: The existing gravity main is currently operating at capacity and is under sized for future growth.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Complete | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	359,579						300,000	300,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	359,579						300,000	300,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	1,926						60,000	60,000	20%	
Land / ROW Acquisition										
Construction	357,653						240,000	240,000	80%	
Other										
TOTAL EXPENDITURES	359,579						300,000	300,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew008.xls	CFP Project:	WW- 8
Project Title:	Brentwood Wastewater Repair	UGA Planning Area:	Central	Department:	Public Works
Location:	Brentwood Drive	Sewer Plan Project:	N/A		

Project Description: Repair of the sewer line in Brentwood that has been damaged from expanding tree roots.

Project Justification: This repair work will be done in conjuntion with other water, storm, and street work that is planned.

Policy Basis: Best Management Practices

Current Project Status: Design

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	168	12,500						12,500	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	168	12,500						12,500	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	168	2,095						2,095	17%	
Land / ROW Acquisition										
Construction		10,405						10,405	83%	
Other										
TOTAL EXPENDITURES	168	12,500						12,500	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew009.xls	CFP Project:	WW- 9
Project Title:	Avonlea Odor Control	UGA Planning Area:	Central	Department:	Public Works
Location:	Avonlea	Sewer Plan Project:	10		

Project Description: Installation of an odor control facility.

Project Justification: This odor control facility will replace a previously failed facility at the location.

Policy Basis: Emergency repair/replace

Current Project Status: Construction

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	78,002	101,979						101,979	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	78,002	101,979						101,979	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	32,339	9,271						9,271	9%	
Land / ROW Acquisition										
Construction	45,664	92,708						92,708	91%	
Other										
TOTAL EXPENDITURES	78,002	101,979						101,979	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew010.xls	CFP Project:	WW- 10
Project Title:	College & 22nd Ave Sewer	UGA Planning Area:	Central	Department:	Public Works
Location:	College Street and 22nd Ave	Sewer Plan Project:	N/A		

Project Description: This project is to slipline 900 linear feet of deteeriorated concrete gravity swer line located within the project limits of the roundabout planned for this intersection.

Project Justification: To be completed with the roundabout project in the area to save expenses such as traffic control and reduce traffic impacts.

Policy Basis: 2014 Comprehensive Plan | Current Project Status: Design | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		135,000						135,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		135,000						135,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		17,610						17,610	13%	
Land / ROW Acquisition										
Construction		117,390						117,390	87%	
Other										
TOTAL EXPENDITURES		135,000						135,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew011.xls	CFP Project:	WW- 11
Project Title:	STEP Main Air-Vacs	UGA Planning Area:	Seasons	Department:	Public Works
Location:	Union Mills/Madrona Park	Sewer Plan Project:	6		

Project Description: Installtion of air relase valves along the Union Mills STEP. Project was eliminated in late 2015.

Project Justification: Air release valves will reduce entraped air, reducing system pressure and improving operating efficiency.

Policy Basis: 2014 Comprehensive Wastewater Plan

Current Project Status: Project Eliminated

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	13,455									
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	13,455									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	13,229									
Land / ROW Acquisition										
Construction										
Other	226									
TOTAL EXPENDITURES	13,455									

Notes:

Planning Period:	2016-2035	File Number	sew012.xls	CFP Project:	WW- 12
Project Title:	Lift Station 3 Outfall	UGA Planning Area:	Central	Department:	Public Works
Location:	Sleater Kinney Rd	Sewer Plan Project:	N/A		

Project Description: Upsize the existing gravity sewer system along Sleater Kinney Road. Phase 1 will replace the gravity main from 21st Avenue to 12th Avenue.

Project Justification: The exising gravity main in under sized and is unable to accomodate future peak flows.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Design | Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	47,828	114,267	1,187,905					1,302,172	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	47,828	114,267	1,187,905					1,302,172	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	47,828	114,267	99,195					213,462	16%	
Land / ROW Acquisition										
Construction			1,088,710					1,088,710	84%	
Other										
TOTAL EXPENDITURES	47,828	114,267	1,187,905					1,302,172	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew013.xls	CFP Project:	WW- 13
Project Title:	Steilacoom Regional Liftstation	UGA Planning Area:	Meadows	Department:	Public Works
Location:	Steilacoom Rd/Hawks Glen Dr	Sewer Plan Project:	3		

Project Description: Construct a new lift station along Steilacoom Rd to divert flow from the Union Mills STEP main to the Martin Way gravity system.

Project Justification: Diverting flow from the Union Mills STEP main will reduce pressure in the system and make additional capacity available in the southeast area. This project will also reduce maintenanc e efforts by eliminating five community STEP systems.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status:Design | Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	390,889	3,210,474						3,210,474	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	390,889	3,210,474						3,210,474	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	385,995	306,149						306,149	10%	
Land / ROW Acquisition	1,169									
Construction		2,904,325						2,904,325	90%	
Other	3,725									
TOTAL EXPENDITURES	390,889	3,210,474						3,210,474	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew014.xls	CFP Project:	WW- 14
Project Title:	LS-2 Forcemain/Westlake Gravity	UGA Planning Area:	Central	Department:	Public Works
Location:	Westlake	Sewer Plan Project:	13		

Project Description: Replace the existing gravity sewer main in Westlake drive and re-route the force main from lift station 2. This lift station will be re-located and rebuilt.

Project Justification: The existing gravity main in Westlake Drive currently suffers from excessive I & I and needs to be replaced. The existing forcemain is located under an existing house and need to be re-routed to improve maintenance and access to the reduce the cities liability.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Design | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	63,520	447,721	2,185,000					2,632,721	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	63,520	447,721	2,185,000					2,632,721	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	61,222	74,621	385,000					459,621	17%	
Land / ROW Acquisition	1,726									
Construction		373,100	1,800,000					2,173,100	83%	
Other	572									
TOTAL EXPENDITURES	63,520	447,721	2,185,000					2,632,721	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew015.xls	CFP Project:	WW- 15
Project Title:	Hogum Bay STEP Extension	UGA Planning Area:		Department:	Public Works
Location:	Hogum Bay Rd	Sewer Plan Project:	N/A		

Project Description: This project will extend a portion of the existing STEP main at the intersection of Hogum Bay and 31st Avenue.

Project Justification: This project will reduce odoer and corrosion potential at the outfall manhole.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2015	2016	2017	2018	2019	2020	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue			400,000					400,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING			400,000					400,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			69,500					69,500	17%	
Land / ROW Acquisition										
Construction			330,500					330,500	83%	
Other										
TOTAL EXPENDITURES			400,000					400,000	100%	

Planning Period:	2016-2035	File Number:	sew016.xls	CFP Project:	WW- 16
Project Title:	Lift Station 12 Abandonment	UGA Planning Area:	Central	Department:	Public Works
Location:		Sewer Plan Project:	21		

Project Description: This project will extend gravity sewer from the existing LS-12 to Carpenter Road, allowing wastewater from the LS-12 basin to be diverted and LS-12 to be abandoned.

Project Justification: This project will allow wastewater from the LS-12 basin to be diverted without the need for this liftstation.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		50,000						50,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		50,000						50,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		6,900						6,900	14%	
Land / ROW Acquisition										
Construction		43,100						43,100	86%	
Other										
TOTAL EXPENDITURES		50,000						50,000	100%	

Planning Period:	2016-2035	File Number:	sew017.xls	CFP Project:	WW- 17
Project Title:	Generator/Flow Meters	UGA Planning Area:	Various	Department:	Public Works
Location:	Lift Stations 17,20,23,23	Sewer Plan Project:	23-24		

Project Description: Install back up generators and flow monitoring equipment.

Project Justification: Back up generators will help to ensure that pump stations continue to operate during power outages and will help protect public and private property.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue			856,960					856,960	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING			856,960					856,960	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			176,835					176,835	21%	
Land / ROW Acquisition										
Construction			680,125					680,125	79%	
Other										
TOTAL EXPENDITURES			856,960					856,960	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew018.xls	CFP Project:	WW- 18
Project Title:	LS-49 Land Purchase	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Shady Glen Ct NE	Sewer Plan Project:	20		

Project Description: Acquire additional property adjacent to liftstation 49.

Project Justification: The additional land will provide a buffer between a future residential development and the city's existing lift station in anticipation of noise and odor compalints. It will also provide additional maintenance access.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue			128,544					128,544	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING			128,544					128,544	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition			128,544					128,544	100%	
Construction										
Other										
TOTAL EXPENDITURES			128,544					128,544	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew019.xls	CFP Project:	WW- 19
Project Title:	Train Depot - Wastewater	UGA Planning Area:	Central	Department:	Public Works
Location:	Lebanon St Extension	Sewer Plan Project:	11		

Project Description: Install sewer infrastructure to accomodate the future Train Depot and Museum.

Project Justification: Plans call for Lebanon Street to be extended to Pacific Avenue. Prior to the roadwork, the utility infrastructure needs to be built.

Policy Basis: Best Management Practices

Current Project Status: Planning

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue			108,000					108,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING			108,000					108,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			18,000					18,000	17%	
Land / ROW Acquisition										
Construction			90,000					90,000	83%	
Other										
TOTAL EXPENDITURES			108,000					108,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew020.xls	CFP Project:	WW- 20
Project Title:	Mullen Road STEP Main	UGA Planning Area:	Lakes	Department:	Public Works
Location:	Mullen Road / Rumac	Sewer Plan Project:	15		

Project Description: Installation of new STEP main in Mullen Road.

Project Justification: This project will install a missing section of STEP main along Mullen Rd and will allow flow to be diverted from the Carpenter Rd system to the Ruddell Rd system, reducing pressures and improving operation.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		20,000	60,340	236,735	256,053			573,128	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		20,000	60,340	236,735	256,053			573,128	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		20,000	60,340	17,200	17,338			114,878	20%	
Land / ROW Acquisition										
Construction				219,535	238,715			458,250	80%	
Other										
TOTAL EXPENDITURES		20,000	60,340	236,735	256,053			573,128	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew021.xls	CFP Project:	WW- 21
Project Title:	Rumac STEP	UGA Planning Area:	Lakes	Department:	Public Works
Location:	Rumac Street	Sewer Plan Project:	14		

Project Description: Installation of STEP main in Rumac St to re-route flow from Lakepointe to Mullen Road.

Project Justification: This project will eliminate / consolidate odor to control facilities..

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Design | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		575,000	575,671					1,150,671	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING			575,671					1,150,671	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		157,235	123,811					281,046	24%	
Land / ROW Acquisition										
Construction		417,765	451,860					869,625	76%	
Other										
TOTAL EXPENDITURES		575,000	575,671					1,150,671	100%	

Notes: Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes.

Planning Period:	2016-2035	File Number:	sew022.xls	CFP Project:	WW- 22
Project Title:	Annual Sewer Line Replacement	UGA Planning Area:	All	Department:	Public Works
Location:	Varies	Sewer Plan Project:	N/A		

Project Description: This project will repair or replace small segments of sewer line as problem areas are found through the City's CCTV inspection program

Project Justification: Specific sewer lines will be identified and prioritized annually.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees			53,560	55,702	57,930	120,495	125,315	413,002	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING			53,560	55,702	57,930	120,495	125,315	413,002	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			6,990	6,412	8,640	13,863	14,417	50,322	12%	
Land / ROW Acquisition										
Construction			46,570	49,290	49,290	106,632	110,898	362,680	88%	
Other										
TOTAL EXPENDITURES			53,560	55,702	57,930	120,495	125,315	413,002	100%	

Planning Period:	2016-2035	File Number:	sew023.xls	CFP Project:	WW- 23
Project Title:	LS 15 Standby Power/Flowmeter	UGA Planning Area:	Tanglewilde	Department:	Public Works
Location:	Martin Way / Galaxy Drive	Sewer Plan Project:	9		

Project Description: Install back up generator and flow monitoring equipment.

Project Justification: A back up generator will help to ensure continued pump operation during power outages and protect customers from potential sewer backups.

Policy Basis: 2014 Comprehensive Wastewater Plan

Current Project Status: Predesign

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		365,000						365,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		365,000						365,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		47,000						47,000	13%	
Land / ROW Acquisition										
Construction		318,000						318,000	87%	
Other										
TOTAL EXPENDITURES		365,000						365,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew024.xls	CFP Project:	WW- 24
Project Title:	Lift Station Rehab Phase 1	UGA Planning Area:	Various	Department:	Public Works
Location:	Various Lift Stations	Sewer Plan Project:	23		

Project Description: Replace electrical and mechanical equipment at Lift Stations #02, 15, and 17.

Project Justification: The electrical and mechanical equipment in Lift Stations #02, 15 and 17 will reach the end of their useful life with in the next 20 years.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		426,000	712,000	712,000				1,850,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		426,000	712,000	712,000				1,850,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		426,000	52,000	52,000				530,000	29%	
Land / ROW Acquisition										
Construction			660,000	660,000				1,320,000	71%	
Other										
TOTAL EXPENDITURES		426,000	712,000	712,000				1,850,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew025.xls	CFP Project:	WW- 25
Project Title:	Lift Station Rehab Phase 2	UGA Planning Area:	Various	Department:	Public Works
Location:	Various	Sewer Plan Project:	24		

Project Description: Replace electrical and mechanical equipment at lift stations 19, 20, and 21.

Project Justification: Electrical and mechanical equipment at lift stations 19. 20, and 21 are approaching the end of their useful life and should be replaced.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees					525,000			525,000	15%	
GFC Revenue				579,305	2,306,643			2,885,948	85%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING				579,305	2,831,643			3,410,948	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				579,305	456,028			1,035,333	30%	
Land / ROW Acquisition										
Construction					2,375,615			2,375,615	70%	
Other										
TOTAL EXPENDITURES				579,305	2,831,643			3,410,948	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew026.xls	CFP Project:	WW- 26
Project Title:	Lift Station/STEP Flow Meters	UGA Planning Area:	Various	Department:	Public Works
Location:	Various	Sewer Plan Project:	25		

Project Description: Install flow and pressure monitoring equipment at various lift stations and STEP main locations.

Project Justification: Flow and pressure monitoring allows Engineering and Operations staff to monitor a facility's performance and to troubleshoot problems. Data collected aids in facility planning and design.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees						433,289		433,289	30%	
GFC Revenue				231,722	590,428	180,756		1,002,906	70%	500,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING				231,722	590,428	614,045		1,436,195	100%	500,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				53,472	136,253	141,695		331,420	23%	60,000
Land / ROW Acquisition										
Construction				178,250	454,175	472,350		1,104,775	77%	440,000
Other										
TOTAL EXPENDITURES				231,722	590,428	614,045		1,436,195	100%	500,000

Notes: Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes.

Planning Period:	2016-2035	File Number:	sew027.xls	CFP Project:	WW- 27
Project Title:	Sewer Main Replacement	UGA Planning Area:	Horizons	Department:	Public Works
Location:	50th Avenue / Cottage Ln SE	Sewer Plan Project:	N/A		

Project Description: Replace approximately 350 feet of gravity sewer main.

Project Justification: The existing sewer main was laid with a slightly reverse slope.

Policy Basis: 2014 Comprehensive Wastewater Plan

Current Project Status: Planning

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue					253,040			253,040	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING					253,040			253,040	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					50,610			50,610	20%	
Land / ROW Acquisition										
Construction					202,430			202,430	80%	
Other										
TOTAL EXPENDITURES					253,040			253,040	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew028.xls	CFP Project:	WW- 28
Project Title:	Chemical Storage Tank Replacement	UGA Planning Area:	Various	Department:	Public Works
Location:	Various odor control facilities	Sewer Plan Project:	N/A		

Project Description: Replace existing single wall chemical storage tanks with double wall storage tanks.

Project Justification: Single wall storage tanks are sub-standard for storing odor control chemicals unless secondary containment is provided.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue					180,743			180,743	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING					180,743			180,743	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					31,363			31,363	17%	
Land / ROW Acquisition										
Construction					149,380			149,380	83%	
Other										
TOTAL EXPENDITURES					180,743			180,743	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew029.xls	CFP Project:	WW- 29
Project Title:	LS-8 Generator/Flow Meter	UGA Planning Area:	Central	Department:	Public Works
Location:	College St SE / 6th Ave SE	Sewer Plan Project:	103		

Project Description: Install back up generator or connect to the City Hall generator and install flow monitoring equipment.

Project Justification: A back up generator will allow the lift sation to continue opeating during power outages.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue						250,630		250,630	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING						250,630		250,630	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering						50,125		50,125	20%	
Land / ROW Acquisition										
Construction						200,505		200,505	80%	
Other										
TOTAL EXPENDITURES						250,630		250,630	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew030.xls	CFP Project:	WW- 30
Project Title:	Sewer Main Replacement	UGA Planning Area:	Central	Department:	Public Works
Location:	34th Avenue	Sewer Plan Project:	28		

Project Description: Replace existing 6-inch diameter sewer main.

Project Justification: The existing sewer main is to small and does not meet minimum standards.

Policy Basis: 2014 Comprehensive Wastewater Plan

Current Project Status: Planning

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue							72,297	72,297	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING							72,297	72,297	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering							12,052	12,052	17%	
Land / ROW Acquisition										
Construction							60,245	60,245	83%	
Other										
TOTAL EXPENDITURES							72,297	72,297	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew031.xls	CFP Project:	WW- 31
Project Title:	LS-3 Pump Capacity and Inlet Pipe	UGA Planning Area:	Central	Department:	Public Works
Location:	Golf Club / 26th Ave SE	Sewer Plan Project:	102		

Project Description: Increase pump and inlet pipe capacity.

Project Justification: Future flows are forecasted to exceed current capacity.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue							228,225	228,225	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING							228,225	228,225	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering							45,645	45,645	20%	
Land / ROW Acquisition										
Construction							182,580	182,580	80%	
Other										
TOTAL EXPENDITURES							228,225	228,225	100%	

Notes:

Planning Period:	2016-2035	File Number:	sew032.xls	CFP Project:	WW- 32
Project Title:	26th Loop Gravity Upsize	UGA Planning Area:	Central	Department:	Public Works
Location:	26th Loop	Sewer Plan Project:	101		

Project Description: Up-size approximately 1,200 feet of gravity main.

Project Justification: Future flows are forecasted to exceed current capacity.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue							651,639	651,639	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING							651,639	651,639	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering							130,329	130,329	20%	
Land / ROW Acquisition										
Construction							521,310	521,310	80%	
Other										
TOTAL EXPENDITURES							651,639	651,639	100%	

Planning Period:	2016-2035	File Number:	sew033.xls	CFP Project:	WW- 33
Project Title:	LS-37 Discharge Manhole	UGA Planning Area:	Central	Department:	Public Works
Location:	College St and Yelm Hwy	Sewer Plan Project:	104		

Project Description: The existing manhole near College Street and Yelm Highway that receives flows from LS-37 experiences minor surcharging during pump cycles and needs to be replaced.

Project Justification: The project will replace the existing structure with a larger manhole that is better able to accomodate anticipated flows.

Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue							20,050	20,050	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING							20,050	20,050	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering							3,000	3,000	15%	
Land / ROW Acquisition										
Construction							17,050	17,050	85%	
Other										
TOTAL EXPENDITURES							20,050	20,050	100%	

Planning Period:	2016-2035	File Number:	sew034.xls	CFP Project:	WW- 34
Project Title:	Lift Station 11 Abondonment	UGA Planning Area:	Tanglewilde	Department:	Public Works
Location:	5th Way SE / Carpenter Rd	Sewer Plan Project:	105		

Project Description: Decommission lift station 11 and replace it with individual grinder pump units.

Project Justification: Lift station 11 seves very few customers and could be replaced with individual grinder pump units which would have lower operation and maintenance costs.

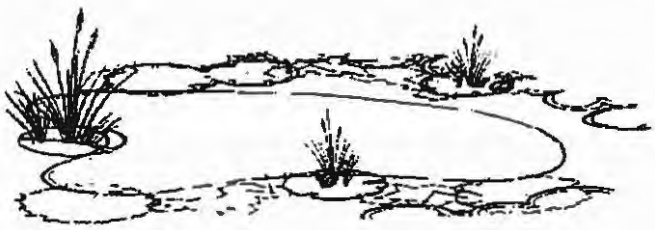
Policy Basis: 2014 Comprehensive Wastewater Plan | Current Project Status: Planning | Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										490,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING										490,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										100,000
Land / ROW Acquisition										
Construction										390,000
Other										
TOTAL EXPENDITURES										490,000

Notes:

Storm Drainage



Background

An expanding population and increased land development have increased stormwater runoff problems. During this same time, federal, state and local governments have become increasingly aware of the need for improved management of stormwater runoff to protect water resources. Emerging and evolving federal and state regulations are requiring cities and counties to develop and implement stormwater management programs to mitigate existing water quality impacts and to lessen impacts from future development.

Stormwater runoff is the leading contributor to water pollution of urban waterways in Washington. It is a widespread, non-point source pollution. Non-point source pollutants include pathogens (such as bacteria and viruses), sediments (soil particles), nutrients (such as nitrogen and phosphorous), metallic elements (such as copper, lead and zinc) and toxicants (such as pesticides and petroleum products). Most pollutants originate on the land where they are picked up by rainwater and carried into surface waters. Urban land uses, as opposed to rural land uses, have much more impervious area which produces higher runoff volumes. In developed areas certain pollutants are more prevalent than in undeveloped areas. In addition to creating water quality problems, poorly managed stormwater can lead to flooding and erosion. Erosion from stormwater can cut away stream banks, degrade fish and wildlife habitat and cause considerable damage to property.

Increasing awareness of these problems lead the state Legislature to create the Puget Sound Water Quality Action Team (PSWQAT) in 1985. The PWSQAT was charged with preparing a comprehensive management plan for Puget sound and its related waterways. The Puget Sound Action Team published the "State of the Sound 2007" report and the "2007-2009 Puget Sound Conservation and Recovery Plan", both of which address stormwater as a key contributor to Puget Sound water quality problems. In more recent years, the Puget Sound Partnership has promoted Low Impact Development (LID) and the 2020 Action Agenda, a strategy for restoring the health of Puget Sound.

Consistent with the Growth Management Act, each local jurisdiction is required to cooperate with neighboring jurisdictions in stormwater basin or watershed planning. Jurisdictions sharing common watersheds must cooperate in analyzing the effects and control of stormwater runoff and adopt coordinated programs for stormwater management. Lacey has completed two comprehensive basin planning efforts, one for the Woodland and Woodard Creeks basins and another for the Chambers Creek basin. These basin plans together with the Chambers Lake Stormwater Management Plan and numerous stormwater outfall engineering reports formed the basis for the stormwater capital facilities projects listed in the 2007-2026 Capital Facilities Plan. In 2013, the first-ever Stormwater Comprehensive Plan (SCP) was completed, to provide guidance for Lacey's Storm and Surface Water Utility. The SCP includes an updated Capital Improvement Program (CIP), listing a variety

of projects to address water quality and flooding issues.

Lacey's Stormwater Management Program (SWMP) was established to prevent stormwater runoff problems through planning, regional coordination, public education and involvement, regulation of new development, improved operations and maintenance, and construction of stormwater treatment and control facilities. Since 2007, the National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Stormwater Permit has required Lacey to refine our SWMP and comply with specific program requirements on a specific schedule, for the purpose of controlling stormwater discharges to protect surface and ground waters. The proposed capital facilities will allow Lacey to correct water quality/quantity problems associated with existing stormwater discharges to local surface water bodies and to comply with regulatory requirements at the local, state and federal levels.

Overall Stormwater Management Program Goals

The objective of the City's overall Stormwater Management Program is to meet the following three goals:

1) Protect and enhance the quality and quantity of surface and groundwater resources to support beneficial use by humans, aquatic life, and wildlife.

2) Manage the storm drainage system to protect public safety and minimize property damage caused by flooding and erosion.

3) Provide adequate funding for the Stormwater Management Program through an equitable stormwater utility rate structure.

General Stormwater Management Program Policies

1) Continue to develop and implement a comprehensive stormwater management program consistent with requirements of the federal Clean Water Act, the NPDES Phase II Permit issued by the Washington State Department of Ecology, the state Growth Management Act, and the Puget Sound Action Agenda.

2) Improve public knowledge of stormwater runoff issues, encourage public involvement in stewardship activities, and encourage public support for the City's stormwater management program.

3) Ensure that new development, redevelopment, and City projects are in conformance with the City's adopted stormwater requirements.

4) Analyze proposed new development and redevelopment for potential impacts on the downstream storm drainage system and water quality as part of the stormwater plan review process.

5) Coordinate with other departments throughout the stormwater plan review, permitting, and project approval process to ensure that the process results in a functional stormwater system.

6) Construct new or improved stormwater facilities in accordance with the current CIP plan.

7) Review the CIP list annually to identify new projects, remove completed projects, refine planned projects, and reevaluate project prioritization.

8) Participate in the development and implementation of regional water quality management

plans, groundwater management plans, stormwater management plans, lake management plans, drainage basin plans, watershed action plans, and wellhead protection plans to ensure that Lacey's water resources are protected.

9) Continue to work cooperatively with other local governments through joint basin planning in shared drainage basins to provide regionally coordinated planning, construction, and maintenance for regional stormwater facilities.

10) Oversee construction and maintenance of privately owned stormwater facilities to ensure that they function as designed to protect private property, public property, and the environment.

11) Proactively maintain, repair, rehabilitate, and replace aging City stormwater facilities and minimize the need for costly and disruptive emergency repairs.

12) Revise the Stormwater Comprehensive Plan every 6 years, or sooner if needed, to ensure that it provides for effective long-term stormwater project planning, system maintenance, response to mandates, and program funding.

Level-of-Service Analysis

The level-of-service standards for Lacey's municipal storm drainage system are the same as those applied to private development projects for water quality treatment, flow control, and erosion and sediment control. Design criteria for stormwater facilities in Lacey's drainage manual applies to both public and private development projects. Since the early 1990s, Lacey has followed state standards in striving to achieve "zero direct discharge of untreated stormwater into surface waters for all storm events of less than or equal to a 6-month, 24-hour storm." This water quality design storm was the minimum size needed to provide treatment of all runoff except that from relatively rare large storms. Under Lacey's 1994 Drainage Design and Erosion Control Manual, stormwater treatment facilities have specific design criteria that, when met, are presumed to achieve the water quality performance goal. For flow control, treated stormwater is infiltrated within the project site to the maximum extent feasible. These basic goals continue under more recent standards, although the standards and design criteria for stormwater management have become more stringent.

Lacey created and adopted the 2010 Stormwater Design Manual to replace the 1994 Drainage Design and Erosion Control Manual and to be technically equivalent to Ecology's 2005 Stormwater Management Manual for Western Washington, which provided the latest state guidance to counter the adverse impacts from stormwater. Among the changes, the treatment standard was revised to the 91st percentile runoff volume calculated by continuous-simulation modeling, which considers the long-term pattern of local rainfall rather than single "24-hour storm" events. Development projects initiated since 2010 in Lacey, both private and public, must meet the newer standards and design criteria of the 2010 Stormwater Design Manual for water quality treatment, flow control, construction-site erosion and sediment control, on-site infiltration, source control of pollutants, facilities maintenance, and other considerations.

Under the requirements of the 2013-2018 NPDES Phase II Municipal Stormwater Permit, Lacey's 2010 Stormwater Design Manual must be updated to be technically equivalent to Ecology's 2012 Stormwater Management Manual for Western Washington. Also, all of our other development-related codes, standards and regulations will need to be updated to fully integrate "low impact development" (LID) principles and practices as the "preferred and commonly-used approach" to all types of land-development projects. The code

revisions must be completed and made effective by December 31, 2016.

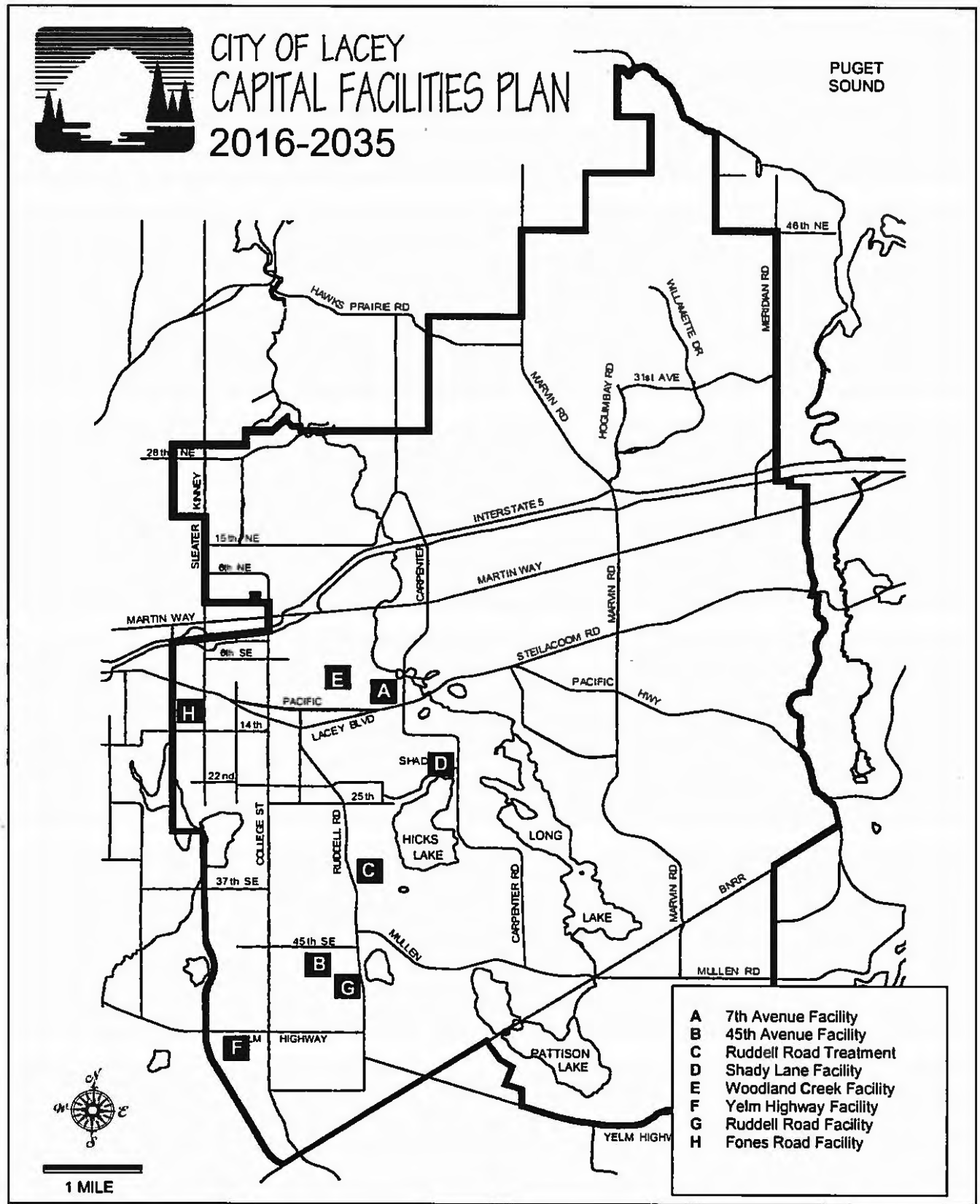
Lacey is taking significant steps toward meeting its stormwater management program goals, through both physical and programmatic improvements. Capital projects are obvious solutions to specific water quality and quantity issues, but non-capital solutions such as updated regulations, operation and maintenance practices, and public education efforts are also necessary components of an effective Stormwater Management Program. Lacey will continue to pursue both capital and non-capital measures simultaneously to correct drainage-related problems and effectively manage stormwater in its watersheds.

6-Year Financing Plan

The 6-year Financing Plan is shown in the table below. The pages following this summary will show information on each specific project that has been identified.

	2015	2016	2017	2018	2019	2019	Total
General Revenue							
Revenue Bonds	33,232			192,231	637,070	470,699	1,333,232
Grants	325,452						325,452
Stormwater Capital	885,315	267,732	726,998	457,412	346,658		2,684,115
TOTAL	$1,243,999	$267,732	$726,998	$649,643	$983,728	$470,699	$4,342,799

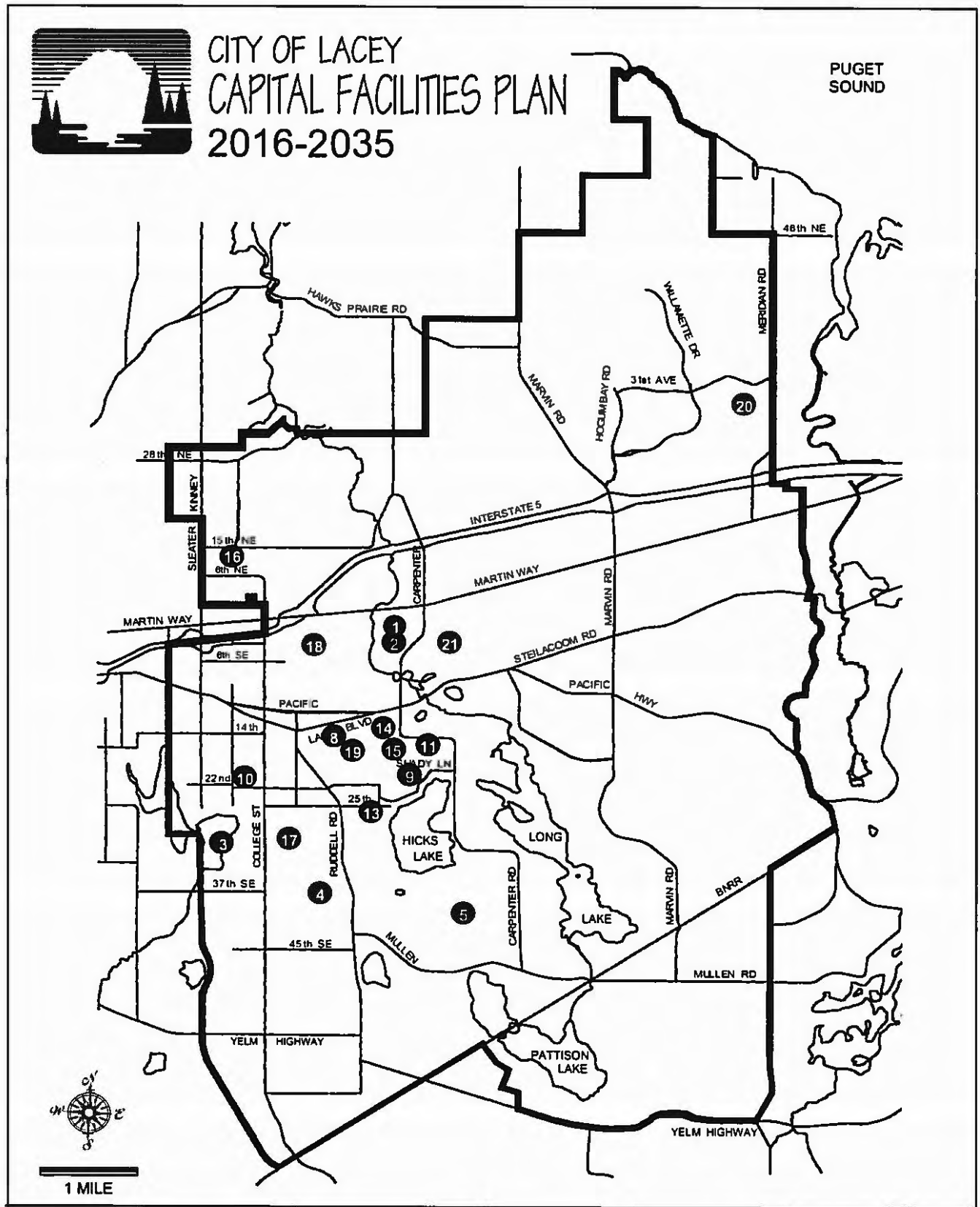
Table 7.1



Regional Stormwater Facilities Inventory

Regional Facilites A

Lacey UGA Boundary



Stormwater Facility Projects

Project Numbers 1

Lacey UGA Boundary

CITY OF LACEY 2016-2035 CAPITAL FACILITIES PLAN
STORM DRAINAGE PROJECTS SUMMARY SHEET

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING SOURCES										
General Revenue	106,276									
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	1,249,016	33,232			192,231	637,070	470,699	1,333,232	31%	4,900,000
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants	1,266,821	325,452						325,452	7%	
SEPA / LTA										
Developer Financing										
Stormwater Capital	282,064	885,315	267,732	726,998	457,412	346,658		2,684,115	62%	2,226,468
TOTAL	2,904,177	1,243,999	267,732	726,998	649,643	983,728	470,699	4,342,799	100%	7,126,468
EXPENDITURES BY CATEGORY										
Planning										
Preliminary Design										
Design & Engineering	1,088,754	382,449	163,118	167,270	326,013	385,241	124,001	1,548,092	36%	888,962
Land / ROW Acquisition										
Construction	1,797,294	861,550	104,614	559,728	323,630	598,487	346,698	2,794,707	64%	6,237,506
Other	18,129									
TOTAL	2,904,178	1,243,999	267,732	726,998	649,643	983,728	470,699	4,342,799	100%	7,126,468
EXPENDITURES BY PROJECT										
SW 1 Vactor Decant Facility	176,363	571,616						571,616	13%	
SW 2 Police Impound Facility	115,902									
SW 3 Chambers Lake Stormwater Facility	2,484,567	33,232						33,232	1%	
SW 4 Brentwood Stormwater Installation	46,676	390,000						390,000	9%	
SW 5 Hicks Lake to Pattison Conveyance			117,000	559,728				676,728	16%	
SW 6 Stormwater Design Manual Update	38,164	160,734						160,734	4%	
SW 7 Code Revisions for LID	36228.54	88,417						88,417	2%	
SW 8 Lacey Boulevard Pipe Replacement	6,276									
SW 9 Shady Lane Treatment Facility			150,732					150,732	3%	
SW 10 22nd Avenue SE System Rehabilitation				39,755	120,448			160,203	4%	
SW 11 Diamond Stormwater Alternative				115,816	251,798			367,614	8%	
SW 12 Stormwater Comprehensive Plan				11,699	85,166	88,572		185,437	4%	
SW 13 25th Loop Storm Improvements					103,415	302,407		405,822	9%	
SW 14 Clearbrook Drainage Improvements					88,816	385,918		474,734	11%	
SW 15 Homann Area System Rehabilitation						189,798	316,330	506,128	12%	
SW 16 1010 Midway Storm Improvements						17,033	30,368	47,401	1%	
SW 17 Belair / Impala Stormwater Installation							124,001	124,001	3%	514,529
SW 18 College Regional Stormwater Facility										5,721,344
SW 19 Alder and Gemini Drainage System										631,552
SW 20 White Fir Stormwater Installation										223,517
SW 21 5th Ct SE and 5th Way Improvements										35,526
TOTAL	2,904,178	1,243,999	267,732	726,998	649,643	983,728	470,699	4,342,799	100%	7,126,468

Planning Period:	2016-2035	File Number:	sw001.xls	CFP Project:	SW - 1
Project Title:	Vactor Decant Facility	UGA Planning Area:	Tanglewilde	Department:	Public Works
Location:	Martin Way & College Street				

Project Description: Construction of a sloped concrete pad with roof structure, drainage system, storage tanks and piping.

Project Justification: This project will enhance the function of current operations by improving pollutant and debris removal.

Policy Basis: Stormwater Comp Plan **Current Project Status:** Construction **Land Status:** City Property

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants [1]	31,270	325,452						325,452	57%	
SEPA / LTA										
Developer Financing										
Stormwater Capital	145,093	246,164						246,164	43%	
TOTAL FUNDING	176,363	571,616						571,616	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	158,558	96,616						96,616	17%	
Land / ROW Acquisition										
Construction	15,123	475,000						475,000	83%	
Other	2,683									
TOTAL EXPENDITURES	176,363	571,616						571,616	100%	

Notes: 1. Ecology FY 2012 Statewide Stormwater Grant Program - Proviso

Planning Period:	2016-2035	File Number:	sw002.xls	CFP Project:	SW - 2
Project Title:	Police Impound Facility	UGA Planning Area:	Tanglewilde	Department:	Public Works
Location:	Martin Way & College Street				

Project Description: Relocate the Police Impound Facility from it's current location due to siting of the Vactor Waste Facility. The Impound facility will be larger in size and include a fully enclosed building.

Project Justification: The site for the Vactor Waste Facility is located at the present site of the small inpound facility necessitating the need to relocate the facility.

Policy Basis: Best Management Practices | **Current Project Status:** Completed | **Land Status:** City Property

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	100,000									
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants [1]										
SEPA / LTA										
Developer Financing										
Stormwater Capital	15,902									
TOTAL FUNDING	115,902									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	4,192									
Land / ROW Acquisition										
Construction	111,709									
Other										
TOTAL EXPENDITURES	115,902									

Planning Period:	2016-2035	File Number:	sw003.xls	CFP Project:	SW - 3
Project Title:	Chambers Lake Stormwater Facility	UGA Planning Area:	Central	Department:	Public Works
Location:	Chambers Lake				

Project Description: Construct a treatment wetland that is integrated into the Chambers Lake Natural Area to remove up to 61% of total suspended solids and 92% of total phosphorus from the stormwater outfall and may be conducted in coordination with a future road projects a future sewer upgrade.

Project Justification: IChambers Lake has been classified as a eutrophic and this is the largest untreated stormwater outfall to Chambers Lake.

Policy Basis: Stormwater Comp Plan | Current Project Status: Construction | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	1,249,016	33,232						33,232	100%	
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants	1,235,551									
SEPA / LTA										
Developer Financing										
Stormwater Capital										
TOTAL FUNDING	2,484,567	33,232						33,232	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	804,934	3,232						3,232	10%	
Land / ROW Acquisition										
Construction	1,664,186	30,000						30,000	90%	
Other	15,447									
TOTAL EXPENDITURES	2,484,567	33,232						33,232	100%	

Notes: Grant Funding by Washington State Department of Ecology FY2012 Supplemental Statewide Stormwater Grant

Planning Period:	2016-2035	File Number:	sw004.xls	CFP Project:	SW - 4
Project Title:	Brentwood Stormwater Installation	UGA Planning Area:	Horizons	Department:	Public Works
Location:	Brentwood Drive				

Project Description: Install storm drain along Brentwood Drive SE to convey stormwater to Ruddell Road Stormwater Facility

Project Justification: Lack of drainage infrastructure in this area is causing nuisance flooding. All stormwater runoff flow s overland towards Ruddell Rd SE causing chronic flooding on residential streets and in some driveways. Flooding is most significant at the downstream end of the neighborhood. Drainage infrastructure is needed in this neighborhood.

Policy Basis: Stormwater Comp Plan

Current Project Status: Design

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital	46,676	390,000						390,000	100%	
TOTAL FUNDING	46,676	390,000						390,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	46,676	33,450						33,450	9%	
Land / ROW Acquisition										
Construction		356,550						356,550	91%	
Other										
TOTAL EXPENDITURES	46,676	390,000						390,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw005.xls	CFP Project:	SW - 5
Project Title:	Hicks Lake to Pattison Conveyance	UGA Planning Area:	Lakes	Department:	Public Works
Location:	North of Mullen Rd between the lakes				

Project Description: Work with Thurston County to construct a new fish pasable channel and culvert on new alignment to the north, extend existing stream channel to meet new pipe channel, and fill existing pipe with CDF.

Project Justification: The existing 400 foot culvert is collapsing. The existing pipe is not repairable.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: TBD

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital			117,000	559,728				676,728	100%	
TOTAL FUNDING			117,000	559,728				676,728	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			117,000					117,000	17%	
Land / ROW Acquisition										
Construction				559,728				559,728	83%	
Other										
TOTAL EXPENDITURES			117,000	559,728				676,728	100%	

Notes: Costs shared 50/50 with Thurston County. Costs shown above are City cost share.

Planning Period:	2016-2035	File Number:	sw006.xls	CFP Project:	SW - 6
Project Title:	Stormwater Design Manual Update	UGA Planning Area:	All	Department:	Public Works
Location:	N/A	Comp Plan Project:	19		

Project Description: The 2013 - 2018 NPDES phase II Permit requires the city to implement a stormwater manual that is technically equivalent to Ecolory's 2012 Stormwater Manual.

Project Justification: The Stormwater Manual will need to be updated to meet the requirement from the Department of Ecology.

Policy Basis: NPDES Phase II Permit | Current Project Status: In Work | Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital	38,164	160,734						160,734	100%	
TOTAL FUNDING	38,164	160,734						160,734	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	38,164	160,734						160,734	100%	
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES	38,164	160,734						160,734	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw007.xls	CFP Project:	SW - 7
Project Title:	Code Revisions for LID	UGA Planning Area:	All	Department:	Public Works
Location:	N/A				

Project Description: The City will need to review and update additional codes, rules, standards, and enforceable documents in incorporate low impact development principals and LID BMPs.

Project Justification: the City is required to review, revise, and make effective local development-related codes, rules, standards, and other enforceable documents to incorporate and require low impact development (LID) principles and LID best management practices (BMPs) by December 31, 2016.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital	36,229	88,417						88,417	100%	
TOTAL FUNDING	36,229	88,417						88,417	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	36,229	88,417						88,417	100%	
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES	36,229	88,417						88,417	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw008.xls	CFP Project:	SW - 8
Project Title:	Lacey Boulevard Pipe Replacement	UGA Planning Area:	Central	Department:	Public Works
Location:	Lacey Boulevard and Alder St SE				

Project Description: Replace crushed pipe in Lacey Blvd.

Project Justification: An existing storm pipe is crushed and causes frequent flooding of a major roadway.

Policy Basis:Stormwater Comp Plan | Current Project Status: Completed by Operations | Land Status: City ROW or Easements

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue	6,276									
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	6,276									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction	6,276									
Other										
TOTAL EXPENDITURES	6,276									

Notes:

Planning Period:	2016-2035	File Number:	SW009.xls	CFP Project:	SW - 9
Project Title:	Shady Lane Treatment Facility	UGA Planning Area:	Lakes	Department:	Public Works
Location:	Shady Lane & Sierra Drive				

Project Description: Remove sediment and vegetation. Revegetate in accordance with the Lacey Stormwater Design Manual. Install maintenance access, install structure at inlet to reduce sediment buildup, and install low maintenance outlet structure.

Project Justification: A large amount of sediment has accumulated in the wet pond and needs to be removed. High water levels have resulted in backwatering but no flooding. The outfall to the lake has become partially obstructed with sediment and needs to be dredged out and modified to make it easy to maintain.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status:

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital			150,732					150,732	100%	
TOTAL FUNDING			150,732					150,732	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			46,118					46,118	31%	
Land / ROW Acquisition										
Construction			104,614					104,614	69%	
Other										
TOTAL EXPENDITURES			150,732					150,732	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw010.xls	CFP Project:	SW - 10
Project Title:	22nd Avenue SE System Rehabilitation	UGA Planning Area:	Central	Department:	Public Works
Location:	Between College and Golf Club				

Project Description: Convert 500 linear feet of existing grassy swale to bioretention facilities. Install new storm drain from the existing pump station location southward, across private property, to an existing depression.

Project Justification: Drainage from the neighborhood to the north overflows to 25th Loop SE and the outlet of this basin has been partially blocked by a private driveway. A stormwater pump station bas been installed but requires frequent maintenance so a better long term solution is needed.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital				39,755	120,448			160,203	100%	
TOTAL FUNDING				39,755	120,448			160,203	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				39,755	15,816			55,571	35%	
Land / ROW Acquisition										
Construction					104,632			104,632	65%	
Other										
TOTAL EXPENDITURES				39,755	120,448			160,203	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw011.xls	CFP Project:	SW - 11
Project Title:	Diamond Stormwater Alternative	UGA Planning Area:	Central	Department:	Public Works
Location:	22nd Ave SE and Ruddell Road				

Project Description: Manage stormwater onsite using permeable pavers for 360 LF on the east side of 22nd Avenue SE between Golf Club Rd SE and College St SE. Install pavers between existing asphalt road edge and sidewalk. This solution manages stormwater while preserving current parking uses. Also install pipe on the northeast end of 22nd Ave SE to connect existing drainage pathway to the existing catch basin in College St SE.

Project Justification: Three existing drywells are no longer functioning and causing flooding on several properties. Ponded water extends up to the front steps of residences. However, residents don't want to sacrifice parking for open conveyance or bioretention facilities.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital				115,816	251,798			367,614	100%	
TOTAL FUNDING				115,816	251,798			367,614	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				115,816	32,800			148,616	40%	
Land / ROW Acquisition										
Construction					218,998			218,998	80%	
Other										
TOTAL EXPENDITURES				115,816	251,798			367,614	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw012.xls	CFP Project:	SW - 12
Project Title:	Stormwater Comprehensive Plan	UGA Planning Area:	All	Department:	Public Works
Location:	N/A				

Project Description: The City will need to update the SCP to reflect the 2018 updates to the Phase II Permit. The SCP will build on the City's existing stormwater management program and known stormwater problems to ensure that the stormwater infrastructure, policies, and funding mechanisms will meet the City's needs for the 2018-2023 cycle.

Project Justification: The Growth Management Act requires cities to periodically update their comprehensive plan. Ecology plans to update the 2013 -2018 Phase II permit for the next permit cycle 2018-2023.

Policy Basis: Growth Management Act | Current Project Status: Planning | Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital				11,699	85,166	88,572		185,437	100%	
TOTAL FUNDING				11,699	85,166	88,572		185,437	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				11,699	85,166	88,572		185,437	100%	
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES				11,699	85,166	88,572		185,437	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw013.xls	CFP Project:	SW - 13
Project Title:	25th Loop Storm Improvements	UGA Planning Area:	Central	Department:	Public Works
Location:	25th Loop				

Project Description: Install backflow preventers on 2 existing storm drain outfalls to pond. Install a new storm pump station adjacent to the sanitary sewer pump station on Diamond Loop SE, a force main to convey flow to the stormwater outfalls, and a filtration system at the pump station inlet to provide water quality treatment.

Project Justification: Stormwater at this location is pumped away during extreme storm events (i.e., every couple of years). An alternative solution is needed that would manage stormwater without pumping it away.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds					103,415	44,321		147,736	36%	
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital						258,086		258,086	64%	
TOTAL FUNDING					103,415	302,407		405,822	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					103,415	39,225		142,640	35%	
Land / ROW Acquisition										
Construction						263,182		263,182	65%	
Other										
TOTAL EXPENDITURES					103,415	302,407		405,822	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw014.xls	CFP Project:	SW - 14
Project Title:	Clearbrook Drainage Improvements	UGA Planning Area:	Central	Department:	Public Works
Location:	Clearbrook Drive				

Project Description: Lower invert of pond outlet and increase pipe size (larger pipe at reduced slope). Excavate a linear swale around the permieter to provide adequate fall for the pipes and install two pedestrian bridges. Add an upstream infiltration facility in 19th Ct NE with stormwater treatment.

Project Justification: The aging storm drain in this area has limited slope and there is no fall between the storm drain outlets and Clearbrook Pond. The system frequently get backwatered, causes street flooding and threatens to floop one house during any significant rain event.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds					88,816	385,918		474,734		
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital										
TOTAL FUNDING					88,816	385,918		474,734	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					88,816	50,613		139,429	29%	
Land / ROW Acquisition										
Construction						335,305		335,305	71%	
Other										
TOTAL EXPENDITURES					88,816	385,918		474,734	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw015.xls	CFP Project:	SW - 15
Project Title:	Homann Area System Rehabilitation	UGA Planning Area:	Central	Department:	Public Works
Location:	Homann Drive				

Project Description: Install 10 new bioretention facilities in the right of way to enhance local infiltration and take advantage of high infiltrating soils in the area.

Project Justification: Drywells and infiltration trenches in this area are no longer functioning and causing localized nuissance flooding.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds						189,798	316,330	506,128		
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital										
TOTAL FUNDING						189,798	316,330	506,128	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering						189,798		189,798	38%	
Land / ROW Acquisition										
Construction							316,330	316,330	63%	
Other										
TOTAL EXPENDITURES						189,798	316,330	506,128	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw016.xls	CFP Project:	SW - 16
Project Title:	1010 Midway Storm Improvements	UGA Planning Area:	Pleasant Glade	Department:	Public Works
Location:	Midway				

Project Description: Install 10 new bioretention facilities in the right of way to enhance local infiltration and take advantage of high infiltrating soils in the area.

Project Justification: A clogged storm drain pipe and blind connection into the County storm drain is causing flooding.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds						17,033	30,368	47,401	100%	
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital										
TOTAL FUNDING						17,033	30,368	47,401	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering						17,033		17,033	36%	
Land / ROW Acquisition										
Construction							30,368	30,368	64%	
Other										
TOTAL EXPENDITURES						17,033	30,368	47,401	100%	

Notes:

Planning Period:	2016-2035	File Number:	sw017.xls	CFP Project:	SW - 17
Project Title:	Belair / Impala Stormwater Installation	UGA Planning Area:	Central	Department:	Public Works
Location:	Belair and Impala Drives				

Project Description: Install Storm drain along Impala Drive SE and 32nd Avenue SE to convey stormwater to Ruddell Road Stormwater Treatment Facility.

Project Justification: Lack of drainage infrastructure in this area is causing nuisance flooding. All stormwater runoff flows overland towards Wonderwood Park causing chronic flooding on residential streets and in some driveways. Flooding is most significant at the downstream end of the neighborhood. Drainage infrastructure is needed in this neighborhood.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds							124,001	124,001		
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital										514,529
TOTAL FUNDING							124,001	124,001		514,529
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering							124,001	124,001	100%	
Land / ROW Acquisition										
Construction										514,529
Other										
TOTAL EXPENDITURES							124,001	124,001	100%	514,529

Notes:

Planning Period:	2016-2035	File Number:	sw018.xls	CFP Project:	SW - 18
Project Title:	College Regional Stormwater Facility	UGA Planning Area:	Central	Department:	Public Works
Location:					

Project Description: Construct a new storm drain from College Regional Stormwater Facility to Woodland Creek. Option A would reroute the flow path to the eastward down an alignment that slopes correctly, but does no currenly connect. Option B would route flow under Martin Way and northward.

Project Justification: Under a 2008 agreement between the City and St. Martin's Abbey/University, the City is required to modify the facility to accomodate additional flow from the University resulting from campus growth and improvements. This is because the facility outfall was discovered to be smaller than originally thought (30 inch diameter, not 36 inch diameter).

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: St Martin's Property

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital										5,721,344
TOTAL FUNDING										5,721,344
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										744,817
Land / ROW Acquisition										
Construction										4,976,527
Other										
TOTAL EXPENDITURES										5,721,344

Notes:

Planning Period:	2016-2035	File Number:	sw019.xls	CFP Project:	SW - 19
Project Title:	Alder and Gemini Drainage System	UGA Planning Area:	Central	Department:	Public Works
Location:	Alder and Gemini Streets				

Project Description: Rehab existing drywells, install new storm drain to convey stormwater to new infiltration galleries in community open space and overflow fromt the infiltration facility to the storm drain in Lacey Blvd.

Project Justification: Lack of drainage infrastructure in this area is causing niussance flooding.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital										631,552
TOTAL FUNDING										631,552
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										123,828
Land / ROW Acquisition										
Construction										507,724
Other										
TOTAL EXPENDITURES										631,552

Notes:

Planning Period:	2016-2035	File Number:	sw020.xls	CFP Project:	SW - 20
Project Title:	White Fir Stormwater Installation	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	White Fir Drive NE				

Project Description: Install new permeable gravel shoulder with underdrain pipe on north and south shoulders of White Fir Drive NE. Connect underdrain to existing storm drain system. Existing system discharges to infiltration area that is functioning well

Project Justification: Lack of drainage infrastructure in this area is causing nuissance flooding.

Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status: City owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital										223,517
TOTAL FUNDING										223,517
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										20,317
Land / ROW Acquisition										
Construction										203,200
Other										
TOTAL EXPENDITURES										223,517

Notes:

Planning Period:	2016-2035	File Number:	sw021.xls	CFP Project:	SW - 21
Project Title:	5th Ct SE and 5th Way Improvements	UGA Planning Area:	Tanglewilde	Department:	Public Works
Location:	5th Ct SE and 5th Way				

Project Description: Construct channelized inverts in the bottom of existing CB's to enable jetting of pipes as needed for maintenance. Will also require increased maintenance of upstream and downstream structures.

Project Justification: Pipes / Structures in backyard area creating a maintenance problem because access is limited.

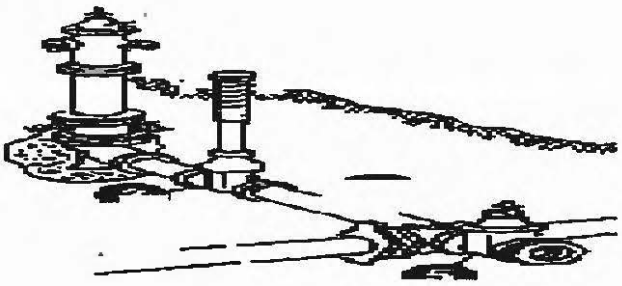
Policy Basis: Stormwater Comp Plan | Current Project Status: Planning | Land Status:

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Stormwater Capital										35,526
TOTAL FUNDING										35,526
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										35,526
Other										
TOTAL EXPENDITURES										35,526

Notes:

Water



Background

The City of Lacey provides water service to approximately 76,000 people within its corporate City limits and adjacent urban areas. Groundwater is the primary supply source to the system and Olympia's McAllister Springs facility provides additional supply. Lacey's water service area abuts the City of Olympia's service area and a number of smaller privately owned water systems, many of which lie within Lacey's city limits. Lacey's system is challenged with replacing deteriorated facilities and mains, and installing growth-related source, storage, and transmission to meet demands as they occur.

Lacey's water system improvements are guided by the 2013 Water Comprehensive Plan. The plan, which serves as the basis for water-related capital projects and this capital facilities plan element covers the following:

1) Evaluated the current capabilities and limitations of Lacey's existing water systems;

2) Projected future demands in Lacey's current and long-term service areas; and

3) Established a schedule of system repairs, improvements, and expansion necessary to assure adequate supply and delivery of water to those service areas.

System repair and improvement projects listed in this capital facilities plan include replacement and upgrades of distribution piping, development of new water sources and storage capacity, water quality improvements, and other items that will lead to more effective use of existing water resources and facilities.

The exact timing of water-related projects in this area are outlined in this Capital Facilites Plan. This plan will be reviewed annually to assure that needed expansions are in place to accommodate development as it occurs.

It is important to note that this Capital Facilities Plan's purpose is to demonstrate how the City will implement the *Water Comprehensive Plan*. Readers wishing more detailed explanations of methodologies and findings are encouraged to review the full *2013 Water Comprehensive Plan*. Copies are available in the Report and Plans Library on the City of Lacey website.

Water System Planning Goals and Objectives

Planning goals and objectives as established by Lacey's Comprehensive Water Plan are:

1) Provide sufficient supply to meet increasing water system demands and complete water right mitigation projects in order to utliize new water rights. The development of increased water supply includes maximizing capacity from existing sources and the development of new sources.

2) Provide a safe, consistent, and efficient supply of high quality water to the customers.

3) Increase source reliability to meet DOH recom mended design criteria.

4) Construct water supply, distribution, transmission and storage improvements to meet City wide water demands.

5) Upgrade and replace aging water mains and facilities.

6) Provide a financing plan for the Capital improvement Program to meet projected growth and water system needs.

Meeting Demands of Population Growth

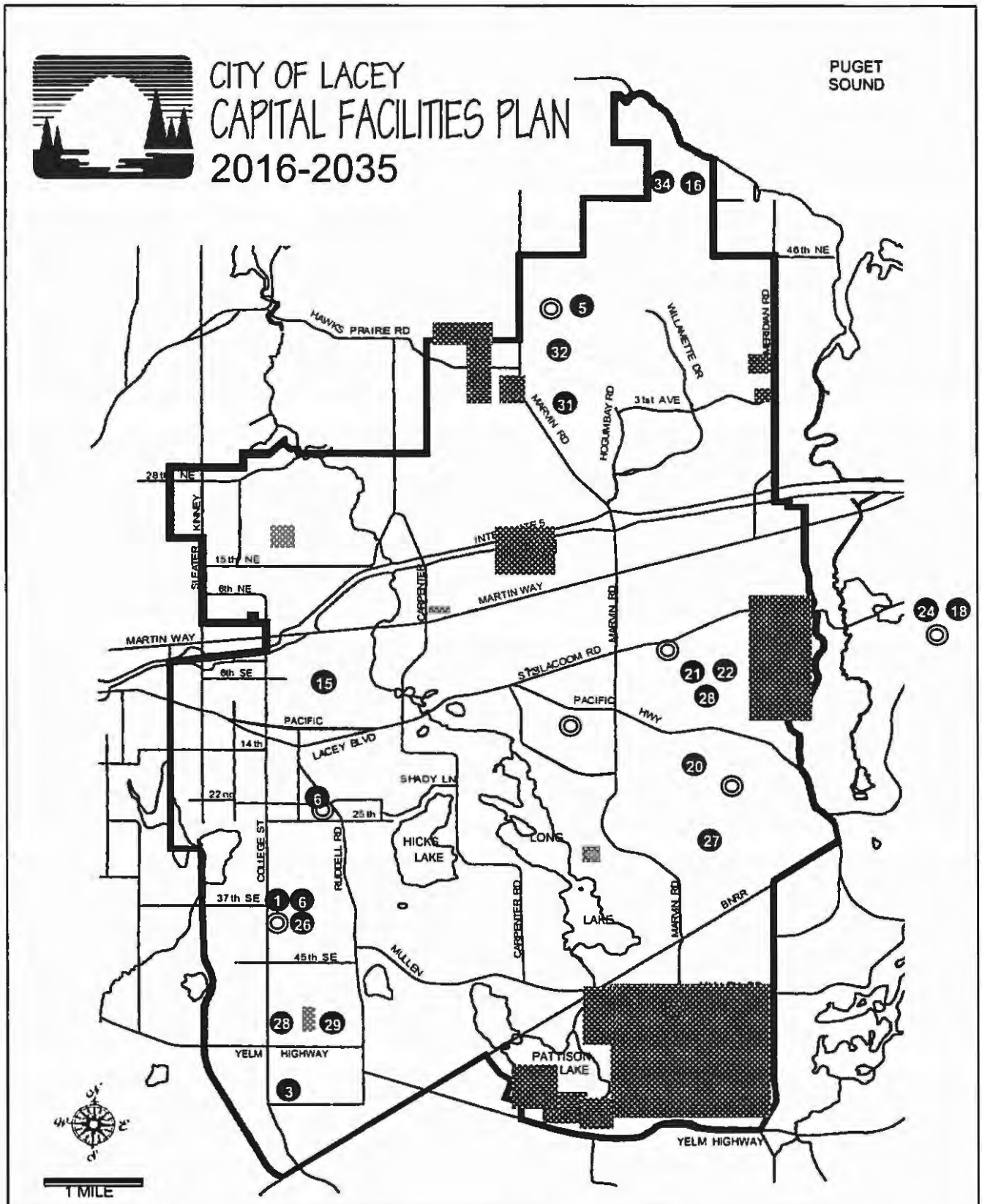
In 2005, Resolution 917 was adopted to place restrictions on new water system connections in the Urban Growth Area (UGA), pending additional water right authorizations from the Department of Ecology. After Ecology issued new water rights in 2011-2012, Lacey adopted it's 2013 Comprehensive Water Plan and rescinded Resolution 917 in May 2013. The City is now authorized to withdraw up to 23,511 gpm and 16,798.2 Acre-feet per year. Mitigation is required to fully use the water rights acquired in 2011-2012.

While recent growth rates have slowed, the water utility continues to anticipate strong long-term residential and commercial growth. This could drive average daily water demands as high as 11.60 million gallons by the year 2029, a 51% increase from 2011 demands. Now that the City has acquired several new water rights, the focus of the utility shifts to developing the infrastructure needed to meet those demands. Many of the projects listed in this plan are critical to achieving that goal,

The financing plan for the first six years of the Water Element of this Capital Facilities Plan is illustrated in table 8.1 below.

	2016	2017	2018	2019	2020	2021	Total
Revenue Bonds	1,298,834	500,000	1,673,800	7,940,000	4,639,555	674,000	16,726,189
Utility Rates and Fees	1,407,208	955,000	408,500	1,521,400	608,445	1,321,400	6,221,953
GFC Revenue	4,754,535	4,257,061	4,294,192	2,358,800	1,161,600	5,802,700	22,628,888
Total	$7,460,577	$5,712,061	$6,376,492	$11,820,200	$6,409,600	$7,798,100	$45,577,030

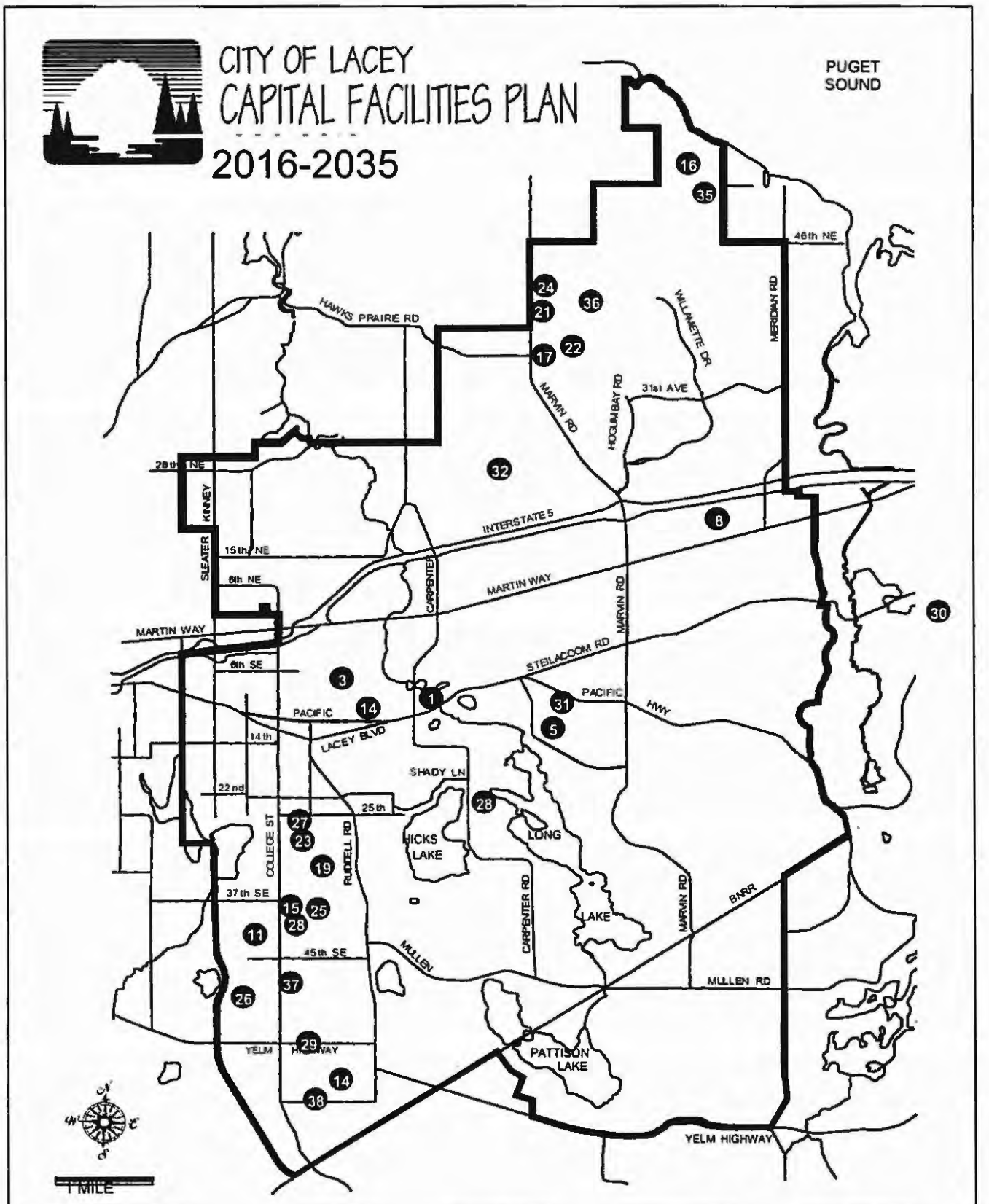
Table 8.1



Water System Inventory

Reservoirs ◎
Wells ❶
Private Water Systems ▩

Lacey UGA Boundary



Water Projects | **Project Numbers** 1 | **Lacey UGA Boundary**

CITY OF LACEY 2016-2035 CAPITAL FACILITIES PLAN

WATER PROJECTS SUMMARY SHEET

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING SOURCES										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	4,648,473	1,298,834	500,000	1,673,800	7,940,000	4,639,555	674,000	16,726,189	37%	
Utility Rates / Fees	1,033,222	1,407,208	955,000	408,500	1,521,400	608,445	1,321,400	6,221,953	14%	
GFC Revenue	5,054,627	4,754,535	4,257,061	4,294,192	2,358,800	1,161,600	5,802,700	22,626,886	50%	16,097,000
LID / ULID										
Arterial Street Fund										
PWTF Loan Total										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other	9,617									
TOTAL	10,745,939	7,460,577	5,712,061	8,376,492	11,620,200	8,409,600	7,798,100	45,577,030	100%	16,097,000
EXPENDITURES BY CATEGORY										
Planning										
Preliminary Design		206,604	180,000					386,604	1%	
Design & Engineering	3,541,294	1,635,483	1,342,251	2,846,492	2,192,280	967,840	1,551,276	10,535,622	23%	1,655,000
Land / ROW Acquisition	57,877									
Construction	8,989,162	5,616,490	4,189,810	3,530,000	9,627,920	5,441,760	6,246,824	34,654,804	76%	14,442,000
Other	157,605									
TOTAL	10,745,939	7,460,577	5,712,061	6,376,492	11,820,200	6,409,600	7,798,100	45,577,030	100%	16,097,000
EXPENDITURES BY PROJECT										
Water- 1 Woodland Creek Reclaimed Infiltration	2,333,869									
Water- 2 Brewery Wellfield Development	90,840	32,000	42,761	64,142	65,000	470,000	674,000	1,347,903	3%	1,150,000
Water- 3 ATEC Water TF Backwash	1,481,732									
Water- 4 Telemetry Control Valves	64,028	623,797						823,797	1%	
Water- 5 Union Mills Altitude Valve	241,324									
Water- 6 Monitoring Well	459,916	31,969	6,000					37,969	0%	
Water- 7 Water Rights Administration	217,701	10,000	202,000	202,000	38,000	39,500	41,000	532,500	1%	
Water- 8 Skokomish Way Water main	1,225,060	675,037						675,037	1%	
Water- 9 Critical Valves Program	114,281	171,521	126,500					298,021	1%	
Water- 10 Groundwater Monitoring Wells	28,005	65,117		30,000	260,000			375,117	1%	
Water- 11 SW 337 Zone Study	27,501	50,000						50,000	0%	
Water- 12 Smith Farm Construction	62,730	30,000	660,000					890,000	2%	
Water- 13 Transportation - Watermain Impacts	636,993	702,000	126,500	131,600	126,500	131,600	137,000	1,355,200	3%	
Water- 14 Train Depot Watermain			210,000					210,000	0%	
Water- 15 Install VFDs & Genset - Westside	155,781	658,528						658,528	1%	
Water- 16 Wells S15 and S16 Replacement	27,932	864,454	1,000,000	817,000				2,681,454	6%	
Water- 17 Willamette / 31st Roundabout Watertine		15,000						15,000	0%	
Water- 18 Annual Pipeline Improvements	167,056	2,133,194	1,233,000	126,500	1,184,400	136,900	1,184,400	5,998,394	13%	7,000,000
Water- 19 Annual Water Line Replacement	1,135,878	220,000	1,392,000	1,447,500	220,000	1,447,500	1,505,400	6,232,400	14%	
Water- 20 Biennial Well Rehab/Replacement	22,922	72,000		85,200		92,100		249,300	1%	
Water- 21 Hawks Prairie Water Recycle Equipment	66,130	171,660						171,660	0%	
Water- 22 Hawks Prairie Facility Pump Hatch	80,315	19,300						19,300		
Water- 23 Overflow for Judd Hill Reservoir	336	350,000						350,000	1%	
Water- 24 Hawks Prairie Well S31 Construction	1,310,613									
Water- 25 Reclaimed Water Comp Plan		200,000	250,000	461,000				911,000		
Water- 26 New 3.2 MG Reservoir in 337 Zone			180,000	1,000,000	6,000,000			7,180,000	16%	
Water- 27 Well S06 Replacement	206,222			18,250	380,000	1,814,000		2,212,250	5%	
Water- 28 Well S01 Replacement					316,300	395,000	1,642,300	2,353,600	5%	
Water- 29 Capital City Golf Course Fire flow		160,000	83,300	1,265,300	1,782,000			3,290,600	7%	
Water- 30 Overflow for Nisqually Reservoir				100,000				100,000	0%	
Water- 31 Retrofit and Overflow Union Mills		185,000		176,000				363,000	1%	
Water- 32 Reclaimed Water Facilities						195,000	473,000	668,000	1%	4,210,000
Water- 33 New 3.2 MGD Pump Station					158,000	658,000	1,369,000	2,165,000	5%	
Water- 34 Comprehensive Water System Update	587,172		200,000	200,000	200,000			600,000	1%	
Water- 35 48th/50th Ave Fire flow Improvements							772,000	772,000	2%	
Water- 36 Willamette Drive Velocity Improvement										198,000
Water- 37 College Street Pressure Improvement										539,000
Water- 38 Well S04 Improvements										3,000,000
Water- 39 Marvin Road Well				250,000	1,090,000	1,030,000		2,370,000	5%	
TOTAL	10,745,939	7,460,577	5,712,061	6,376,492	11,820,200	6,409,600	7,798,100	45,577,030	98%	16,097,000

Notes: Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Planning Period:	2016-2035	File Number:	wtr001.xls	CFP Project:	Water- 1
Project Title:	Woodland Creek Reclaimed Infiltration	UGA Planning Area:	Tanglewilde	Department:	Public Works
Location:	Woodland Creek Community Park	Water Plan Project:	WS-8		

Project Description: This project is to construct the Woodland Creek Regional Reclaimed Water Infiltration Facility.

100% Expansion Upgrade/Replacement

Project Justification: The Woodland Creek Regional Reclaimed Water Infiltration Facility is intended to recharge groundwater in the Woodland Creek Basin to mitigate impacts resulting from additional groundwater withdrawals by the cities of Lacey and Olympia.

Policy Basis: Utility Management Practices Current Project Status: Complete Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	2,324,053									
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan Total										
Interfund Loan										
Grants										
SEPA /LTA										
Developer Financing										
Other (City of Olympia)	9,616									
TOTAL FUNDING	2,333,669									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	558,734									
Land / ROW Acquisition										
Construction	1,730,395									
Other	44,540									
TOTAL EXPENDITURES	2,333,669									

Notes:

Planning Period:	2016-2035	File Number	wtr002.xls	CFP Project:	Water- 2
Project Title:	Brewery Wellfield Development	UGA Planning Area:	N/A	Department:	Public Works
Location:	Brewery Wellfield	Water Plan Project:	WS-2		

Project Description: Project will identify an initial facility inventory at the brewery wellfield , identify improvements to make the site supply water, and complete improvements necessary to bring the well field on-line.

100% Expansion Upgrade/Replacement

Project Justification: Improvements are needed to take advantage of the water rights that were purchased by the three cities. Costs represent Lacey's proportional share.

Policy Basis: 2011 Comprehensive Water Plan Current Project Status: Planning Land Status: Lacey, Tumwater & Olympia Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds						470,000	674,000	1,144,000	85%	
Utility Rates / Fees										
GFC Revenue	90,640	32,000	42,761	64,142	65,000			203,903	15%	1,150,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	90,640	32,000	42,761	64,142	65,000	470,000	674,000	1,347,903	100%	1,150,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	89,211	32,000	42,761	64,142	65,000	80,000	110,700	394,603	29%	
Land / ROW Acquisition										
Construction						390,000	563,300	953,300	71%	1,150,000
Other	1,429									
TOTAL EXPENDITURES	90,640	32,000	42,761	64,142	65,000	470,000	674,000	1,347,903	100%	1,150,000

Notes:

Planning Period:	2016-2035	File Number:	wtr003.xls	CFP Project:	Water- 3
Project Title:	ATEC Water TF Backwash	UGA Planning Area:	Central Lacey	Department:	Public Works
Location:	Lacey Street	Water Plan Project:	WQ-1		

Project Description: Construct a filter backwash and particulates removal and disposal system at the ATEC facility.

Expansion 100% Upgrade/Replacement

Project Justification: The ATEC facility experiences plugging of the infiltration ponds due to particulates produced during the filter backwash.

Policy Basis: 2011 Water Comprehensive Plan | Current Project Status: Complete | Land Status: Easements Secured

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	1,007,400									
Utility Rates / Fees										
GFC Revenue	474,332									
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	1,481,732									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	224,480									
Land / ROW Acquisition										
Construction	1,250,575									
Other	6,677									
TOTAL EXPENDITURES	1,481,732									

Notes:

Planning Period:	2016-2035	File Number:	wtr004.xls	CFP Project:	Water- 4
Project Title:	Telemetry Control Valves	UGA Planning Area:	All	Department:	Public Works
Location:	System Wide	Water Plan Project:	PRV-1		

Project Description: This project would install telemetry controls at PRV stations to allow for remote control of the PRV set points.

Expansion 100% Upgrade/Replacement

Project Justification: Small changes in the PRV set points have significant impacts on the distribution systems ability to move supply from one pressure zone to another especially during demand periods. Improves efficiency in making adjustments.

Policy Basis: 2011 Comprehensive Water Plan

Current Project Status: Construction

Land Status: City and County ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	64,028	623,797						623,797	100%	
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	64,028	623,797						623,797	100%	
EXPENDITURES										
Planning										
Preliminary Design		33,714						33,714	5%	
Design & Engineering	46,847	107,819						107,819	17%	
Land / ROW Acquisition										
Construction	17,181	482,264						482,264	77%	
Other										
TOTAL EXPENDITURES	64,028	623,797						623,797	100%	

Notes:

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Planning Period:	2016-2035	File Number:	wtr005.xls	CFP Project:	Water- 5
Project Title:	Union Mills Altitude Valve	UGA Planning Area:	Tanglewide	Department:	Public Works
Location:	Marvin Rd & Pacific Avenue	Water Plan Project:	ST-1		

Project Description: This project modifies the existing altitude valve and vault at the Union Mills reservoir.

Expansion 100% Upgrade/Replacement

Project Justification: The current valve cannot be accessed for maintenance or repair. Failure of this valve would severely affect the water system.

Policy Basis: 2011 Comprehensive Water Plan | Current Project Status: Complete | Land Status: City owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees	241,324									
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	241,324									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	67,544									
Land / ROW Acquisition										
Construction	172,550									
Other	1,229									
TOTAL EXPENDITURES	241,324									

Notes:

Planning Period:	2016-2035	File Number:	wtr006.xls	CFP Project:	Water- 6
Project Title:	Monitoring Well	UGA Planning Area:	Area Wide	Department:	Public Works
Location:	Area Wide	Water Plan Project:	WS-7		

Project Description: Install monitoring wells, expand water quality and well head protection for source wells. Includes monitoring well located along Puget Sound shoreline.

Expansion 100% Upgrade/Replacement

Project Justification: The Wellhead Protection Report recommends the additional wells and monitoring

Policy Basis: Utility Management Practices

Current Project Status: Construction

Land Status: Acquired

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees	459,916	31,969						31,969	84%	
GFC Revenue			6,000					6,000	16%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	459,916	31,969	6,000					37,969	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	143,796	2,369						2,369	6%	
Land / ROW Acquisition	55,277									
Construction	250,805	29,600	6,000					35,600	94%	
Other	10,038									
TOTAL EXPENDITURES	459,916	31,969	6,000					37,969	100%	

Notes:

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Planning Period:	2016-2035	File Number:	wtr007.xls	CFP Project:	Water- 7
Project Title:	Water Rights Administration	UGA Planning Area:	Area Wide	Department:	Public Works
Location:	Area Wide	Water Plan Project:	WS-6		

Project Description: These are general costs associated with acquiring water rights. These funds will cover costs such as processing fees, a reimbursement contract with Ecology and consultant and legal assistance.

Project Justification: The city needs to continue to purchase the acquisition of water rights.

Policy Basis: Utility Management Practices

Current Project Status: Planning

Land Status: None Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees	217,701	10,000	202,000					212,000	40%	
GFC Revenue				202,000	38,000	39,500	41,000	320,500	60%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	217,701	10,000	202,000	202,000	38,000	39,500	41,000	532,500	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	217,701	10,000	202,000	202,000	38,000	39,500	41,000	532,500	100%	
Land / ROW Acquisition										
Construction										
Other [2]										
TOTAL EXPENDITURES	217,701	10,000	202,000	202,000	38,000	39,500	41,000	532,500	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr008.xls	CFP Project:	Water- 8
Project Title:	Skokomish Way Water main	UGA Planning Area:	Meadows	Department:	Public Works
Location:	Skokomish Way	Water Plan Project:	P-7		

Project Description: This project replaces pipe in the Skokomish Way from Queets Drive NE to Quinault Drive NE.

Expansion 100% Upgrade/Replacement

Project Justification: This project is needed to make necessary system improvements in the area.

Policy Basis: 2011 Water Comprehensive Plan

Current Project Status: Construction

Land Status: County ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	1,225,060	675,037						675,037	100%	
Utility Rates / Fees										
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	1,225,060	675,037						675,037	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	223,846	50,003						50,003	7%	
Land / ROW Acquisition										
Construction	999,062	625,034						625,034	93%	
Other	2,151									
TOTAL EXPENDITURES	1,225,060	675,037						675,037	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr009.xls	CFP Project:	Water- 9
Project Title:	Critical Valves Program	UGA Planning Area:	All	Department:	Public Works
Location:	System Wide	Water Plan Project:	P-12		

Project Description: This program will install isolation valves along the major transmission corridors. Includes 2013 rollover funds for Union Mills/College St valves (WA12CV) and 2013 Critical Valves (WA13CV)

Expansion 100% Upgrade/Replacement

Project Justification: There are not sufficient valves in the major corridors to facilitate shut-downs and reduce customer impacts.

Policy Basis: 2011 Comprehensive Water Plan

Current Project Status: Design

Land Status: City and County ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees	114,281	171,521	126,500					298,021	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	114,281	171,521	126,500					298,021	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	19,997	15,594	16,500					32,094	11%	
Land / ROW Acquisition										
Construction	94,284	155,927	110,000					265,927	89%	
Other										
TOTAL EXPENDITURES	114,281	171,521	126,500					298,021	100%	

Notes:

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Planning Period:	2016-2035	File Number:	wtr010.xls	CFP Project:	Water- 10
Project Title:	Groundwater Monitoring Wells	UGA Planning Area:	Area Wide	Department:	Public Works
Location:	Area Wide	Water Plan Project:	WQ-3		

Project Description: Install monitoring wells, expand water quality and well head protection for source wells at cost of $110,000 in 2015. Shoreline monitoring well in 2014-2018 with total cost of $400,000.

Project Justification: The Wellhead Protection Report recommends the additional wells and monitoring

Policy Basis: Utility Management Practices | Current Project Status: Planning | Land Status: None Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	28,005	85,117		30,000	260,000			375,117	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	28,005	85,117		30,000	260,000			375,117	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	28,005	7,097		30,000	34,000			71,097	19%	
Land / ROW Acquisition										
Construction		78,020			226,000			304,020	81%	
Other [2]										
TOTAL EXPENDITURES	28,005	85,117		30,000	260,000			375,117	100%	

Notes: 1 & 2 Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Planning Period:	2016-2035	File Number:	wtr011.xls	CFP Project:	Water- 11
Project Title:	SW 337 Zone Study	UGA Planning Area:	Central	Department:	Public Works
Location:	Southwest Lacey	Water Plan Project:	ST-2		

Project Description: This project will include a feasibility study/predesign report which will establish the optimum method to address the storage and needs of the system

Project Justification: The City is anticipating a storage deficiency of 1.29 MG by the year 2015 and 3.2 MG by the year 2029 and well source 6 is declining.

Policy Basis: 2011 Comprehensive Water Plan | Current Project Status: Design | Land Status:

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	27,501	50,000						50,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	27,501	50,000						50,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	27,501	50,000						50,000	100%	
Land / ROW Acquisition										
Construction										
Other [2]										
TOTAL EXPENDITURES	27,501	50,000						50,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr012.xls	CFP Project:	Water- 12
Project Title:	Smith Farm Construction	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:		Water Plan Project:	Trans/Development		

Project Description: Construct wetlands, crib wall,, riparian vegatation and irrigation among other work.

Project Justification:

Policy Basis: Best Management Practices

Current Project Status: Planning

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	62,730	30,000	660,000					690,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	62,730	30,000	660,000					690,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	49,596	30,000	50,000					80,000	12%	
Land / ROW Acquisition										
Construction			610,000					610,000	88%	
Other [2]	13,135									
TOTAL EXPENDITURES	62,730	30,000	660,000					690,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr013.xls	CFP Project:	Water- 13
Project Title:	Transportation - Watermain Impacts	UGA Planning Area:	All	Department:	Public Works
Location:	Area wide	Water Plan Project:	Trans/Development		

Project Description: Make improvements to waterlines when street upgrades and construction are planned. College St and 22nd Ave Roundabout and Steilacoom Road in 2016.

Project Justification: When street upgrades are planned it is the best time to upgrades waterlines under the pavement.

Policy Basis: Best Management Practices | Current Project Status: Planning | Land Status: City or County ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees			126,500		117,000	131,600	137,000	512,100	38%	
GFC Revenue	636,993	702,000		131,600	9,500			843,100	62%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	636,993	702,000	126,500	131,600	126,500	131,600	137,000	1,355,200	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	102,961	117,000	21,090	21,940	25,300	26,320	18,900	230,550	17%	
Land / ROW Acquisition										
Construction	519,205	585,000	105,410	109,660	101,200	105,280	118,100	1,124,650	83%	
Other [2]	14,828									
TOTAL EXPENDITURES	636,993	702,000	126,500	131,600	126,500	131,600	137,000	1,355,200	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr014.xls	CFP Project:	Water- 14
Project Title:	Train Depot Watermain	UGA Planning Area:	Central	Department:	Public Works
Location:	Lebanon St and Lacey Blvd	Water Plan Project:	N/A		

Project Description: Installation of water utilities in Lebanon Street extension to serve the Train Depot. A 12-inch water main will be installed.

Project Justification: Provides water service to the future Train Depot/ City Museum.

Policy Basis: Best Management Practices | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue			210,000					210,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING			210,000					210,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			30,000					30,000	14%	
Land / ROW Acquisition										
Construction			180,000					180,000	86%	
Other [2]										
TOTAL EXPENDITURES			210,000					210,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr015.xls	CFP Project:	Water- 15
Project Title:	Install VFDs & Genset - Westside	UGA Planning Area:	Horizons	Department:	Public Works
Location:	College Street	Water Plan Project:	PS-1 & 2		

Project Description: Replace the two constant speed motors at the westside booster station with variable frequency drive motors and provide back up generator power. Additionally, install a Vortex Plate in the Westside Reservoir.

Project Justification: Installing variable speed drives will improve operations and pumping efficiency at the site. Generator power will ensure continued operation during power failures. Installing a Vortex plate in the westside reservoir will increase available useable storage and decrease the likelyhood of air being introduced into the system.

Policy Basis: 2011 Water Comprehensive Plan | Current Project Status: Design | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees		329,264						329,264	50%	
GFC Revenue	155,781	329,264						329,264	50%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	155,781	658,528						658,528	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	155,781	85,898						85,898	13%	
Land / ROW Acquisition										
Construction		572,630						572,630	87%	
Other										
TOTAL EXPENDITURES	155,781	658,528						658,528	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr016.xls	CFP Project:	Water- 16
Project Title:	Wells S15 and S16 Replacement	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Beachcrest Subdivision	Water Plan Project:	WS-11		

Project Description: Replace the two Beachcrest wells with a single large-diameter well.

Expansion 100% Upgrade/Replacement

Project Justification: The two wells are housed in deteriorating structures and are unable to produce their full instantaneous water right.

Policy Basis: 2011 Water Comprehensive Plan | Current Project Status: Design | Land Status: City owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2015	2016	2017	2018	2019	2020	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds	27,932		500,000	408,500				908,500	34%	
Utility Rates / Fees		864,454	500,000	408,500				1,772,954	66%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	27,932	864,454	1,000,000	817,000				2,681,454	100%	
EXPENDITURES										
Planning										
Preliminary Design		172,890						172,890	6%	
Design & Engineering	27,932		200,000	164,000				364,000	14%	
Land / ROW Acquisition										
Construction		691,564	800,000	653,000				2,144,564	80%	
Other										
TOTAL EXPENDITURES	27,932	864,454	1,000,000	817,000				2,681,454	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr017.xls	CFP Project:	Water- 17
Project Title:	Willamette / 31st Roundabout Waterline	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Willamette and 31st	Water Plan Project:	WS-4, Prt 2		

Project Description: This project will reimburse a developer for installing the water line necessary to convey raw water from the future well to the treatment facility. Construction concurrent with the roundabout planned in the area.

Project Justification: The water line is needed to convey water for treatment.

Policy Basis: 2011 Water Comp Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		15,000						15,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING		15,000						15,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		1,400						1,400	9%	
Land / ROW Acquisition										
Construction		13,600						13,600	91%	
Other [2]										
TOTAL EXPENDITURES		15,000						15,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr018.xls	CFP Project:	Water- 18
Project Title:	Annual Pipeline Improvements	UGA Planning Area:	All	Department:	Public Works
Location:	System Wide	Water Plan Project:	P-8		

Project Description: Annual funding allocation to make improvements to pipelines in the water system. College St to Ruddell Rd via Brentwood in 2014 - 2015. Hoh Street between Steilacoom Road and Martin Way in 2016-2017

Project Justification: Annual funding allows staff to prioritize improvements to fix problems with fire flow and pressure deficiencies in the system

Policy Basis: 2011 Water Comprehensive Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees					1,184,400	136,900	1,184,400	2,505,700		
GFC Revenue	167,058	2,133,194	1,233,000	126,500				3,492,694	100%	7,000,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	167,058	2,133,194	1,233,000	126,500	1,184,400	136,900	1,184,400	5,998,394	100%	7,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	167,058	426,644	246,600	126,500	135,680	136,900	135,680	1,208,004	20%	600,000
Land / ROW Acquisition										
Construction		1,706,550	986,400		1,048,720		1,048,720	4,790,390	80%	6,400,000
Other										
TOTAL EXPENDITURES	167,058	2,133,194	1,233,000	126,500	1,184,400	136,900	1,184,400	5,998,394	100%	7,000,000

Notes:

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Planning Period:	2016-2035	File Number:	wtr019.xls	CFP Project:	Water- 19
Project Title:	Annual Water Line Replacement	UGA Planning Area:	Central	Department:	Public Works
Location:	System wide	Water Plan Project:	P-8		

Project Description: Replace waterlines as needed to address aging water lines in the system. Timber Court area in 2014 - 2015 at a cost of $475,000. Shady Lane in 2016-2017 at cost of $1,550,623.

Project Justification: Reduces leaks in the system to minimize wate loss and improve system effiiciency.

Policy Basis: 2011 Comp Plan | Current Project Status: Design | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds						1,107,555		1,107,555		
Utility Rates / Fees					220,000	339,945		559,945		
GFC Revenue	1,135,876	220,000	1,392,000	1,447,500			1,505,400	4,564,900	73%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	1,135,876	220,000	1,392,000	1,447,500	220,000	1,447,500	1,505,400	6,232,400	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	187,727	220,000			220,000		301,080	741,080	12%	
Land / ROW Acquisition	2,600									
Construction	912,628		1,392,000	1,447,500		1,447,500	1,204,320	5,491,320	88%	
Other [2]	32,921									
TOTAL EXPENDITURES	1,135,876	220,000	1,392,000	1,447,500	220,000	1,447,500	1,505,400	6,232,400	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr020.xls	CFP Project:	Water- 20
Project Title:	Biennial Well Rehab/Replacement	UGA Planning Area:	All	Department:	Public Works
Location:	System Wide	Water Plan Project:	WS-9		

Project Description: Biennial funding to support the well rehabilitation program. Includes funding for rehab of source 7 in 2014-2015.

Project Justification: This program funds a program to identify wells that are underperforming and finds solutions to bring wells back to production levels expected.

Policy Basis: 2011 Water Comprehensive Plan **Current Project Status:** Planning **Land Status:** None required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	22,922	72,000		85,200		92,100		249,300	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	22,922	72,000		85,200		92,100		249,300	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	7,656	12,000						12,000	5%	
Land / ROW Acquisition										
Construction	14,886	60,000		85,200		92,100		237,300	95%	
Other	380									
TOTAL EXPENDITURES	22,922	72,000		85,200		92,100		249,300	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr021.xls	CFP Project:	Water- 21
Project Title:	Hawks Prairie Water Recycle Equipment	UGA Planning Area:	Hawks Prairi	Department:	Public Works
Location:	Marvin Road	Water Plan Project:	N/A		

Project Description: Study and purchase the best polymer coagulant and equipment to complete a backwash of water to remove iron and manganese.

Project Justification: The mineral constituents are not settling out and a coagulant is needed to improve the recycle process.

Policy Basis: Best Management Practices | Current Project Status: Design | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	68,130	171,660						171,660	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	68,130	171,660						171,660	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	68,130	13,660						13,660		
Land / ROW Acquisition										
Construction		158,000						158,000	92%	
Other [2]										
TOTAL EXPENDITURES	68,130	171,660						171,660	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr021.xls	CFP Project:	Water- 22
Project Title:	Hawks Prairie Facility Pump Hatch	UGA Planning Area:	Hawks Prairi	Department:	Public Works
Location:	Marvin Road	Water Plan Project:	N/A		

Project Description: Install a hatch in the roof of the facility to allow for easier pump removal.

Project Justification: The hatch will improve efficiency in pump changes.

Policy Basis: Best Management Practices | Current Project Status: Construction | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2016	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	80,315	19,300						19,300	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING	80,315	19,300						19,300	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	37,674									
Land / ROW Acquisition										
Construction	42,641	19,300						19,300	100%	
Other [2]										
TOTAL EXPENDITURES	80,315	19,300						19,300	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr022.xls	CFP Project:	Water- 23
Project Title:	Overflow for Judd Hill Reservoir	UGA Planning Area:	Central Lacey	Department:	Public Works
Location:	Judd Street	Water Plan Project:	ST-4		

Project Description: Construct an overflow pond at the Judd Hill Reservoir.

Expansion 100% Upgrade/Replacement

Project Justification: This site does not have a detention pond or other means of collecting and disposing of water during an overflow event.

Policy Basis: 2011 Water Comprehensive Plan

Current Project Status: Design

Land Status: Additional Land May be Required

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	336	350,000						350,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	336	350,000						350,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	336	64,000						64,000	18%	
Land / ROW Acquisition										
Construction		286,000						286,000	82%	
Other										
TOTAL EXPENDITURES	336	350,000						350,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr023.xls	CFP Project:	Water- 24
Project Title:	Hawks Prairie Well S31 Construction	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Marvin Road	Water Plan Project:	WS-1		

Project Description: This project will install the necessary pump, electrical and mechanical equipment and a small structure to equip the well.

100% Expansion Upgrade/Replacement

Project Justification: This project will enable the city to utilize water rights in the project area.

Policy Basis: 2011 Water Comprehensive Plan Current Project Status: Complete Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	1,310,613									
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	1,310,613									
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	440,521									
Land / ROW Acquisition										
Construction	839,815									
Other	30,277									
TOTAL EXPENDITURES	1,310,613									

Notes:

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Planning Period:	2016-2035	File Number:	wtr021.xls	CFP Project:	Water- 25
Project Title:	Reclaimed Water Comp Plan	UGA Planning Area:	All	Department:	Public Works
Location:	N/A	Water Plan Project:	N/A		

Project Description: Oevelop a Reclaimed Water Comprehensive Plan.

Project Justification:

Policy Basis: Best Management Practices

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		200,000	250,000	461,000				911,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING		200,000	250,000	461,000				911,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		200,000	250,000	461,000				911,000	100%	
Land / ROW Acquisition										
Construction										
Other [2]										
TOTAL EXPENDITURES		200,000	250,000	461,000				911,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr024.xls	CFP Project:	Water- 26
Project Title:	New 3.2 MG Reservoir in 337 Zone	UGA Planning Area:	Horizons	Department:	Public Works
Location:	South College Street	Water Plan Project:	ST-2		

Project Description: Construct a new 3.2 MG reservoir to meet a forecasted storage deficiency.

100% Expansion Upgrade/Replacement

Project Justification: 3.2 MG of additional storage is needed to serve the projected growth over the next 20 years.

Policy Basis: 2011 Water Comprehensive Plan Current Project Status: Planning Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds					6,000,000			6,000,000	84%	
Utility Rates / Fees										
GFC Revenue			180,000	1,000,000				1,180,000	16%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING			180,000	1,000,000	6,000,000			7,180,000	100%	
EXPENDITURES										
Planning										
Preliminary Design			180,000					180,000	3%	
Design & Engineering				1,000,000	167,000			1,167,000	16%	
Land / ROW Acquisition										
Construction					5,833,000			5,833,000	81%	
Other										
TOTAL EXPENDITURES			180,000	1,000,000	6,000,000			7,180,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr025.xls	CFP Project:	Water- 27
Project Title:	Well S06 Replacement	UGA Planning Area:	Central Lacey	Department:	Public Works
Location:	Judd Street	Water Plan Project:	WS-10		

Project Description: Explore options and implement improvements to utilize existing water rights and provide water to the 337 PZ College Street Corridor.

Expansion 100% Upgrade/Replacement

Project Justification: Well S06 has instantaneous capacity has declined . Despite multiple rehabilitations, the well continues to have declining specific capacity. To perfect the water right and provide water in a high water demand area of the water system, the well needs to be replaced or other improvements made.

Policy Basis: 2011 Water Comprehensive Plan

Current Project Status: Design

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds						1,814,000		1,814,000	82%	
Utility Rates / Fees										
GFC Revenue	206,222			18,250	380,000			398,250	18%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	206,222			18,250	380,000	1,814,000		2,212,250	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	61,088			18,250	380,000	112,270		510,520	23%	
Land / ROW Acquisition										
Construction	145,134					1,701,730		1,701,730	77%	
Other										
TOTAL EXPENDITURES	206,222			18,250	380,000	1,814,000		2,212,250	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr026.xls	CFP Project:	Water- 28
Project Title:	Well S01 Replacement	UGA Planning Area:	Horizons	Department:	Public Works
Location:	College Street	Water Plan Project:	WS-12		

Project Description: Replace the S01 Well with a new well.

Expansion 100% Upgrade/Replacement

Project Justification: The well is declining in it's ability to provide the needed capacity.

Policy Basis: 2011 Water Comprehensive Plan

Current Project Status: Planning

Land Status: City-owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds						395,000		395,000	17%	
Utility Rates / Fees										
GFC Revenue					316,300		1,642,300	1,958,600	83%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING					316,300	395,000	1,642,300	2,353,600	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					316,300	100,000	176,916	593,216	25%	
Land / ROW Acquisition										
Construction						295,000	1,465,384	1,760,384	75%	
Other										
TOTAL EXPENDITURES					316,300	395,000	1,642,300	2,353,600	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr027.xls	CFP Project:	Water- 29
Project Title:	Capital City Golf Course Fire flow	UGA Planning Area:	Horizons	Department:	Public Works
Location:	Yelm Highway	Water Plan Project:	P-1		

Project Description: Replace aging mains and improve fire flow in the Capital City Golf Course area by upsizing pipes.

Expansion 100% Upgrade/Replacement

Project Justification: Several small diameter pipes exist which are limiting fire flow. This project will upsize pipes and improve fire flow.

Policy Basis: 2011 Water Comprehensive Plan | Current Project Status: Planning | Land Status: Easements

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds				1,265,300	1,782,000			3,047,300	93%	
Utility Rates / Fees										
GFC Revenue		160,000	83,300					243,300	7%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING		160,000	83,300	1,265,300	1,782,000			3,290,600	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		160,000	83,300	253,060	356,400			852,760	26%	
Land / ROW Acquisition										
Construction				1,012,240	1,425,600			2,437,840	74%	
Other										
TOTAL EXPENDITURES		160,000	83,300	1,265,300	1,782,000			3,290,600	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr028.xls	CFP Project:	Water- 30
Project Title:	Overflow for Nisqually Reservoir	UGA Planning Area:	N/A	Department:	Public Works
Location:	Nisqually	Water Plan Project:	St-5		

Project Description: This project will construct an overflow pond at the Nisqually reservoir.

Expansion 100% Upgrade/Replacement

Project Justification: Overflow ponds are recommended for collecting and disposing of water during an overflow event.

Policy Basis: 2011 Comprehensive Water Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue				100,000				100,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING				100,000				100,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				20,000				20,000	20%	
Land / ROW Acquisition										
Construction				80,000				80,000	80%	
Other [2]										
TOTAL EXPENDITURES				100,000				100,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr029.xls	CFP Project:	Water- 31
Project Title:	Retrofit and Overflow Union Mills	UGA Planning Area:	Tanglewide/	Department:	Public Works
Location:	Marvin Road and Pacific Ave	Water Plan Project:	ST-3		

Project Description: This project will retrofit the reservoir to meet seismic standards in 2016. In 2018 an overflow pond will be constructed at the Union Mills reservoir.

Expansion 100% Upgrade/Replacement

Project Justification: Seismic upgrades are needed in the event of an earthquake . Overflow ponds are recommended for collecting and disposing of water during an overflow event.

Policy Basis: 2011 Comprehensive Water Plan | Current Project Status: Planning | Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		185,000		178,000				363,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING		185,000		178,000				363,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		30,000		35,600				65,600	18%	
Land / ROW Acquisition										
Construction		155,000		142,400				297,400	82%	
Other [2]										
TOTAL EXPENDITURES		185,000		178,000				363,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr030.xls	CFP Project:	Water- 32
Project Title:	Reclaimed Water Facilities	UGA Planning Area:	All	Department:	Public Works
Location:	System Wide	Water Plan Project:	WS-5		

Project Description: Constructs reclaimed water facilities to include three storage facilities, two pump stations and additional transmission piping.

100% Expansion Upgrade/Replacement

Project Justification: The city plans to utilize reclaimed water and needs the infrastructure to store and distribute water.

Policy Basis: 2011 Comprehensive Water Plan Current Project Status: Planning Land Status: To be determined

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds						195,000		195,000		
Utility Rates / Fees										
GFC Revenue							473,000	473,000	71%	4,210,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING						195,000	473,000	668,000	100%	4,210,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering						195,000	473,000	668,000	100%	307,600
Land / ROW Acquisition										
Construction										3,902,400
Other										
TOTAL EXPENDITURES						195,000	473,000	668,000	100%	4,210,000

Notes:

Planning Period:	2016-2035	File Number:	wtr031.xls	CFP Project:	Water- 33
Project Title:	New 3.2 MGD Pump Station	UGA Planning Area:	Central	Department:	Public Works
Location:	Pacific Avenue	Water Plan Project:	PS-3		

Project Description: A new pump station is required to access water from the Brewery Wellfield through Olympia's water system.

100% Expansion Upgrade/Replacement

Project Justification: The existing intertie at Mt Aire is not large enough to accommodate the additional water flow. Placing the new pump station on the west side of the city will improve water distribution and provide adequate capacity .

Policy Basis: 2011 Comprehensive Water Plan Current Project Status: Planning Land Status: To be determined

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds					158,000	658,000		816,000	37%	
Utility Rates / Fees										
GFC Revenue							1,369,000	1,369,000	63%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING					158,000	658,000	1,369,000	2,185,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					158,000	181,250	100,000	439,250	20%	
Land / ROW Acquisition										
Construction						476,750	1,269,000	1,745,750	80%	
Other [2]										
TOTAL EXPENDITURES					158,000	658,000	1,369,000	2,185,000	100%	

Notes: 1 & 2 Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Planning Period:	2016-2035	File Number:	wtr032.xls	CFP Project:	Water- 34
Project Title:	Comprehensive Water System Update	UGA Planning Area:	All	Department:	Public Works
Location:	All	Water Plan Project:	G-5		

Project Description: Update of the Water Comprehensive Plan

Expansion 100% Upgrade/Replacement

Project Justification: Updates are required every six years by the Department of Health.

Policy Basis: 2011 Comprehensive Water Plan **Current Project Status:** Planning **Land Status:** N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	587,172		200,000	200,000	200,000			600,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING	587,172		200,000	200,000	200,000			600,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	587,172		200,000	200,000	200,000			600,000	100%	
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES	587,172		200,000	200,000	200,000			600,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr033.xls	CFP Project:	Water- 35
Project Title:	48th/50th Ave Fire flow Improvements	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	48th and 50th Avenues NE	Water Plan Project:	P-2		

Project Description: Replace existing 6-inch pipe with 10-inch pipe to improve fire flow.

Expansion 100% Upgrade/Replacement

Project Justification: Fire flow deficiencies require the pipe size increase.

Policy Basis: 2011 Water Comprehensive Plan | Current Project Status: Planning | Land Status: County ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue							772,000	772,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other										
TOTAL FUNDING							772,000	772,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering							194,000	194,000	25%	
Land / ROW Acquisition										
Construction							578,000	578,000	75%	
Other										
TOTAL EXPENDITURES							772,000	772,000	100%	

Notes:

Planning Period:	2016-2035	File Number:	wtr034.xls	CFP Project:	Water- 36
Project Title:	Willamette Drive Velocity Improvement	UGA Planning Area:	Hawks Prairie	Department:	Public Works
Location:	Willamette Drive	Water Plan Project:	P-3		

Project Description: This pipe project address water velocities over eight fps in the 41st Ave./Marvin Road area and installs a parallel 16-inch diameter pipe to solve the problem.

Expansion 100% Upgrade/Replacement

Project Justification: This project solves the velocity issue in the area. Since fire flow is not an issue, the project is slated for future years.

Policy Basis: 2011 Comprehensive Water Plan | Current Project Status: Planning | Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										198,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING										198,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										39,600
Land / ROW Acquisition										
Construction										158,400
Other [2]										
TOTAL EXPENDITURES										198,000

Notes: 1 & 2 Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Planning Period:	2016-2035	File Number:	wtr035.xls	CFP Project:	Water- 37
Project Title:	College Street Pressure Improvement	UGA Planning Area:	Horizons	Department:	Public Works
Location:	College Street	Water Plan Project:	P-5		

Project Description: This project address high velocities and pressure deficiencies in the College Street area. An additional 12-inch pipe would be installed from 32nd Lane to 37th Avenue SE.

100% Expansion Upgrade/Replacement

Project Justification: This project will improve the pressure in the area and reduce velocities in the pipelines.

Policy Basis: 2011 Comprehensive Water Plan Current Project Status: Planning Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										539,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING										539,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										107,800
Land / ROW Acquisition										
Construction										431,200
Other [2]										
TOTAL EXPENDITURES										539,000

Notes: 1 & 2 Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Planning Period:	2016-2035	File Number:	wtr036.xls	CFP Project:	Water- 38
Project Title:	Well S04 Improvements	UGA Planning Area:	Horizons	Department:	Public Works
Location:	Yelm Highway	Water Plan Project:	WS-3		

Project Description: This project will install a new pump and resolve well capacity to it's full water right.

100% Expansion Upgrade/Replacement

Project Justification: This well is unable to supply it's full water right capacity due to transmission, pump and well capacity issues . It produces unacceptable amounts of sand when operating near capacity. Improvements are needed to solve this issues.

Policy Basis: 2011 Comprehensive Water Plan Current Project Status: Planning Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue										3,000,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING										3,000,000
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										600,000
Land / ROW Acquisition										
Construction										2,400,000
Other [2]										
TOTAL EXPENDITURES										3,000,000

Notes: 1 & 2 Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Planning Period:	2016-2035	File Number:	wtr037.xls	CFP Project:	Water- 39
Project Title:	Marvin Road Well	UGA Planning Area:	Hawks Prairi	Department:	Public Works
Location:	Marvin Road	Water Plan Project:			

Project Description: Design and construct a new well in the northeast area

100% Expansion Upgrade/Replacement

Project Justification: This well is needed to meet the projected demands in the zone.

Policy Basis: 2011 Comprehensive Water Plan Current Project Status: Planning Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	Prior Years	2016	2017	2018	2019	2020	2021	6-Year Total	%	Future Years
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue				250,000	1,090,000	1,030,000		2,370,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other [1]										
TOTAL FUNDING				250,000	1,090,000	1,030,000	0	2,370,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				250,000	96,600	96,600		443,200	19%	
Land / ROW Acquisition										
Construction					993,400	933,400		1,926,800	81%	
Other [2]										
TOTAL EXPENDITURES				250,000	1,090,000	1,030,000		2,370,000	100%	

Notes: 1 & 2 Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Appendix A

Appendix A Glossary

Allocation	To set aside or designate fund for specific purposes. An allocation does not authorize the expenditure of funds.
Appropriation	An authorization made by the City Council which permits officials to incur obligations against and to make expenditures of governmental resources. Appropriates are usually made for fixed amounts and are typically granted for a one-year period.
Assessed Valuation	The fair market value of both real (land and building) and personal property as determined by the Thurston County Assessor's Office for the purpose of setting property taxes.
Assets	Property owned by a government which has monetary value.
Bonds	A written promise to pay (debt) a specified sum of money (called principal or face value) at a specified future date (called the maturity date(s)) along with periodic interest paid at a specified percentage of the principal (interest rate). Bonds utilized by the city are: general obligation (both voted and non-voted Councilmanic) and revenue (see Revenue Sources).
Budget (Operating)	A plan of financial operation embodying an estimate of proposed expenditures for a given period (typically a fiscal or calendar year) and the proposed means of financing them (revenue estimates). The term is also sometimes used to denote the officially approved expenditure ceilings under which a government and its departments operate.
Capital Budget	A plan of proposed capital expenditures and the means of financing them. The capital budget may be enacted as part of the complete annual budget, including both operating and capital outlays. The capital budget is based on a Capital Facilities Plan (CFP).
Capital Facilities	Land, structure, improvement, piece of equipment or other major asset, that has a useful life of at least 5 years and value of $25,000 or more. capital facilities are provided by or for public purposes and service including, but not limited to the following:

Government Facilities	Street Facilities
Parks and Open Space	Recreation Facilities
Water Facilities	Sewer Facilities
Stormwater Facilities	Trails
Equipment	Fire Equipment/Facilities

Capital Facilities Plan	A plan for capital expenditures to be incurred each year over a fixed period, indentifying the expected beginning and ending date for each project, the amount to be expended in each year, and the method of financing these expenditures.
Capital Improvement	A project to create, expand or modify a capital facilities. The project may include design, permitting, environmental analysis, land acquisition, construction, landscaping, site improvements, initial furnishings and equipment. the project cost must exceed $
Concurrency	In growth management terms, capital facilities have to be finished and in place at the time or within a reasonable time period following the impact of development. The Growth Management Act defines "reasonable time" as six years for transportation purposes.
Councilmanic Bond Debt	That amount of debt which may be or has been obligated by the City Council without voter approval. The limits on this type of debt are based on a percentage of the city's assessed value as prescribed by state law.
Debt Capacity	Also know as Debt Limit, is the maximum amount of debt which is legally permitted. The limits on this type of debt re based on a percentage of the city's assessed value as prescribed by state law.
Debt Service	Payment of interest and principal to holders of a government debt (bonds).
Development Activity	Any construction or expansion of a building, structure, or use, any change in use of a building or structure, or any change in the use of land, that creates additional demand and need for public facilities.
Enterprise Fund	Governmental services supported mainly by rates and user fees. Funds established to account for operations (a) that are financed and operated in a manner similar to private business enterprises where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing bases be financed or recovered primarily through user charges; or (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and /or net income is appropriate for capital, maintenance, public policy, management control, accountability, or other purposes (i.e. water, sewer, storm water). Enterprise funds may also be considered as proprietary funds.
General Facility Charge	Payment of monies imposed for development activity as a condition of granting development approval in order to pay for

	utilities needed to serve new development. This fee allows the property owner or developer to "buy into" the utility.
Impact Fee	A fee imposed for development activity as a condition of granting development approval in order to pay for the public facilities needed to serve new growth and development. Impact fees are limited by law to streets, parks, schools and fire.
Infrastructure	The underlying facilities required by an urban environment, i.e., streets, and water, sewer and storm water facilities.
Inventory	A listing of City public facilities including location and condition.
Latecomer Fees	Fees paid for a share of past improvements financed by others (see Revenue Sources).
Level of Service	A quantifiable measure of the amount of public facility that is provided. Typically, measures are expressed as ratios of the acres per 1,000 population, average number of students per household, traffic during peak hours at intersections, etc.
Local Improvement District (LID)	A method of carrying out a specific improvement by allocating the costs among the benefiting properties. The project is usually financed through a long-term bond issue, the repayment of which is mainly from the collection of special assessments from the benefiting properties. This is commonly used for improves to streets, sidewalks, and streetlights. (See Revenue Sources)
Operation and Maintenance (O&M)	The expenses incurred in normal operating and maintenance of capital facilities.
Special Assessment	A compulsory levy made against certain properties to defray part of all o f the cost of a specific improvement or service deemed to primarily benefit those properties.
Utility Local Improvement Districts (ULID)	An improvement district created only for improvement of water, sewer, and other utilities and differs from a LID in that all assessment revenues must be pledged for payment of debt service of bonds issued to finance the improvements.

Appendix B

Revenue Sources

General Utility User Fees

Sewer	Within the billing structure for sewer are elements for debt payment and reserves and replacement reserves.
Stormwater	Within the billing structure for stormwater are elements for debt payment and reserves and replacement reserves.
Water	Within the billing structure for water are elements for debt payment and reserves and replacement reserves.

Taxes

Motor Vehicle Excise Tax	This fund is collected and distributed by the State. Cities are required to spend these funds for police and fire protection and the preservation of public health (including capital facilities). Funds are distributed on a per capita basis.
Property Tax	State law authorizes this tax on the assessed valuation or real property. Tax rates are expressed in mills (1/10 cent per dollar of taxable value). The present maximum is $3.60 per $1,000 of assessed value, minus $0.50 for the library and $1.50 for the fire district. A second provision limits annual increases to 1.0% or the implicit price deflator, whichever is less.
Real Estate Excise Tax	A tax of ½ of 1.0% is collected by the county and distributed to the city based on sale of property within the city. The revenue must be used solely for capital improvement projects identified in the Capital Facilities Plan.
State Fuel Tax	These funds are distributed to cities based on population. This funding was referred to in the past as the ½-cent gas tax. The funds are placed the Street and Arterial Street funds for new construction and repairs of existing transportation facilities and maintenance of existing streets.
Utility Tax	The city collects a 6.0% tax on the cost of electrical, natural gas, telephone, garbage, water, and sewer. A portion of these funds have been set aside for capital improvements, including transportation and parks.

Grants

Centennial Clean Water	This state grant and loan program, administered through the Department of Ecology, may be used for design, acquisition, construction, and improvement of water pollution control facilities for stormwater management and ground water protection. Funds are awarded on a competitive basis.
Recreation and Conservation Office	This state grant program provides funds for park or other outdoor recreation projects. Grant agreements require 25% of eligible project expenses be paid from local matching funds.
Transportation Efficiency For the 21st Century (TEA 21)	This program is administered for the federal government by Washington State Department of Transportation. The funds are distributed to the local Metropolitan Planning Office (Thurston Regional Planning Council). Grants are distributed to the local agencies on a competitive project basis. Funds can be used for all transportation modes, not just roadways.
Transportation Partnership Program (TPP)	This state grant program is funded from gas taxes. The program is administered by the Transportation Improvement Board (TIB). Grants are made on a competitive basis to cities and counties. The funds are intended to relieve urban congestion problems caused by economic development and growth. The funds can be used for new roadways or improvement of existing roadways. Preference is given to projects with multiple agency involvement (i.e. city, county, transit), which provide for economic development, and which have private property owner contributions (i.e. LID, developer contribution).
Arterial Improvement Program (AIP)	This state grant program is funded from gas taxes. The program is administered by the Transportation Improvement Board (TIB). Grants are mode on a competitive basis to cities and counties. Grants are awarded based on a ranking system based on existing deficiencies of the roadway and intersections within the project limits. Funding is based on a 20% local match.

Loans

Community Economic Revitalization Board (CERB)	This state low interest loan (and occasionally grant) program is awarded on a competitive basis. The amount of funding depends on the number of jobs to be created and is based on "if not for these funds, the economic revitalization

	will not occur." The average requirement is to create one job per $1,000 of CERB financing. The emphasis is on manufacturing and businesses that support trading of goods and services outside of the State's borders. Funding is not available to support retail shopping developments or projects that would displace existing jobs in a community of the state. Funds can be used to finance sewer, water, access roads, and bridges for a specific private sector development.
Public Works Trust Fund	This is a revolving loan fund administered by the Public Works board of the Department of Community Development. This program provides low interest loans (1-3%) for the repair and upgrade of existing public works infrastructure.

Bonds

Councilmanic Bonds	These bonds may be authorized by the City Council for specific capital improvement projects without a vote of the people. The bond debt is paid from the general funds of the city. The city is limited by State law as to the amount of Councilmanic bonds which can be issued based on the assessed value of the city.
Revenue Bonds	These bonds require a specific source of revenue such as enterprise funds, i.e. water, sewer, or stormwater. The funds are used for construction purposes.
Voter Approved General Obligation Bonds	These bonds are authorized by the voters within the jurisdiction for specific capital improvement projects. The bond debt is levied against all property within the jurisdiction and is in addition to the general property tax. These bonds require validation by having votes cast equal to 40% of the last general election and 60% affirmative vote.

Private Sources

Development/SEPA Mitigation	As part of the development process, developers may be required to pay a proportionate share of off-site impacts on parks, streets (particularly intersections), and schools.
Latecomer's Agreements	These agreements are between the city and a developer or property owner who has paid to construct an improvement that will benefit other properties. The agreement requires the city to collect form other developments a proportionate share of the cost of the improvement and to reimburse the funds to the original developer or property owner. This

	allows the developer to recover other properties if the subsequent development occurs within 15 years.
Local Improvement Districts (LID) and Utility Local Improvement District (ULID)	These are special assessment districts created to capital improvements with the costs assessed to the benefited properties. Generally, a majority of the property owners must support the formation of the LID or ULID. A formula determines the assessment to be levied on each property. LID's can be used for improvements or construction of streets while ULID's are for water and sewer.
Local Transportation Act (LTA)	State law (RCW 39.92) authorizes local governments to transportation mitigation fees to fund transportation improvements necessitated in whole or in part by economic development and growth with their respective jurisdictions. Lacey Municipal Code Chapter 14.21 establishes local transportation mitigation methods, including "direct mitigation" where transportation improvements are required to be financed and constructed as a condition of development, and "mitigation fees" collected as a result of a particular new development to pay for transportation improvements mitigating the impacts of the development.
Transportation Benefit Districts	This is a special district established to fund transportation improvements. A TBD can impose development fees, issue bonds, and form LID's. A TBD may cross jurisdictional lines with the approval of all affected agencies. The funds must be used for transportation improvements identified in the adopted transportation plans.

Taxes and Fee Revenue Sources Not Adopted Locally

Local Option Fuel Tax	State law allows a county-wide fuel tax as a local option tax subject to voter approval. The tax is equivalent to 10% of the statewide Motor Vehicle Fuel Tax and a special fuel tax of 2.3 cents per gallon. The funds would be used for general highway purposes that include capacity and non-capacity related improvements.
Metropolitan Park District	Formation requires approval of 60% of the voters. Funds can be used to finance the acquisition, construction, improvement, maintenance, or operation of any park, senior citizen activity center, zoo, aquarium or recreational facility. Counties are the governing body; however, they can opt to relinquish these powers to cities through interlocal agreements. As a junior taxing district, revenue can be generated from either the regular of excess property tax levies and, with additional voter approval, through general obligation bonds.

Property Tax “Lid Lift”	State law authorizes lifting 1.0% increase lid referenced above so that a city can increase the amount of tax collected up to the full $3.60 per $1,000 of assessed value. This requires a majority approval by voters.

Six Year Capital Facilities Plan 2015-2021

North Thurston Public Schools
No. 003

July 2015

www.nthurston.k12.wa.us

CAPITAL FACILITIES PLAN
2015-2021

North Thurston Public Schools Board of Directors

Laurie Davies, President
Chuck Namit, Vice President
Marcia Coppin
Aaron Owada
Leah Wells

Raj Manhas, Superintendent
John Bash, Deputy Superintendent

The North Thurston Public Schools Capital Facilities Plan was prepared with the help of the following individuals:

Staff
Mike Laverty, Construction and Design
Jeff Greene, Planning Consultant
Debbie Cannon, Capital Projects
Janel Helbig, Planning

The Capital Facilities Plan was adopted by the North Thurston Public Schools Board of Directors on July 28, 2015. If you have questions or would like additional information, please contact the Planning Department at 412-4424 or visit NTPS website at www.nthurston.k12.wa.us.

In 2014, our community gave us a huge hug of support when they passed a $175 million Bond measure in support of "Neighborhood School Improvements, Technology and Safety Upgrades." The 68 percent approval rating was historical and reemphasized that community counts in North Thurston Public Schools. This significant investment (along with an estimated $50 million from the state) will help provide district-wide facility upgrades, more classroom space for our growing student population, and more jobs in our community.

Specifically this investment will:

- Complete our transition to a 6-8 middle school model with a **new middle school** at 8605 Campus Glenn Dr. NE schedule to open in Fall 2016;
- Make major upgrades to **River Ridge, Evergreen Forest, Komachin, Pleasant Glade and North Thurston;**
- Create **safety, security and health upgrades**, including cameras and alarms and automatic door locks;
- Upgrade **technology** district-wide, including new computers, increased bandwidth and updated science labs
- **Improvements to all schools**, including deteriorating roofs, floors and heating systems.

This Capital Facilities Plan is a detailed road map to ensure our future success. As the largest and most diverse district in Thurston County, we remain committed to transparency, financial accountability and high expectations for our students and staff. We are committed to providing quality, safe and secure neighborhood schools for all our students with the best possible environment in which to learn and grow. As Superintendent, I will help ensure that the public is kept current on the progress of our facility projects as we aim to stay "on time and on budget" as we did with the 2006 bond measure. For ongoing updates on the projects, visit http://www.nthurston.k12.wa.us/bondconstruction.

Remember, even if you do not have students in our district, these are *your* community schools. Each year, thousands of citizens use our schools, swimming pools and athletic fields for recreation, sports and community meetings. We are proud to be a community asset for everyone in Lacey and the surrounding area.

We hope you will come visit our schools and see how public dollars are being invested in our future. Welcoming, well-maintained and safe schools are vital to providing the positive student learning environment that our entire community deserves. Accountable and collaborative planning for the future of our public school system is a responsibility we owe to our taxpayers and citizens. Thank you for your support!

Sincerely,

Raj Manhas

Raj Manhas,
Superintendent

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Fast Facts about North Thurston Public Schools

NORTH THURSTON PUBLIC SCHOOLS: About Our District

Being the largest district in the county, North Thurston Public Schools educates over 14,000 students each year, with 13 elementary schools, 4 middle schools (including a performing arts magnet school), 3 comprehensive high schools and one high school of choice.

Our District

- NTPS is Washington's 23rd largest school district, out of 295 total school districts.
- We currently serve over 14,000 students per year. Enrollment at NTPS is expected to increase to over 18,000 by the year 2035.
- One hour south of Seattle, NTPS serves Lacey and northeastern Thurston County, encompassing 74 square miles.
- Founded in 1953, NTPS is 13 years older than the City of Lacey. NTPS is the most ethnically-diverse school district in the South Sound region, serving African American, Pacific Islander, Asian, Native American, Hispanic and other populations.

STRATEGIC FRAMEWORK: A simple, practical approach to annual planning

Our approach is both wholesome and grounded in reality. The following elements guided the creation of our framework which includes several key focus areas:

- Make student learning the center of everything we do.
- Support the needs of the whole child.
- Strengthen community engagement to support student learning.
- Develop a trusting work culture through effective leadership.
- Use public resources efficiently and be accountable.

Our Students, Teachers, and Volunteers: The Heart of the District

Employment

We are proud to employ more than 1,700 staff.

NTPS also has one of the highest percentage of National Board Certified teachers in the state among larger districts. The majority of our teachers also have advanced degrees.

Scholarships

Over $11 million in college scholarships were offered last year to our graduating seniors.

Alumni

More than 100 North Thurston Public Schools staff members are also NTPS alumni.

ESL

Our English as a Second Language (ESL) program serves students who speak more than 20 different languages at home.

Volunteers

Last year, more than 2,800 parent and community volunteers gave nearly 60,000 hours of their time for student support and achievement in our classrooms.

Our Programs and Classes

- Gifted Education: NTPS offers a self-contained elementary Talented & Gifted program at Lakes Elementary (grades 3-5) and the Challenge Academy at Aspire Middle School for the Performing Arts (grades 6-8).
- Special Education: NTPS offers a continuum of services designed to help our special needs students (birth to age 21), including speech and language therapy, occupational and physical therapy, vision/hard-of-hearing and deaf education, augmentative communication services, and academic and behavioral interventions.
- Advanced Placement: Enrollment in our high school Advanced Placement classes was more than 1,600 in 2014-15, with 68 sections ranging from Physics to World History.
- Career & Technical Education students have work-based learning opportunities and have won numerous state and national awards. They may also take classes at New Market Skills Center in Tumwater or earn college credits through South Puget Sound Community College.
- Visual and Performing Arts: NTPS offers art and music instruction in grades K-12. A large percentage of secondary students also participate in our award-winning performing arts and music programs, including band, orchestra, theatre and choir.
- Activities: NTPS offers a variety of extra-curricular activities and clubs starting in elementary school, including chess, drama, chorus and Kiwanis K-Kids. Secondary clubs are diverse as well, including International, Academic Decathlon, Anime, Social Justice and even Break Dancing clubs.
- Athletics: Each year more than 3,000 secondary students participated in NTPS interscholastic athletic programs.

Our Facilities and Services

- In February 2014, citizens of North Thurston Public Schools overwhelmingly approved a $175 million dollar Neighborhood School Improvements, Technology & Safety Upgrades

Bond Measure. This includes modernizations of North Thurston, Evergreen Forest, Pleasant Glade. and a new Middle School #5 (8605 Campus Glenn Dr. NE), plus major upgrades to River Ridge and Komachin.

- NTPS buses safely transport approximately 12,660 students each day to and from school. Our mechanics have an exceptional safety record with OSPI and the Washington State Patrol keeping our Bus in perfect running order. We have several Bus Drivers that qualify for local and state honors participate in the annual Bus Drivers competition qualifying them for local and state honors.
- NTPS is Thurston County's largest food-service operation, serving approximately 2,100 breakfasts and 7,400 lunches each school day.
- All NTPS facilities - school buildings, playing fields, swimming pools - are used by a wide range of community groups almost every day of the year.

District Mission Statement

COMMITTED TO EXCELLENCE:
Providing every student the academic and life skills necessary to succeed in a diverse world.

School Board Priorities

- Make student learning the center of everything we do
- Support the needs of the whole child
- Strengthen community engagement to support student learning
- Develop a trusting work culture through effective leadership and communication
- Be efficient and accountable in the use of public resources

Portrait of a North Thurston Graduate

• Creative	• Resilient
• Critical Thinker	• Strong Communicator
• Reflective	• Self Disciplined
• Compassionate	• Globally Aware

Facilities Mission Statement

North Thurston Public Schools Facilities Department will work to develop collaborative and accountable relationships among our staff, students and the community to ensure a positive and safe learning environment. In support of the district's mission and priorities, we believe all district facilities shall be:

- Inviting, accessible and welcoming to all
- Safe, warm and dry
- Supportive of student learning and the whole child
- Sustainable, energy efficient and economical
- Available as community resources
- Technologically progressive

HISTORY OF NORTH THURSTON PUBLIC SCHOOLS

North Thurston Public Schools, encompassing the northeastern portion of Thurston County, has four high schools, four middle schools, and thirteen elementary schools housing over 14,000 students.

The district, formed in 1953 with South Bay and Lacey elementary schools, immediately made plans for construction of a high school. North Thurston High School opened in September 1955 with grades 7 through 12, and in December of that year plans were underway for construction of Mt. View Elementary school and a five room addition to South Bay Elementary School, both completed in 1957.

Lydia Hawk Elementary School opened its doors in 1959 and Chinook Middle School started classes in 1961. Construction of Lakes Elementary School relieved the space crunch when it opened in 1964. Nisqually Middle School opened in 1967, with grades six through nine included at both middle schools in an attempt to keep up with the continued growth of the district. The old Lacey school was closed to students in 1967 and converted into the district office. The new Lacey Elementary School opened in 1968 and both Olympic View Elementary School and Timberline High School opened in the fall of 1970. That year the ninth grade was included in the high schools relieving the squeeze at the middle schools.

Construction of Evergreen Forest Elementary School began in the summer of 1977 and the school opened in September 1978, and construction of Woodland Elementary School began in the summer of 1980 and the school opened in September 1981. South Bay Elementary School was remodeled and completed in the fall of 1981. Construction also began in the fall of 1981 on the new North Thurston High School, with the school opening in the spring of 1983. Construction on Meadows Elementary School began in 1985 with school opening in the fall of 1986, and construction on Pleasant Glade Elementary School began in 1986 with school opening in the fall of 1987.

A new district office facility opened in 1986. Puget Sound High School was established in the fall of 1987; a new school building for this alternative school opened in 1990. In the fall of 1990, New Century High School, a night high school located on Timberline High School's campus, and Seven Oaks Elementary School opened their doors for students. Komachin Middle School and Horizons Elementary School opened in the fall of 1992. A new concept in high schools was adopted for River Ridge High School which opened in the fall of 1993. New Century High School was relocated to this campus. In 1998, New Century High School was relocated to Puget Sound High School and in 2000 New Century and Puget Sound were combined as South Sound High School.

A new auditorium opened at North Thurston High School in 1995. Olympic View Elementary (1998), Mountain View Elementary (1999), Lakes Elementary (1998), Lydia Hawk Elementary (2000), and Lacey Elementary (2002) have undergone substantial modernization projects using proceeds of the 1991 Bond. The North Thurston High School Pool underwent modernization in

2003. The district continues with major district-wide technology improvements. The district also sold the old district office site to QFC in 1999. In 2002, the Administration Offices were upgraded, the Bower Center was renovated into a District Technology Center and the Service Center was remodeled to accommodate support service departments.

In 2006, the citizens of North Thurston Public Schools approved a 112 million dollar capital facilities bond. The replacement and modernization of Timberline High School began in the summer of 2006 and was completed in 2009. A new South Sound High School opened in 2007. The old South Sound High School facility was temporarily renamed Horizons Intermediate School and for two years housed the 5th and 6th grades of an over crowded Horizons Elementary. When the new Chambers Prairie Elementary was complete and occupied in the fall of 2009, this facility was remodeled and commissioned as Aspire Middle School for the Performing Arts. The modernization and additions to Nisqually Middle School, Woodland and South Bay Elementary Schools were completed in 2009. The modernization and addition of Chinook Middle School was completed in 2010. The district is in the process of acquiring sites for new facilities anticipated to be required within the next twenty years.

In February 2014, the citizens of North Thurston Public Schools overwhelmingly approved a $175 million dollar capital facilities bond measure. Major projects planned include the construction of a new middle school in the Hawks Prairie area, the modernization of Evergreen Forest and Pleasant Glade Elementary Schools, and additions to and modernization of North Thurston High School. District-wide facility upgrade projects include upgrades of building systems at River Ridge High School and Komachin Middle School; as well as district-wide safety, security and technology infrastructure improvements. Finally, selected improvements will be made at each and every school in the district to address deferred maintenance and/or programmatic needs.

At this juncture, the district is implementing its 2014 Bond program. The new Middle School # 5 project started in late 2014 and construction is well underway. Anticipated completion and occupancy is Fall of 2016. The modernization of Evergreen Forest Elementary started in April of 2015. Phase I of the North Thurston High School project has just broken ground. In mid-2014, the district acquired a vacant fitness center building across the street from North Thurston High School. In the fall of 2015, this acquisition will be used for temporary NTHS program space, allowing the compression of the phasing of the NTHS project, shaving a year from the original 4 year schedule. Phase I of the upgrades to the River Ridge High School project started also in June 2015. A significant programmatic change, the creation of a STEM program, has become added scope and a high priority to this project. Phase I of the upgrades to Komachin Middle School have started as well – a full upgrade to the exterior envelop of Komachin Middle School. Another district program addition is the creation of a centralized Early Childhood program, housed in 2 new 8 classroom buildings, one located at Mountain View Elementary and the other at Meadows Elementary. The Mountain View building is scheduled for September 2015 occupancy and the Meadows building is scheduled to open in January 2016. Finally, an assortment of other district wide improvement projects are also scheduled to take place over the summer of 2015.

In anticipation of a district wide K-5 and 6-8 grade configuration model in 2016, Chinook Middle School transitioned to the 6-8 grade configuration in the fall of 2013. Nisqually will followed in September of 2014. Komachin continues to offer state required and elective courses for students in grades seven and eight. Aspire, our magnet middle school for Performing arts offers courses for students 6th through 8th grades. Ten out of thirteen elementary schools: Chambers Prairie, Evergreen Forest, Horizons, Lakes, Lydia Hawk, Meadows, Mt. View, Olympic View Seven Oaks and Woodland offer basic programs in language arts, reading, mathematics and other programs for students in grades Kindergarten through 6th. Lacey, Pleasant Glade and South Bay transitioned to the K-5 grade configuration model in the fall of 2013. Evergreen Forest, Lydia Hawk, Meadows, Olympic View and Seven Oaks followed in September of 2014. Specialist in art, music and PE are provided in each elementary school. North Thurston, River Ridge, Timberline and South Sound High schools serve students in grades nine through twelve. Twenty-two credits are required for graduation with emphasis on academics, fine arts, career exploration and preparation, and physical education. Various vocational learning opportunities are offered. Special education programs and services are available to special needs students, and the district operates an educational program for hearing impaired students.

A fleet of over 100 buses transport students to and from school and traveled over 1,000,000 miles last school year.

The district serves over 1.4 million meals every year. In addition, a la carte lunches are offered at the high schools and middle schools, and breakfast is offered at all the schools.

The district employs over 1,700 employees of which 850 are teachers and has an annual budget greater than $120 million. It is the largest employer in the City of Lacey and fourth largest in Thurston County.

SIX YEAR CAPITAL FACILITIES PLAN
2015-2021

EXECUTIVE SUMMARY

The NTPS Capital Facilities Plan is a six year plan intended to be revised each year for the succeeding six years.

The Capital Facilities Plan is developed with the knowledge of the development and population implications of the City of Lacey and Thurston County Comprehensive Plans and Generalized Land Use Plans. The district is committed to planning in a manner consistent with the community's vision of its future as represented in these and other development policy documents. The district uses these long-range growth planning and demographic tools to determine and respond to the future facility needs for students within its boundaries. Long-range plans and acquisitions of sites to meet those long-range plans are required to allow appropriate time for prudent facility construction and financial planning.

The plan assesses the ability of district facilities to assist in the delivery of the educational program adopted by the district. Capacity is reviewed and modified periodically as the district revises programs, policies, staffing formulas, schedules and as facilities are modified. The plan projects future enrollments in order to evaluate the demand for future facilities.

State funding formulas have a significant impact on capacity. Currently the state is considering funding all day kindergarten. If funded, this will also change the capacity calculation significantly.

The Six Year Finance Plan addresses the type of facilities required, and the timing of providing those facilities. The plan is constructed in order to minimize long term costs to the district and tax rates for its citizens, as well as to maximize state funding assistance and meet enrollment and program demands.

In addition to state and local funding, consistent with Board Policy 9220 and other board planning policies, the district negotiates Voluntary Mitigation Agreements with residential developers. The funds paid under these agreements are used to pay for (1) projects reasonably related to and benefiting the new housing development, (2) projects necessary to provide adequate schools or school grounds to serve such new residential housing, or (3) projects reasonably necessary to mitigate potentially significant impacts of such new housing development on the district's educational facilities and programs. The district is committed to acquiring appropriate residential mitigation from developers, including dedication of future school sites, at the time of plat/subdivision or SEPA approval consistent with its evaluation of the ultimate build-out of the district.

A 2006 capital facilities bond approved by the citizens of North Thurston Public Schools funded modernization and additions to Timberline High School completed in 2009, new Chambers Prairie Elementary School opened in 2009, and new South Sound High School opened in 2007. The old South Sound High School was recommissioned as Aspire Middle School and opened in the fall of 2009. Modernizations and additions to South Bay and Woodland Elementary Schools were completed in 2009. Modernization and additions to Nisqually Middle School were completed in 2009 and modernization and additions to Chinook Middle School were completed in 2010. Many smaller district projects were also completed using these funds.

The district continues to improve its facilities utilizing available resources. Asset Preservation thru Infrastructure Maintenance is an ongoing program to protect the public investment of tax dollars in North Thurston Public School facilities. To fund the planned and predicted maintenance or upgrade of critical building systems, as well as the ability to respond to "emergent needs", requires the regular public support of bonds and levies.

In February 2014, the citizens of North Thurston Public Schools overwhelmingly approved a $175 million dollar capital facilities bond measure. NTPS will be able to continue its plan to build, modernize, upgrade and maintain district facilities. The modernization of Evergreen Forest and Pleasant Glade Elementary Schools and North Thurston High School is being planned as well as upgrades to River Ridge High School and Komachin Middle School.

During the six years covered by this plan, the district anticipates that enrollment growth will require new facilities to meet increased capacity demands. Based on current growth projections, a new middle school will be added in the Hawks Prairie area. The district is also planning to reconfigure to K-5 elementary schools, 6-8 middle schools and 9-12 high schools within the next six years, which will provide additional capacity at the elementary level. Finally, in response to age and condition, and in keeping with state Construction Assistance Program criteria, up to three existing NTPS facilities are planned for modernization within the same time frame. Further, because these plans are based upon estimates and projections, the district anticipates the need to and will continue to evaluate, update, and revise its plans annually. To meet capacity gaps at locations with particular demand, the district will utilize portable facilities until such time as it is able to replace those temporary facilities with permanent facilities that enable the district to fully utilize the space for its educational programming purposes. As necessary, the district will also reconsider other programming or planning alternatives to meet student needs.

I. SUMMARY

Purpose of the Capital Facilities Plan

This Capital Facilities Plan (CFP) is a six year rolling plan. It is intended to be revised each year for the succeeding six years, using the best available information. It provides the District, the City of Lacey, Thurston County, the State of Washington, other jurisdictions, and the community with a description of facilities which will be needed to accommodate projected student enrollment at acceptable levels of service over the next 20 years, and a more detailed schedule and financing program for capital improvements over the next six years (2015-2021). This CFP has been prepared by North Thurston Public Schools with the input of citizens and staff members. This plan was prepared based upon enrollment information available in October 2014. This plan is consistent with current North Thurston Public Schools policies and procedures. The plan addresses the anticipated capital facility needs through the 2020 school year.

In accordance with the Growth Management Act, this CFP contains the following required elements:

- An inventory of existing capital facilities owned by NTPS, showing the locations and capacities of the facilities;
- A forecast of the future needs/demand (i.e., student enrollment) for capital facilities owned by NTPS;
- The proposed capacities of expanded or new capital facilities; and
- A six-year plan for financing capital facilities within projected funding capacities, which clearly identifies sources of public money for such purposes.

This CFP also identifies (a) deficiencies in school facilities serving existing development, and the means by which existing deficiencies will be eliminated within a reasonable period of time and (b) additional school facilities required to serve new development.

North Thurston Public Schools bases its enrollment projections on data from the OSPI as well as growth projections from Thurston Regional Planning Council, state and national census and demographic data. Because school facilities are capital facilities included within coordinated growth planning under the Growth Management Act, the district will provide this CFP to local jurisdictions within the district's boundaries. The district periodically reviews its capacity to house projected student enrollment. Where appropriate, it adjusts its school attendance boundaries in order to match student capacity with projected enrollment.

This plan consists of a summary of existing school buildings (building and site sizes, and addresses), capacity of existing facilities, a list of potential capital projects and a six year finance plan for capital projects. The list of potential capital projects includes site acquisition, new construction, modernization, preservation of existing facilities through the major repair and

upgrade of critical building systems, temporary facilities, and other site modifications as well as a rough estimate of the potential cost for each item.

Overview of North Thurston Public Schools

North Thurston Public Schools is located in Thurston County, Washington. It is bordered by the Nisqually River and Pierce County line on the east and Puget Sound on the north. It encompasses nearly all of the City of Lacey Urban Growth Area, portions of the City of Olympia and portions of unincorporated Thurston County on the north, east and south borders, serving both urban and rural areas.

Based upon October 2014 enrollment data, North Thurston Public Schools serves a student population of over 14,500, with 13 elementary schools, three middle schools, one small special focus middle school, three comprehensive high schools and one smaller high school of choice. The elementary schools primarily provide educational programs for students in kindergarten through grade six. Komachin Middle School serve grades seven and eight while Chinook and Nisqually Middle Schools has transitioned to a sixth through eighth grade model. High schools offer educational programming for students in grades nine through twelve.

The district intends to reconfigure grades during the six years covered by this plan. Elementary schools will serve grades K-5 and middle schools will serve grades 6-8 and high schools 9-12.

If the state provides funding for all day kindergarten, this grade reconfiguration will help provide capacity at the elementary grade level to house the additional program.

Significant Issues Related to Facility Planning for North Thurston Public Schools

The enrollment projections prepared by North Thurston Public Schools indicate significant increases in the enrollment of NTPS in the next twenty (20) years. Increases in enrollment are projected at all grade levels within the next six (6) years.

There is currently plans at the state level to increase the requirements for all day kindergarten and more extensive pre-school. These initiatives, if implemented, will significantly increase the need for additional elementary school facilities.

North Thurston Public Schools currently projects that enrollment increases will require construction of at least one new elementary school, and two new middle schools and additional high school capacity within the next twenty years. This new construction will maintain the current educational program and the planned reconfiguration to a K-5, 6-8, 9-12 structure.

The district is committed to constructing neighborhood schools for elementary schools. This policy supports City of Lacey land use policies.

The district is committed to maximizing the opportunity for students to walk to school. This policy supports Thurston County development requirements.

In cooperation with the City of Lacey, land use policies have been established that plan additional elementary school sites as part of residential developments and/or village centers.

Acquisition of new school sites in advance of enrollment needs is critical to preparing the school district to meet the challenge of increasing enrollment. Since it is uncertain how or when land will ultimately be developed or how the district may deliver services in the future, the district anticipates that it may acquire more sites than the minimum supported by enrollment projections. The district currently owns six potential elementary school sites, four potential middle school sites and one potential high school site. However, as growth occurs and both development regulations and educational programming are modified over time, these sites may not ultimately be suitable for development at the time when construction is needed. Sites that become unsuitable for development may later be surplused or exchanged for sites more suitable or in different geographic locations.

To address existing facility deficiencies, the district plans to continue its program of preventive maintenance and building system upgrade, a.k.a. the Asset Preservation Program (APP). The district has also pursued a program of building modernization (funded by the 1991 and 2006 bond issues and matching funds provided by the State Construction Assistance Program). The district has regularly improved facilities, responding to new programs, technology changes and safety concerns using the capital funds generated by bond measures and state assistance, and will continue to do so, with the proceeds of the successful 2014 Bond measure.

Enrollment changes due to residential development have led the district to make use of temporary facilities and to review school attendance boundaries periodically. The district believes that the potential to adjust enrollment through future changes in contiguous boundaries is limited. Future reliance on more extensive bussing is a more likely scenario, creating increased needs for additions to the district's bus fleet. Voluntary mitigation agreements may be used to address such impacts of new development.

Assumptions

This plan will help guide the modernization and maintenance of existing facilities as well as the development of new facilities. The following assumptions were used in developing this CFP:

1. The district will continue to seek state and federal money to the maximum extent available to supplement its own financial resources (See Policies 9100 and 9220).

2. The state will fund new facilities using the following space allowance:

Grades K-6	90 square feet per pupil
Grades 7-8	117 square feet per pupil
Grades 9-12	130 square feet per pupil
Classrooms for students with disabilities	144 square feet per pupil

(See WAC 392-343-035)

3. School design and planning capacity shall be:

Elementary School	- 550 + special education space
Middle School	- 750 + special education space
High School	- 1250 + special education space

(See Policy 9100)

4. The Board will continue to provide educational services through temporary facilities or rental of facilities as a transitional space to accommodate shifting enrollment (See Policy 9112).

5. The district will attempt to acquire building sites in advance of construction needs (See Policy 9210).

6. The district will continue to maintain the district's facilities (See Policy 9300).

7. Budget recommendations shall be made each year to repair, maintain and recondition facilities as warranted to operate facilities in a safe and healthful condition (See Policy 9300).

8. To receive approval from OSPI for new facilities the district will attempt to comply with all applicable statues and regulations.

9. The minimum acreage per school site will be 5 usable acres plus one usable acre for each 100 students, plus an added 5 usable acres if the school includes any grade above grade 6. (See WAC 392-342-020). The district ultimately determines the size of site necessary to facilitate the educational program that the district chooses to site at a certain location, applying the site evaluation criteria set forth in the OSPI School Facilities Manual. Given the district's educational programming standards, the average site acreages by school type are: 12 acres for elementary schools; 20 acres for middle schools; and 40 acres for high schools.

10. New sites will not be accepted if the attendance policies for the new site will create a racial imbalance within the district (See WAC 392-342-025).

11. Sites will be accepted only if all local health, zoning, building and other regulations may be met.

12. The district determines educational program standards in accordance with adopted policies, other relevant factors, and is not constrained by the state-rated capacity. Primary determinants of capacity are building configuration and classroom enrollment policies (policy or teacher contracts), and educational programs.

13. The district believes that reasonable residential mitigation fees voluntarily made by developers of new residential housing in accordance with legal requirements are an appropriate source of funds for (1) projects reasonably related to and benefiting the new housing development, (2) projects necessary to provide adequate schools or school grounds to serve such new residential housing, or (3) projects reasonably necessary to mitigate potentially significant impacts of such new housing development on the district's educational facilities and programs. The district seeks such residential mitigation fees from all residential developers whose projects are anticipated to add students within the district's boundaries (See Policy 9220).

14. This plan assumes that all district school buildings will be maintained in good repair.

14. As portions of the district's Strategic Plan are implemented, the district's policies and procedures may be amended. As a result, changes may be made to this list of assumptions and to this plan.

16. The draft revised plan will be reviewed by the Board during a public meeting and will be adopted or approved by the Board.

II. STUDENT ENROLLMENT TRENDS AND PROJECTIONS

Historic Enrollment Trends

The school district has reviewed historical enrollment trends. Since 1973, district enrollment has fluctuated between periods of no enrollment growth and periods of rapid enrollment growth. The overall trend has been up as total district enrollment has doubled in forty years. District enrollment declined between 1973-1975 before growing about 20% between 1976 and 1981. Enrollment declined again between 1981 and 1983 before growing about 50% between 1983 and 1993. Enrollment declined slightly between 1993 and 2001. Since 2001 enrollment has been growing. The district projects that enrollment will continue to increase until the late 2020's (see Chart 1).

Recent Enrollment Trends

Elementary enrollment began increasing in 2002, and the increase became apparent in 2004. Strong residential development in 2005 through 2007 reinforced the gains in elementary enrollment. The economic collapse of late 2008 severely reduced the amount of residential development, but district enrollment continued to increase. Residential development is projected to increase and to stay elevated over the next fifteen years. The district believes that the increased rate of residential development will result in an accelerated rate of increase in district enrollment. Enrollment increases in the elementary grades will be followed by increased enrollment in the middle and high school grades through the late 2020's. The growth is consistent with the projected growth of the student aged population state-wide due to the echo of the baby-boom population (OFM Research Paper No. 30).

The regions of the district projected to have the greatest increases in residential development are those areas where the district anticipates the greatest increases in student enrollment (see chart of Residential Units per 5 YR by Elementary School Boundary and map of Lacey and Urban growth Area Residential Developments since 2005).

Projected Student Enrollment

All forecasting is based on the assumption that past trends predict future trends. The shorter the forecast, the more likely that underlying assumption is accurate. Since 2002, the enrollment modeling utilized by North Thurston Public Schools has consistently projected increases in district.

OSPI 2015-2021 Student Enrollment Projection

OSPI generates enrollment projections for each school district in the state using a six-year forecast period. The state office uses the cohort survival methodology to project student

enrollment for grades 1-12. Kindergarten enrollment is projected using a linear regression analysis of actual kindergarten enrollment over the previous six years. This methodology assumes that enrollment trends which have occurred over the previous six years will continue through the next six years. OSPI updates these projections annually. Due to the incorporation of Wa He Lut Indian School enrollment in North Thurston Public Schools reports in 2011, the OSPI projection is distorted. We have removed the new data and run a "modified" OSPI projection. Based on the modified OSPI enrollment projection, a total of 2,643 (headcount) students would be expected to be added to the district by the year 2020, an increase of approximately 18.2% over October 2014 enrollment levels. The OSPI student enrollment projections by grade level for the six-year forecast period (2014-2020) are provided in Table 1. OSPI's projections are significant because they are one of the factors in determining eligibility for state matching funds.

NTPS Student Enrollment Projection

The enrollment projection model adopted by North Thurston Public Schools is different from that utilized by OSPI. The district has adopted a model to forecast enrollment.

The NTPS model uses the same October headcount data utilized by OSPI, but the NTPS model also utilizes residential construction data, information about probability of students in residences from study of recent NTPS records and a statistical study of national demographic (census) data, average family size data from TRPC, birth rates assumptions from analysis of Washington State population data, and population projections provided by Office of Financial Management (OFM) and TRPC to create a student enrollment projection that is consistent with the planning projections with which the district is required to plan. NTPS tests and calibrates its model with census data (1990, and 2000), updates from TRPC and OFM, and other demographic information as it becomes available. It is adjusted to correspond to the OSPI projections for the next six years.

Charts 2 and 2A and the associated Tables 2 and 2A present the district's projection.

The NTPS model projects additional 2,991 (headcount) students, a 20.6% growth in school enrollment between October 2014 and October 2021. (See Table for Chart 2).

A moderate rate of residential construction over the next few years is projected to increase enrollment at all grade levels. Beyond the year 2021, enrollment growth is projected to increase moderately for the next 20 years, even if new construction rates decline. (See Chart 2A and Table 2A).

A comparison of the total enrollment projections derived using the forecast methodologies discussed above is provided in Table 3.

Table 3
Comparison of Student Enrollment Projections
North Thurston Public Schools 2014-2021

Projection		2014	2015	2016	2017	2018	2019	2020	2021	Actual Change '14-'21	Percent Change '14-'21
OSPI		14,511	14,621	15,103	15,576	16,079	16,569	17,154		2,643	18.2%
NTPS		14,511	14,621	15,103	15,576	16,079	16,569	17,154	17,502	2,991	20.6%

The district's enrollment projection will be used in evaluating near term (six-year) facility needs as part of this CFP. Based on the district's model, student headcount enrollment is projected to increase by 1,657 students at the elementary grade level (K-5), 736 students at middle school (6-8) and 598 students at high school (9-12). Projected student FTE enrollment by grade span based on the district's model is provided in Table 4. Grade spans have been reconfigured to K-5, 6-8, 9-12 for this table.

Table 4
Projected Student Headcount Enrollment by Grade Span
North Thurston Public Schools 2014-2021

Grade Span	2014	2015	2016	2017	2018	2019	2020	2021
Elementary (K-5)	6869	6993	7304	7655	7857	8142	8402	8526
Middle School (6-8)	3304	3303	3462	3461	3681	3807	3991	4040
High School (9-12)	4338	4325	4338	4459	4541	4620	4762	4936
	14,511	14,621	15,103	15,576	16,079	16,569	17,154	17,502

Projected Student Enrollment 2015-2035

Twenty-year student enrollment projections are used by the district in determining its long-range (twenty-year) facility plan.

Student enrollment projections for the year 2035 are based on the NTPS enrollment model. This information is provided in Chart 2A. The total enrollment estimate, using twenty-year population projections provided by TRPC, is broken down by grade span to evaluate long-term site acquisition needs for elementary, middle, and high school facilities. Projected enrollment by grade span for the year 2022, 2028 and 2035 is provided in Table 5. Grade spans have been reconfigured to K-5, 6-8, 9-12 for this table.

Table 5
North Thurston Public Schools
Year 2022, 2028 and 2035 Projected Headcount Enrollment by Grade Span
(Grade Spans are reconfigured)

Grade Span	Projected Student Enrollment			
	2014	2022	2028	2035
Elementary (K-5)	6869	8629	8627	8390
Middle School (6-8)	3304	4182	4548	4368
High School (9-12)	4338	5090	5927	6017
District Total (K-12)	14,511	17,902	19,102	18,775

Based on the population projections prepared by TRPC, with grade reconfiguration, NTPS estimates that it will construct at least one new elementary school in the next 20 years, two new middle schools and a new high school or additional high school capacity.

If the district adopts a full day kindergarten, approximately two additional kindergarten rooms will be required at each elementary school or the capacity equivalent of two additional elementary schools will have to be provided. Grade re-configuration provides sufficient capacity to house the additional FTE student count initially, deferring the need for an additional elementary school until the early 2020's. Housing the additional kindergarten load may require modernization of existing facilities to provide for the program requirements of kindergarten students.

NTPS studies the number of students residing in new residential developments. That information is provided in Table 6. TRPC projections of average people per residence are used to convert the projected population to residential construction, and that residential construction as input to the enrollment model. A map of Lacey and UGA Residential Developments are used to guide property acquisitions. (Map 1)

This CFP is consistent with the County's allocation of planned urban and rural growth based on OFM's 20-year projections. Based on the OFM-projected population growth to be allocated to the area served by the district under Thurston County's comprehensive plan for the succeeding twenty-year period, the district will serve the educational needs of children in such developments by a combination of both existing and additional new facilities (including use of portables to meet temporary needs and construction of new or expanded facilities to meet permanent educational programming needs).

Use of Student Enrollment Projections for Capital Facilities Planning

The district's enrollment projections summarized in this section are used to evaluate future school capacity needs. Analysis of future facility and capacity needs is provided in Sections IV-VIII of this Capital Facilities Plan.

Ethnicity and Race Enrollment Trends

Recently, the number of ethnicity and race classifications has been expanded. There are currently 9 classifications for Hispanic subpopulations, 16 classifications for Asian, and 9 for Pacific Islander and 31 for American Indian. Within a few years our discussion of subpopulations may be revised considerably.

During the period covered by this plan, we anticipate continued increase in the number of categories by which we identify ourselves.

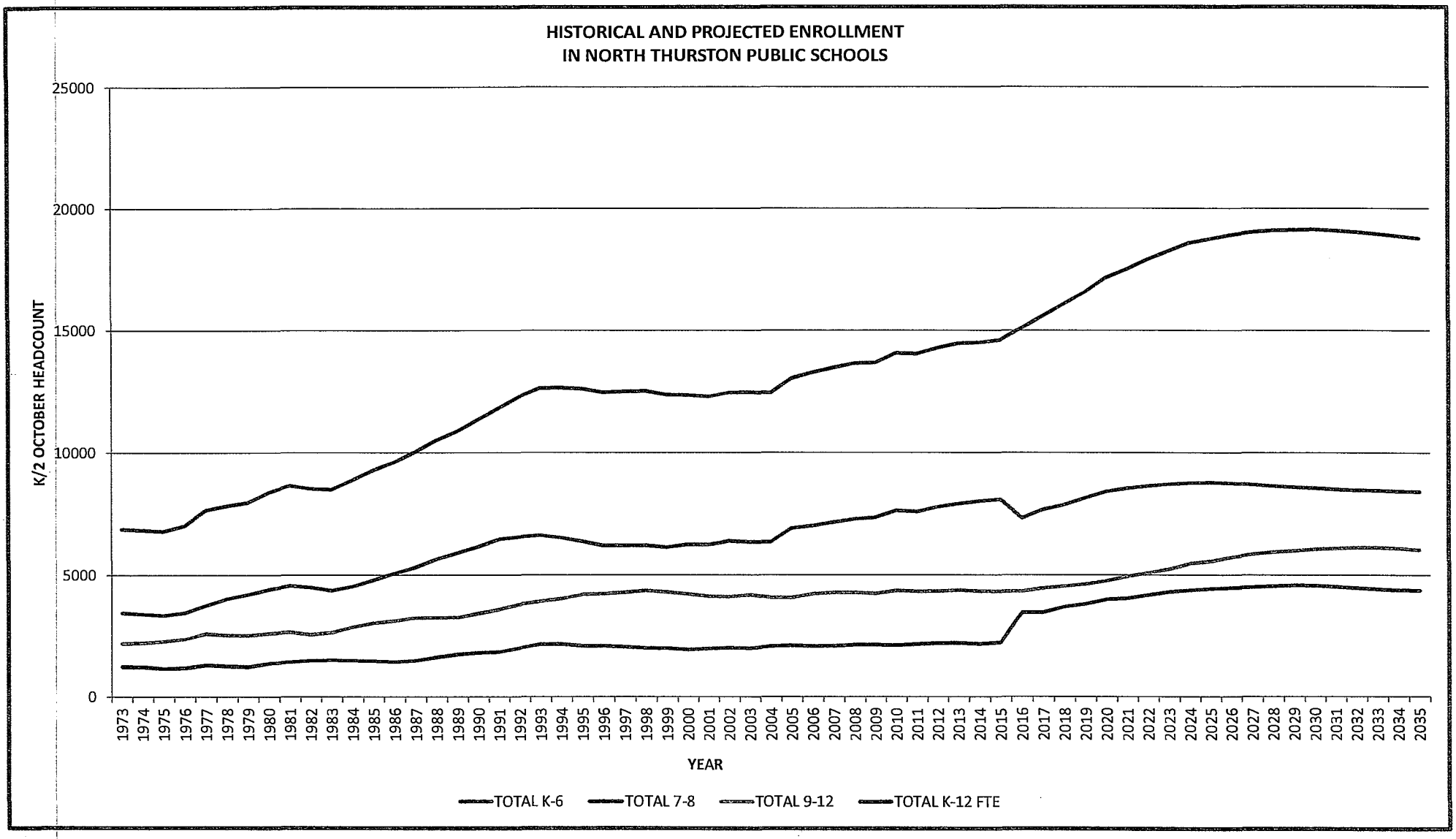

HISTORICAL AND PROJECTED ENROLLMENT
IN NORTH THURSTON PUBLIC SCHOOLS
K/2 OCTOBER HEADCOUNT
25000
20000
15000
10000
5000
0
YEAR
TOTAL K-6
TOTAL 7-8
TOTAL 9-12
TOTAL K-12 FTE

TABLE 1

NORTH THURSTON PUBLIC SCHOOLS

DETERMINATION OF PROJECTED ENROLLMENT BY COHORT SURVIVAL

WITHOUT WA HE LUT

ACTUAL FTE ENROLLMENT ON OCTOBER 1

PREPARED MAY 14, 2015

GreeneGasaway

	2009	2010	2011	2012	2013	2014	SURVIVAL	2015	2016	2017	2018	2019	2020
KINDERGARTEN	995	1083	1096	1186	1146	1141	1.028895	1183	1232	1268	1308	1345	1371
GRADE 1	1085	1065	1057	1142	1251	1159	1.030893	1170	1253	1302	1338	1378	1414
GRADE 2	969	1136	1066	1098	1119	1255	1.013958	1167	1217	1299	1347	1382	1421
GRADE 3	1117	1010	1133	1079	1117	1094	1.009366	1258	1206	1255	1336	1383	1417
GRADE 4	1053	1139	999	1131	1095	1128	1.006343	1097	1288	1236	1284	1364	1410
GRADE 5	1085	1076	1129	1016	1141	1092	1.007236	1118	1107	1295	1244	1291	1369
TOTAL K-5	6304	6509	6480	6652	6869	6869		6993	7304	7655	7857	8142	8402
TOTAL K-5 FTE	5807	5968	5932	6059	6296	6299		6401	6687	7021	7203	7470	7717
TOTAL 1-5	5309	5426	5384	5466	5723	5728		5810	6071	6387	6549	6797	7031
GRADE 6	1023	1104	1088	1115	1021	1134	1.003010	1083	1128	1117	1301	1251	1297
TOTAL K-6	7327	7613	7568	7767	7890	8003		8076	8432	8773	9158	9393	9699
TOTAL K-6 FTE	6830	7072	7020	7174	7317	7433		7484	7816	8139	8504	8721	9014
TOTAL 1-6	6332	6530	6472	6581	6744	6862		6893	7200	7505	7850	8049	8328
GRADE 7	1057	1048	1097	1087	1104	1033	1.003813	1170	1135	1181	1170	1357	1306
GRADE 8	1071	1064	1062	1103	1105	1137	1.014380	1051	1198	1163	1210	1198	1387
TOTAL 6-8	3151	3216	3247	3305	3230	3304		3303	3462	3461	3681	3807	3991
TOTAL 7-8	2128	2112	2159	2190	2209	2170		2221	2333	2344	2380	2555	2693
GRADE 9	1068	1121	1099	1089	1120	1102	1.023540	1143	1067	1215	1179	1226	1214
TOTAL 7-9	3196	3233	3258	3279	3329	3272		3364	3400	3559	3559	3781	3908
GRADE 10	1062	1076	1113	1085	1084	1096	0.992319	1094	1140	1064	1211	1175	1222
GRADE 11	1040	1044	1040	1076	1071	1025	0.969804	1058	1063	1107	1035	1175	1141
GRADE 12	1070	1117	1072	1086	1103	1115	1.042253	1029	1067	1073	1117	1044	1185
TOTAL 9-12	4240	4358	4324	4336	4378	4338		4325	4338	4459	4541	4620	4762
TOTAL 10-12	3172	3237	3225	3247	3258	3236		3181	3271	3245	3362	3394	3547
TOTAL K-12	13695	14083	14051	14293	14477	14511		14621	15103	15576	16079	16569	17154
TOTAL K-12 FTE	13198	13542	13503	13700	13904	13941		14029	14487	14942	15425	15896	16469
TOTAL 1-12	12700	13000	12955	13107	13331	13370		13438	13871	14308	14771	15224	15783

TABLE FOR CHART 2

GRADES RECONFIGURED TO K-5, 6-8, 9-12 AFTER 2016

WITHOUT WA HE LUT

YEAR	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
KINDERGARTEN	995	1083	1096	1186	1146	1141	1183	1232	1268	1308	1345	1371	1397	1413	1405
GRADE 1	1085	1065	1057	1142	1251	1159	1170	1253	1302	1338	1378	1414	1420	1446	1462
GRADE 2	969	1136	1066	1098	1119	1255	1167	1217	1299	1347	1382	1421	1437	1443	1469
GRADE 3	1117	1010	1133	1079	1117	1094	1258	1206	1255	1336	1383	1417	1436	1454	1460
GRADE 4	1053	1139	999	1131	1095	1128	1097	1288	1236	1284	1364	1410	1429	1450	1465
GRADE 5	1085	1076	1129	1016	1141	1092	1118	1107	1295	1244	1291	1369	1405	1423	1443
GRADE 6	1023	1104	1088	1115	1021	1134	1083	1128	1117	1301	1251	1297	1363	1399	1416
GRADE 7	1057	1048	1097	1087	1104	1033	1170	1135	1181	1170	1357	1306	1345	1413	1449
GRADE 8	1071	1064	1062	1103	1105	1137	1051	1198	1163	1210	1198	1387	1331	1371	1439
GRADE 9	1068	1121	1099	1089	1120	1102	1143	1067	1215	1179	1226	1214	1398	1342	1382
GRADE 10	1062	1076	1113	1085	1084	1096	1094	1140	1064	1211	1175	1222	1208	1390	1334
GRADE 11	1040	1044	1040	1076	1071	1025	1058	1063	1107	1035	1175	1141	1182	1169	1344
GRADE 12	1070	1117	1072	1086	1103	1115	1029	1067	1073	1117	1044	1185	1148	1189	1176
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
K-6 ELEMENTARY	7327	7613	7568	7767	7890	8003	8076	7304	7655	7857	8142	8402	8526	8629	8704
7-8 MIDDLE	2128	2112	2159	2190	2209	2170	2221	3462	3461	3681	3807	3991	4040	4182	4304
9-12 HIGH	4240	4358	4324	4336	4378	4338	4325	4338	4459	4541	4620	4762	4936	5090	5236
TOTAL HEADCOUNT	13695	14083	14051	14293	14477	14511	14621	15103	15576	16079	16569	17154	17502	17902	18244

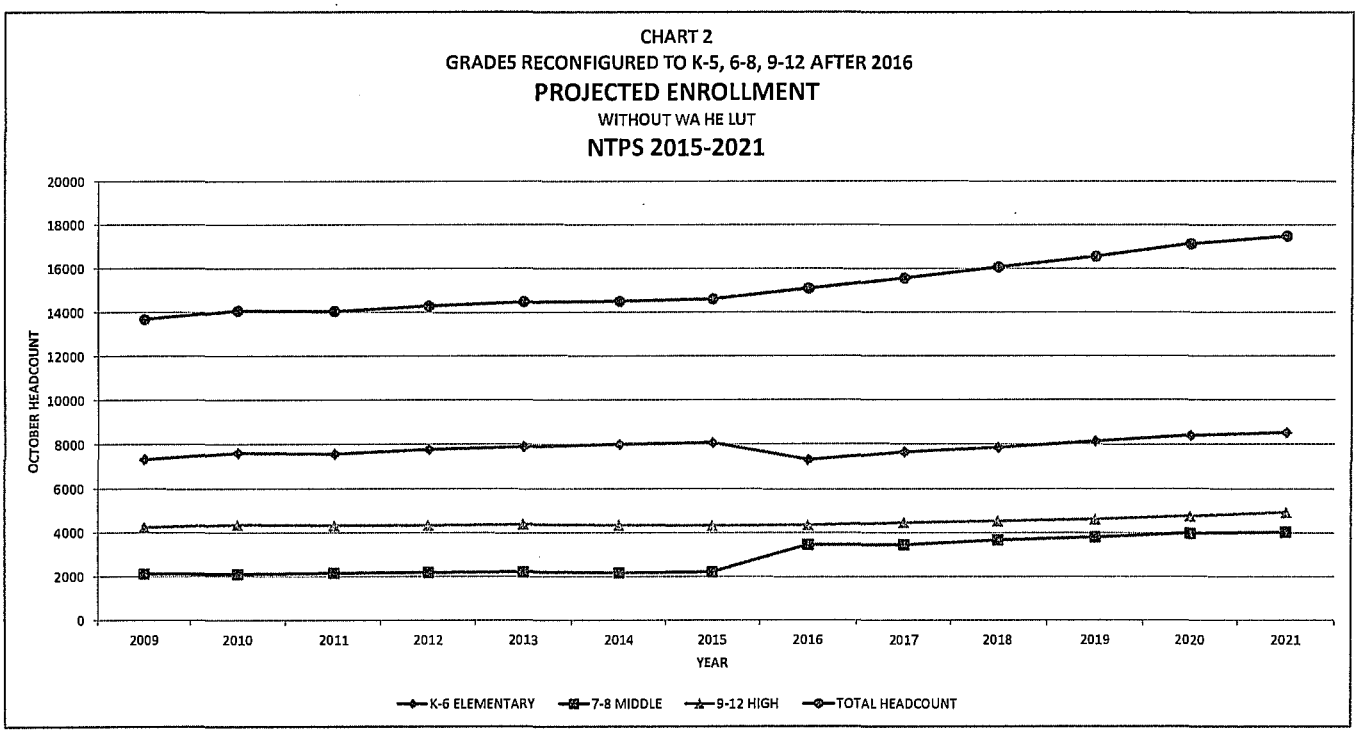
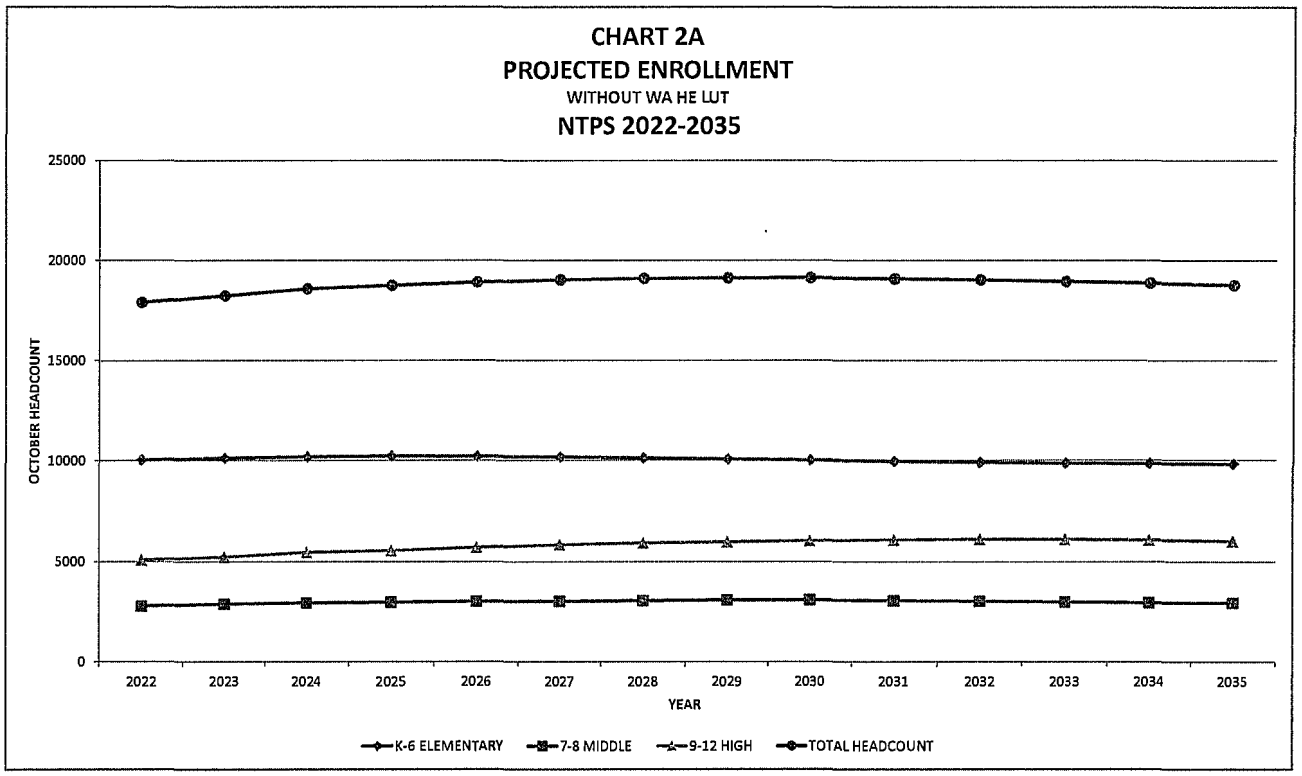


TABLE FOR CHART 2A
GRADES RECONFIGURED TO K-5, 6-8, 9-12
WITHOUT WA HE LUT

YEAR	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
KINDERGARTEN	1413	1405	1395	1384	1366	1357	1359	1360	1361	1355	1351	1348	1345	1342
GRADE 1	1446	1462	1454	1444	1429	1412	1402	1404	1405	1400	1395	1390	1388	1385
GRADE 2	1443	1469	1484	1476	1463	1448	1431	1422	1424	1420	1415	1409	1405	1403
GRADE 3	1454	1460	1485	1501	1489	1476	1462	1445	1436	1433	1430	1425	1420	1415
GRADE 4	1450	1465	1471	1496	1509	1498	1485	1470	1454	1441	1439	1435	1431	1425
GRADE 5	1423	1443	1459	1464	1487	1499	1488	1476	1462	1443	1431	1428	1425	1420
GRADE 6	1399	1416	1436	1451	1455	1478	1490	1479	1466	1450	1432	1420	1418	1414
GRADE 7	1413	1449	1467	1487	1501	1505	1528	1540	1529	1513	1497	1478	1466	1463
GRADE 8	1371	1439	1475	1494	1513	1527	1531	1554	1566	1554	1538	1522	1503	1490
GRADE 9	1342	1382	1450	1486	1504	1524	1537	1541	1564	1575	1563	1547	1531	1512
GRADE 10	1390	1334	1374	1441	1477	1494	1513	1527	1531	1553	1564	1552	1536	1520
GRADE 11	1169	1344	1291	1328	1392	1426	1443	1462	1475	1477	1499	1509	1497	1482
GRADE 12	1189	1176	1351	1298	1335	1399	1433	1450	1468	1480	1483	1504	1515	1503
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
K-5 ELEMENTARY	8629	8704	8748	8765	8743	8690	8627	8577	8541	8493	8460	8437	8414	8390
6-8 MIDDLE	4182	4304	4379	4432	4469	4509	4548	4573	4562	4518	4467	4419	4386	4368
9-12 HIGH	5090	5236	5465	5553	5707	5843	5927	5979	6038	6086	6108	6112	6079	6017
TOTAL HEADCOUNT	17902	18244	18592	18750	18920	19042	19102	19129	19141	19097	19035	18969	18878	18775



Lacey and Urban Growth Area Residential Developments Since 2005

11,528 Total Units

Updated 6/3/2014

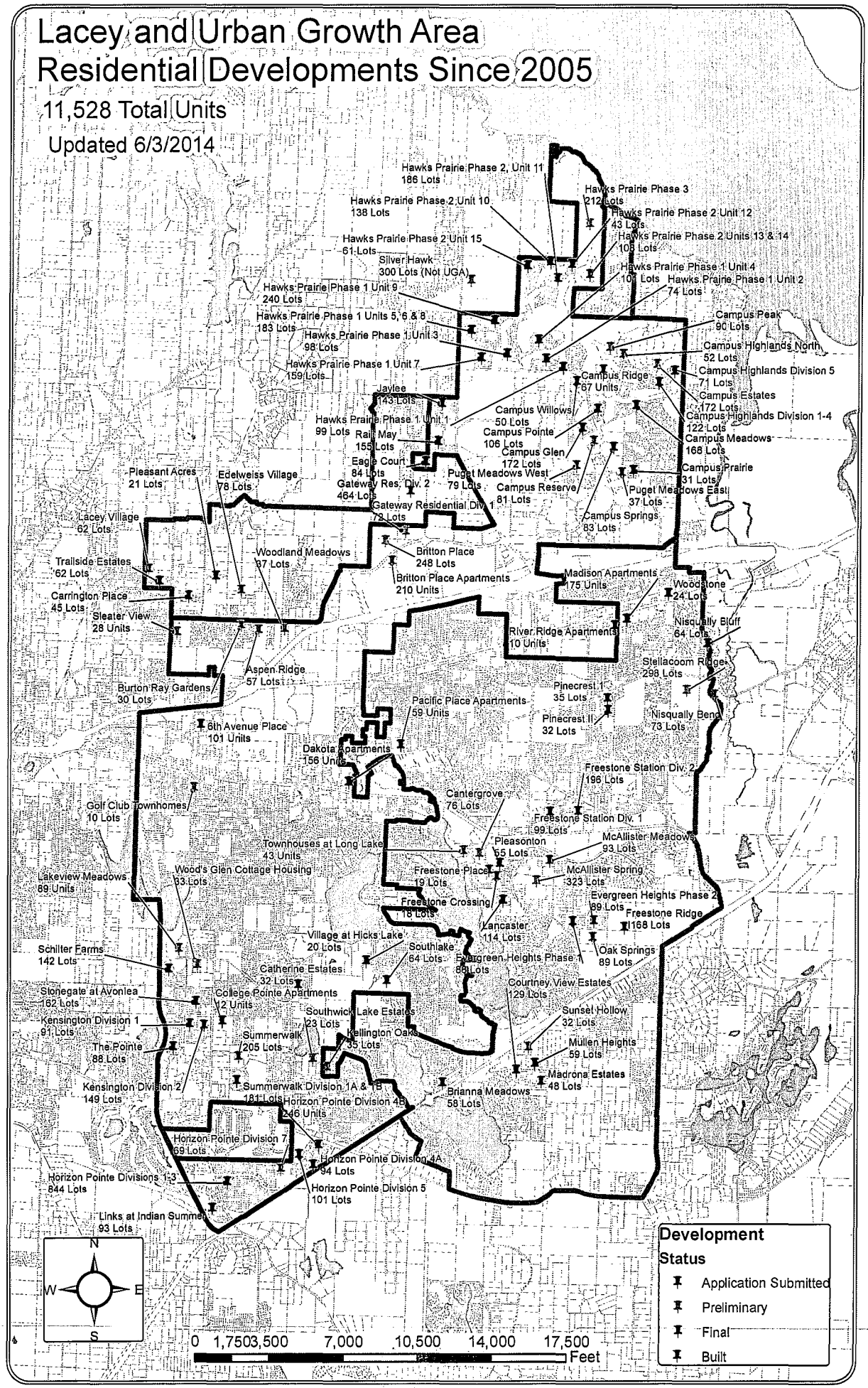
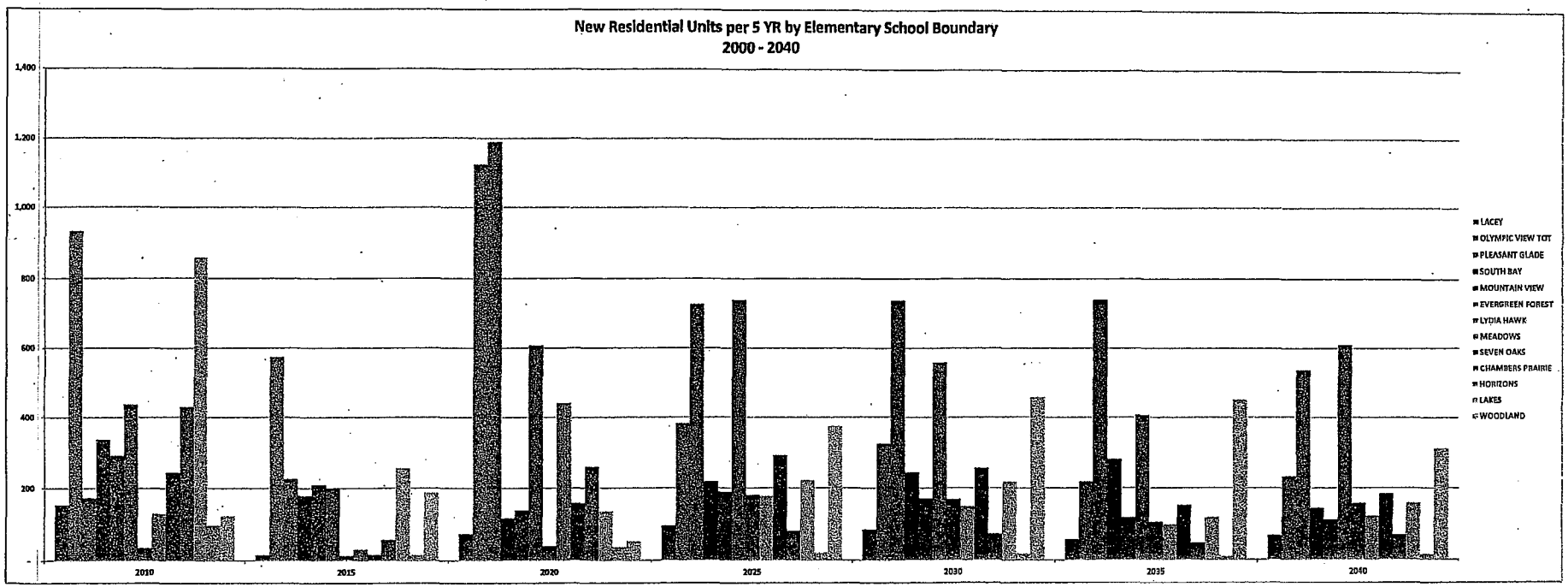


Table 6


New Residential Units per 5 YR by Elementary School Boundary
2000 - 2040
1,400
1,200
1,000
800
600
400
200
-
2010
2015
2020
2025
2030
2035
2040
LACEY
OLYMPIC VIEW TOT
PLEASANT GLADE
SOUTH BAY
MOUNTAIN VIEW
EVERGREEN FOREST
LYDIA HAWK
MEADOWS
SEVEN OAKS
CHAMBERS PRAIRIE
HORIZONS
LAKES
WOODLAND

III. DISTRICT EDUCATIONAL PROGRAM STANDARDS

School facility and student capacity needs are determined by the types and amounts of space required to accommodate the district's adopted educational programs. The educational program standards established by North Thurston Public Schools include grade configuration, optimum facility size, class size, educational program offerings, as well as classroom utilization and scheduling requirements and use of temporary facilities (portables). These standards are established through the instructional plan adopted by the district, the school calendar/schedule, teachers' contracts, and organizational structure. These programs or structures are subject to change by the district to adjust for changes in the program year, special programs, class sizes, use of technology, and other physical aspects of school facilities. The district will periodically review its school capacity inventory and adjust for changes to the educational program standards.

Although North Thurston Public Schools continues to study alternate organizations, calendars and schedules, the North Thurston Public Schools believes the adopted organization is educationally sound and reflects community values. If alternate organizations, calendars or schedules are adopted, the district would revise the capacity calculations.

Grade Configuration

North Thurston Public Schools has adopted an organization that houses kindergarten through sixth grade in elementary schools, seventh and eighth grades in middle schools, and ninth through twelfth grades in high schools.

The district is planning to change the grade configuration to K-5 elementary schools and 6-8 middle schools within the period covered by this plan.

School Schedule/Calendar

North Thurston Public Schools has adopted a traditional calendar beginning in early September and completing in mid June. North Thurston Public Schools has adopted a traditional daily schedule with academic classes beginning between 7:30 a.m. and 9:30 a.m. and completing mid-afternoon.

Class Size

North Thurston Public Schools has class size maximums of 25 for preschool classes, 25 students for grades K-3, 30 students for grades 4-6 and 34 students in grades 7-12. District-wide average class sizes at all grade levels are lower than the maximum class sizes noted.

North Thurston Public Schools has temporarily suspended lower class size goals due to reduced state funding. In addition, this plan anticipates that full day kindergarten will not be funded by the state within the next 6 years.

Temporary Facilities (Portable Classrooms)

Temporary facilities do not allow the full range of educational activities envisioned by NTPS. However, temporary facilities play an important role in any given planning period. Temporary facilities are needed to prevent the over-building of school facilities, to meet the needs of service areas in the district and to cover the gap between the time that families move into new residential developments and the date that construction is completed on new permanent school facilities. Over time, NTPS seeks to provide permanent capacity to meet enrollment demand in spaces that provide for full educational programming.

Core Facilities and Elective Offerings

Core facilities, such as the size of a cafeteria or gym, the number of restrooms, or the size and number of specialty areas such as shops, often limit enrollment to levels below that expected by room occupancy levels. In addition, for secondary schools, occupancy in the classrooms is further limited by scheduling constraints and student course selection. For example, secondary schools offer a number of elective courses and many elective courses will not attract a full classroom of students.

Additional Non-Program Constraints on Space Requirements

Government mandates and community expectations may also affect how classroom space is used. Traditional educational programs offered by school districts are often supplemented by non-traditional, or special programs such as special education, bilingual education, remediation, alcohol and drug education, AIDS education, preschool programs, computer lab, music programs, and the like. These special or non-traditional programs are factors that have been considered in determining the student capacity of school facilities.

Calculation of Student Capacity

For funding purposes, the State (OSPI) calculates school capacity by dividing the gross square footage of a building by a standard square footage per students established in WAC 392-343-035.

This statewide standard is a simple and uniform approach to determining school capacity for purposes of allocating available State Match Funds to school districts for new construction.

However, this method is not considered to be an accurate reflection of the actual capacity required to accommodate the adopted educational program of North Thurston Public Schools or other area school districts. This method does not take into consideration the additional capacity considerations described in this section.

To calculate student capacity, NTPS uses a practical capacity model that factors in the adopted local educational program, limitations of existing facilities, and non-program constraints. Under this model, the use of each room in each facility is reviewed along with applicable educational programming standards. The capacity for each facility is established by multiplying the permanent classrooms available by the scheduling limitations on average students per class. It is not possible to achieve 100% utilization of regular classrooms as a result of scheduling conflicts for student programs, fluctuations in enrollment by school throughout the year, the need for specialized rooms for certain programs, and the need for teachers to have a work space during planning periods. For every room housing students, a calculation is made assigning a maximum number of students per room. The calculation determines the number of students each school can accommodate. Core facilities and special use facilities limitations are also considered in this assessment of classroom capacity.

For secondary school classrooms, the calculation also accounts for utilization rates. Based on analysis of utilization of its existing secondary schools, NTPS determines a utilization rate for secondary school classrooms.

Calculation of Space Allocation Applying Educational Program Standards

The district's program results in a different capacity than the state-rated capacity. The district builds more space per student than the state-rated formula for funding (WAC 392-343-035) provides. According to its educational program standards and non-program constraints, NTPS has set the capacity of its facilities. Dividing gross square foot by grade grouping by capacity of facilities by grade groupings results in the following average space per student of district facilities.

Table 9
North Thurston Public Schools
Year 2014 Average Building Area Per Student

Grade Span	Space per Student
Elementary (K-6)	80.76 square feet
Middle School (7-8)	133.0 square feet
High School (9-12)	130.0 square feet

IV. CAPITAL FACILITIES INVENTORY

To determine what facilities will be required to accommodate future demand (student enrollment) at acceptable or established local programming standards, NTPS must first establish a baseline of facilities available to serve the needs of the district. This section provides an inventory of capital facilities owned and operated by NTPS, including permanent schools, developed school sites, undeveloped land, and support facilities. School facility capacity was determined based on the permanent space required to accommodate the district's adopted educational program standards (see Section III). A map showing locations of the district developed educational facilities is provided as Map 3.

Existing Schools

NTPS currently operates:

- ten (10) elementary schools serving grades K-6;
- three (3) elementary schools serving grades K-5
- two (2) standard middle schools serving grades 7-8;
- one (1) standard middle school serving grades 6-8;
- one (1) magnet middle school serving grades 6-8
- three (3) comprehensive high schools serving grades 9-12
- one (1) special focus high school serving grades 9-12.

Measures of Capacity

As discussed in Section IV, NTPS has adopted a space allocation standard that reflects the space NTPS has determined as necessary to meet the requirements of its locally adopted educational program standards as well as state-established minimums. For this CFP, school capacity was determined by applying the district's educational program standards to individual schools in order to determine the space requirements of the programs housed in them. It is this capacity calculation which is used to establish the district's baseline capacity and determine future capacity needs based on projected student enrollment.

Existing enrollment may be above or below the capacity at which the district rates the permanent facility.

Inventory

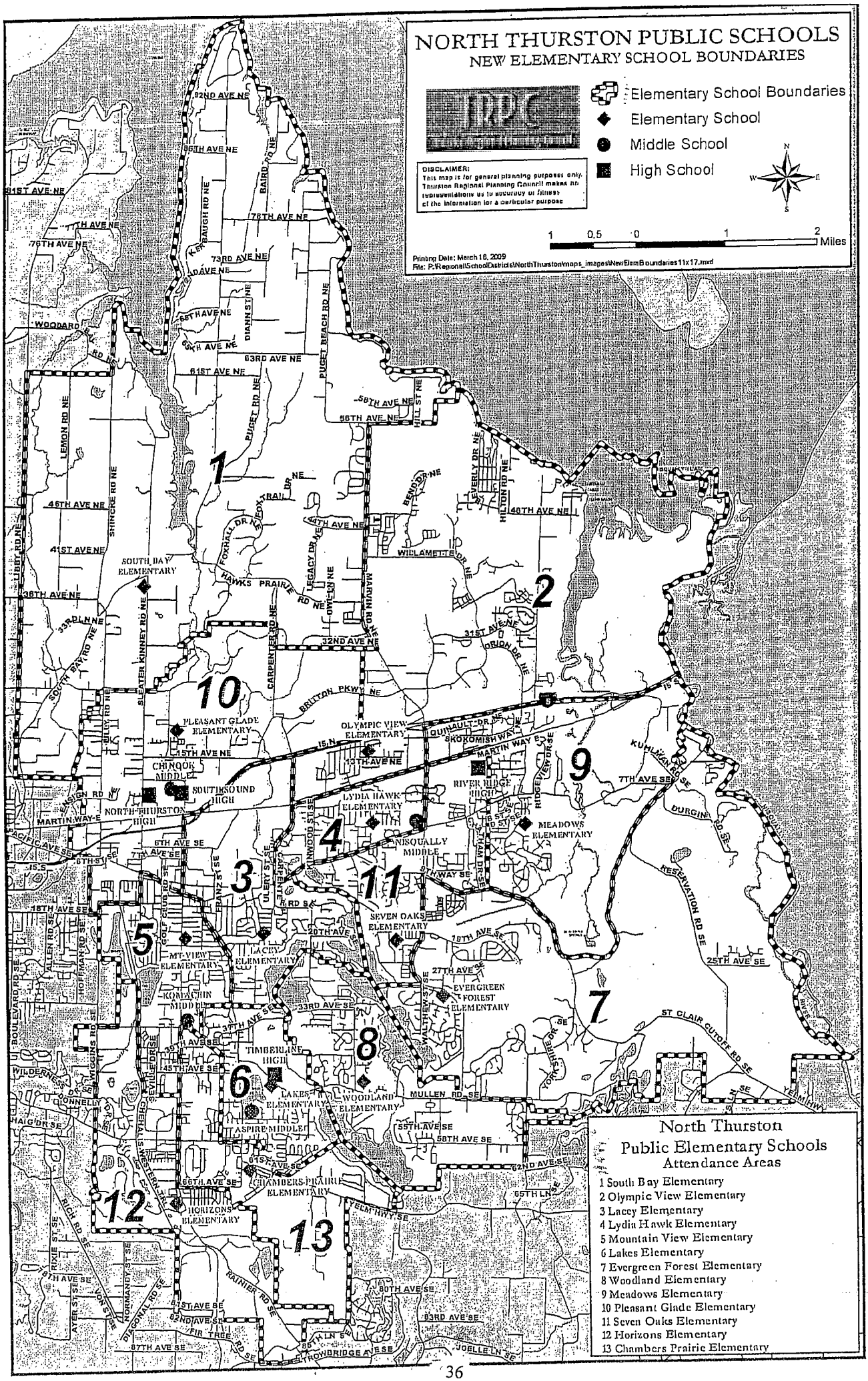
Table 10 identifies the permanent district educational facilities, their district-rated capacities and their location. Capacity of educational facilities has been calculated by the Planning Consultant based on the educational program standards and space allocation standards described in Section III. Extensive interviews with principals and counselors were also conducted. Capacity as noted represents a calculation of the ability of existing permanent facilities to deliver the district's educational program.

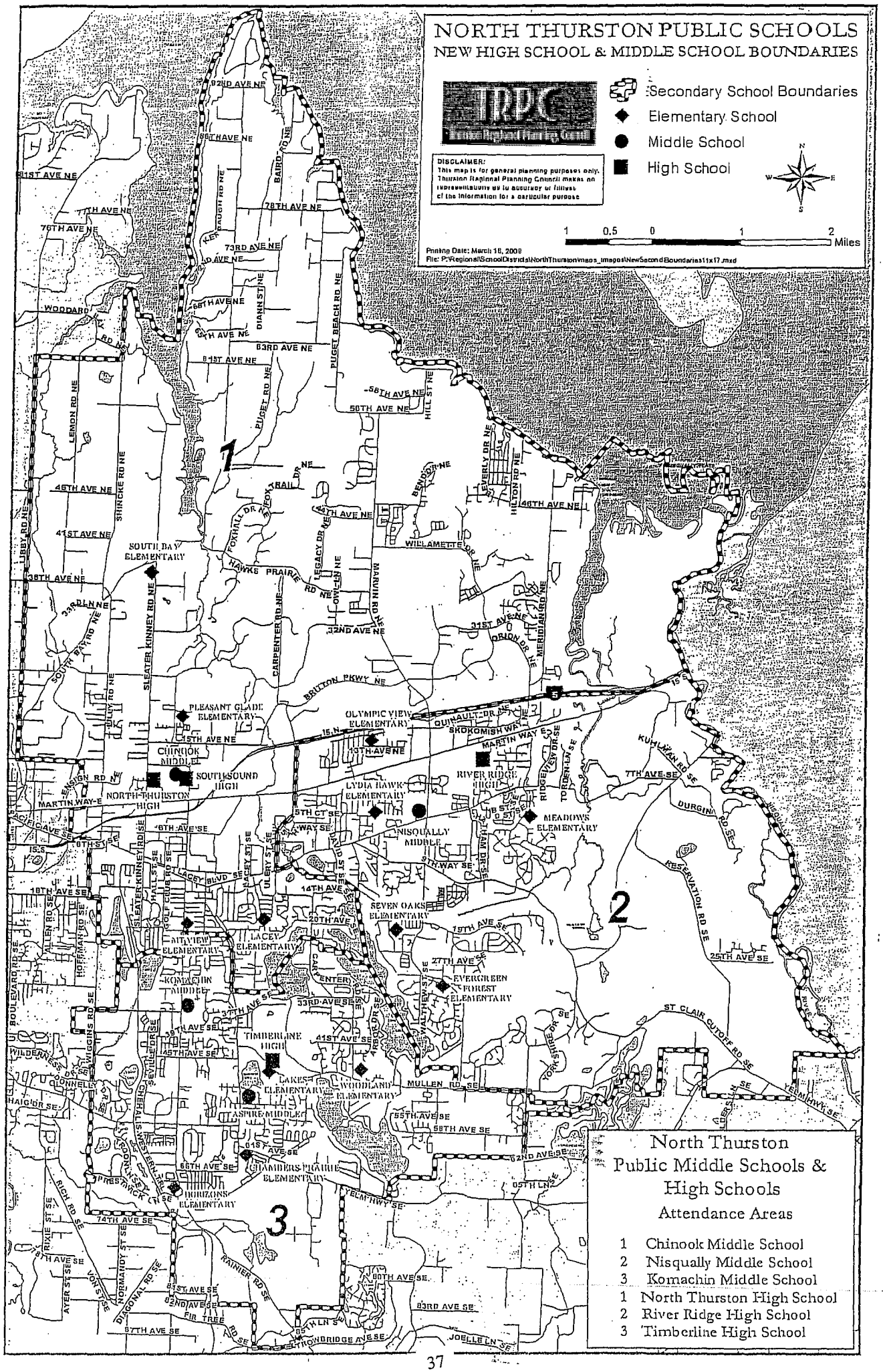
Table 11 identifies all district owned assets, their year of construction and major renovations.

TABLE : 10 2014 NTPS INVENTORY OF PERMANENT EDUCATIONAL FACILITIES

NAME	*CAPACITY	LOCATION
Elementary		
Aspire (6th grade, 1/3 of total)	121	
Chinook (6th grade, 1/3 of total)	234	
Nisqually (6th grade, 1/3 of total)	238	
Chambers Prairie	598	6501 Virginia St SE, Lacey 98513
Evergreen Forest	570	3025 Marvin Road SE, Lacey 98503
Horizons	624	4601 67th Avenue SE, Lacey 98513
Lacey (K-5)	542	1800 Homann Drive, Lacey 98503
Lakes	598	6211 Mullen Road SE, Lacey 98503
Lydia Hawk	404	7600 5th Street SE, Lacey 98503
Meadows	557	836 Deerbrush Drive SE, Lacey 98513
Mt. View	568	1900 College Street SE, Lacey 98503
Olympic View	482	1330 Horne Avenue NE, Lacey 98516
Pleasant Glade (K-5)	549	1920 Abernethy Road NE, Lacey 98516
Seven Oaks	543	1800 Seven Oaks Drive SE, Lacey 98503
South Bay (K-5)	539	3845 Sleater Kinney NE, Lacey 98506
Woodland	569	4630 Carpenter Road SE, Lacey 98503
SUBTOTAL	**7736**	
Middle		
Aspire (7th & 8th, 2/3 of total)	213	5900 54th Avenue SE, Lacey 98513
Chinook (7th & 8th, 2/3 of total)	469	4301 Sixth Avenue NE, Lacey 98516
Komachin	836	3650 College Street SE, Lacey 98503
Nisqually (7th & 8th, 2/3 of total)	475	8100 Steilacoom Road, Lacey 98503
SUBTOTAL	**1993**	
High School		
North Thurston	1573	600 Sleater Kinney NE, Lacey 98506
South Sound	277	411 College Street NE, Lacey 98516
River Ridge	1707	350 River Ridge Dr SE, Lacey 98513
Timberline	1697	6120 Mullen Road SE, Lacey 98503
SUBTOTAL	**5254**	

*Permanent capacity is based upon District capacity standards as described herein.


NORTH THURSTON PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL BOUNDARIES
Elementary School Boundaries
Elementary School
Middle School
High School
DISCLAIMER:
This map is for general planning purposes only. Thurston Regional Planning Council makes no representations as to accuracy or fitness of the information for a particular purpose
Printing Date: March 18, 2009
File: P:\Regional\SchoolDistricts\NorthThurston\maps_images\New\ElemBoundaries11x17.mxd
1 0.5 0 1 2 Miles
North Thurston
Public Elementary Schools
Attendance Areas
1 South Bay Elementary
2 Olympic View Elementary
3 Lacey Elementary
4 Lydia Hawk Elementary
5 Mountain View Elementary
6 Lakes Elementary
7 Evergreen Forest Elementary
8 Woodland Elementary
9 Meadows Elementary
10 Pleasant Glade Elementary
11 Seven Oaks Elementary
12 Horizons Elementary
13 Chambers Prairie Elementary
SOUTH BAY ELEMENTARY
PLEASANT GLADE ELEMENTARY
OLYMPIC VIEW ELEMENTARY
CHINOOK MIDDLE
SOUTHSOUND HIGH
NORTH THURSTON HIGH
LYDIA HAWK ELEMENTARY
RIVER RIDGE HIGH
MEADOWS ELEMENTARY
NISQUALLY MIDDLE
SEVEN OAKS ELEMENTARY
LACEY ELEMENTARY
MT VIEW ELEMENTARY
EVERGREEN FOREST ELEMENTARY
KOMACHIN MIDDLE
TIMBERLINE HIGH
LAKES ELEMENTARY
WOODLAND ELEMENTARY
ASPIRE MIDDLE
CHAMBERS PRAIRIE ELEMENTARY
HORIZONS ELEMENTARY


NORTH THURSTON PUBLIC SCHOOLS
NEW HIGH SCHOOL & MIDDLE SCHOOL BOUNDARIES
TRPC
Thurston Regional Planning Council
Secondary School Boundaries
Elementary School
Middle School
High School
DISCLAIMER:
This map is for general planning purposes only. Thurston Regional Planning Council makes no representations as to accuracy or fitness of the information for a particular purpose
Printing Date: March 18, 2008
File: P:\Regional\SchoolDistricts\NorthThurston\maps_images\NewSecondBoundaries11x17.mxd
1 0.5 0 1 2 Miles
SOUTH BAY ELEMENTARY
PLEASANT GLADE ELEMENTARY
OLYMPIC VIEW ELEMENTARY
CHINOOK MIDDLE
SOUTH SOUND HIGH
NORTH THURSTON HIGH
LYDIA HAWK ELEMENTARY
NISQUALLY MIDDLE
RIVER RIDGE HIGH
MEADOWS ELEMENTARY
SEVEN OAKS ELEMENTARY
MIT VIEW ELEMENTARY
LACEY ELEMENTARY
KOMACHIN MIDDLE
EVERGREEN FOREST ELEMENTARY
TIMBERLINE HIGH
LAKES ELEMENTARY
WOODLAND ELEMENTARY
ASPIRE MIDDLE
CHAMBERS PRAIRIE ELEMENTARY
HORIZONS ELEMENTARY
1
2
3
North Thurston Public Middle Schools & High Schools
Attendance Areas
1 Chinook Middle School
2 Nisqually Middle School
3 Komachin Middle School
1 North Thurston High School
2 River Ridge High School
3 Timberline High School

Summary of Existing Facilities

2014-15

Table 11 School or Building	Site/ Acres	Building Area (Square Feet)	OSPI 2014 State-Rated Capacity	Year Built	Year Remodeled	Description of Remodel	2013-2014 Number of Portable Classrooms*	Maximum Number of Portable Classrooms**
Chambers Prairie Elementary	13.1	57,373	637	2009		New School - Original	2	6
Evergreen Forest Elementary	10.3	44,008	475	1978			8	13
Horizons Elementary w/ land lab	16.4	51,016	545	1992	2006	HVAC Upgrade	15	14
Lacey Elementary	10.4	47,505	521	1968	1980	Addition (gym)	10	12
					2002	Modernization		
					2002	Gym Modernization		
Lakes Elementary	15.7	48,235	522	1964	1976	Addition	12	12
					1980	Addition (playshed)		
					1989	Addition (gym)		
					1998	Modernization		
Lydia Hawk Elementary	14.7	43,164	458	1959	1976	Addition/Modernize	13	12
					1989	Added Gym & Classrooms		
					1998/1999	Replacement		
Meadows Elementary	11	48,202	521	1986			9	6
Mt. View Elementary	13.8	51,439	564	1956	1976	Addition	15	14
					1979	Playshed		
					1998/1999	Modernization		
Olympic View Elementary	10	43,111	465	1969	1980	Playshed	15	13
					1985	Asbestos Encapsulation		
					1998	Modernization		
Pleasant Glade Elementary	13.3	48,482	503	1987			12	10
Seven Oaks Elementary	13	56,589	600	1989			8	10
South Bay Elementary	17	48,575	525	1949	1976	Addition	16	16
					1981	New** (demo old)		
					1999	Modernize 1976 Wing		
					2007/08	Modernize 1981 Bldg		
					2008/09	Modernization & Addition		
Woodland Elementary	16.7	49,494	528	1981	2007/09	Modernization & Addition	8	12
Subtotal Elementary Schools	**175.40**	**637,193**	**6,864**				**143**	
Aspire Middle School	9.8	29,842	255	1989	2007	Former SSHS	7	8
					2009	Former Horizons Intermediate		
Chinook Middle School	26.6	86,764	733	1960	1961	Addition	18	17
					1983	Addition/Modernize		
					2009/10	Modernization & Addition		
Komachin Middle School	24.01	89,360	750	1992			8	10
Nisqually Middle School	45	87,924	740	1966	1983	Addition/Modernize	17	18
					2008/09	Modernization & Addition		
Subtotal Middle School	**105.41**	**293,890**	**2,478**				**50**	

Summary of Existing Facilities (cont.)

School or Building	Site/ Acres	Building Area	OSPI 2013 State-Rated Capacity	Year Built	Year Remodeled	Description of Remodel	2012-2013 Number of Portable Classrooms*	Maximum Number of Portable Classrooms**
North Thurston High School	38.4	175,459	1,343	1954	1967	Autoshop & Pool Added	16	18
					1983	New School - Original Main Building Demolished		
					1989	HVAC Renovation		
					1995	Addition (Auditorium)		
					2002	Pool Modernization		
New South Sound High School	4.4	20,035	153	2007		New School - Original	0	0
River Ridge High School ***	41.5	176,772	1,349	1993	2004	HVAC Renovation	3	9
					2005	Pool HVAC Renovation		
Timberline High School	55	197,728	1,515	1970	1982	Addition/Renovation	10	12
					1987	Pool/HVAC		
					1989	Renovation		
					2006/07	Phase 1/Phase 2 Add		
					2007/09	Phase 2/Phase 3 Mod		
Subtotal High School	**139.30**	**569,994**	**4,360**				**29**	
TOTAL ALL SCHOOLS	**420.11**	**1,501,077**	**13,702**				**222**	
District Office	4.6	29,860		1986	2001	Modernization	0	
Bower Learning Center****	38	5,662		1972	2002	Modernization	0	
Service Center	11	92,483		1990	2001-04	Modernization	0	
Tracy Street Warehouse	1	9,000					1	
Land								
Drohman Site (Marvin Road)	72.09							
Meridian Road Site*****	11							
McAllister Park	44.78							
Madrona Park	10							
Meridian Campus	19.13							
Meridian Campus	10.87							
DNR - Mullen Road Site	37.39							
Vicwood Site (Marvin Road)	10.74							
15th Avenue Site	19.54							

*Includes 8-plex modular classrooms at South Bay Elementary, Woodland Elementary, Nisqually Middle School and Chinook Middle School

**Maximum number of portables has been estimated by the Construction & Design office based on space availability and school's infrastructure.

***Of the 6 portables at RRHS, 3 are classrooms, and 3 are for storage only (Dry, No HVAC) and not included on chart above..

****Located on NTHS site, former NTHS library

*****This site is not currently suitable for an elementary. It is located in the McAllister Springs Geologically Sensitive Area. Additional land or sewer are needed in order to build.

Please refer to the North Thurston Public School 2004 Study & Survey for building area (square footage) and more detailed school building information.

V. PROJECTED FACILITY NEEDS (Years 2015-2021)

Six-Year Facility Needs (through 2021)

Projected available student capacity was derived by subtracting projected student enrollment for each of the six years in the forecast period from the existing school capacity. Since this procedure is intended to establish facility needs, proposed construction projects are not included as available capacity at this point. Available student capacity by grade span, based on permanent capacity existing in 2014, is shown in Table 12.

The district is planning on reconfiguring grade levels. Table 12 below makes the adjustment in housing needs between 2015 and 2016 years even though timing of the reconfiguration has not yet been determined.

With grade reconfiguration in the fall of 2016, additional classroom capacity will be required at the middle school level. Unhoused students are defined as students expected to be housed in temporary facilities or classrooms where class size exceeds the District's standard for class size. Projected housing needs by grade span for each year in the six-year forecast period are provided in Table 12.

Table 12
Projected Housing Needs
(Based on 2014 Data)
North Thurston Public Schools 2015-2021

	Capacity Surplus or (Deficiency)							
							Grade reconfiguration K-5, 6-8	
Grade Span	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**
Elementary	-293	505	194	-157	-359	-644	-904	-1028
Middle School	292	-1072	-1231	-1230	-1450	-1576	-1760	-1809
High School	909	929	916	795	713	634	492	318
Total	908	362	-120	-593	-1096	-1586	-1271	-2519

In order to house the projected number of unhoused students in permanent facilities by the end of the forecast period (the year 2021), the district would have to construct two new elementary schools or grade reconfigure and construct at least one new middle school. Additionally, by the end of the forecast period, portable classrooms will be older than 20 years and most of them will have outlived their anticipated useful life. The district expects that some of these units will need major renovation or replacement with new temporary facilities or, as possible, with permanent facilities.

In addition to capacity-related facility needs, building and system deficiencies are identified and tracked through the district's annual facility assessment process. Data from this process is used to develop and update the district's annual Capital Facilities Plan. Building and system deficiencies are regularly prioritized, and reprioritized, to determine on a district-wide level the highest needs to be addressed in each year's capital plan of work. Through this process the district's highest priority deficiencies are addressed regularly, subject to the availability of resources. However, when a facility becomes eligible to receive funding for a major modernization, and a project is initiated, all critical building systems are then replaced or upgraded.

VI. PLANNED FACILITY IMPROVEMENTS

North Thurston Public Schools has identified projects that would be required to meet projected enrollment growth while maintaining its educational program. The district's plan for facility improvements has four elements: (1) construction for enrollment growth, including costs associated with permanently and temporarily housing enrollment shifts caused by new residential development; (2) acquisition of school sites for future enrollment growth consistent with residential densities projected by land use plans; (3) construction to preserve and maintain existing facilities; and, (4) construction for program changes.

The district has developed its construction plan, including phasing of construction and renovation projects, in a manner that allows it to minimize project impacts, keep taxes low, and meet educational programming standards. Major facility modernizations are scheduled when projects can be qualified to obtain state matching funds. Capital projects that preserve and maintain existing facilities are given high priority. Strategies to minimize the need for additional permanent facilities are implemented. These strategies also allow the district to maximize the use of state matching funds to construct permanent facilities. Funding of needed facilities identified in this plan is discussed in Section VII.

1. CONSTRUCTION FOR ENROLLMENT GROWTH

The district anticipates enrollment to increase at all grade levels through 2020. The district anticipates significant changes in enrollment pattern with large increases in enrollment at certain schools, with some decreases in enrollment at other schools. The district periodically reviews school boundaries and makes adjustments to account for such changes. However, the district has not identified a feasible plan to adjust boundaries to maintain contiguous service areas while balancing enrollment and capacity. The district believes that busing students from noncontiguous service areas will be an interim solution which will require additions to the district's bus fleet. Table 12 in the previous chapter calculates projected surplus capacity or deficit capacity of district facilities by grade grouping assuming enrollments are adjusted to optimize facility use.

The upward trend in enrollment projections continue to be a concern for district administration. To address these concerns several measures have been initiated to provide additional capacity, district wide.

1. Additions for centralized Early Childhood programs at Mountain View and Meadows Elementary schools have been approved and are underway. This move will free up classrooms for growth at existing elementary schools.
2. The recently acquired Bally's facility, after being used to temporarily support the North Thurston HS project, will be renovated into a new home for Aspire MS for the Performing Arts. This move will allow for the existing AMS to become a

complete new school, adding capacity for whatever grade level it is determined to serve.

3. Capacity is being added, where feasible, at the current modernization projects; Evergreen Forest Elementary, North Thurston High School, Pleasant Glade Elementary.
4. Long range plans and budgets will be adjusted to create the financial capacity to construct a new elementary school, if necessary, prior to 2022.

Planned growth-related construction projects are summarized in Table 13 below.

Table 13
Growth Related Construction Projects
Planned

Project	Estimated Completion Date	Student Capacity Added(*)	Estimated Project Cost
New Middle School #5	2016	750	$48,000,000
Evergreen Forest Addition	2016	200	$3,000,000
North Thurston HS Addition	2016	330	$10,000,000
Pleasant Glade Addition	2018	200	$3,000,000
New Aspire MS	2017	300	$5,000,000
Old Aspire MS – New School	2018	400	$4,000,000

*Based on District's Educational Program and Capacity Standards

The district plans to open a new middle school in 2016.

Table 14 shows the projected available permanent student capacity, including the additional capacity added by school construction projects, through the six-year forecast period.

Table 14
Projected Available Permanent Student Capacity
(With Added Capacity from Construction)
North Thurston Public Schools 2015-2021

						Grade reconfigured/new MS in 2016		
Grade Span	**2014***	**2015***	**2016***	**2017***	**2018***	**2019***	**2020***	**2021***
Elementary	-293	505	394	43	41	-244	-504	-628
Middle School	292	-1072	-481	-460	0	-126	-310	-359
High School	909	929	1246	1125	1043	964	822	648
	908	362	1160	687	1084	594	9	-339

*Available student capacity based on projected student enrollment.

Construction of new permanent facilities to house students is a lengthy process and increased enrollment does not always occur in the areas projected by state and local population forecasts. Therefore, to meet the enrollment demands of new development, it is also necessary for the district to make use of temporary classrooms while enrollment options and boundary adjustments are evaluated, new sites acquired, and new permanent facilities constructed. Temporary provision of facilities to house students at elementary, middle and high school grade levels will require relocation of existing portables, renovation of existing portable, acquisition and installation of new portables throughout the district.

The district has budgeted $1,697,500 for facility planning related to enrollment increases.

Between 2015 and 2021, the district expects $7,500,00 will be used to purchase and install new temporary facilities and to relocate and modernize existing temporary facilities to allow for their continued use to temporarily meet student enrollment demands. Of the $7,500,000, it is estimated that $6,000,000 will be needed to purchase and install new temporary facilities and $1,500,000 will be needed to relocate and refurbish existing temporary facilities to extend their use.

In addition to these capital facilities costs, enrollment growth will require additional buses. The estimated cost of providing additional bus capacity is $1,370 per additional elementary school student.

2. SITE ACQUISITIONS

In order to accommodate future growth, the district anticipates acquiring sites consistent with estimated maximum enrollment of proposed development. Recent development patterns have shown a greater degree of residential development occurring within the southwest and northeast quadrants of the district. Thurston Regional Planning Council projections indicate future growth in the north and northwest areas of the district.

The district is committed to constructing neighborhood schools for elementary schools. This policy supports City of Lacey land use policies.

The district is committed to maximizing the opportunity for students to walk to school. This policy supports Thurston County development requirements.

In cooperation with the City of Lacey, land use policies have been established that plan additional elementary school sites as part of large residential developments and/or village centers.

Acquisition of new school sites in advance of enrollment needs is critical to preparing the school district to meet the challenge of increasing enrollment. Since it is uncertain how or when land will ultimately be developed or how the district may deliver services in the future, the district anticipates that it may acquire more sites than the minimum supported by enrollment projections. The district currently owns five potential elementary school sites, four potential middle school sites and one potential high school site. However, as growth occurs and both development regulations and educational programming are modified over time, these sites may not ultimately be suitable for development at the time when construction is needed.

Further, in addition to the walkability and neighborhood school policies discussed above, in siting schools the district evaluates construction and operation costs, effectiveness of site to meet educational programming needs, and access to infrastructure. The availability of connections to public infrastructure such as water, electricity, sewer, stormwater treatment, and roads are important factors for the district in planning and siting schools. While the district has a fundamental obligation to serve urban and rural students, the availability of urban services to a site may be beneficial in the district's ability to serve students effectively and efficiently. The district will continue to work with local jurisdictions to coordinate development and planning for public infrastructure that is utilized by schools. Sites that become unsuitable for development may later be surplused or exchanged for sites more suitable or in different geographic locations.

Given the enrollment projections presented in this Capital Facilities Plan, the district intends to acquire additional sites to serve projected enrollments if and as appropriate. The district intends to negotiate conveyance of school sites from residential developers or payments of funds resulting from collection of residential mitigation fees. The district anticipates expenditures of $2,000,000 to acquire school sites.

3. PRESERVATION AND MAINTENANCE OF EXISTING FACILITIES (INCLUDING SOME CONSTRUCTION FOR PROGRAM CHANGES)

The district has identified the projects listed in Table 15 and Table 16 for asset preservation and maintenance.

Table 15
Facility Maintenance Projects
North Thurston Public Schools 2015-2021
(2014 Bond)

Project	Cost
New Middle School #5	$36,000,000
Modernizations (EF, PG, and NTHS)	$100,500,000
Facility Upgrades: RRHS, KMS, MEA (Security & Technology)	$23,000,000
Building Upgrades: Roofing & Exterior	$4,905,000
Building Upgrades: Interior	$3,405,000
Operating Systems	$6,810,000
Safety & Health	$1,362,000
Site Improvements	$2,043,000
Capital Equipment	$6,810,000
Capital Projects Administration	$6,568,000
Total	**$191,403,000**

4. CONSTRUCTION FOR PROGRAM CHANGES

The district has included projects for program changes in Table 15.

5. SUMMARY OF PLANNED IMPROVEMENTS (2015-2021)

The district's 2015-2021 Capital Facilities Plan anticipates capital expenditures of $204,200,500 during this six year period.

Projects are summarized in Table 16.

Table 16

CAPITAL PROJECTS SIX-YEAR FINANCE PLAN - 2015 THROUGH 2021

2014 Bond

Projects	Proposed 15-16	Proposed 16-17	Proposed 17-18	Proposed 18-19	Proposed 19-20	Proposed 20-21	Proposed 6-Year CFP Total
New Construction							
Middle School #5	$30,000,000	$6,000,000					$36,000,000
Elementary #14				$100,000	$500,000	$1,000,000	$1,600,000
Modernizations							
Evergreen Forest Elementary	$13,500,000	$2,000,000					$15,500,000
North Thurston High School	$25,000,000	$23,000,000	$10,000,000				$58,000,000
Pleasant Glade Elementary	$3,000,000	14,000,000	$5,000,000				$22,000,000
Aspire Middle School		$5,000,000					$5,000,000
Facility Upgrades/APP							
River Ridge High School	$3,000,000	$6,000,000					$9,000,000
Komachin Middle School	$2,000,000	$1,000,000					$3,000,000
Meadows Elementary	$1,250,000	$1,250,000	$500,000				$3,000,000
Safety and Security	$1,000,000	$2,000,000	$2,000,000				$5,000,000
Technology Infrastructure	$1,000,000	$1,000,000	$1,000,000				$3,000,000
Emergent Needs/APP							
Building Upgrades: Roofing & Exterior	$780,000	$795,000	$810,000	$825,000	$840,000	$855,000	$4,905,000
Building Upgrades: Interior	$530,000	$545,000	$560,000	$575,000	$590,000	$605,000	$3,405,000
Operating Systems	$1,060,000	$1,090,000	$1,120,000	$1,150,000	$1,180,000	$1,210,000	$6,810,000
Safety & Health Improvements	$212,000	$218,000	$224,000	$230,000	$236,000	$242,000	$1,362,000
Site Improvements	$318,000	$327,000	$336,000	$345,000	$354,000	$363,000	$2,043,000
Capital Equipment	$1,060,000	$1,090,000	$1,120,000	$1,150,000	$1,180,000	$1,210,000	$6,810,000
Capital Projects Administration	$1,030,000	$1,060,000	$1,090,000	$1,120,000	$1,150,000	$1,118,000	$6,568,000
Mitigation							
Site/Land Acquisition *	$2,000,000						$2,000,000
Facility Planning *	$265,000	$272,500	$280,000	$287,500	$290,000	$302,500	$1,697,500
Portables/Modulars *	$2,000,000	$500,000	$2,000,000	$500,000	$2,000,000	$500,000	$7,500,000
TOTALS	**$89,005,000**	**$67,147,500**	**$26,040,000**	**$6,282,500**	**$8,320,000**	**$7,405,500**	**$204,200,500**
Less Anticipated Mitigation Funds							
*To be funded with Mitigation Fees							

VII. DISTRICT'S FINANCE PLAN

Six-Year Finance Plan

The district has prepared a multiyear financing plan in which the planned improvements discussed in Section VI are priced and funding identified within projected funding capacities and using identified funding sources. The Capital Projects Six-Year Finance Plan 2015 through 2021 is found on Table 16. This plan is based upon the capital facility needs and investment policies identified in this Capital Facilities Plan. In addition, the cost projections involve assumptions regarding costs of labor and materials, project mitigation, development regulations, funding sources at federal, state, regional and local levels, and infrastructure improvements serving schools.

Funding of school facilities is secured from a number of sources, with the major source being voter approved bonds consistent with school district financing authority provided by the state. Other sources may include state matching funds and residential impact (mitigation) fees. If probable funding sources (e.g., voter approved bonds) fall short of meeting the identified capital facility needs, the assumptions of this plan will be reassessed through the district's annual review process to ensure that facilities are available to meet the district's educational programming standards. The district will provide its updated Capital Facilities Plan to local planning jurisdictions on an annual basis for consideration in their coordinated intergovernmental plans. Each of the identified funding sources is discussed in greater detail below.

Funding Sources

1. General Obligation Bonds

Bonds are typically used to fund construction of new schools and other capital improvement projects. A 60% voter approval is required to pass a bond. Bonds are then retired through collection of property taxes.

The North Thurston Public Schools currently has an assessed valuation of $9,521,164,228. The bond limit for all outstanding bonds is 5% of assessed value, or $476,058,211. As of September 1, 2014, the District had $198,495,026 of debt and a bond capacity of $279,047,090.

2. *Capital Levies*

Levies may be used to fund capital improvements. Levies may have duration of up to 6 years. A 50% voter approval is required to pass a levy.

3. State Match Funds

OSPI provides some funding for capital improvements. Eligibility is determined through a set of administrative rules. State match funds come from the Common School Construction Fund. Revenues accrue predominantly from the sale of renewable resources (i.e., timber) from state school lands set aside by the Enabling Act of 1889. If these sources are insufficient to meet needs, the Legislature can appropriate funds. State match funds have provided a significant portion of funding for past capital improvements.

4. New Development Mitigation

Authority for local jurisdictions to condition new development on the mitigation of the school impacts is provided under various state laws (e.g., the State Subdivision Act, Chapter 58.17 RCW, the State Environmental Policy Act, Chapter 43.21C RCW, and the Growth Management Act, Chapter 36.70A RCW) and some local land use standards (e.g., conditional use permits). These policies seek to ensure that adequate public facilities are available to serve the demands of new growth and that impacts of new development are proportionately mitigated by authorizing permitting jurisdictions to condition development approval on implementation of mitigation measures that enable local service providers (including school districts) to meet the infrastructure demands of new development.

- *Subdivision Act Mitigation.* RCW 58.17.110 requires that the permitting jurisdiction find that proposed plats make appropriate provisions for schools and school grounds.

- *SEPA Mitigation.* SEPA provides that local jurisdictions may condition approval of a new development to mitigate specific adverse environmental impacts which are identified in SEPA environmental documents. *See* RCW 43.21C.060. Under SEPA, the "built environment" includes public schools. WAC 197-11-444(2)(d)(iii).

- *GMA Mitigation.* Development impact fees have been adopted by a number of jurisdictions in the region as a means of supplementing traditional funding sources for construction of public facilities needed to accommodate new development. However, to date, no jurisdiction within the district's boundaries has adopted an impact fee ordinance. School impact fees are generally collected by the permitting agency at issuance of the building permit or certificates of occupancy.

The district participates in the permit review processes of jurisdictions within its boundaries to provide information regarding a proposal's impacts to public school facilities. Per Board Policy 9220, the district believes that reasonable residential mitigation fees voluntarily made by developers of new residential housing in accordance with legal requirements are an appropriate source of funds for (1) projects reasonably related to and benefiting the new housing development, (2) projects necessary to provide adequate schools or school grounds to serve such new residential housing, or (3) projects reasonably necessary to mitigate potentially significant impacts of such new housing development on the district's educational facilities and programs.

Such residential mitigation fees address facility construction for enrollment growth, site acquisitions, and related temporary student housing impacts (e.g., portables) but are not used for preserving or maintaining existing facilities. The district will take appropriate steps within its power to allow, encourage and support any county or city which has jurisdiction and authority to require such residential mitigation fees.

The Six Year Capital Finance Plan (below) portrays how North Thurston Public Schools intends to fund improvements to school facilities for the years 2015 through 2021.

Capital Finance Plan

Sources:

CFP balance: (5/30/15)	$87,298,582.52
Mitigation Fee Collections (2015-21 est.)	$16,000,000
Transfer from General Funds	-0-
State Matching Funds (est. for new MS)	$14,250,000
State Matching Funds (est. for mods)	$35,750,000
Sale of G. O. Bonds (2014 bond) 5/30/15	$75,000,000
Sale of Capital Assets	-0-
Total	**$228,298,582.52**

Uses:

New Construction	$37,600,000
Modernizations	$100,500,000
Emergent Needs	$31,903,000
Facility Upgrade/Asset Preservation	$23,000,000
Land Acquisition	$2,000,000
Facility Planning	$1,697,500
Portable/Modular facilities	$7,500,000
Total	**$239,992,500.00**

VIII. PROJECTED FACILITY NEEDS (YEARS 2021-2035)

By the year 2035, the district is expected to have unhoused students at middle and high school grade levels. A long-range projection of unhoused students is shown in Table 17 below.

Table 17
Long-Range FTE Projection of Unhoused Students for Year 2035

Grade Level	Projected Enrollment Year 2035	Existing Capacity in Year 2021	Projected Unhoused Students in 2035
Elementary (K-5)	8,390	7898	-492
Middle School (6-8)	4368	3681	-687
High School (9-12)	6071	5584	-433
Total	18,775	17,163	-1612

As noted above, the district's long-range forecast of facility needs is based upon the county's twenty-year OFM population projection. The district's six-year facilities plan will be periodically reassessed, and revised as necessary, to maintain consistency with long-range projections of facility needs.

APPENDIX A

Mitigation Fee Calculation

The district calculates a residential mitigation fee that is based upon the cost of providing capacity to serve students generated by growth-related projects. The residential mitigation fee is calculated on a per unit basis determined by residence type (i.e., single-family or multi-family residences). The residential mitigation fee is calculated as set forth in the attached Tables 18 and 19.

The mitigation fee calculation only includes costs for construction of growth-related improvements. As discussed in Section VI, to meet these needs the district plans to acquire additional elementary school sites as they become available and to construct one new middle school. The district also anticipates acquisition of temporary buildings to house new students generated by residential development.

For purposes of calculating the residential mitigation fee, the cost of providing capacity to serve students generated by growth-related projects is a net amount, meaning that it is an amount reduced by the amount of revenues that the district reasonably anticipates it will receive from OSPI and from future tax receipts paid by new residents. For the purposes of this fee calculation, a "credit" is provided for these state match and tax funds which the district expects to receive and apply toward its construction costs.

Additionally, a developer may earn a credit to offset its mitigation fees equal to the value of dedicated land, facilities or monetary compensation the district has agreed to accept from the developer under the mutually acceptable terms of a voluntary mitigation agreement and/or the conditions of a development approval.

For purposes of this calculation, the following have been updated to reflect 2014 data: the student factor, site acquisition cost per acre, building acquisition cost per acre, temporary building acquisition cost, Cost Index (or, area cost allowance for school construction per WAC 392-343-060), match ratio, bond rate and duration, average assessed value, interest rate for bonds, term and tax rate.

TABLE 18

NORTH THURSTON PUBLIC SCHOOLS

SINGLE-FAMILY RESIDENCE
MAY 23, 2011

PROJECTS: North Thurston Public Schools is planning to acquire additional elementary sites as they become available.

North Thurston Public Schools is planning to construct one new middle school.

Student factor, land cost, building cost, temporary building cost, Cost Index, match ratio, bond rate and duration, average assessed value, interest rate for bonds, term and tax rate have been updated to 2011 data.

CALCULATION A: SITE ACQUISITION COST

	SITE AREA (1)	COST PER ACRE (2)	STUDENTS (3)	STUDENT FACTOR (4)	COST
A1 ELEMENTARY	12	130,000	550	0.491	1,393
A2 MIDDLE SCH.	20	130,000	750	0.140	0
A3 HIGH SCH.	40	130,000	1250	0.262	0
A					1,393

CALCULATION B: BUILDING ACQUISITION COST

	COST (5)	STUDENTS (3)	STUDENT FACTOR (4)	COST
B1 ELEMENTARY	0	0	0.491	0
B2 MIDDLE SCH.	38,250,000	750	0.140	7,140
B3 HIGH SCH.	0	0	0.262	0
B				7,140

CALCULATION C: TEMPORARY BUILDING ACQUISITION COST

	COST (5)	STUDENTS (3)	STUDENT FACTOR (4)	COST
C1 ELEMENTARY	186,815	44	0.491	2,085
C2 MIDDLE SCH.	186,815	50	0.140	523
C3 HIGH SCH.	186,815	64	0.262	0
C				2,608

CALCULATION D: STATE MATCH CREDIT (6)

	COST INDEX	SPI SQ FT	MATCH %	STUDENT FACTOR (4)	CREDIT
D1 ELEMENTARY	180.17	90	0.571	0.491	0
D2 MIDDLE SCH.	180.17	117	0.571	0.140	1,685
D3 HIGH SCH.	180.17	130	0.571	0.262	0
D					1,685

CALCULATION TC: TAX PAYMENT CREDIT (7)

AVERAGE ASSESSED VALUE	204,541	
INTEREST RATE FOR BONDS	4.53%	
TERM (MAXIMUM 10)	10	$1,999.53 NET PRESENT VALUE OF TAX PAYMENTS
TAX RATE	0.00123	
TC		2,000

FACILITY CREDIT	0
FEE	7,456
FACTOR: 50% FEE	3,728

NOTES (1)-(7)

(1) Site area equals the number of acres required by school type after applying the district's educational programming standards.
(2) Cost per acre means the estimated cost of a site in the district for the grade span of school to be provided after applying district design standards.
(3) Students means the number of students a facility can accommodate by grade span and building type.
(4) Student factor means the number of students of each grade span expected to be generated by development activity by unit type.
(5) Costs per building means the costs of constructing permanent or acquiring temporary buildings based on estimates from comparable projects as adjusted for inflation.
(6) State match credit means the calculation of the district's Boeckh Index times SPI square footage per student per grade span times state match percentage times applicable student factor.
(7) Tax payment credit means the calculation of the district's average assessed value by residence type times the tax rate as adusted by current bond interest rates and levy terms (up to 10 years).

TABLE 19

NORTH THURSTON PUBLIC SCHOOLS

MULTI-FAMILY RESIDENCE
MAY 23, 2011

PROJECTS: North Thurston Public Schools is planning to acquire additional elementary sites as they become available.

North Thurston Public Schools is planning to construct one new middle school.

Student factor, land cost, building cost, temporary building cost, Cost Index, match ratio, bond rate and duration, average assessed value, interest rate for bonds, term and tax rate have been updated to 2011 data.

CALCULATION A: SITE ACQUISITION COST

	SITE AREA (1)	COST PER ACRE (2)	STUDENTS (3)	STUDENT FACTOR (4)	COST
A1 ELEMENTARY	12	130,000	550	0.255	723
A2 MIDDLE SCH.	20	130,000	750	0.060	0
A3 HIGH SCH.	40	130,000	1250	0.082	0
A					723

CALCULATION B: BUILDING ACQUISITION COST

	COST (5)	STUDENTS (3)	STUDENT FACTOR (4)	COST
B1 ELEMENTARY	0	0	0.255	0
B2 MIDDLE SCH.	38,250,000	750	0.060	3,060
B3 HIGH SCH.	0	0	0.082	0
B				3,060

CALCULATION C: TEMPORARY BUILDING ACQUISITION COST

	COST (5)	STUDENTS (3)	STUDENT FACTOR (4)	COST
C1 ELEMENTARY	186,815	44	0.255	1,083
C2 MIDDLE SCH.	186,815	50	0.060	224
C3 HIGH SCH.	186,815	64	0.082	0
C				1,307

CALCULATION D: STATE MATCH CREDIT (6)

	COST INDEX	SPI SQ FT	MATCH %	STUDENT FACTOR (4)	CREDIT
D1 ELEMENTARY	180.17	90	0.571	0.255	0
D2 MIDDLE SCH.	180.17	117	0.571	0.060	722
D3 HIGH SCH.	180.17	130	0.571	0.082	0
D					722

CALCULATION TC: TAX PAYMENT CREDIT (7)

AVERAGE ASSESSED VALUE	204,541		
INTEREST RATE FOR BONDS	4.53%		
TERM (MAXIMUM 10)	10	$1,999.53	NET PRESENT VALUE OF TAX PAYMENTS
TAX RATE	0.00123		
TC			2,000

FACILITY CREDIT	0
FEE	2,368
FACTOR: 50% FEE	1,184

NOTES (1)-(7)

(1) Site area equals the number of acres required by school type after applying the district's educational programming standards.
(2) Cost per acre means the estimated cost of a site in the district for the grade span of school to be provided after applying district design standards.
(3) Students means the number of students a facility can accommodate by grade span and building type.
(4) Student factor means the number of students of each grade span expected to be generated by development activity by unit type.
(5) Costs per building means the costs of constructing permanent or acquiring temporary buildings based on estimates from comparable projects as adjusted for inflation.
(6) State match credit means the calculation of the district's Boeckh Index times SPI square footage per student per grade span times state match percentage times applicable student factor.
(7) Tax payment credit means the calculation of the district's average assessed value by residence type times the tax rate as adusted by current bond interest rates and levy terms (up to 10 years).

Resolution #15222

A RESOLUTION amending Chapter Six, Capital Facilities, of the Thurston County Comprehensive Plan.

The Board of County Commissioners of Thurston County enters the following findings of fact:

I. GENERAL FINDINGS

1. The state Growth Management Act (GMA), Chapter 36.70A RCW, requires the counties within its scope to adopt comprehensive plans which are guided by the Act's goals and which meet the Act's requirements.

2. The GMA requires counties to adopt county-wide planning policies to guide the adoption of comprehensive plans. The principle purpose of these policies is to insure that the comprehensive plans of counties and the cities within them are coordinated and consistent with each other. The amendments to the comprehensive plan adopted by this resolution were prepared, considered and adopted in compliance with the county-wide planning policies.

3. The amendments to the Comprehensive Plan adopted by this resolution were the subject of a public hearing before the Thurston County Planning Commission and a public hearing before the Thurston County Board of County Commissioners. This resolution amends the existing Chapter 6, Capital Facilities, of the Comprehensive Plan for Thurston County.

4. The measures adopted by this resolution comply with the GMA and other governing law and are reasonably related to the public health, safety and welfare.

5. A SEPA Determination of Nonsignificance for the amendments adopted by this resolution was issued September 30, 2015 (SEPA No. 2015105507) and amends the 1994 Environmental Impact Statement (EIS) for the Thurston County Comprehensive Plan.

II. GROWTH MANAGEMENT ACT GOALS

6. Chapter 36.70A RCW provides 14 goals "to guide the development and adoption of comprehensive plans and development regulations" under the GMA. The goals are not listed in order of priority.

7. In formulating the comprehensive plan amendments adopted by this resolution, this Board has considered the goals contained in Chapter 36.70A RCW. The Board has weighed the goals as they apply to the subject matter of this resolution and has attempted to reach a reasoned balance among these goals.

8. The findings below and the record generated in the hearing and adoption of this resolution show that this measure is consistent with the GMA goals.

III. CAPITAL FACILITIES (1-C)

9. The state Growth Management Act requires Thurston County to adopt a capital facilities element as part of its Comprehensive Plan, consistent with RCW 36.70A.070.

10. After public hearings by the Thurston County Planning Commission and Board of Commissioners, Resolution No. 10617 was enacted on April 18, 1994, adopting the Thurston County Capital Facilities Plan in compliance with the GMA. This plan applied in unincorporated Thurston County, including urban growth areas. It included capital facilities planned to be carried out by Thurston County in these areas. Since the original adoption in 1994, the Capital Facilities Plan has been updated on an annual basis.

11. The capital facilities element adopted by this resolution updates the capital facilities element to cover the years 2016 – 2021.

12. The capital facilities element adopted by this resolution is a reasonable plan for those capital facilities, which will be needed to accommodate the future levels of population projected for Thurston County. It is consistent with the growth phasing, densities, and distribution of growth anticipated in the land-use element of the Comprehensive Plan.

13. This capital facilities element contains levels of service planning assumptions of the facilities, which reflect community goals and which will provide a reasonable level of service to the expected population.

14. This capital facilities element estimates the amount of money needed for the planned facilities and identifies sources of funding for which there is reasonable assurance of availability. As set out in more detail in the capital facilities element, actual financial and budgetary decisions by the County may deviate to some degree from the estimates and plans contained in the element.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF THURSTON COUNTY that:

Section 1. Chapter Six, Capital Facilities, of the Thurston County Comprehensive Plan is hereby amended to cover the years 2016 – 2021 as shown in Attachment A to this Resolution.

Section 2. Severability. If any clause, sentence, paragraph, section or part of this Resolution and the provisions adopted hereunder or the application thereof to any person or circumstance shall be found to be invalid, the court order or judgment shall be confined in its operation to the controversy in which it was rendered and shall not affect or invalidate the remainder of any part thereof to any other person or circumstance.

ADOPTED: December 11, 2015.

BOARD OF COUNTY
COMMISSIONERS
Thurston County, Washington

ATTEST:

Clerk of the Board

Chair

APPROVED AS TO FORM:

Commissioner

JON TUNHEIM
PROSECUTING ATTORNEY

Commissioner

By: Elizabeth Petrich
Deputy Prosecuting Attorney

THURSTON COUNTY
Annual Comprehensive Plan Amendment for
CHAPTER 6, CAPITAL FACILITIES PLAN
2016-2021

THURSTON COUNTY
WASHINGTON
SINCE 1852

Thurston County Board of County Commissioners
Adopted December 11, 2015 (Anticipated)

Chapter 6, Capital Facilities Plan

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CHAPTER SIX -- CAPITAL FACILITIES

I. Introduction

The Capital Facilities Plan is a plan in which capital projects necessary to support the County's forecast population growth, and the financing methods by which they will be accomplished, are described. Capital projects are the durable, typically very expensive, facilities and equipment necessary to support County operations and services to the public. These generally include but are not limited to such facilities as roads, bridges, sewers, parks, open space, water supply and conveyance systems, stormwater management systems, waste and wastewater disposal and treatment systems, and government buildings. The Capital Facilities Plan (CFP) is Chapter 6 of the Comprehensive Plan that is required by the State Growth Management Act. The Growth Management Act requires the CFP to identify specific facilities, include a realistic financing plan, and adjust the plan if funding is inadequate. Capital facilities are important because they support the growth envisioned in the County's Comprehensive Plan.

The State Department of Commerce, which is the agency responsible for oversight of local government comprehensive planning, recommends that capital facilities plans cover a 20-year planning horizon. Because capital projects are often very expensive, financing often requires multi-year commitments of financial resources. Therefore, financial planning and implementation of capital facilities cannot be effectively carried out on an annual basis and a long-range plan is necessary to assure that funding is available to implement the plan. Thus, development of the Plan is also a tool for effective governmental management.

However, this plan covers a six-year period, the years 2016-2021. Transportation grants typically require a six-year plan, and this period is one in which the County can address its immediate capital needs. Thurston County's growth rates, and therefore the analysis of corresponding capital needs - and ability to fund those needs, may be unpredictable beyond the six-year period.

The Thurston County Comprehensive Plan projects that by the year 2035, the population of Thurston County is projected to grow to 378,000, an increase of 120,000 or 46.5% from the 2013 population of 258,000. Which means that within the next six years, the population is expected to grow by almost 14%.

The Revised Code of Washington 82.02.050 (2) authorizes Counties required to plan under the Growth Management Act (GMA) to "impose impact fees on development activity as part of the financing for public facilities..." In 2010, The Board of County Commissioners requested a study be performed to consider impact fees for transportation, recreation facilities (parks), and schools that: 1) equitably recovers the cost of transportation, recreation, and school infrastructure improvements as a result of new development; 2) is less of an administrative

burden to the county and school districts, and development community than the current SEPA mitigation process; and 3) provides the timely and equitable financing of public services and improvements to mitigate impacts from new development.

The study reviewed county and school capital facilities plans, developed service areas for transportation, school and park projects and produced a fee schedule applicable to the type of project based on its location in its related service area. The Board adopted impact fees in December 2012, effective April 2, 2013 for transportation, parks and some school districts.

The 2016-2021 CFP indicates what transportation and parks projects will be funded by impact fees. Additionally, the County will also adopt the Capital Facility Plans for those school districts that opt into the impact fee system. The Thurston County Code (TCC) enables the use of impact fees. The actual fees charged are subject to change based on the cost of projects contained with the annual CFP and will be adopted as part of the annual CFP and County budgeting process.

Planning for capital facilities is a complex task carried out by each department of the County. It requires an understanding of current conditions relative to future needs, an assessment of various types of capital facilities that could be provided, analysis to identify the most effective and efficient facilities to support the needed service, and addressing how these facilities will be financed. Therefore, this Plan is actually the product of separate but coordinated planning efforts, each focusing on a specific category of facilities.

The CFP is a planning document; not a budget for expenditures, nor a guarantee that the projects will be implemented. It assumes receipt of outside grant resources, and if grants are not received, projects may be delayed or removed. Each capital project listed in the CFP will need to go through a separate environmental review and approval process.

The capital facilities covered by this plan are primarily those owned or managed by Thurston County. Facilities provided by school districts and other local governmental entities are referred to in Section VIII of this CFP.

Capital facilities provided by cities, including the extension of water and sewer systems to unincorporated urban growth areas adjacent to the cities, and are found in joint city plans. The portions of joint plans that apply to unincorporated urban growth areas are adopted by both the applicable city and Thurston County.

READERS NOTE: This document is a summary of very detailed information contained in a Supplement, which includes funding sources for capital facilities, priorities and project descriptions. For more specific information, please consult the Capital Facilities Supplement.

II. Goals, Objectives and Policies

Capital facility planning is guided by goals, objectives, and policies. The first level of guidance is provided by the State Growth Management Act (RCW 36.70A). In addition, there are countywide goals, objectives and policies that apply to capital facility planning. These are listed below. Additional programmatic or department-specific goals, objectives, and policies are listed within the subsequent relevant sections of this plan. Goals and policies specifically related to transportation can be found in Chapter 5, Transportation and specific goals and policies related to utilities in Chapter Seven of the Comprehensive Plan.

GENERAL GOALS, OBJECTIVES AND POLICIES

GOAL 1: AS THE COUNTY GROWS, PUBLIC FACILITIES AND SERVICES SHOULD BE PROVIDED AT REASONABLE COSTS, IN PLACES AND AT LEVELS COMMENSURATE WITH PLANNED DEVELOPMENT INTENSITY AND ENVIRONMENTAL PROTECTION, AND BUILT TO BE ADEQUATE TO SERVE DEVELOPMENT WITHOUT DECREASING CURRENT SERVICE LEVELS BELOW LOCALLY ESTABLISHED MINIMUM STANDARDS.

OBJECTIVE 1-A: ***Public Involvement in Planning*** - Public involvement will be provided in all phases of public facilities planning.

POLICIES:

1. The public will be notified of and given opportunities to participate in the drafting and final adoption of:
   a. Standards for public facilities (such as road standards).
   b. Capital improvement plans and funding methods (e.g., Boston Harbor or Grand Mound Sewerage Planning, and six year Capital Facilities Plans).
   c. The identification of levels of service standards or other determinants of need for public capital facilities, and establishment of new public facility management programs (e.g., stormwater).
2. All county departments should notify the public of the development of new plans, programs and regulations.

OBJECTIVE 1-B: ***Environmental Impacts*** - When designing and locating public facilities, procedures will be followed to avoid all possible adverse impacts and follow mitigation sequencing to mitigate any unavoidable adverse impacts on the environment and other public facilities.

POLICIES:

1. Impacts on critical areas, natural resource lands, and transportation systems should be considered and adverse impacts avoided to the greatest extent possible and mitigate unavoidable adverse impacts.
2. Public facilities should be sited with the least disruption to critical areas and natural resource lands.

OBJECTIVE 1-C: ***Paying for Capital Facilities*** - Ensure that costs of county-owned capital facilities are within the county's funding capacity, and equitably distributed between users and the county in general.

POLICIES:

1. Use the Capital Facilities Plan to integrate all of the county's capital project resources (grants, bonds, general county funds, donations, real estate excise tax, conservation futures levy, fees and rates for public utility services, and any other available funding).
2. Assess the additional operations and maintenance costs associated with the acquisition or development of new capital facilities. If accommodating these costs places an unacceptable burden on the operating budget, capital plans may need to be adjusted.
3. Promote efficient and joint use of facilities with neighboring governments and private citizens through such measures as interlocal agreements and negotiated use of privately and publicly owned lands or facilities (such as open space, stormwater facilities or government buildings).
4. Explore regional funding strategies for capital facilities to support comprehensive plans developed under the Growth Management Act.
5. Agreements should be developed between the County and cities for transferring the financing of capital facilities in the Urban Growth Areas to the cities when they annex the contributing lands.
6. Users pay for public utility services, except when it is clearly in the public interest not to do so.
7. Provide public utility services at the lowest possible cost, but take into account both construction and operation/maintenance costs.
8. Correctly time and size public utility services to provide adequate growth capacity and to avoid expensive remedial action.
9. If the County is faced with capital facility funding shortfalls, use any combination of the following strategies to balance revenues and needs for public facilities required to serve existing and future development:

    a. <u>Increase Revenues</u>

- Bonds
- New or increased user fees or rates
- New or increased taxes
- Regional cost sharing
- Developer voluntarily funds needed capital project

b. Decrease Level of Service Standards

- Change Level of Service Standards, if consistent with Growth Management Act Goals

c. Reprioritize Projects to Focus on Those Related to Concurrency

d. Decrease the Cost of the Facility

- Change project scope
- Find less expensive alternatives

e. Decrease the Demand for the Public Service or Facility

- Institute measures to conserve or cut use of the facility, such as ride-sharing programs to cut down on traffic demands on roadways
- Institute measures to slow or direct population growth or development, such as, moratoria on development, developing only in areas served by facilities with available capacity until funding is available for other areas, changing project timing and/or phasing

f. Revise the Comprehensive Plan's Land Use Chapter

- Change types or intensities of land use as needed to balance with the amount of capital facilities that can be provided to support development

OBJECTIVE 1-D: ***Coordination with Growth*** - Public utility service plans should be prepared and facilities constructed to support planned growth.

POLICIES:

1. Land use decisions as identified in the Comprehensive Plan and Joint Plans should be the determinants of development intensity rather than public utility decisions and public utility planning.
2. Where land use plans and zoning designate urban levels of land uses and subsequently adopted long-range plans for public utilities show that urban levels of utilities are not feasible, the plan and zoning designations should be reviewed.

3. Extension of services and construction of public capital facilities should be provided at levels consistent with development intensity identified in this Comprehensive Plan, sub-area plans still in effect, and joint plans.
4. Public utility services within growth areas should be phased outward from the urbanizing core as that core becomes substantially developed, in order to concentrate urban growth and infilling.
5. New users of capital facilities should not reduce service levels for current users.
6. The County should coordinate capital facilities planning with cities and towns and identify shared needs for public purpose lands.

OBJECTIVE 1-E: ***Coordination with Budget and Related Documents*** - The County's capital budget and six year transportation program will be consistent with the Capital Facilities Plan.

POLICIES:

1. Thurston County's annual capital budget and six year transportation program required under RCW 36.81.121 will be fully consistent with the intent and substance of this Capital Facilities Plan and the Transportation Chapter of this Comprehensive Plan.
2. The year in which a project is carried out, or the exact amounts of expenditures by year for individual facilities may vary from that stated in the Comprehensive Plan due to:
    a. Unanticipated revenues or revenues that become available to the county with conditions about when they may be used, or
    b. Change in the timing of a facility to serve new development that occurs in an earlier or later year than had been anticipated in the Capital Facilities Plan.
3. Specific debt financing proposals may vary from that shown in the Comprehensive Plan due to changes in interest rates, other terms of financing, or other conditions which make the proposals in the plan not advantageous financially.
4. The addition of an entirely new facility, not anticipated in the Capital Facilities Plan, will require formal amendment to the Comprehensive Plan.
5. The transportation projects in the Capital Facilities Plan and Transportation Chapter of this Comprehensive Plan will be consistent with the Regional Transportation Plan.

III. Level of Service Standards:

Level of service standards are quantifiable measures by which the availability or adequacy of the service or facility is evaluated. Typically, levels of service standards are established to provide a goal for the amount of service or facility that is expected to be available. Level of service standards may be "de facto", which is what exists, regardless of the service goal; "adopted", which is what the jurisdiction officially has established as a benchmark or goal; or "desired", which is an unofficial goal for the service or facility. Level of service standards are commonly established in units appropriate to the service or facility, such as acres per capita or tons per capita. Adopted level of service standards are those approved by the governing body in Thurston County, by the Board of County Commissioners.

Factors that influence level of service standards are national, federal, and state mandates and standards, recommendations from citizens and recommendations from advisory groups.

Table 6-1 below shows (see column labeled "CFP LOS") the level of service that would be needed to support the growth projection of the six-year period covered by this CFP.

In its last two columns, Table 6-1 also shows how this standard compares to existing level of service, established in 2001 or 2002, and/or other previously adopted standards.

Table 6-1

Level of Service Standards and Comparison to Previous CFP

Facility	**Level of Service (LOS) Units**	**This CFP LOS Standard** *(2016-2021)*	Existing Service Level *(2001 unless noted otherwise)*	**Previously Adopted LOS Standard** *(2004-2009)*
Coroner	**Gross Sq. Ft. (GSF)** "x" GSF for up to 200 autopsies per year (& medical exam. system)	1994 Space Planning Report: 6,656	6,950 (gross SF) (2003)	Same as 2004 – 2009 CFP.
Courts--District	GSF per courtroom unit *(Ctrm., Judic. chamber, Conf. & Jury Rms.)*	1994 Space Plng. Report: 3320/jury ctrm. unit; 2346/non-jury unit 2000: 3 Ctrms.; 3 judicial positions 2014: 4 Ctrms. ; 3.5 judicial positions.	Net SF: 2284/jury ctrm. unit 1178/non-jury unit 4 ctrms.	Same as 2004 – 2009 CFP.

Facility	Level of Service (LOS) Units	This CFP LOS Standard *(2016-2021)*	Existing Service Level *(2001 unless noted otherwise)*	Previously Adopted LOS Standard *(2004-2009)*
Courts--Superior	GSF per courtroom unit *(Ctrm., Judic. chamber, Conf. & Jury Rms.)*	1994 Space Plng. Report: 4502/stand. jury unit 5606/large jury unit 2622/non-jury unit 2000: 9 Ctrms.; 8.88 judicial positions 2014: 12 Ctrms. 13 judicial positions.	Net SF: 3346/jury ctrm. unit 1390/non jury unit ctrms.	Same as 2004 – 2009 CFP.
Courts--Juvenile & Family	GSF per courtroom unit *(Ctrm., Judic. chamber, Conf. Rms.)*	1994 Space Plng. Report: 2,840/non jury courtroom unit (GSF) (1938 NSF [net sq. ft.] for non-jury courtroom unit)	1940 net SF at new Juve bldg. 4 ctrms.	Same as 2004 – 2009 CFP.
Detention—Juvenile	Beds for target years *(based on arrest-sentencing trend for juvenile population)*	1994 Space Plng. Report: 99 beds for 2005 112 beds for 2014 *(not counting beds for outside contracts)* 20-40 in day detention	2005: 44 beds av. daily; 71 high; 25 Low; 80 bed capacity. 2005 Day Detention: 10 av. daily	Same as 2004 – 2009 CFP.
Jail—Adult *(incl. Satellite)*	Beds/inmates for target years *(based on peak population forecasts by Regional Jail Advisory. Committee [RJAC] 8/28/96)*	2005: 408 beds/487inmates 2015: 777 beds/653 inmates TCCF Population Project No. 2 – reviewed 7/3/2003	2004: 404 av. daily 408 beds operational capacity.	Same as 2004 – 2009 CFP.
All Co. Gov't. Administration	"x" GSF per FTE employee	219 GSF—for new construction. For existing facilities & rental space: meet the new construction standards to the extent possible.	202 (1994)	Same as 2004 – 2009 CFP without the proposed new addition.
GSF = Gross Square Feet *(includes internal office and external building circulation [hallways, stairwells and elevator shafts], mechanical, public restrooms, etc.)* **NSF = Net Square Feet** *(does not include the above items)*				
Parks & Trails	**LOS 1: Develop** all or part of previously acquired property, or complete development projects that are underway, focusing on those that fill deficiencies in priorities defined by the public, i.e., trails, water access, athletic facilities.	**LOS 1: Development (by 2014):** An additional 590 acres will be developed to provide additional water access, and athletic facilities. The County continues to look for additional revenue sources to develop existing park sites.	6 of 34 park sites and 35 miles of 48 miles of trails have been developed. Acquired: 2,712 acres have been acquired.	Same as 2012-2017 CFP.

Facility	Level of Service (LOS) Units	This CFP LOS Standard *(2016-2021)*	Existing Service Level *(2001 unless noted otherwise)*	Previously Adopted LOS Standard *(2004-2009)*
Parks & Trails (Continued)	Main emphasis is on development of existing undeveloped park properties. **LOS 2: Acquire** additional park lands to insure that a 3.5 acre/1,000 population of developed park and recreation facilities LOS can be maintained through 2021.	**LOS 2: Acquisition:** Acquire opportunity properties to insure an adequate land base in the future for maintaining the 3.5 acres/1,000 population LOS. Currently, the inventory of undeveloped land is adequate to meet this LOS.		
Roads	Letter designations based on motorist delays & traffic flow *(A=no delays to F=delays of over one minute)* Table 5-1 (p. 5-8) in Chapter 5 of the Comp. Plan describes the letter system.	**Urban:** *Olympia, Lacey, Tumwater UGAs*--D (E for high density residential corridors) *Yelm UGA*--C resid. zones; D commercial & Lt. Indus. zones; F urban core *Tenino & Rainier UGAs*—*D Grand Mnd. UGA*--D **Rural:** C For exceptions: see p. 6-39	**Urban:** Varies: A - E **Rural:** Varies: A - D	Standard only relates to LOS for roadway capacity – for overall roadway needs / priorities see supplement.
Sewer Systems **Rural:** Boston Harbor, Tamoshan, Beverly Beach, and Olympic View; **Urban:** Grand Mound Woodland Creek Estates	Equivalent Residential Units (ERU): Cubic feet per month of sewerage discharge as measured at the source, based on the following minimums; Rural: ERU=900 cf/mo Urban: ERU=700 cf/mo	**Rural:** Capacity to provide sewer collection and wastewater treatment services for residential uses. **Urban:** Capacity to provide sewer collection and wastewater treatment services for residential, commercial, and industrial uses. In addition, Rural and Urban systems shall meet federal, state and local permit requirements for receiving water standards, whenever possible.	For both Rural and Urban systems, the number of ERUs varies by facility.	Same as 2015-2020 CFP.

Facility	Level of Service (LOS) Units	This CFP LOS Standard *(2016-2021)*	Existing Service Level *(2001 unless noted otherwise)*	Previously Adopted LOS Standard *(2004-2009)*
Water Systems **Rural:** Boston Harbor and Tamoshan; **Urban:** Grand Mound	**Equivalent Residential Units (ERU):** Cubic feet per month of water consumed as measured at the source, based on the following minimums: **Rural:** ERU=900 cf/mo **Urban**: ERU-700 cf/mo	**Rural:** Capacity to provide domestic water and fire flow services for residential and limited commercial uses. **Urban:** Capacity to provide domestic water and fire flow services for residential, commercial, and industrial uses. In addition, Rural and Urban water systems shall meet current federal, state and local drinking water standards, whenever possible.	For both Rural and Urban systems, the number of ERUs varies by facility	Same as 2015 – 2020 CFP
Solid Waste	**LOS A** – Includes all 3 service level units; **LOS B** – Includes a combination of any 2 service level units. **LOS C** – Includes 1 or no service level units.			
	1. Regulatory	**New or Existing Facility:** Meets or exceeds federal, state, and/or local regulatory requirements.	Capacity to meet waste generated by users: Disposed of 172,000 tons per yr.	Last standards adopted 2001.
	2. Health/Safety:	**New or Existing Facility:** Meets or exceeds federal, state, and/or local health / safety issues for public or employees.	Capacity to meet waste generated by users: Diverted (reduced or recycled 38% of waste generated.	Last standards adopted 2009.
	3. Policy:	**New or Existing Facility:** Addresses a solid waste comprehensive plan goal or policy.		Last Standards adopted 2009

Facility	Level of Service (LOS) Units	This CFP LOS Standard *(2016-2021)*	Existing Service Level *(2001 unless noted otherwise)*	Previously Adopted LOS Standard *(2004-2009)*
Stormwater	**LOS A -** Includes all 3 service level units **LOS B -** Includes a combination of any two service level units. **LOS C –** Includes 1 or no service level unit.			
	Local Flood Control: Provide capacity to store stormwater runoff volume and / or reduce peak flow from an "x" year storm event.	**Facilities for new growth:** Conveyance meets 25-year 24-hour event for public and private street piped systems and 100-year, 24-hour event for open channels and property protection. Detention: Provide capacity to store stormwater runoff volume and reduce peak durations such that post-development stormwater discharge durations match pre-development durations for a range of pre-developed discharge rates from 50% of the 2-year peak flow up to the full 50-year peak flow. Infiltration: Match pre-development to post development average annual infiltration for sites where they pre-developed short-term infiltration rate exceeds 0.5 inches/hour. **Facilities to improve existing deficiencies:** Meet the new growth standard wherever possible.	**New facilities:** At the standards. **Pre-existing facilities:** Varies	Same as 2013-2018 CFP Standard adopted 2009 with New Drainage Manual effective Nov. 16, 2009

Facility	Level of Service (LOS) Units	This CFP LOS Standard *(2016-2021)*	Existing Service Level *(2001 unless noted otherwise)*	Previously Adopted LOS Standard *(2004-2009)*
Stormwater (continued)	**Water Quality:** Meet federal, state, or local water quality standards in streams, rivers, lakes, and Puget Sound	**Facilities for new growth:** Water Quality Design Storm Volume: The 91st percentile, 24-hour runoff volume estimated by an approved continuous runoff model. Water Quality Design Flow Rate: Preceding detention facilities: Flow rate at or below which 91 percent of runoff volume is routed through the facility as determined by a continuous runoff model. Downstream of detention facilities: Flow rate of 2-year recurrence interval release from detention facility designed to meet flow duration standard using an approved continuous runoff model. Provide basic treatment (80% TSS removal), enhanced treatment (50% metals removal), phosphorous, and/or oil treatment based on project type & size. **Facilities to improve existing deficiencies:** Meet the new growth standards wherever possible.	**Varies:** See 303D list, County Water Resources Profile, and Monitoring Reports	Same as 2013-2018 CFP Standard adopted 2009 with New Drainage Manual effective Nov. 16, 2009
	Habitat: Maintain or restore in-stream flows, reduce peaks, minimize bank full flow durations, improve water quality to address habitat related issues (e.g. salmonid, shellfish, etc)	**In-stream Flow Goals at Basin Build out Conditions** ***Peak Flows:*** Maintain, or where possible, reduce durations. ***Bank full Flows:*** Maintain or where possible, reduce durations. ***Base Flows:*** Maintain, or where possible, increase.	**In- stream flows:** Site development proposals may not exceed 2 year pre-developed release rate per Regional Drainage Manual.	Same as 2013-2018 CFP standard adopted in 2009 with adoption of new Drainage Manual effective Nov. 16, 2009.

Table 6-2

Level of Service Change from Existing Standards

Comparison of this Plan's standards for Level of Service To the existing actual service level

The existing actual service levels for these facilities are THE SAME as the Plan's adopted standards:

- Water and Sewer
- Solid Waste
- Stormwater – facilities for new growth
- Rural Roads
- New Coroner Facility, New Juvenile Detention & Family Court Building, Emergency Management Center, Public Health Building, and Evaluation and Treatment Center.
- Parks Acquisition

The existing actual service levels for these facilities are BELOW the plan's adopted standards:

- Some Urban Roads
- County buildings (except for the new ones noted above)
- Stormwater – Some existing facilities constructed prior to 2009 and some retrofitted facilities to improve existing deficiencies
- Parks Development

The existing actual service levels for these facilities are HIGHER than the plans' adopted standards:

- Some Urban Roads

IV. Existing Conditions

Existing conditions refers to the capacity or condition of the current facilities. In order to develop the list of needed capital projects, the existing conditions are compared to the "adopted" or "desired" levels of service. Deficiencies in existing conditions relative to the future need become the basis of capital facilities plan.

Table 6-3, which follows, describes the status of existing facilities relative to future needs and identifies some of the future projects for which financing plans are needed.

Table 6-3
Thurston County Inventory of Public Facilities

Resource Stewardship Department– Water Resources

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
STORMWATER DRAINAGE FACILITIES (legend: cf = cubic feet, lf = lineal feel, ea = each)							
Detention Pond SSWU	Steilacoom Road	1992	$7,500	12,000 cf	Replace / rehab. pond	2020	$22,000
Fish Passage	Green Cove Creek	1996	$70,000	200 lf	Replace Facility	2046	$647,000
Mountain Aire	Mountain Aire Drive	1998	$118,300	5,333 cf Retention 2,400 gal. treatment	Facility Replacement	2018	$337,000
Tanglewilde East	Queets and Skykomish	1998	$237,325	12,182 cf Retention 6,000 gal treatment	Replace Infiltration Gallery	2018	$460,000
Forest Glen	Forest Glen Drive	1998	$163,820	3,600 gal treatment	Replace Gallery	2028	$587,000
Boulevard Road	Boulevard Road	1998	$318,250	503,200 cf Retention 294,700 cf treatment	Restore infiltration system.	2038	$567,000
Evergreen Terrace	Sitka Street	1998	$153,000	9,146 cf Retention 2,100 gal treatment	Replace Gallery	2023	$ $515,000

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
Hidden Forest	Hidden Forest Drive	1999	$728,800	6,740 cf Retention and treatment	Replace pump station, conveyance, outfall.	2019	$1,046,000
Carpenter Loop Phase 1 SSWU	Carpenter Loop	1999	$150,000	6,283 cf Retention	Replace gallery & treatment facility.	2029	$472,000
Carpenter Loop Phase 2	Carpenter Loop	2000	$175,500	12,436 cf Retention 2,400 gal treatment	Replace gallery & treatment facility.	2030	$479,000
Lake Forest	Walthew Dr., Harvard Dr. Lake Forest Dr.	2000	$201,800	9731 cf Retention 4,800 gal treatment	Replace treatment facility and gallery.	2030	$585,000
Tanglewilde South	5th Way SE	2000	$174,000	12,436 cf Retention 2,400 gal treatment	Replace treatment facility and gallery.	2030	$529,000
Tanglewilde South	6th Avenue and Bulldog Street	2001	$237,500	20,561 cf Retention 7,200 gal treatment	Replace treatment facility and gallery.	2031	$798,000
McAllister Treatment Upgrades	Wendy Dr SE; Planer St. SE; Northwood Dr. SE; Gem Dr. SE; Summerfield Ave. SE;	2001	$222,600	1272 cf Treatment	Replace facilities.	2051	$336,000
Timberlakes Location 1 -6	Sierra Drive SE, Mill Ct SE, Timberlake Dr. SE	2002/2003	$715,500	9,500 gal. treatment 25,000 cf retention	Replace facilities.	2032	$2,060,000
Thompson Place 1 – 3.	Along 14th Ave. NE from Merkel to Horne St. NE	2004	$895,000	11 cfs treatment, 52,000 cf retention	Thompson Place Phase 1 – 3 Regional Pond	2034	$2,726,000

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
Hawaiian Court	Cul de sac	2005	$172,000		Replace Treatment facility and gallery	2035	$687,000
Jim Court	Cul de sac	2005	$69,300	12 cfs treatment	Replace treatment facility	2045	$492,000
Mallard Pond	Mallard Dr. at Rockcress	2006	$543,000	25,000 cf retention	Replace facilities and profile pond	2026	$305,000
Athens Beach		2006	$21,600	Conveyance	Replace conveyance	2056	$179,000
Lakemont and 49th	Lakemont Ave. and 49th	2007	$235,000	8 cfs treatment	Treatment & conveyance.	2057	$1,777,000
Evergreen Terrace Phase I	9th Ave	2008	$365,000	Treatment retention	Replace facilities	2054	$1,095,000
Evergreen Terrace Phase II	8th Ave	2009	$126,000	Lf conveyance retention	Replace conveyance and profile pond	2049	$155,000
Evergreen Terrace Phase III	9th Ave. at Torrey	2011	$350,000		Treatment and Conveyance	2051	$430,000
Vactor Waste Decant Facility	WARC	2011	$400,000		Replace Facilities	2051	$1,229,000

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	Location	Date Acquired	Estimated Current Value	Capacity or size	Needed Improvements	Year Needed	Estimated Cost
Husky Way Infiltration Gallery	Husky Way and Carpenter Road	2012	$$200,000	8 Drywells & 350 lf 12 in. perforated infiltration pipe	Replace Facilities	2032	$561,000
Meridian Heights Bluff Repair and Outfall	East Meridian Drive NE on Nisqually View Loop	2013	$150,000	Pipe and outfall on the beach	Replace Facilities	2043	$311,000

Public Works Department - Parks

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	Location	Date Acquired	Estimated Current Value	Capacity or size	Needed Improvements	Year Needed	Estimated Cost
PARKS **Active Regional Parks**							
Deschutes Falls	SE	1992		155 Acres	Develop trails, interpretive center, overlooks, picnic areas, caretaker facilities	2016	$150,000
Kenneydell	SW	1988 / 1997 1999		18 Acres 23 Acres Addition	Misc repairs as needed Parking trails, picnic areas, ball fields, restroom	2016	$200,000
Guerin	NW	1976		40 Acres	Develop trails, viewpoint, picnic shelters, picnic areas, playground, viewpoints /dock, parking areas	2017 -	$200,000
Rainier View Park	SE	1996		54 Acres	Picnic areas, trails, camping areas, restrooms.		
Ruth Prairie Park	SE	1996		35 Acres	Picnic areas, trails, camping areas, restrooms, picnic shelters		
Cooper Point	NW	2005		32 Acres	Develop trails, restroom facilities, and parking	2021	$500,000

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
PRESERVES							
Lake Lawrence Park	SE	1988		15 Acres			
Glacial Heritage Preserve	SW	1989-90		1,020 Acres	.		
Woodland Creek Wetlands	NE	1987		75 Acres			
Johnson Point Wetlands	NE	1990		26 Acres			
Black River Natural Area	SW	1991		13 Acres	.		
Indian Road	NE	1940		5 Acres			
TRAILS							
Chehalis Western	NE-SE	1991		182 Acres	Pave, develop trailheads for parking & restrooms, benches, scenic overlooks.	2016 - 2020	$690,000
Yelm – Tenino Trail	SE	1991		20 Acres	Deschutes Bridge Upgrades, develop parking area, restrooms, ball fields, picnic areas & shelters.	2018-2020	$335,000
Chehalis Western (Vail Loop Trailhead)	SE	1996		3 Acres	.		
67th Ave. Trailhead	NE	1991		Included in trail acreage			
Chambers Lake Trailhead	NE	1991		3 Acres			
Fir Tree Road Trailhead	SE	1991		2 Acres			
Yelm Center Trailhead	SE	1993		Included in trail acreage			
Tenino Park Trailhead	SW	1993		Included in trail acreage			

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
Rainier Trailhead	SE	1993		Included in trail acreage			
Yelm-Tenino	SE-SW	1993		400 Acres			
Gate-Belmore	NW-SW	1996		243 Acres	Pave, develop trailheads with parking & restrooms, viewpoints, and benches	2017-2019	$4,000,000
Smith Lake	NE	2007		3 Acres			
HISTORIC SITES							
Mima Cemetery	SW	1869		2 Acres			
Ft. Eaton Monument	SE	1982		1 Acres			
George Washington Bush Monument	SE	1995		1 Acres			

Public Works - Utilities

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
SEWER SYSTEMS							
Grand Mound	Southwest	1998	$10,700,000	1,880 – 5,560 ERU	New Secondary Oxidation Plant, Treatment Plant Expansion for Class A water treatment	2019 - 2020– 2019 - 2020	1,910,000 $2,300,000
Boston Harbor	North	1990	$3,000,000	254 ERU	Waste water treatment plant, emergency backup generator	2020	$80,000

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
Tamoshan / Beverly Beach	Cooper Point	1976	$500,000	116 ERU	Watermain upgrades and emergency generator	2015 – 2019	$1,025,000
Olympic View	NW	1977 Upgraded 1998	$210,000	27 ERU	Sewer collection and treatment improvements.	2016 – 20167	$39,000
WATER SYSTEMS							
Grand Mound	Southwest	1998	$3,500,000	2,400 – 4,800 ERU	1) Well and pumps #3 and #4. 2) Grand Mound Way Loop Water Main	20115-2019	1) $1.000.000 2) $1,000,000
Boston Harbor	North	1989	$1,500,000	300 ERU	Water main replacements and water treatment expansion	2015 – 2019	$180,000
Tamoshan	Cooper Point	1994	$300,000	94 ERU	Primary and secondary water main replacement Water Treatment expansion	2015 – 2019 2017	$925,000 70,000

Public Works – Solid Waste

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
SOLID WASTE							
Thurston County Waste and Recovery Center (WARC) formerly Hawks Prairie Landfill	Hogum Bay Road	1948	$20 million	175,000 tons per year	None – see below for specific improvements		

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
Rainier Drop Box	Rainier	1960□	$300,000	5,000 tons per year	Rainier Drop Box Improvements	2016	$100,000
Rochester Drop Box	Rochester	1960□	$900,000	5,000 tons per year	Rochester Drop Box Improvements	2016	$100,000
WARC Process Controls and Alarms	WARC	Included above in Thurston County Waste and Recovery Center (WARC).	$563,000				
WARC Industrial Wastewater Facilities	WARC	1990	$1,000,000	3.8 million gallons per year			
WARC Self Haul Recycle area	WARC	1988	$250,000	3,000 tons per year			
WARC HazoHouse	WARC	2010	$2,000,000	150 customers per day			
WARC Closed Loop Park	WARC	Included above in Thurston County Waste and Recovery Center (WARC).					
WARC Metal Material Recovery	WARC	2007	$300,000	20,000 sf			
WARC Gas collection system	WARC	2001	$1,250,000	2,500 cfm	Construct and/or modify existing collection system	2016 – 2018	$2,500,000
WARC Equipment Storage Bldg.	WARC	1988	$50,000	500 SF	Construct new Automotive and Equipment Storage Building	2017	$1300,000
WARC Transfer Station	WARC	2000	$6,775,000	205,000 tons per year	Expansion to existing building	2018 – 2020	$3,100,000

Public Works Department - Roads

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
TRANSPORTATION							
Rural Minor Arterial	County-Wide	Note 1	Note 2	14.467	Note 3	2015 - 2035	$7,578,000
Rural Major Collector	County-Wide	Note 1	Note 2	225.549	Note 3	2015 - 2035	$120,117,000
Rural Minor Collector	County-Wide	Note 1	Note 2	53.630	Note 3	2015 - 2035	$31,573,000
Rural Local Access	County-Wide	Note 1	Note 2	483.313	Note 3	2015 - 2035	$30,834,000
Urban Principal Arterial	County-Wide	Note 1	Note 2	7.308	Note 3	2015 - 2035	$4,369,000
Urban Minor Arterial	County-Wide	Note 1	Note 2	34.667	Note 3	2015 - 2035	$26,795,000
Urban Collector	County-Wide	Note 1	Note 2	17.901	Note 3	2015 - 2035	$8,535,000
Urban Local Access	County-Wide	Note 1	Note 2	184.717	Note 3	2015 - 2035	$5,582,000
Bridges	County-Wide	Note 1	Note 2	107	Note 3	2015 - 2035	unknown

Bike Lanes--As upgrades are made to any road above local access, paved shoulders are added which provide space for pedestrian and bicycle use.

Note 1: Date acquired varies for each road and many times even sections of roads have different acquisition dates, some dates go back to territorial times.

Note 2: No valuation for roadway classification exists. The total value of our transportation system is $361,700,000 , based on Government Accounting Standards (GASB) procedures used to establish bond rating.

Note 3: See Capital Facilities Plan Supplement "Basis for Selecting Projects For the CFP".

Central Services Department

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
COUNTY BUILDINGS							
McLane Facilities	Mud Bay	April 2, 2007	$1,112,300	16,225 sq. ft.	Condition Assessment still needs to be updated		
Tilley Block Building	Tilley Rd	1986	$237,471		Condition Assessment still needs to be updated		
Tilley Sand Shed	Tilley Rd	1995	$36,489	3,363 sq ft	Condition Assessment still needs to be updated		
Tilley Bldg A-Adminstration	Tilley Rd	2012	$7,207,243	21,767 sq ft	Condition Assessment still needs to be updated		
Tilley Bldg B-Traffic	Tilley Rd	2012	$2,086,177	12,619 sq ft	Condition Assessment still needs to be updated		
Tilley Bldg C-Public Works	Tilley Rd	2012	$7,578,933	24,070 sq ft	Condition Assessment still needs to be updated		
Tilley Bldg D-Storage	Tilley Rd	2012	$1,423,442	11,400 sq ft	Condition Assessment still needs to be updated		
Tilley Bldg E-EOC	Tilley Rd	2012	$4,541,977	11,619 sq ft	Condition Assessment still needs to be updated		
Roads Littlerock Equip. Bldg.	Littlerock	1971	$45,623	936 sq. ft.	Condition Assessment still needs to be updated		
Roads Rainier Equip. Bldg.	Rainier	1975	$102,360	2,100 sq. ft.	Condition Assessment still needs to be updated		
Roads Rochester Equip. Bldg.	Rochester	1978	$102,360	2,100 sq. ft.	Condition Assessment still needs to be updated		
Heritage Hall	Fairground	1941	$1,579,700	9,120 sq. ft	Condition Assessment still needs to be updated		
Benoschek Building	Fairground	1993	$329,400	4,392 sq. ft	Condition Assessment still needs to be updated		
Deck Building	Fairground	1993	$137,728	2,560 sq. ft	Condition Assessment still needs to be updated		
Fir Building	Fairground	1993	$136,006	2,528 sq. ft	Condition Assessment still needs to be updated		

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
Sharp Building	Fairground	1993	$139,450	2,528 sq. ft	Condition Assessment still needs to be updated		
Craft and Hobby	Fairground		$334,421	6,216 sq. ft	Condition Assessment still needs to be updated		
Lake Building	Fairground	1992	$172,160	3,200 sq. ft	Condition Assessment still needs to be updated		
Food Court	Fairground		$150,640	2,800 sq. ft	Fair physical condition		
Deschutes Grange	Fairground		$42,454	912 sq. ft	Fair physical condition		
Restroom Buildings	Fairground	1993	$228,229	1,702 sq. ft	Condition Assessment still needs to be updated		
Caretakers Residence	Fairground	April 10, 1998	$42,000	840 sq. ft.	Condition Assessment still needs to be updated		
Exposition Hall	Fairground	2001	$777,100	7,000 sq. ft.	Condition Assessment still needs to be updated		
All sheds and booths	Fairground	Various	$49,065	3,271 sq. ft.	Fair physical condition		
All Barns	Fairground	Various	$696,000	48,600 sq. ft.	Fair physical condition		
Courthouse Bldg. 1	Olympia	1978	$6,920,156	45,421 sq. ft.	Condition Assessment still needs to be updated		
Courthouse Bldg. 2	Olympia	1978	$8,885,329	35,914 sq. ft. Superior Ct.: 6 Ctrms.	Condition Assessment still needs to be updated		
Courthouse Bldg. 3	**Olympia**	1978	$24,192,649	74,471 sq. ft. Jail: 266 beds Dist. Ct.: 3 Ctrms	Condition Assessment still needs to be updated		
Courthouse Bldg. 4	**Olympia**	1987	$2,645,973	17,622 sq. ft.	Condition Assessment still needs to be updated		

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
Bldg. 5	Olympia	2005	$4,120,769	22,000 sq. ft.	Condition Assessment still needs to be updated		
Evaluation and Treatment Center	Olympia	2008	$5,612,875	20,050 sq. ft.	Condition Assessment still needs to be updated		
3400 Building	Olympia	1998	$6,491,507	65,612 sq. ft.	Condition Assessment still needs to be updated		
Ferguson	Tumwater	2006	$693,821	10,800 sq ft.	Condition Assessment still needs to be updated		
Ferguson-Work Release	Tumwater	2006	$4,126,006	10,945 sq ft.	Condition Assessment still needs to be updated		
Elections 2905-29th Ave SW	Tumwater	1994	Leased	10,770 sq. ft.	N/A		
Records Center	Tumwater	1991	Leased	10,000 sq. ft.	N/A		
Juvenile Justice Center	Tumwater	1998 opened	$18,309,900	82,000 sq. ft. in 4 Ctrms.; Detention: 80 beds; Day Detention: 40-80.	N/A		
Emergency Services Center	Olympia	1997	$4,003,344	17,997 sq. ft	Condition Assessment still needs to be updated		
Courthouse Jail Annex and Bathroom Facilities	Olympia	1997	$766,303	3,810 sq. ft. (92 beds)	None	N/A	N/A
Family Support Center	Olympia	**1997**	Leased	1,000 sq. ft.	N/A		
Health and Social Service Building	Olympia	2000	$5,963,700	25,836 sq. ft.	None		
Coroner Facility	Tumwater	2002	$1,045,000	6,950 sq. ft.	None	N/A	N/A
Drug Court / Bristol Court	**Olympia**	2005	Lease	5,008 sq. ft	N/A	N/A	N/A

DESCRIPTION OF CURRENT FACILITIES					FUTURE IMPROVEMENTS		
Facility Name	**Location**	**Date Acquired**	**Estimated Current Value**	**Capacity or size**	**Needed Improvements**	**Year Needed**	**Estimated Cost**
Office of Assigned Counsel-Bldg #6	Olympia	2014	Lease	9,050 sq. ft	N/A	N/A	N/A
Accountability and Restitution Center	Tumwater	2010	$43,648,712	100,000 sq. ft.	N/A	N/A	N/A
Weeds Lease at Millersylvania State Park	Olympia	2010	Lease	1,400 sq ft	N/A	N/A	N/A
Sheriff Storage-New Market	Tumwater	2012	Leased	28,860	N/A	N/A	N/A

V. COUNTY CAPITAL FACILITIES

A summary of the Level of Service Standards for all of the facilities appears at the beginning of this chapter in Section II.

A. Regional Parks, Trails, Open Spaces and Preserves:

Recreation, the pursuit of leisure activities, enjoyment of the outdoors and preservation of open space, habitat and the natural environment are essential elements in maintaining a balance in the quality of life throughout Thurston County.

The Capital Facilities planning process provides a way to establish a comprehensive plan that identifies existing resources, involves an understanding of community needs, and organizes critical information into goals, policies and procedures to acquire, develop, implement, and manage parks and recreation assets.

Thurston County Parks provides for the regional parks and natural resource preserve needs of County residents. The Parks Division will focus its efforts outside the adopted growth management areas. While this focus does not limit the County's ability to work with local communities on less than regional issues and in the urban growth management areas, it sets a higher priority on regional issues. This defines Thurston County Parks' mission as providing regional parks, public/private enterprise parks, natural resource/preserves and trails and greenways.

Thurston County Parks recognizes the importance of coordinating its efforts with other municipal park and recreation based agencies, school districts, parks and recreation districts, private industry and other entities with similar missions. Thurston County participates as a partner to maximize available resources in meeting the recreation, trail and natural resource preserve needs of the entire county.

Thurston County currently has 33 park sites, accounting for a total of 2,645 acres. These sites include twelve active parks (631 acres), only five of which are fully or partially developed, six preserves and three historic sites (1,158 acres) and 12 trails/trail properties, accounting for 47.8 miles of planned 58-mile recreational trail system. Approximately 34.3 miles of the trail system have been developed. The rest of the trail system is currently undeveloped. The county focuses on providing parks, trails and preserves that contain special features intended to be used by all residents of the county.

In 2012, the Parks and Recreation Department and Board of County Commissioners adopted an updated Parks Plan and Level of Service

Standards (LOS). This new plan insures that ongoing work plans and priorities are in line with current needs and demands of the public and is coordinated with efforts and projects of other public agencies.

Thurston County Park's LOS is 3.5 acres per 1,000 resident population. This 3.5acre/1,000 residents LOS, based on projected 2017 population data, creates a need for 878 acres of operational park land.

Since Thurston County has 288 acres of parkland and trails developed and operational, the net increase of land dedicated for park and trail purposes that meets the LOS standard is 590 acres. This LOS standard amounts to a total of 406 acres of Urban/Regional Park land, 61acres of Public/Private Enterprise Park land, and 123 acres of Greenways/Trail lands. Park Classifications and details of park development are found in the Comprehensive Parks, Recreation, Trails and Natural Resource Preserve Plan.

When the proposed land acquisitions in this six year Capital Facilities Plan are added to the current acreage, an adequate LOS is maintained to address the needs and demands of an increasing population through 2017. To insure proper planning for specific needs through the 2021, the Parks Plan is reviewed annually and is fully updated every five years. As part of this long-range planning process, the county will explore acquisition of valuable active park, preserve or other properties that may become available on an "opportunity to acquire" basis. Parklands to be acquired will be focused on meeting specific needs for types of park facilities, not met by other jurisdictions and/or the private sector. The size and amount of specific recreational facilities will vary from area to area, and for a specific Park sub-classification.

Based on public input, the County has identified the highest priority needs as development and acquisition of multiple use trails, water access sites, picnic sites and natural resource preserves.

User fees are currently being utilized for county parks. The fees help to support parks operations and maintenance. [Resolution No. 14450 (12/17/10)]

PARKS AND RECREATION OBJECTIVES, AND POLICIES:

OBJECTIVE 1-K: ***Parks, Trails, and Preserves*** - The County should provide parks, trails and preserves to serve all residents of the county, with needs and funding coordinated with other local governments within the county.

POLICIES:

1. The County should work with cities and other local governments to coordinate park needs throughout the county and to identify regional funding strategies.
2. Acquisition of parks, trails and preserves and development rights to farmlands should occur in a coordinated manner, within an overall plan that identifies priorities, funding sources and a timetable for acquisition.
3. County-wide funding methods where the cities and schools districts may participate with the county should be explored as a means of coordinating acquisition, operation, and maintenance of public parks, open spaces, and year-round recreational programs.
4. Regional parks should be provided by the county to serve all residents of the county District parks should serve residents of higher intensity growth portions of the unincorporated county. Area residents, adjacent cities and others should participate in the funding for acquisition and support of the district parks.
5. The county should cooperate with other public agencies to share public facilities for park and year-round recreation use by county residents.
6. An intergovernmental funding system should be established to acquire, maintain and operate parks and to involve participation by school districts, city and county governments, and others. Such approaches should be explored as county-wide bond measures and a county-wide parks and recreation district.
7. A cooperative program with the cities and school districts should be established to acquire lands for new community and neighborhood parks in the unincorporated urban growth area, as new schools sites are established.
8. Existing schools should be considered as a resource to meet the needs for parks, and the county should help fund the use of school facilities for park and year-round recreational use by county residents.
9. In acquiring and developing parks, trails and other recreation facilities, the County should explore every opportunity to create revenue centers within the park system to generate funding for ongoing park maintenance and operation needs.

NOTE: See Natural Environment Chapter for other park policies.

Table 6-4

PARKS and OPEN SPACE CAPITAL PROJECTS
2016 - 2021

REVENUES FOR PROJECTS Fund Source	2016	2017	2018	2019	2020	2021	6-Yr. Total
Bonds							
Grants		$1,000,000		$350,000		$500,000	$1,850,000
Impact Fees	$250,000		$200,000	$100,000	$100,000		$650,000
REET (Real Estate Excise Tax)	$1,150,000	$500,000	$100,000				$1,750,000
Trail Permit Fees	$15,000	$15,000	$15,000	$15,000	$20,000	$2,000	$82,000
TOTALS	**$1,415,000**	**$1,515,000**	**$315,000**	**$465,000**	**$120,000**	$502,000	**$4,332,000**

EXPENDITURES FOR PROJECTS Project Name	Type	Fund Source	2016	2017	2018	2019	2020	2021	6 Yr. Total
Lacey / Olympia UGA									
Chehalis Western Trail	Dev	R/GN	$275,000	$200,000		$215,000			$690,000
Rainier / Yelm / Tenino UGA									
Yelm - Tenino Trail	Dev	GN/I/TP			$215,000		$120,000		$335,000
Tumwater UGA									
Guerin Park	Dev	GN				$240,000			$240,000
Gate - Belmore trail (1)(2)	Dev/AcQ	GN/R/I	$850,000	$1,000,000					$1,850,000
Kenneydell Park	Dev	I/R		$100,000					$100,000
Rural Thurston County									
Facility Improvements	Dev	R/TP	$140,000	$115,000	$100,000				$355,000
Burfoot Bulkhead	Dev	R		$100,000					$100,000
Parks and Trails Master Plan	MP	R/I				$10,000			$10,000
Deschutes Falls Park	Dev	R	$150,000						$150,000
Cooper Point Park	Dev	GN						$500,000	$500,000
Monarch Park (planning)	MP	R/I						$1,000	$1,000
Parks, Trails and Open Space Acquisition	AcQ	R/I/D/GN						$1,000	$1,000
TOTALS			**$1,415,000**	**$1,515,000**	**$315,000**	**$465,000**	**$120,000**	**$502,000**	**$4,332,000**

DEBT SERVICE AMOUNT	2016	2017	2018	2019	2020	2021	Total
Future Bonds	$277,824	$277,824	$277,824	$277,824	$277,824	$277,824	$1,666,944
Total Debt Service	**$277,824**	**$277,824**	**$277,824**	**$277,824**	**$277,824**	**$277,824**	**$1,666,944**

LEGEND:

GC Grant Committed
GN Grant Noncommitted
D Donations

I Impact Fees
R Real Estate Excise Tax
TP Trail Permit Fees

DEV Development
AcQ Acquisition
MP Master plan

NOTE:
(1) Gate Belmore Trail Funding is **also** located in the Roads CFP
(2) 2016 $750,000 is for purchase of northern 1.5 r 1.3 miles of Railroad rirgth-of-way from BNSF

Completed Projects
None

New Projects:
None

Dropped Projects
None

B. Solid Waste:

The RCW 70.95.080 states that: "Each county within the state, in cooperation with the various cities located within such county, prepare a coordinated, comprehensive solid waste management plan." Thurston County coordinated with local jurisdictions to develop the Thurston County Solid Waste Management Plan of 1993 and subsequent plans of 2001 and 2009.

This Solid Waste Capital Facilities Plan identifies those capital projects required to: 1) meet the policy goals and objectives in the Thurston County Solid Waste Management Plan of 2009 and Thurston County Comprehensive Plan; 2) comply with federal and state law; and 3) address facility safety, operational, capacity and obsolescence issues.

Prioritization and Scheduling

A project assessment process objectively ranks projects based on a project's ability to meet Level of Service (LOS) units including regulatory compliance, health/safety goals and policies, sustainability, technical feasibility and associated project costs. Projects are scheduled over a six-year period relative to their ranking. Higher ranking scores indicate a higher priority; whereas lower scores indicate lower priority.

Any project that addresses multiple LOS units will score relatively high and is considered a priority project. For example, a project required by a solid waste regulation for handling municipal solid waste may also address public/employee safety and meet a specific local agency planning policy or goal. Projects that address fewer LOS units receive a lower ranking score and will be scheduled accordingly.

In cases where a priority project requires other ranked projects to be constructed first in order to proceed, the lesser projects receive the same ranking as the higher priority project. Projects currently under engineering design, environmental permitting, and/or construction efforts have a priority over other projects. Shifting priorities is therefore avoided to maintain a programmatic approach to both successfully and efficiently complete the Annual and 6YR capital plan. Changes in priorities occur only when an unforeseen circumstance causes a capital failure requiring immediate attention.

Funding

Solid waste capital projects are typically funded through two-revenue sources, including solid waste tipping fees and post-closure reserve funds. Tipping fees are those rates, charges and fees paid by the self-haul (public) and commercial customers that use Thurston County Solid Waste Facilities. In 2009, the Board of County Commissioners adopted an ordinance establishing solid waste tipping

fees for the Waste and Recovery Center and Drop Box Facilities effective January 1, 2010. The ordinance also automatically increases
the tipping rates from $80/ton to $110/ton on Jan 1, 2010. The current tipping fees plus an increase scheduled for January 1, 2012 of $9/ton appear sufficient to fund planned solid waste programs and capital facility projects for the next 10 years. Programs and projects are reviewed annually. Future tipping fees and annual adjustments may be modified at the Board's discretion, if the tipping fees plus the automatic annual adjustments are insufficient to fund planned solid waste activities.

WAC 173-350-600 requires municipal corporations establish a financial surety known as a Post Closure Reserve to fund monitoring, maintenance and other activities on a closed landfill for a period of thirty-years. Thurston County established this reserve by dedicating a portion of tipping fees to the Post Closure Reserve from the early 1990s through December 31st 2002. The post closure care period was subsequently initiated January 1, 2003. As of December 31st 2014 the county had approximately $ 15,969,000 in post closure reserve.

Capital projects required to maintain the closed landfill cells are funded from the post closure reserve. The following table shows what projects are being funded through post closure funds and what projects are being funded through tipping fees.

Solid Waste Goals and Policies
GOAL: PROVIDE FOR THE MANAGEMENT OF SOLID WASTE AND HAZARDOUS WASTES ON A COUNTY-WIDE BASIS, INCLUDING PLANNING FOR FACILITIES AND SERVICES.

POLICIES:
1. The county should require that handling and disposal of solid and hazardous waste be done in ways that minimize land, air and water pollution and protect public health.

2. The county should undertake strategies for dealing with solid wastes in the following order: waste reduction, recycling, energy recovery, and proper, safe disposal.

3. The county should continually explore new approaches for waste reduction, recycling, energy recovery, and methods of disposing of solid wastes.

4. The county should continue to implement programs recommended in the county's Moderate Risk Waste Plan to provide for safe disposal of household and small business hazardous wastes outside of landfills.

5. The county should seek practical solutions to problems of illegal dumping.

6. The county should require that dredging and disposal of sediments be done in a manner that does not pose serious health risk to humans or result in adverse effects to water and land resources, including biological organisms.

7. The county should require that all facilities which store, process or use hazardous materials or generate or treat hazardous wastes in their operations be sited in compliance with state and local laws, best management practices for the protection of groundwater, surface waters, and air quality and be periodically monitored for compliance with such laws and practices.

8. The county should implement and update the county Moderate Risk Waste Plan.

9. The county should maintain and update the county Solid Waste Management Plan.

10. The county should support and enhance waste reduction and recycling efforts.

11. The county should act as the coordinating entity in the upland disposal of clean and contaminated dredge sediments, under the authority of Article 5 of the Sanitary Code.

12. The county should revise the Zoning Code to ensure consistency with the adopted Moderate Risk Waste Plan, the Northern Thurston County Ground Water Management Plan, the Critical Areas Ordinance and the Comprehensive Plan's policies.

13. The county should encourage through education and technical assistance the use of safer, less hazardous products and the reduction of hazardous materials.

14. The county should consult with the appropriate regional transportation planning agencies and neighboring jurisdictions prior to establishing prohibitions for commercial hazardous materials.

Table 6-5
Public Works Solid Waste Projects
2016 - 2021

REVENUES FOR PROJECTS Fund Source	2016	2017	2018	2019	2020	2021	6-Yr. Total
Solid Waste Tipping Fees, Rates and Charges[1]	$550,000	$1,400,000	$200,000	$1,500,000	$1,500,000	$100,000	$5,250,000
Post Closure Reserve (PCR)[2]	$1,631,000	$1,000,000	$650,000		$150,000		$3,431,000
Other[3]							
TOTALS	**$2,181,000**	**$2,400,000**	**$850,000**	**$1,500,000**	**$1,650,000**	**$100,000**	**$8,681,000**

EXPENDITURES FOR PROJECTS Project Name	Fund Source	2016	2017	2018	2019	2020	2021	6 Yr. Total
City of Lacey Urban Growth Area								
WARC Transfer Station Expansion	Fees			$100,000	$1,500,000	$1,500,000		$3,100,000
WARC Automotive, Equipment Storage Area and Field Office	Fees		$1,200,000	$100,000				$1,300,000
Solid Waste Facilities Assessment	fees	$200,000						
Post Landfill Closure Improvements	PCR	$1,481,000	$1,000,000	$500,000				$2,981,000
Beneficial Re-use of Closed Landfill	PCR	$50,000		$50,000		$50,000		$150,000
WARC Landfill Settlement and Repairs	PCR	$100,000		$100,000		$100,000		$300,000
WARC Water Resevoir Tank	Fees		$200,000					$200,000
WARC Public Tipping Storm Water Conveyance Line	Fees	$150,000						$150,000
Rural Thurston County								
Rainier Drop Box Improvements	Fees	$100,000					$50,000	$150,000
Rochester Drop Box Improvements	Fees	$100,000					$50,000	$150,000
TOTALS		**$2,181,000**	**$2,400,000**	**$850,000**	**$1,500,000**	**$1,650,000**	**$100,000**	**$8,481,000**

Notes:
[1]Funding sources include: Fees= Solid Waste Tipping fees, rates and charges.
[2]PCR= Post-Closure reserve funds.
[3]Other revenue could include other local agencies, grants, providing funding for mutually benefical projects

Dropped Projects:
WARC Development (Yard Debris Area)

Revised 10/28/15

New Projects:
Water Reservoir
Public Tipping Area Area Stormwater Conveyance

Completed Projects:
None

C. Stormwater Facilities:

Thurston County's rich diversity of terrain, including mountain foothills, high bluffs, floodplains, wetlands, and multiple drainage basins leading to Puget Sound and the Pacific Ocean via the Chehalis River, provide extensive wildlife habitat, potable water and interesting challenges in managing impacts of development. Chapter 9 of the Comprehensive Plan provides policy guidance related to how stormwater should be managed in Thurston County to the maximum extent practicable avoiding adverse impacts to the natural environment. The County recently completed a number of important tools for managing stormwater in accordance with these policies, including basin characterizations and a GIS inventory of existing facilities. These tools will support the County in assuring that natural wetlands, streams, lakes and rivers are preserved in their most natural states or that impacts to them are mitigated.

These tools as well as existing basin plans will be used by the Thurston County Stormwater Management Utility to augment current capital plans. The original Stormwater Utility was formed in 1986 in the northern part of the county pursuant to Chapter 36.89 RCW. The stormwater utility has completed seven (7) basin plans to date, and has partnered with the cities on two others. The County will share the cost of constructing facilities within the Woodland, Chambers and Moxlie Basins with the Cities of Lacey, Olympia and Tumwater. Planning for the peninsulas and more rural basins will be undertaken to complete basin planning efforts for all the county drainage basins as funding and priorities allow.

In 2008[1], the Stormwater Management Utility was expanded countywide to address NPDES permitting and countywide basin planning. Projects for the expanded area will be generated by the basin characterization and GIS inventory mentioned above. The stormwater facilities in this Capital Facilities Plan (CFP) are placed on the 6-year and 20-year stormwater CFP, as well as for capital projects intended to address emerging environmental or regulatory issues relating to flooding, water quality and/or habitat degradation. Annually, projects are comprehensively reviewed and prioritized according to a ranking system. This ranking system was first established in 2002. The ranking system was revised in 2008, 2010, and most recently, in 2013 and considers:

1. *Location*
    a. UGA and NPDES Permit boundaries
    b. Fish bearing waters, BIBI monitoring points
    c. Proximity to water body, stream size
    d. Well head protection areas
    e. High ADT roadway or high use sites

[1] Board of County Commissioners action on August 6 , 2007

f. Number of projects previously completed in the area

2. *Project Feasibility*
   a. Ease of permitting
   b. Potential utility or site constraints
   c. Parcel ownership and number of parcels involved
   d. Community acceptance of the project
   e. Access for construction and maintenance
   f. Project impact on site use and operations (mainly commercial and industrial considerations)
   g. Sufficiency of space
   h. Existing grading and drainage and infrastructure configuration
   i. Level of existing treatment and flow control

3. *Compliance with federal and state water quality regulations*
   a. Identified in long range plan document
   b. Facility maintenance identified in resource plan
   c. Project required under regulatory action

4. *Protection of People and Property*
   a. Project reduces threat to human safety, health or welfare.
   b. Frequency of reoccurrences
   c. Existing drainage problem
   d. Detrimental impact to public facilities
   e. Problem Frequency
   f. Provides maximum benefit to ratepayers
   g. Protects water Quality
   h. Enhances environmental protection to sensitive resources
5. *Water Quality and Quantity*
   a. Total area treated or project size for restoration projects
   b. % impervious in the tributary area
   c. Closed conveyance vs. open conveyance
   d. Land use
   e. Amount and degree of treatment provided
   f. Pollutant removal effectiveness
   g. Degree and amount of flow control provided

h. Overall efficiency of project

6. *Environment, Habitat & Ecology*
    a. Environmental enhancement and benefits
    b. Habitat enhancement for fish
    c. Habitat enhancement for other species
    d. Priority habitats in the vicinity
    e. Forest, native vegetation, or soils restoration
    f. Recreational, open space, and connectivity considerations

7. *Public Stewardship*
    a. Cost per treated area and cost to stormwater utility
    b. Special opportunity for high priority project may be lost
    c. Significant reduction in maintenance and operations costs
    d. Support economic development by solving regional stormwater problem
    e. Urgent problem
    f. Supports interjurisdictional solutions
    g. Increases public education and citizen involvement

8. Discretionary Rating
    a. Best professional judgement of evaluator to take in consideration other project factors not captured above

Once ranked, each project is given additional consideration as it relates to drainage basin planning and utility needs, as appropriate.

The following projects were ranked using the system described:

Capital Project	Priority/Why Needed	Status
Woodland Creek Estates	**Priority #1**	Feasibility analysis

Capital Project	Priority/Why Needed	Status
– Retrofit	Water quality treatment retrofit to address bacterial pollutants to Woodland Creek.	and concept design completed in 2013. Preliminary design and 90% design in 2014 under Ecology Capacity Grant. Construction in 2016.
Woodard Retrofit Study – Site 5	**Priority #2** Runoff treatment for roadway and adjacent property runoff. Enhanced roadside ditches and filter vault. Treats 12.3 acres. 91% of runoff treated.	Pre-Design completed. Design in 2016 and construction in 2017.
Woodard Retrofit Study – Site 1	**Priority #3** Runoff treatment for roadway and adjacent property runoff. Roadside bioretention and filter vault. Treats 9.1 acres. 91% of runoff treated.	Pre-Design completed. Design in 2016 and construction in 2017.
Woodard Retrofit Study – Site 2	**Priority #4** Runoff treatment for roadway and adjacent property runoff. Enhanced roadside ditch and filter vault. Treats 12.4 acres. 91% of runoff treated.	Pre-Design completed. Design in 2017 and construction in 2018.
Woodard Retrofit Study – Site 3	**Priority #5** Runoff treatment for roadway and adjacent property runoff. Roadside bioretention and enhanced roadside ditch. Treats 6.0 acres. 96% of runoff treated.	Pre-Design completed. Design in 2016 and construction in 2017.

Capital Project	Priority/Why Needed	Status
Woodard Retrofit Study – Site 4	**Priority #6** Runoff treatment for roadway and adjacent property runoff. Roadside bioretention swales. Treats 159 acres. 40-47% of runoff treated.	Pre-Design completed. Design in 2018 and construction in 2019.
Manzanita Rd.	**Priority # 7** Reduce marine shoreline erosion at outfall	Feasibility analysis and concept design in 2014. Final design begins 2018 with construction 2019.
Cedar Shores Subdivision Pond Retrofit	**Priority # 8** Upgrade existing stormwater pond to provide water quality treatment and reduce gulley erosion.	Feasibility analysis and concept design in 2014. Final design in 2018 and construction in 2019.
Donnelly Drive	**Priority # 9** Reduce urban street flooding, reduce peak flows to Chambers Ditch and treat stormwater before discharge to ground water and Chambers Ditch	Feasibility analysis and concept design in 2014. Final design begins 2019. Construction begins in 2020.
Swayne Rd.	**Priority #10** Reduce marine shoreline erosion at outfall	Preliminary and 90% design completed in 2014 under a Capacity Grant from Ecology. Final design in 2015. Construction in 2016.
Sherwood Firs	**Priority # 11**	Feasibility analysis and concept design

Capital Project	Priority/Why Needed	Status
	Reduce local flooding and provide WQ treatment	in 2015. Final design begins 2020 with construction in 2021.
Stuart Place	**Priority # 12** Reduce local flooding and provide WQ treatment	Feasibility analysis and concept design in 2014. Final design begins 2020 with construction in 2021.
Tilley Rd. @ the curves	Culvert Replacement to reduce local flooding	Planning and design in 2013/2014. Construction in 2015. Joint project with Public Works.
Waddell Creek Rd. @ Pants Creek	Culvert replacement to reduce local flooding and improve fish passage	Continued monitoring required prior to start of design. Design in 2017 with construction in 2018. Joint project with Public Works.
Cedar Flats Road at Swift Creek	Culvert replacement to reduce local flooding and provide fish passage	Planning and design begins 2020. Construction in 2021. Joint project with Public Works.
Munson Road at Swift Creek	Culvert replacement to reduce local flooding and provide fish passage	Planning and design begins in 2020. Construction in 2021. Joint project with

Capital Project	Priority/Why Needed	Status
		Public Works.
Stormwater Retrofit Studies	Using similar methodology to study completed for Woodard Creek Basin additional basins within Thurston County will be studied to identify at least 5 retrofit projects for further programming and construction.	Complete one study approximately every 2 years. Need to prioritize basins for studies. Eld/McLane and Lower Deschutes are potential candidates during this 6-year plan.
Retrofit Study Projects	Projects identified in additional basin retrofit studies will be programmed for design and construction with one project approximately every two years.	Specific project identification will result from the stormwater retrofit studies proposed for basins throughout the county.
Thurston County In-lieu Fee Program Property Acquisition/Wetland Mitigation	**Project underway** Pilot project In-lieu-fee habitat enhancement and wetland restoration	Purchase of initially identified property not completed. New property being considered and purchase anticipated in 2015/2016.
Land Acquisition	**Opportunity** Land acquisition is executed as opportunities supported by the Board of County Commissioners are authorized.	Land acquisition is executed as opportunities supported by the Board of County Commissioners are authorized.

Capital Project	Priority/Why Needed	Status
Future Capital Facility Projects	**Unknown** Projects to be identified during county-wide drainage infrastructure mapping assessment efforts.	Drainage Facility Mapping was completed it 2014. Results to be used to identify projects.
Capital Facilities Replacement Assessment	**Capital Replacements** Detailed assessments of existing capital facilities approaching end of life to evaluate remaining life.	Six existing facilities were assessed in 2015 and an additional six facilities will be assessed in 2016-2020.
Reserve For Future Capital replacement	Built facilities depreciate annually, a future replacement fund preserves the Utility's infrastructure.	Annual contributions began in 2011.
Emergency Reserve	Reserve to repair existing infrastructure damage due to natural disaster or pay for emergency response.	Lump sum contribution in 2016

The stormwater utility is completed a seven-year project to acquire data that will provide a detailed map of the County's drainage systems. This work assessed the integrity of each drainage component and will aid in identifying future capital facility projects. The stormwater utility is assessing the data collected by contractors and evaluating it to ensure it is a consistent and repeatable method. This effort will be complete in 2016 and will be used to identify stormwater retrofit project opportunities in selected high priority basins on an ongoing basis.

Types of Stormwater Facilities:

There are three types of stormwater facilities.

Flood Control Facilities: Retrofit of stormwater storage facilities to add storage capacity or increase infiltration such as additional dry well disposal systems; and enlarged conveyances with new collection and detention systems within existing developed areas.

Water Quality Facilities: Install or retrofit treatment devices to existing dry well, detention, infiltration and conveyance systems discharging to surface or ground water. Treatment devices might include wet ponds, constructed wetlands, bioretention (rain gardens), grit separators, filters in vaults, bio-swales or other best management practices or new technologies.

Habitat Facilities/Surveys: Install in-stream structures to improve fish passage and improve down-gradient shellfish habitat. (Placement of large woody debris, riparian cover, bank stabilization projects are not included in the CFP, but in the stormwater base budget.) Conduct habitat surveys to identify and quantify stream health and down-gradient shellfish areas in association with capital facility planning efforts.

In many instances, flood control facilities (which are intended to provide additional storage) often provide water quality and/or habitat improvements. The additional storage can allow settling of pollutant-carrying sediments. The storage also provides additional detention time, before peak flows enter the stream system. This aids by reducing peak flow rates and erosion of the existing stream channel, which can inhibit fish passage and degrade spawning and shellfish areas.

Some of the current CFP projects are located within the county's shellfish districts. However, it is recognized that applying current stormwater best management practices to these projects may not be effective in reducing fecal coliform loading. Therefore, the county encourages infiltration of stormwater within the shellfish districts as a primary means of managing and treating stormwater whenever technically feasible.

None of the proposed facilities include combining stormwater with domestic sewage (e.g. CSO) and transporting the combined fluids to a waste water treatment plant.

The majority of the proposed stormwater capital facility projects in this plan are intended to correct or alleviate existing flooding, water quality or habitat problems, as well as address public health and safety issues.

Dedicated Storm and Surface Water Utility Rates and Charges for Capital Facilities:

Table 6-6 highlights specific capital facility projects, which will be designed and constructed with a dedicated stormwater capital facility rate or a combination of rates and other funding sources. The projects on this 6-year list are taken from the 20-year CFP that in turn is based upon projects identified in adopted stormwater basin plans and projects intended to address emerging issues.

For any projects planned and constructed within the Urban Growth Area (UGA) for Olympia, Lacey, or Tumwater, reimbursement for county-funded expenditures

related to constructed capital facilities within a city's UGA is subject to further review and future policy decisions. The future policy decisions should also consider how reimbursement might occur for planned capital facilities within future annexations.

From preliminary assessment, revenues generated by the rates and charges for each city's stormwater utility may not be sufficient to reimburse the county for the total capital expenditures associated with constructing stormwater facilities within annexed areas in any one year, however over time reimbursement is possible.

This plan includes stormwater facilities across most of the unincorporated area of Thurston County

In 1998 a capital facility rate was incorporated into the stormwater rates. By 1999, there was enough public interest to expand the Storm and Surface Water Utility rate boundary south to include the Salmon Creek Drainage Basin, located south of Tumwater, WA.

Utility rates and charges collected from within the boundary expansion, combined with a grant and a portion of the real estate excise tax, funded a study to identify the basin's stormwater and shallow groundwater problems, as well as evaluate possible solutions. The Storm and Surface Water Utility rates and charges took effect for the Salmon Creek Drainage Basin in August 1999.

[Resolution No.13265 12/20/04]

In August 2007, the County expanded the stormwater utility making stormwater services county-wide beginning January 2008. These services include planning for and implementing capital facilities projects in the south County.

[Resolution No.13876 8/06/07]

STORMWATER OBJECTIVES AND POLICIES:

OBJECTIVE 1-G: ***Stormwater Facilities*** **-** Thurston County will coordinate with jurisdictions that share stormwater drainage basins to provide stormwater facilities and related management programs that protect surface and ground water quality and habitat, prevent chronic flooding from stormwater, maintain natural stream hydrology and protect aquatic resources.

POLICIES:

1. Thurston County will work with local governments within the same drainage basins to develop common standards and design requirements for stormwater facilities. The County will also plan together with the other jurisdictions for major regional stormwater facilities. Maintenance of stormwater facilities, such as retention ponds and street drainage systems,

could be handled by each jurisdiction separately or together with other jurisdictions.

2. Stormwater utility rates should recognize and implement other Comprehensive Plan recommendations such as providing incentives to preserve agriculture and forestry lands through reduced rates.

3. Comprehensive Drainage Basin Plans, retrofit studies and restoration studies will be used to identify and prioritize necessary stormwater services and capital facilities. As new Basin Plans are adopted and retrofit and restoration studies completed, the County should periodically review and update the Stormwater element of the Capital Facilities Plan. Basin Plans should also be periodically reviewed and updated to address changing environmental conditions.

4. Thurston County should address emerging flooding, water quality, and habitat issues as they arise, and in a timely manner, to avoid adverse impacts to residents, critical areas, resource lands, or infrastructure.

NOTE: See Natural Environment and Utilities Chapters for other policies related to stormwater management.

Table 6-6
Resource Stewardship/Storm & Surface Water Utility - Capital Facilities Plan
2016 - 2021

REVENUES FOR PROJECTS Fund Source	2016	2017	2018	2019	2020	2021	6-Yr. Total
Rates - Resolution 11860 + Ending Fund Bal	$2,974,167	$1,479,678	$1,647,327	$1,816,616	$1,816,616	$1,816,616	**$11,551,020**
Grants/Loans[1]	$1,680,640	$250,250	$344,750	$210,500	$255,000	$140,000	**$2,881,140**
Non Profit and Private Funds Sources		$20,000	$20,000	$20,000	$20,000	$20,000	**$100,000**
Capital Replacement Reserve							
TOTALS	**$4,654,807**	**$1,749,928**	**$2,012,077**	**$2,047,116**	**$2,091,616**	**$1,976,616**	**$14,532,160**

EXPENDITURES FOR PROJECTS Project Name	Fund Source	2016	2017	2018	2019	2020	2021	6 Yr. Total
City of Olympia Urban Growth Area								
Donelly Drive - Infiltration Gallery	SW Rates				$67,000	$150,000	$250,000	**$467,000**
Stuart Place - Conveyance & Treatment	SW Rates					$55,000	$280,000	**$335,000**
Woodard Creek Retrofit - Site 1[1]	**SW Rates/Grant**	$145,000	$330,000					**$475,000**
City of Lacey Urban Growth Area								
Woodland Creek Estates Retrofit[1]	SW Rates/Grant	$455,000						**$455,000**
Sherwood Fires - Phase II	SW Rates					$58,000	$370,000	**$428,000**
City of Tumwater Urban Growth Area								
None								**$0**
City of Yelm Urban Growth Area								
None								**$0**
Grand Mound Urban Growth Area								
None								**$0**
Rural Thurston County and/or Not Limited to one UGA								
In-lieu Fee Program Prop. Acquisition/Wetland Mitiga	Grant	$1,427,140						**$1,427,140**
Tilley Road @ the Curves - Culvert[3]	SW Rates	$67,000	$30,000					**$97,000**
Woodard Creek Retrofit - Site 5 (NEW)[1]	SW Rates/Grant	$82,000	$327,000					**$409,000**
Swayne Road - Conveyance & Treatment	SW Rates	$223,000						**$223,000**
Woodard Creek Retrofit - Site 3 (NEW)[1]	SW Rates/Grant	$32,000	$122,000					**$154,000**
Woodard Creek Retrofit - Site 2 (NEW)[1]	SW Rates/Grant		$62,000	$250,000				**$312,000**
Woodard Creek Retrofit - Site 4 (NEW)[1]	SW Rates/Grant			$144,000	$575,000			**$719,000**
Cedar Shores Retrofitt[1,2]	SW Rates/Grants			$45,000	$107,000			**$152,000**
Manzanita Road Conveyance	SW Rates			$55,000	$280,000			**$335,000**
Waddell Creek @ Pants Creek - Culvert[3]	SW Rates			$128,000				**$128,000**
Munson Road @ Swift Creek - Culvert[3]	SW Rates						$297,000	**$297,000**
Cedar Flats Rd. @ Swift Creek - Culvert[3]	SW Rates						$284,000	**$284,000**
Stormwater Retrofit Studies[1]	SW Rates/Grants	$300,000		$300,000		$300,000		**$900,000**
Retrofit Study Projects[1]	SW Rates/Grants		$160,000	$640,000	$160,000	$720,000	$560,000	**$2,240,000**
Capital Facility Replacement Assessments	SW Repl Fund	$22,000	$4,000	$5,000	$2,000		$11,000	**$44,000**
Land Acquisition/Conservation	SSWU/Non Profit	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000	**$300,000**
Emergency Capital Projects (NEW)[4]	SW Rates	$250,000						$250,000
Future Capital Projects[5]	SW Rates		$303,000	$400,000	$400,000	$400,000	$497,420	$2,000,420
Reserve for Future Capital Replacement	SW Rates	$275,625	$283,894	$298,088	$312,993	$330,000	$350,000	$1,850,600
TOTALS		**$3,328,765**	**$1,671,894**	**$2,315,088**	**$1,953,993**	**$2,063,000**	**$2,949,420**	**$14,282,160**

NOTES:

[1] Includes grants currently awarded and an assumed grant funding rate of 25% applied to future projects with a water quality element.

[2] This project may be contingent on negotiated cost sharing between the county and local Homeowners Association.

[3] Joint Stormwater Utility & Public Works Project - Only SSWU costs shown.

[4] This reserve established for emergent projects associated with flooding or other stormwater emergency. Identified in rating setting process for 2015-2019 Stormwater

[5] Projects not associated with a retrofit study that are identified and programmed into the CFP in future years.

D. Water and Sewer Systems:

Rural Areas:

As a matter of policy, Thurston County does not provide municipal water and/or municipal sewer service to rural areas, with the exception of those areas where a public health-related issue or water quality concern necessitates county involvement. Therefore, this plan does not provide for programmatic construction of capital facilities in association with rural sewer and water systems, which are not currently owned, operated, and maintained by the county.

The county owns 2 rural water systems (Boston Harbor and Tamoshan), and 3 rural sewer systems (Boston Harbor, Tamoshan/Beverly Beach, and Olympic View), and one sewer line system in the Lacey Urban Growth Area (Woodland Creek Sanitary Sewer).

There are occasions when other rural privately-owned water and sewer systems experience operating troubles or failures which have a high potential for affecting a high risk of public health. In those cases the county will often assist the local residents in the planning, engineering and construction of improvements to the existing water and sewer systems to solve these local problems.

This plan also recognizes some existing privately-owned rural water systems may fail financially and become either another municipality's responsibility or a county responsibility by default.

Urban Growth Areas:

City UGAs: Sewer and water systems are expected to be provided to unincorporated parts of areas identified and zoned for urban growth, with these systems constructed as the areas urbanize. The cities are typically responsible for extending these services within the unincorporated parts of urban growth areas. The Woodland Creek sewer line is operated and maintained by the City of Lacey by agreement between the city and the county. The county will own the system until the construction loan is paid off at which time the system will come under the ownership of the City of Lacey.

Grand Mound UGA: An urban growth area was established in the Rochester/Grand Mound area in the late 1970s. The UGA boundaries and zoning were updated in 1995. A Utility Local Improvement District (ULID) was formed through approval by the community in late 1996 to provide water and sewer system improvements in the Grand Mound UGA. Both water and sewer systems are in operation providing service to customers located within the UGA. In 2002, the county established policies to provide water service to properties located outside of the UGA.

Lacey UGA: An urban growth area was established in the Lacey area in the early 1990s. The UGA boundaries and zoning were updated in compliance with City and County Joint Planning for the Lacey UGA. Thurston County has received loan and grant from the Washington State Department of Ecology to

converted 131 septic systems in the Woodland Creek and Covington Place developments to a STEP sewer system that the County will own until the loan is payed-off. The sewer system will be owned but under agreement with the City of Lacey, the city utilities department will operate and maintain the system. The system is expected to begin operating by August 2012 with the first connection. The City of Lacey will take over ownership at which time as the loan with the state has been paid off.

Criteria or Basis for Setting Priorities:

Water and sewer capital facility projects are generally based on the criterion (in order of priority) as listed below:

1. Address existing or emerging public health and/or safety issues;
2. Address compliance with local, state and federal regulatory requirements;
3. Meet goals and objectives of adopted Comprehensive Waste System Plans or Master Sewerage Plans of each respective utility;
4. Improve system reliability and/or reduce dependency on critical facilities;
5. Maintain the current level of service by removing and replacing degraded or aged facilities;
6. Availability of funding (e.g. ULID, rates and charges, grants, loans, etc);
7. Improve or enhance the utility's current level of service; and
8. Acquire existing private utilities or develop new utilities.

PROJECT LIST IN ORDER OF PRIORITY

The following projects were ranked using the criteria above:

Project	Priority / Why Needed	Status
Other Utilities		
Tanglewilde Sanitary Sewer	Unranked Sanitary sewer will replace current onsite septic systems that contribute to degrading water quality in Henderson Inlet.	Pending Board authorization and funding.
Grand Mound Sewer and Water Utilities		
Grand Mound Waste Water Treatment Plant, Second Oxidation Ditch	Priority # 1 Project will Expand the wastewater treatment plan by constructing a second oxidation ditch at the Grand Mound Sewage Treatment Facility Regulatory/ Modernization	Design and construction is scheduled to begin in 2017 with construction completion expected early 2018.
Grand Mound Wastewater Treatment Plant Expansion & Class A Standards	Priority # 2 Regulatory/ Modernization	Improvements required as a condition of using water rights obtained. Construction will be based on system demand over the next four to ten years but is tentatively anticipated for 2019

Project	Priority / Why Needed	Status
Land Acquisition for Well # 3	Priority # 3 Well #3 is required as a condition of Ecology Well Permit. This will allow for well build out to occur for the Grand Mound Water System	Purchase of property for Well #3 expected in 2018.
Grand Mound Well and Pump # 3	Priority # 4 Would like to increase the priority on well #3 & #4 System demand – This is the third of four pumps to complete the Grand Mound Water System total build out	Planning Phase-Construction will be based on system demand over the next six to twenty-years.
Land Acquisition for Well for Well # 4	Priority # 5 Well #4 is required as a condition of the Ecology Well permit. This will allow for well build out to occur for the Grand Mound Water System	Site assessment & purchase of land for Well # 4 expected in 2018
Grand Mound Well and Pump # 4	Priority # 6 System demand -This is the forth of four pumps to complete the Grand Mound Water System build out	Planning Phase-Construction will be based on system demand over the next six to twenty-years.

Project	Priority / Why Needed	Status
Grand Mound Way Loop Water Main	Priority # 7 Project will add to system redundancy and water security to maintain water service in event of damage or repairs to existing main.	Pending acquisition of funding.
Second Grand Mound Reservoir and Booster Station.	Priority # 8 System demand - to maintain required water flows to meet customer and fire flow rates	Pending acquisition of funding.
Vacuum Station Cooling Systems	Priority # 9 System demand - to prevent over heating of vacuum system during normal operations.	Pending acquisition of funding
Tamoshan Sewer and Water Utilities		
Tamoshan Secondary Water Main Replacement	Priority # 1 Remove and replace a failed water main to provide distribution system redundancy.	On Hold

Project	Priority / Why Needed	Status
Tamoshan 63rd Avenue Water Main Replacement	Priority # 2 Replace obsolete water main	Acquisition of funding is necessary in order to design, bid and construct improvements. Please refer to Table 6-9 for planned year of construction
Tamoshan Water Emergency Backup Generator	Priority # 3 Replace obsolete generator	Ongoing upgrade and improvement.
Tamoshan Water Treatment System	Priority # 4 Water Quality Improvements	Pending acquisition of funding
Boston Harbor Water and Sewer System		
Water System Water Main Replacement	Priority # 1 Replace obsolete water main	Acquisition of funding is necessary in order to design, bid and construct improvements. Pending Board authorization
Wastewater Treatment Plant Generator Replacement	Priority # 2 Replace obsolete generator	Ongoing upgrade and improvement.
Water System Treatment Expansion	Priority # 3 Water Quality Improvements	Pending acquisition of funding

Project	Priority / Why Needed	Status
Olympic VIEW Sewer Utility		
Sewer Collection and Sewage treatment Improvements	Priority # 1 Equipment obsolescence / Modernization	Pending Board authorization

WATER AND SEWER OBJECTIVES, AND POLICIES

OBJECTIVE 1-H: ***Sewer Systems*** - Sewer systems should be provided in designated urban growth areas and in rural areas only under limited circumstances.

POLICIES:

1. Thurston County should allow sewer systems in designated urban growth areas. In rural areas, sewer systems should be allowed only to correct identified health hazards or water quality deficiencies of areas of existing development. Expansion or extension into rural areas must be consistent with the Growth Management Act.
2. Decisions on the design capacity and service area designation for such sewer systems in rural areas should be made with consideration of adopted zoning designations of adjacent areas.
3. Where sewer systems are being provided to unincorporated rural areas or the Rochester-Grand Mound area, Thurston County should be the primary sewer system provider through the County Services Act.
4. In unincorporated areas inside the Urban Growth Areas around cities, the cities should be the primary sewer provider. As an exception, the county could provide sewers in a UGA on an interim basis (if the cities are unable to provide the service) or to protect water quality.

5. Utility services within growth areas should be phased outward from the urbanizing core as that core becomes substantially developed, in order to concentrate urban growth and infilling.
6. The County should develop, and periodically review and update, a comprehensive sewerage general plan for all unincorporated rural areas where there are health and water quality problems related to sewage in areas of existing development, and in all urban growth areas where no sewerage planning has been done.

NOTE: Other related policies dealing with sewer systems and water quality are found in the Natural Environment.

OBJECTIVE 1-I: ***Wastewater Treatment and Disposal*** **-** All factors and impacts should be considered in determining appropriate sewage treatment and disposal methods.

POLICIES:

1. Wastewater disposal methods should be determined by considering all factors, such as environmental impacts, long-term effects, technical feasibility, and cost effectiveness, especially the maintenance and improvement of water quality.
2. Wastewater collection, treatment, and disposal alternatives should be encouraged where feasible, where water quality can be protected and/or where appropriate operation and maintenance are provided.
3. Alternative methods of wastewater collection, treatment, and disposal should be discouraged in areas where sewer service is provided or planned. In other areas, they should be considered only when an acceptable plan for operation and maintenance is provided, and they will not adversely affect ground and surface water quality and/or public health.
4. The county should monitor the functioning of on-site wastewater disposal systems and require that they be maintained in a condition that will assure their longevity, protect public health, and prevent contamination of surface and ground water.
5. The county should periodically review and update the capacity and alternatives for wastewater treatment related to the limits of the LOTT treatment plant.

6. The county should review and revise policies for on-site wastewater disposal alternatives to comply with the above policies and adopted state wastewater disposal regulations.

7. The county should examine the building code for standards for low-water use fixtures, and should make available to residents literature comparing efficiency of low-water use fixtures and issues related to the no-flow alternative.

NOTE: Ecology does not allow discharge of chlorine.

OBJECTIVE 1-J: ***Water Supply Facilities*** - Drinking water service inside urban growth areas should be provided by cities or private utility systems which are the designated service providers through coordinated water system planning; the County should provide drinking water systems in rural areas only under limited circumstances.

POLICIES:

1. In order to resolve documented health hazards, safety or pollution in areas of existing rural development, the county may serve as the water utility owner, or develop a proactive assistance program focused on keeping small distribution systems in private ownership.

2 In rural areas where the county provides sewer service, the county or a private utility system should also be the water provider.

NOTE: See Natural Environment and Utilities Chapters for other policies related to management of water systems and water resources

Table 6-7
Public Works /Water and Sewer Utilities
2016- 2021

REVENUES FOR PROJECTS Fund Source	2016	2017	2018	2019	2020	2021	6-Yr. Total
Real Estate Excise Tax				$2,510,000	$1,700,000		$4,210,000
Utility Revenue	$254,000	$175,000	$50,000	$150,000	$830,000		$1,459,000
Grants		$1,132,500	$135,000			$50,000	$1,317,500
Loans		$1,132,500	$135,000	$1,480,000			$2,747,500
TOTALS	**$254,000**	**$2,440,000**	**$320,000**	**$4,140,000**	**$2,530,000**	**$50,000**	**$9,734,000**

EXPENDITURES FOR PROJECTS Project Name	Fund Source	2016	2017	2018	2019	2020	2021	6 Yr. Total
City of Lacey Urban Growth Area								
Tanglewilde Sanitary Sewer	Grant/Loan						$50,000	$50,000
Grand Mound Urban Growth Area								
Grand Mound Wastewater Treatment Plant Second Oxidation Ditch	REET				$750,000	$1,160,000		$1,910,000
Grand Mound Wastewater Treatment Plant Expansion for Class A Reclamation	REET				$1,760,000	$540,000		$2,300,000
Land Aquisition for Well # 3	Utility Revenue/Grants	$15,000		$135,000				$150,000
Grand Mound Well and Pump # 3	Grants/Loan				$350,000			$350,000
Land Acquisition for Well # 4	Utility Revenue/Grants	$15,000		$135,000				$150,000
Grand Mound Well and Pump # 4	Grants/Loan				$350,000			$350,000
Grand Mound Way Watermain Loop	Grant/Loan		$220,000		$780,000			$1,000,000
Second Grand Mound Reservior & Booster Station	Utility Revenue/Grant/Loan/Other	$200,000	$1,800,000					$2,000,000
Vacuum Stations Cooling Systems	Utiltiy Revenue		$80,000					$80,000
Rural Thurston County								
Tamoshan								
Tamoshan Secondary Watermain Replacement	Grant/Loan		$175,000					$175,000
Tamoshan 63rd Avenue Watermain Replacement	Utility Revenue			$50,000	$50,000	$650,000		$750,000
Tamoshan Water Emergency Backup Generator	Utility Revenue				$100,000			$100,000
Tamoshan Water Treatment System	Grant/Loan		$70,000					$70,000

EXPENDITURES FOR PROJECTS Project Name	Fund Source	2016	2017	2018	2019	2020	2021	6 Yr. Total
Boston Harbor								
Boston Harbor Water System Watermain Replacement	Utility Revenue					$100,000		$100,000
Boston Harbor Wastewater Treatment Plant Generator Replacement	Utility Revenue					$80,000		$80,000
Boston Harbor Water System Treatment Expansion	Utility Revenue		$80,000					$80,000
Olympic View								
Olympic View Sewer Collection and Sewage Treatment System Improvements	Utility Revenue	$24,000	$15,000					$39,000
EXPENDITURE TOTALS		**$254,000**	**$2,440,000**	**$320,000**	**$4,140,000**	**$2,530,000**	**$50,000**	**$9,734,000**

DEBT SERVICE AMOUNT	Fund Source	2016	2017	2018	2019	2020	2021	Total
10YR LTGO Bond For Grand Mound		$149,229	$1,109,097	$1,196,811	$1,258,204			$3,713,341
20YR LTGO Bond For Grand Mound		$897,600						$897,600
20YR PWTF LOAN Olympic View		$2,873						$2,873
20YR DOE ST REV Tamoshan/Bev Bch		$78,282	$78,282	$78,282	$78,282	$78,282	$78,282	$469,692
20YR PWTF LOAN For Grand Mound		$6,017	$5,940	$5,863	$5,785	$5,708	$5,630	$34,943
20YR DOE Woodland Creek Loan (payed by REET)		$81,116	$81,116	$81,116	$81,116	$81,116	$81,116	$486,696
Total Debt Service		**$1,215,117**	**$1,274,435**	**$1,362,072**	**$1,423,387**	**$165,106**	**$ 165,028**	**$5,605,145**

Completed Projects

Dropped Project:
None

New Projects:
Vacuum Stations Cooling Systems
Tamoshan Water Emergency Backup Generator
Boston Harbor Water System Treatment Expans
Tamoshan Water Treatment System

E. Transportation Background

Thurston County's Comprehensive Plan lays the groundwork for the County's Transportation Capital Facilities Program. Transportation policies are set forth in Chapter 5 of the Comprehensive Plan and implemented through the Thurston Regional Transportation Plan and the Thurston County six-year Transportation Plan required by the Washington State Department of Transportation. The six-year Transportation Plan is a subset of this section of the Capital Facilities Plan.

Chapter 5 of the Comprehensive Plan outlines the following goals for transportation projects:

> **Goal 1** – Provide transportation systems that enhance the health, safety and welfare of Thurston County citizens.
>
> **Goal 2** – Provide transportation systems that support and complement the land use element of the Thurston County Comprehensive Plan, and are consistent with, and work to meet the goals of the Regional Transportation Plan.
>
> **Goal 3** – Provide mobility for all citizens regardless of age, handicap or income.
>
> **Goal 4** – Efficiently provide publicly accepted levels of service.
>
> **Goal 5** – Allow the state-wide and interstate movement of goods, services, and people.
>
> **Goal 6** – Maintain compatible relationships between airfields and surrounding land uses.

This section of the Capital Facilities Plan describes improvements or additions to transportation facilities such as roads, bridges, sidewalks, bike lanes, and other roadway features that are needed and have been prioritized in relation to the goals described above.

Methods to meet the above objectives include:

Design Standard: Providing greater lane width, improve roadway curves, slope flattening or increase load carrying capacity on new road construction projects. These does not typically do add lanes except as needed for safety or capacity at certain intersections.

Roadway Capacity: improvements are those that assure transportation infrastructure is available to meet demand created by new development as

required by the Growth Management Act. County concurrency projects include those not addressed by developers and primarily consist of projects identified as regional needs in the Thurston Regional Transportation Plan, 20-year Transportation Project List contained herein.

Bicycle and Pedestrian Improvements: Include the construction of new sidewalks, crosswalks, non-motorized overpasses and accessibility improvements.

Safety Improvements: Include a variety of investments that are intended to support the goals outlined in the Washington State Strategic Highway Safety Plan, Target Zero. These could include spot improvements such as turn lanes at an intersection or systemic investments made throughout the roadway network.

Other improvements relate to specific local needs such as traffic calming devices, gravel road upgrades, bridge projects and culvert replacement projects.

> **Gravel Road Upgrades** will only be considered if citizen petitions are received along with property owners donating any additional right of way needed for the improvements.
>
> **Asphalt Overlays (Maintenance/Protection or Preservation)** are selected by using the Lowest Life Cycle (LLC) program. The program uses an inventory of visual pavement distress/cracking and traffic volumes to rate the pavement. Asphalt overlays are considered an upgrade to the roadway versus routine maintenance such as patching or liquid asphalt sealing of the pavement surface.
>
> **Bridge** projects are typically selected by using the State of Washington Inventory of Bridges and Structures (SWIBS) database. The database analyzes the structural adequacy and safety of the bridge, its serviceability and functional obsolescence, and how essential it is for public use. The State Bridge Committee selects bridges based on the SWIBS criteria for available federal funding.
>
> **Culvert replacement projects** that are fish passage barriers or dysfunctional culverts are ranked in their order of benefits to salmonoid using the Salmon and Steelhead Enhancement and Restoration (SSHEAR) metrology developed by Washington Department of Fish and Wildlife (WDFW).

Funding: The County's funding is limited. Projects are prioritized based on whether or not grant funding is available.

Facility Condition and Inventory: The County maintains the following

inventories to help determine the transportation condition and capacity:

- Roadway Inventory (listing of traffic volumes, roadway widths, collisions, and pavement conditions)
- Traffic Sign Inventory
- Guardrail Inventory
- Bridge Index (summary of bridge conditions)
- Pavement Management Program (pavement condition survey)
- Thurston County Barrier Culvert Inventory (fish passage)

Transportation Needs

All of the current condition and capacity inventories have projects either not in the Capital Facilities Plan or listed in the Capital Facilities Plan but many are not funded because funds sources have not been identified or are not available.

Roadway capacity projects include roadways adjacent and within urban areas and exist and are growing. These improvements are some of the more costly transportation investments.

As the state and county populations continue to grow capacity will need to increase to meet safety standards and state and local levels of service. There is not specific local funding available and the county is reliant upon Federal Highway Safety funding to plan and make these investments.

Many of the County's roads are converted old farm and logging roads. These roads developed over time and are often narrow, crooked and have difficulty accommodating the traffic, traffic volumes and speeds of today's vehicles.

Many bridges in Thurston County are aging and were not originally constructed to accommodate the varying modes of travel on today's roads much less the weight and volume of traffic today. Allowing for fish passage often results in larger and more expensive bridge structure.

Current and future mobility and capacity projects are listed below in the 20-year financially constrained Transportation Project List:

20- YEAR TRANSPORTATION PROJECT LIST				
Project ID	Impact Fee Project Group [1]	Project Location	Project Description	Total Cost (2012)
1	1	Elderberry Rd Upgrade (SR 12 to 196th Ave)	Widen to 4-6 lanes, urban improvements, access management, intersection improvements at 196th and SR12.	$1,644,000
2	1	Old Highway 99 & Tilley Rd	Provide left turn lane on EB Old Hwy 99 and provide illumination.	$500,000
3	1	Sargent Rd (183rd to Littlerock Rd)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$3,400,000
4	1	Albany St SW (James Rd SW to Littlerock Rd SW)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$1,977,100
5	1	183rd Ave SW (Old Hwy 99 to SR 12)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$9,350,000
6	1	Old Hwy 99 (Great Wolf N. Property Line to 203rd Ave)	Widen to 4-5 lanes, urban improvements and Bridge O-9 replacement.	$3,003,456
7	1	Old Hwy 99 Rural Capacity Project (Old Hwy 99 (S. UGA boundary) to SR12)	Widen to 4-5 lanes, urban improvements, access management and intersection improvements.	$8,077,000
8	1	SR 12 (W. UGA boundary to Old Hwy 99)	New urban access road at west UGA Boundary, New SR 12 Intersection at west UGA, and SR12/Old Hwy 99/Elderberry Intersection improvements.	$7,552,000
9	2	93rd Ave & Lathrop Industrial Dr	Install left turn lane on 93rd Ave to Lathrop, and urban improvements	$642,000
10	2	Littlerock Rd & 113th Ave	Install left turn lane, lighting, replace Bridge L-5, realignment of 113th Ave SE.	$800,000
11	2	Maytown Rd SW (Littlerock Rd SW to SR121)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$4,726,000
12	3	Delphi Rd SW Phase I (McLane Creek to SR 101)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes and if necessary.	$985,000
13	3	Mud Bay Rd & Evergreen Parkway	Install SPUI at Evergreen Parkway Ramps and Mud Bay Rd.	$1,500,000
14	3	Cooper Point Rd & Kaiser Rd	Install roundabout at intersection.	$3,500,000
15	3	Delphi Rd SW Phase II & III (62nd to McLane Creek)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes and if necessary.	$5,060,000
16	4	15th Ave NE & Draham Rd NE (Olympia City Limits to Draham)	Phase I - widen road to 2-3 lanes, urban improvements, shoulders and intersection improvements.	$8,000,000
17	4	15th Ave NE & Draham Rd NE (15th to Carpenter)	Phase I - widen road to 2-3 lanes, urban improvements, shoulders and intersection improvements at Carpenter Rd.	$3,000,000

TABLE 1. 20- YEAR TRANSPORTATION PROJECT LIST (con't)

18	4	Johnson Point Rd & Hawks Prairie Rd	Left Turn Channelization on Johnson Point Rd, widen shoulders.	$500,000
19	4	Meridian Rd (Martin Way to Interstate 5)	Widen to 2-3 lanes, urban improvements, shoulders.	$2,000,000
20	5	Carpenter Rd (Pacific Ave SE to Martin Way SE)	Widen to 4-5 lanes, urban improvements and intersection improvements at Martin Way E.	$8,993,712
21	5	Kinnwood Rd (Pacific to Martin Way E)	Widen road to 2-3 lanes, urban improvements, shoulders and intersection modifications.	$4,500,000
22	5	Meridian Rd & Mullen Rd	Install left turn lanes for both for NB/SB Meridian, widen shoulders and provide street lights.	$850,000
23	5	Pacific Ave Capacity Project (Union Mills to SR510)	Phase I - widen road to 2-3 lanes, urban improvements, shoulders and intersection modifications at Steilacoom Rd.	$5,000,000
24	5	Yelm Hwy & Meridian Rd	Install roundabout at intersection.	$2,500,000
25	5	Marvin Rd (Pacific Ave/SR 510 to Mullen)	Widen to 2-5 lanes, intersection modifications and urban improvements.	$28,000,000
26	5	Steilacoom Rd (Pacific Avenue/SR510 to Dutterow Rd)	Widen to 2-3 lanes, shoulders and urban improvements.	$12,000,000
27	5	Mullen Rd (W. City Limits to Marvin Rd)	Widen to 2-3 lanes, shoulders and urban improvements.	$12,000,000
28		PROJECT PREVIOUSLY REMOVED		
29	5	Yelm Hwy Capacity Project 4 (Spurgeon Creek to Meridian Rd SE)	Phase 1-3. Replace and widen Bridge O-12 at BNSF railroad crossing, roundabout at Spurgeon Creek Rd SE, corridor improvements between Spurgeon Creek Rd and conceptual Marvin Rd extension.	$8,500,000
30	6	Henderson Blvd Bridge (H-2) at Deschutes River	Widen or replace bridge, shoulders, minor realignment and urban improvements.	$800,000
31	6	Henderson Blvd (Old Hwy 99 to Tumwater Blvd SE)	Widen to 2-3 lanes, urban improvements and intersection modifications at Tumwater Blvd.	$5,000,000
32	6	McCorkle Rd SE (113th Ave SE to Old Hwy 99) & 113th Ave SE (SR121 to McCorkle Rd SE)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$4,400,000
33	6	Rich Rd SE (Deschutes River to 89th Ave SE)	Rural Mobility Improvements include widening, geometrics, shoulders, turn lanes and bridge over Scatter Creek.	$4,000,000
34	6	Rich Rd SE (Rixie Rd to Yelm Hwy)	Widen to 2-3 lanes, urban improvements and shoulders.	$3,700,000
35	6	Rich Rd SE Phase 2 (89th Ave SE to Normandy Rd SE)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$1,515,954
36	6	Yelm Hwy Capacity Project 1 (City Limits (Orvas Ct SE) to Rich Rd SE)	Widen to 4-5 lanes, access management, and urban improvements.	$12,194,508
37	7	Bald Hill Rd SE (Smith Prairie to Clear Lake Rd)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$8,160,000
38	7	Vail Rd Phase 2 (138th to153rd)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$2,550,000
39	7	Vail Rd (138th to Bald Hill Rd)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$3,269,000

TABLE 1. 20- YEAR TRANSPORTATION PROJECT LIST (con't)

40	7	153rd Ave SE (Vail Rd to Lawrence Lake Rd) & Lawrence Lake Rd (153rd Ave to Bald Hill Rd)	Rural Mobility Improvements include widening, geometrics, shoulders, and turn lanes if necessary.	$2,720,000

Total	$196,869,730

Project Financing:

The list of transportation projects identified in the Capital Facilities Plan and summarized in this section of the Plan identifies committed funding. Given the present level of available funding, not all projects on the Capital Facilities Project List are funded. The projects listed in the program provide a clear indication of the County's transportation plan. If an unexpected source of funding for a particular project becomes available, the project could be moved forward in the programming process. Grants are typically needed in order to enable the limited road funds to fund as many projects as possible.

The primary sources of funding for the Capital Facilities Transportation Plan include:

30% County Portion of Motor Vehicle Fuel Tax (Gas Tax) All Counties within the state receive a proportionate share of the state gas tax based on population, road miles and other factors.

Second Quarter Real Estate Excise Tax (REET) is proportioned to different county capital facilities. The second quarter REET is collected at the rate of one-quarter of one- percent of the selling price of real estate property in unincorporated Thurston County.

Developer Mitigation Fees are charges on new developments to pay for the impacts they create. The mitigation fees are based on the State Environmental Protection Act (SEPA) review process.

Impact Fees are charges on new developments to pay for their proportionate share of the public infrastructure they use. Fees collected from new developments will provide funding toward mobility and capacity projects.

Federal Funding Programs are funds issued by the federal government on a competitive basis for specific types of projects.

State Funding Programs are funds issued by the state on a competitive basis for specific types of projects.

Key Changes from Previous Capital Facilities Program:

Projects Completed[1] (anticipated):

[1] Most Federally funding projects have project carryover into the following year to accommodate project closeout

Chehalis Western Trail - Bridging the Gap Phase 3-Pacific Ave.

Salmon Creek Bridge (L-4)

Prather Road Slide Repair

Vail Rd. SW From - 138th Ave to Bald Hill Rd.

Delphi Road Upgrade (Phase 1) - Mclane Creek to SR101

Run Off the Road Intersection Safety Project

Smart Corridors (ITS improvements)

Project Construction (current or anticipated)

Delphi Road Upgrade (Phase 2) –32nd Avenue to 62nd Avenue SW

Rich Rd. Upgrade - (Phase 2) - 87th to Normandy St.

Bald Hill Rd. Upgrade (Phase 1) - Smith Prairie to Owl Pit

Thurston County Highway Safety Improvement Program

New Projects

Marvin Road Upgrade

Grand Mound Mobility Study

Thurston County Americans with Disablility Act (ADA) Pedestrian Transportation Improvement Program

Tilley Tire Wash Facility

Recent Grant Awards (2015)

Piessner Rd. - Fish Passage Culvert (Nisqually Tribal Grant)

Thurston County Highway Safety Improvement Program (HSIP)

POLICIES

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activities.

Thurston County's annual capital budget and six year transportation program required under RCW 36.81.121 will be consistent with the intent and substance of the Capital Facilities Plan and the Transportation Chapter of the Comprehensive Plan.

1. The year in which a project is carried out or the exact amount of the expenditures by year for individual facilities may vary from that stated in the Comprehensive Plan due to:

    a. Unanticipated revenues or revenues that become available to the county with conditions as to when they may be used.

    b. Change in the timing of a facility to serve a new development that occurs at a different time than had been anticipated in the Capital Facilities Plan.

2. Specific debt financing proposals may vary from that shown in the Comprehensive Plan due to changes in interest rates, other terms of financing, or other conditions which make the proposals in the plan not financially advantageous.

3. The addition of an entirely new facility, not anticipated in the Capital Facilities Plan will require a formal amendment to the Comprehensive Plan.

4. The transportation projects in the Capital Facilities Plan and Transportation Chapter of this Comprehensive Plan are consistent with the Regional Transportation Plan.

Table 6-8
Public Works - Transportation Capital Projects
2016-2021

REVENUES FOR PROJECTS **Fund Source**		**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**6-Yr. Total**
REET		$0	$0	$0	$0	$0	$0	$0
GRANTS		$4,394,871	$5,684,000	$5,543,600	$7,744,963.20	$9,409,600	$19,829,600	$52,606,634
LOCAL		$2,890,285	$1,421,000	$1,385,900	$1,936,240.80	$2,352,400	$4,957,400	$14,943,226
IMPACT FEES		$50,000	$50,000	$0	$0	$0	$70,000	$170,000
OTHER (DEVELOPER, OTHER AGENCY, OR BOND)		$19,494	$0	$0	$0	$0	$0	$19,494
NON-GOVERNMENTAL GRANT		$10,000	$0	$0	$0	$0	$0	$10,000
TOTALS		**$7,364,650**	**$7,155,000**	**$6,929,500**	**$9,681,204**	**$11,762,000**	**$24,857,000**	**$67,749,354**
EXPENDITURES FOR PROJECTS **Project Name**	**Fund Source** See legend	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**6-Yr. Total**
City of Olympia Urban Growth Area								
CAPACITY								
Cooper Point Road & Kaiser Road	GN/I						$20,000	$20,000
Yelm Highway Henderson Blvd. to Rich Road (61192)	L	$50,000						$50,000
Evergreen Parkway/Mud Bay Rd Interchange Improvements (61161)	GN/M/I	$202,000					$50,000	$252,000
OTHER								
Ellis Creek Fish Passage	GN/A						$1,500,000	$1,500,000
OLYMPIA UGA TOTAL		**$252,000**	**$0**	**$0**	**$0**	**$0**	**$1,570,000**	**$1,822,000**
City of Lacey Urban Growth Area								
CAPACITY								
Marvin Road - Pacific Ave/SR 510 to Mullen Rd (61478)	GN/L/I/A	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$2,100,000
Yelm Hwy Capacity Project 4 (Lacey City Limits to West of Meridian) Phase 1 (incl. O-12 Bridge Replacement) (61309)	GN/A/I	$65,000					$50,000	$115,000
Steilacoom Rd (Phase 1 - Pacific to Marvin/SR510) (61461)	GC/L/A/O/I	$354,150	$2,000,000					$2,354,150
Steilacoom Rd (Phase 2 - Marvin/SR510 to Dutterow)	GN/A/I			$200,000	$600,000	$1,200,000	$1,000,000	$3,000,000
Kinwood Road Project (Pacific to MartinWay)	GN/A				$250,000	$100,000	$1,850,000	$2,200,000
15th Ave NE & Draham Road NE (Olympia City Limits to Draham Rd)	GN/A/I						$50,000	$50,000
15th Ave. NE & Draham Rd NE (Draham NE to Carpenter Rd)	GN/A/I						$50,000	$50,000
Mullen Road Upgrade - (Lacey City Limits to Carpenter Road SE) (61487)	GC/L/I	$531,000	$450,000	$3,289,500	$3,176,204			$7,446,704
Martin Way & Neil St.Signal and Channelization (61337)	O	$60,000						$60,000
SAFETY								
Safe Routes to School Program (61493)	GN/L	$100,000	$625,000					$725,000
CITY OF LACEY GROWTH AREA TOTALS		**$1,460,150**	**$3,425,000**	**$3,839,500**	**$4,376,204**	**$1,650,000**	**$3,350,000**	**$18,100,854**

CITY OF TUMWATER & GROWTH AREA								
CAPACITY								
Black Lake - Belmore Rd. Upgrade 49th to Sapp Rd.	GN/A						$50,000	$50,000
SAFETY								
Thurston County Bicycle and Pedestrian Program (61488)	GN/L/A/I	$ 25,000	$200,000	$800,000				$1,025,000
TUMWATER UGA TOTAL		**$25,000**	**$200,000**	**$800,000**	**$0**	**$0**	**$50,000**	**$1,075,000**
City of Yelm Urban Growth Area								
No Projects								
YELM UGA TOTAL								
GRAND MOUND URBAN GROWTH AREA								
SAFETY								
Grand Mound Mobility Study (61496)	GN	$25,000						$25,000
CAPACITY								
Elderberry Rd Upgrade - SR 12 to 193rd Ave	GN/A/I				$60,000	$100,000	$1,000,000	$1,160,000
Old Hwy 99 Rural Capacity Project (S. UGA boundary to SR 12) (61497)	GN/A/I	$72,000			$100,000	$2,330,000	$8,750,000	$11,252,000
SR12 Grand Mound West UGA Boundary to Old Hwy 99	GN/A/I			$150,000	$900,000	$1,237,000	$2,570,000	$4,857,000
GRAND MOUND UGA TOTAL		**$97,000**	**$0**	**$150,000**	**$1,060,000**	**$3,667,000**	**$12,320,000**	**$17,294,000**
RURAL THURSTON COUNTY								
DESIGN STANDARD IMPROVEMENTS								
Old 99 Perservation I-5 to City of Tenino	GN/L	$500,000	$1,000,000	$1,000,000	$1,000,000	$1,000,000	$1,000,000	$5,500,000
Vail Rd. Upgrade (Phase 2) - 138th to 153rd (61450)	GN/A/I	$55,000	$50,000	$500,000	$1,400,000	$500,000		$2,505,000
Delphi Road Upgrade (Phase 2) 32nd to 62nd (61451)	GC/L/A/I	$1,240,000	$1,150,000	$50,000				$2,440,000
Delphi Road Upgrade (Phase 3) McLane Creek to 32nd	GN/L/A/I					$500,000	$1,000,000	$1,500,000
Rich Rd. Upgrade - (Phase 2) - 87th to Normandy St. (61460)	GC/L/A/I	$1,200,000	$500,000					$1,700,000
Sargent Rd. SW Upgrade 183rd Ave. SW to Littlerock Rd.	GN/A/I			$100,000	$350,000	$600,000	$2,350,000	$3,400,000
Bald Hill Rd. Upgrade (Phase 1) - Smith Prairie to Owl Pit (61472)	GC/L/A/I	$1,485,000	$500,000					$1,985,000
Maytown Rd. SW Upgrade - Littlerock Rd. to I-5 (61473)	GC/L/A/I	$70,000					$50,000	$120,000
SAFETY								
Old Hwy 99 / Tilley Rd. Intersection Channelization Improvements	GN/A/I						$50,000	$50,000
Thurston County Safety Plan (61491)	GC/L	$170,000	$30,000					$200,000
Thurston County Highway Safety Improvement Program (61490)	GC/L	$319,500	$5,000					$324,500
Yelm Hwy / Meridian Rd. Intersection Channelization Improvements (61318)	GC/GN/L/A/I	$120,000		$150,000	$155,000	$1,900,000		$2,325,000
Johnson Pt. Rd. Turn Lane at Hawks Prairie Rd.	GN/A/I						$50,000	$50,000
Littlerock Rd / 113th Ave. Intersection Improvements (incl. L-5 Bridge)	GN/A/I					$65,000	$735,000	$800,000
Mullen Rd. Upgrade - Vicinity of 46th Ave. SE	GN						$50,000	$50,000

BRIDGES								
Tilley Road (T-2) Bridge Replacement Project	GN/L				$400,000	$1,500,000	$1,500,000	$3,400,000
Old Hwy 99 Bridge O-7 Replacement at Scatter Creek	GN						$57,000	$57,000
Hawks Prairie Rd. Bridge H-1 widening at Woodland Creek	GN						$50,000	$50,000
OTHER								
Tilley Rd. Curve-Culvert (45408)	L	$141,000						$141,000
Munson Rd - Swift Creek Culvert*	GN						$25,000	$25,000
Cedar Flats Rd. - Swift Creek Culvert*	GN						$25,000	$25,000
Piessner Rd. - Fish Passage Culvert (61492)	GC/GN	$10,000	$50,000				$25,000	$85,000
Boston Harbor Rd. NE - North of Woodard Bay Rd - Fish Passage Culvert	GN				$600,000			$600,000
Hunter Point Rd. Culvert Replacement							$50,000	$50,000
Gate Road (Dunnagan Creek) Fish Passage Culvert	GN		$25,000				$200,000	$225,000
Waddell Creek Rd (Pants Creek) Fish Passage*	GN			$40,000	$40,000	$80,000		$160,000
Misc. Fish Passage and Flood Control Culverts Grant Match	L/A	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$600,000
Traffic and Safety Enhancements	L/A	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$600,000
Thurston County Americans With Disability Act (ADA) Pedestrian Transportation Improvement Program (61495)	GN/L/A	$20,000	$20,000	$100,000	$100,000	$100,000	$100,000	$440,000
Countywide Resurfacing Program	GN/L						$50,000	$50,000
RURAL THURSTON COUNTY TOTAL		**$5,530,500**	**$3,530,000**	**$2,140,000**	**$4,245,000**	**$6,445,000**	**$7,567,000**	**$29,457,500**
TOTALS		**$7,364,650**	**$7,155,000**	**$6,929,500**	**$9,681,204**	**$11,762,000**	**$24,857,000**	**$67,749,354**

LEGEND:
GC - State or Federal Grants have been COMMITTED
GN - State or Federal Grants have NOT been COMMITTED
L - County road fund LOCAL match
A - Agency & contributions
B - Proposed county BOND
REET - Real Estate Excise Tax
I - Impact Fee Funding
* Joint project with the county stormwater utility
M - Developer Mitigation (Not impact fees)
Project Numbers - (XXXXX)

Completed Projects	New Projects:	Re-Named Projects
Chehalis Western Trail - Bridging the Gap Phase 3-Pacific Ave. Crossing Plus Connections (61435)	Thurston County Americans with Disablility Act (ADA) Pedestrian Transportation Improvement Program	Traffic and Safety Enhancements
Salmon Creek Bridge (L-4) (61489)	Grand Mound Mobility Study	Misc. Fish Passage and Flood Control Culverts (added Flood Control)
Prather Road Slide Repair (77153)	Marvin Road - Pacific Ave/SR 510 to Mullen Rd	**Projects Dropped**
Vail Rd. SW From - 138th Ave to Bald Hill Rd. (61365)	Thurston County Safety Project	Henderson Blvd. Upgrade - Old Hwy 99 to Tumwater BLVD.
Run Off the Road Intersection Safety Project	Hunter Point Road Culvert Replacement	Henderson Blvd. Bridge H-2 Widening at the Deschutes River
Smart Corridors (ITS improvements) (41542)	Martin Way and Neil Street Signal and Channelization	
Delphi Road Upgrade (Phase 1) - Mclane Creek to SR101 (61437)	Old Highway 99 Perservation Project I-5 to the City of Tenino	Pacific Ave. Yelm Highway Pedestrian Enhancements

F. County Buildings:

The previous chapters of the Thurston County Comprehensive Plan do not offer a great deal of guidance for development of County general government facilities. The population forecast suggests that additional services will be needed; but these do not translate directly into proportionate increases in general government staff or facility needs.

In 2013 the County contracted with a consultant firm to provide a Space Needs Assessment Plan (SNAP). That study confirmed that some County government functions have outgrown the space available in the county buildings within the Courthouse campus. The study did establish space needs in terms of program and square footage. The recent economic recession resulted in a reduction of both staff and service levels somewhat relieving the immediate space needs. The County continues to evaluate utilizing owned facilities to their highest and best use as an alternative to leased space.

Planning and design of a new jail facility was completed over the last few years, resulting in construction of the Accountability and Restitution Center completed in late 2010. Remodeling existing facilities to accommodate the options/work release program was completed in 2013. County administration is in the process of evaluating alternative uses of the courthouse campus jail facility that will be vacated when the ARC is placed into operation.

Facilities that are in good condition and expected to last for more than a decade include Courthouse Building 5, the Juvenile Detention/Family & Juvenile Court building (opened in 1998), the Medic 1/TCOMM Center (opened in 1998), the Public Health and Social Services building (opened in 2001), the Coroner building (opened in 2003), Tilley Campus Buildings and fuel island (housing Public Works, Central Services' Fleet Services, and Emergency Management, newly opened or remodeled in 2012) and the Evaluation and Treatment Center (opened in 2005). In addition, the 3400 Building seismic and roofing project was completed 2013, and further tenant improvements will be needed for full occupancy. The remaining County owned facilities are aging, and some will require extensive remodeling or replacement in the near future, including Courthouse Buildings 1, 2, and 3 (completed in 1978).

A 30 year major maintenance plan was established and began funding in 1998, with final buildings added in 2010. Major maintenance needs for these facilities have been estimated and funded through annual reserves set aside within a 30-year horizon. However, a thorough program of building condition assessments is still necessary to further develop and refine the major maintenance plan. The County is developing plans to complete such assessments in 2016 and 2017.

The six-year plan contained in this Chapter includes the County building related projects scheduled at present (identified in Table 6-9). Immediate needs are being addressed by leasing and remodeling.

COUNTY BUILDINGS OBJECTIVES AND POLICIES:OBJECTIVE 1-L:
County Buildings - County government buildings should be located to provide convenient access to residents being served, where appropriate public facilities and services are available or can be provided, and designed for efficient and frugal use of public monies.

POLICIES:

1. Standards for level of service must be realistic, attainable, and not excessive.
2. Level of Service standards for County Buildings should be based on:
   a. Consideration of national, state and professional standards for the applicable space.
   b. Applicable federal and state laws.
   c. Cost effectiveness and consideration of the ability of the county to fund ongoing costs of operations and maintenance.
3. Efficiency in design, sustainability, and use should be a goal for new facility development. Building design and function must promote flexibility to accommodate a variety of uses and interior spatial changes. New facilities should be built for a 50-year life span.
4. Options to construction of new space should include such considerations as innovative use of alternative hours, telecommuting, night court, kiosks, distributed service locations, automation efficiencies, workload distribution, work at home opportunities, and drive-through service points.
5. Public-private partnerships should be examined for their potential to offset costs and improve efficiency.
6. A Capital Reserve fund has been established to provide funding for major maintenance projects. Building condition assessments should be initiated and sustained to inform the major maintenance program.
7. Evaluation of capital costs and maintenance and operation costs should give priority to long-term energy efficiencies achieved through design and construction.
8. Charges for space in county buildings should recover full costs, including capital expenses, amortization, depreciation, and maintenance and operation cost.

Table 6-9

THURSTON COUNTY BUILDINGS CAPITAL PROJECTS

2016-2021

REVENUES FOR PROJECTS		2016	2017	2018	2019	2020	2021	
Fund Source								6 Yr. Total
Central Services Fund Balance (CSFB)	CSFB	$0	$0	$0	$0	$0	$0	$0
Special Projects (Major Maintenance/Repair) (CSBR)	CSBR	$1,735,000	$1,775,000	$4,200,000	$500,000	$1,250,000	$1,187,000	$10,647,900
Central Services FUTURE internal service rates (CS)	CS	$30,000	$125,000	$150,000	$25,000	$0	$0	$330,000
Detention Sales Tax (DST)	DST	$0	$0	$0	$0	$0	$0	$0
General Fund /Exisitng Bonds (GF, GFB)	GF,GFB	$0	$10,915,000	$34,375,000	$6,950,000	$100,000	$1,750,000	$54,090,000
Roads and Transportation Services/Bonds (RT, RTB)	RT, RTB	$650,000	$0	$0	$0	$1,200,000	$0	$1,850,000
REET (R)	R	$0	$0	$0	$0	$0	$0	$0
Grants	G	$1,320,000	$75,000	$225,000	$250,000	$0	$0	$1,870,000
Bonds/ Future General Fund Bonds (B)	B	$0	$0	$0	$0	$0	$0	$0
Noxious Weed Assessment (NW)	NW	$87,000	$0	$0	$0	$0	$0	$87,000
TOTALS		**3,822,000**	**12,890,000**	**38,950,000**	**7,725,000**	**2,550,000**	**2,937,900**	**68,874,900**

EXPENDITURES--PROJECTS	Funding Source	2016	2017	2018	2019	2020	2021	6 Yr. Total
Thurston County Rural								
Tilley Campus Fuel Tank Project	CSBR	$50,000	$0	$0	$0	$0	$0	$50,000
Tilley Warehouse Storage Optimization Improvements/Noxious Weeds Storage	CSBR	$10,000	$0	$0	$0	$0	$0	$10,000
Tilley Backup Generator and Electrical Panel	CSBR, CS	$200,000	$0	$0	$0	$0	$0	$200,000
Potential Property Purchase Adjecent to Tilley Campus	RT	$0	$0	$0	$0	$1,200,000	$0	$1,200,000
Tilley Truck & Tire Wash Facility	RT	$650,000	$0	$0	$0	$0	$0	$650,000
Relocate Noxious Weeds to Tilley Building C	NW	$87,000	$0	$0	$0	$0	$0	$87,000
Lacey / Olympia / Tumwater UGA								
Special Projects (Major Maintenance/Repairs)	CSBR	$955,000	$1,150,000	$3,900,000	$500,000	$1,250,000	$1,187,000	$8,942,900
Potential Consolidated Sheriff/Training/Patrol Facility	GF	$0	$800,000	$7,200,000	$0	$0	$0	$8,000,000
Olympia UGA								
3400 Building Tenant Improvements	GFB	$0	$4,375,000	$1,800,000	$0	$0	$0	$6,175,000
Buildings #2 & #3 Security Projects	CSBR	$300,000	$450,000	$0	$0	$0	$0	$750,000
Building #2 Renovations	GF	$0	$1,000,000	$3,000,000	$2,500,000	$0	$0	$6,500,000
Building #3 Renovations	GF	$0	$300,000	$4,000,000	$2,000,000	$0	$0	$6,300,000
Building #3 Jail Demolition	GF	$0	$1,250,000	$0	$0	$0	$0	$1,250,000
Building #3 Work Release Facility Demolition	CSBR	$150,000	$0	$0	$0	$0	$0	$150,000
Building #1 Renovations and Integration	GF	$0	$65,000	$0	$0	$100,000	$1,750,000	$1,915,000
Energy Saving Upgrades, Air Handling Systems, LED Lighting & Solar Panels	G	$0	$75,000	$225,000	$250,000	$0	$0	$550,000
Energy Savings Implementing Automation & Metering Solutions	CSBR	$0	$25,000	$300,000	$0	$0	$0	$325,000
Courthouse Complex Geotechnical Report	CSBR	$0	$150,000	$0	$0	$0	$0	$150,000
County Wide Security Upgrade	GF	$0	$125,000	$875,000	$450,000	$0	$0	$1,450,000
Building #3 Cabling Upgrade	CSBR	$80,000	$0	$0	$0	$0	$0	$80,000
Purchase Additional Campus Buildings or Property	GF	$0	$0	$10,000,000	$0	$0	$0	$10,000,000
McLane Building Preparations for Sale/Disposal	CSBR	$20,000	$0	$0	$0	$0	$0	$20,000
10-year Facility and Capital Building Plan	CS	$0	$125,000	$150,000	$25,000			$300,000
Tumwater UGA								
Thurston Mason County Mental Health Triage Center	G	$1,320,000	$0	$0	$0	$0	$0	$1,320,000
ARC Storm Water Recovery System	GF	$0	$1,000,000	$0	$0	$0	$0	$1,000,000
ARC Flex Unit	GF	$0	$2,000,000	$7,500,000	$2,000,000	$0	$0	$11,500,000
TOTALS		**$3,822,000**	**$12,890,000**	**$38,950,000**	**$7,725,000**	**$2,550,000**	**$2,937,900**	**$68,874,900**
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DEBT SERVICE AMOUNT		2016	2017	2018	2019	2020	2021	6 Yr Total
Current Debt		8,442,550	8,525,887	6,660,315	6,757,087	6,796,311	6,896,436	44,078,588
Future Debt		748,000	748,000	748,000	748,000	748,000	748,000	4,488,000
TOTALS		**$9,190,550**	**$9,273,887**	**$7,408,315**	**$7,505,087**	**$7,544,311**	**$7,644,436**	**$48,566,588**

LEGEND:

B Bonds (See Note #1)
CSB Central Service Future Bond
CS Central Service FUTURE Internal Services Rates
CSFB Central Service Internal Services Fund Balance
CSBR Central Services Building/IT Reserve Fund
DST Detention Sales Tax
DFB Detention Sales Tax Future Bond (nonvoter GO bond to be financed from Sales Tax)
G Grant
GF General Fund
GFB General Fund Existing Bonds
NW Noxious Weed Assessment
PSE-R Rebates
R Real Estate Excise Tax (REET)
RFB REET Future Bond (nonvoter GO bond to be financed from REET
RT Roads and Transportation Services
RTB Roads and Transportation Services Future Bonds

(1) These are bonds paid for by outside revenue sources, either voter approved from the property tax, or councilmanic paid from revenue sources such as Detention Sales Tax, REET or other sources.

G. Conservation Futures Program:

Conservation Futures is a land preservation program that protects preserves, maintains, improves, restores, and limits the future use of threatened areas of open space, timberlands, wetlands, habitat areas, culturally significant sites, and agricultural farmlands within Thurston County. Conservation Futures funds, acquired through a property tax levy, are used to purchase the land or the rights to future development of the land.

The Washington State Legislature first granted the authority for a Conservation Futures tax levy in 1971 when RCW 84.34 was enacted. RCW 84.34.200 declares that the acquisition of interests or rights in real property for the preservation of open spaces and areas constitutes a public purpose for which public funds may properly be expended or advanced. RCW 84.34.230 declares the county may levy an amount not to exceed 6.25-cents per $1,000 of assessed value of all taxable property within the county for the Conservation Futures Program.

The Legislature found that Conservation Futures is a useful tool for counties to preserve land of public interest for future generations and are encouraged to use some Conservation Futures funds as one tool for salmon preservation purposes. They also declare that up to fifteen percent of the Conservation Futures fund may be used for the maintenance and operation of property acquired with Conservation Futures funds.

In 1989, Thurston County became the first county in the state to implement the tax levy and has been collecting it ever since. The rate paid by taxpayers in 2015 was 4.69-cents per $1,000. By statute, the tax levy is limited to a 1% annual increase. The funding, identified in the budget as Conservation Futures, is budgeted annually by the Thurston County Board of County Commissioners.

Project selection process:

Each year the Board of County Commissioners will have the opportunity to direct the Conservation Futures Program toward important types of property investments for protection.

The project selection process will include expertise as needed to help rank projects based on the following criteria:

1. How well does the acquisition of the property fit with the objective of the applicable plan(s)?
2. Is time of the essence for acquisition?
3. Does the property preserve:
    A. Unique or critical habitat?

B. Unique natural features and or natural resources?

C. Historic or culturally significant lands or markers?

D. Critical and/or sensitive lands?

E. Desirable agricultural and/or forest working-lands characteristics?

4. What is the certainty of project success?
5. What is the amount of other financial contributions toward the project purchase?
6. Does the project proposal address public access?
7. How many partners and project supporters are there?
8. How well does the project meet the program Goals and Objectives?

Conservation Futures Projects:

Acquisition of property is considered a capital project and needs to be included in the County's Capital Facilities Plan, which is a six-year financial plan. Table 6-10 includes acquisition of properties proposed over the next six-years. Site-specific property acquisitions will be listed whenever possible. Identifying site-specific properties is complicated due to the sensitive nature of land-purchase negotiations, and the need to proceed when the opportunity to purchase arises. Since property acquisitions need to be identified in the Capital Facilities Plan, a placeholder will be used, unless there is a specific project being proposed.

Conservation Futures Program Goal and Policies:

GOAL: Thurston County's Conservation Futures Program will conserve the most important rural lands, regional parklands, areas of cultural significance, preserve and protect water quality and important habitats in perpetuity.

POLICIES:

1. Thurston County's Conservation Futures Program will seek to create contiguous blocks of land to protect and preserve rural lands, regional parklands, areas of cultural significance and prevent the fragmentation of quality habitat.
2. The Conservation Futures Program will seek to maximize leverage and partnership opportunities.
3. The Conservation Futures Program will be responsive to opportunities.

4. Conservation Futures Program funded projects will be prioritized based upon the Board of County Commissioners' goals and rankings by the Conservation Futures Ranking Committee.
5. Conservation Futures Program funded projects will support the preservation and conservation of those lands with greatest ecological value especially if they are under imminent threat.
6. Conservation futures funded projects will seek to ensure that multiple plans, goals and objectives are satisfied.

Table 6-10

Conservation Futures Financial Plan 2016-2021

	2016 Projection	2017 Projection	2018 Projection	2019 Projection	2020 Projection	2021 Projection	Total Budget 2016-2021
Revenue							
Conservation Futures Revenue	$1,317,123	$1,330,945	$1,344,173	$1,357,593	$1,371,190	$1,384,989	$8,106,013
Total Revenue	**$1,317,123**	**$1,330,945**	**$1,344,173**	**$1,357,593**	**$1,371,190**	**$1,384,989**	**$8,106,013**
Expenditure							
Debt Service							
Cooper Point/Athletic Fields #2230 (pay off 2025)	$56,140	$55,234	$53,809	$54,522	$58,096	$58,096	$335,897
Total Debt Service	**$56,140**	**$55,234**	**$53,809**	**$54,522**	**$58,096**	**$58,096**	**$335,897**
Programs/Projects							
Public Works M&O for Conservation Future Projects	$188,922	$190,811	$192,719	$194,647	$196,593	$198,559	$1,162,251
Indirect Costs	$37,442	$38,191	$38,955	$39,734	$40,539	$41,339	$236,200
Total Programs/Projects	**$226,364**	**$229,002**	**$231,674**	**$234,381**	**$237,132**	**$239,898**	**$1,398,451**
Capital							
Commissioners Challenge Projects	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000	$300,000
Bush Prairie Farm Easement	$75,000						$75,000
Nelson Ranch Easement	$500,000						$500,000
Nisqually Whitewater Reach	$120,000						$120,000
Oyster Bay Farm	$559,835						$559,835
Tumwater Brewery Trail	$14,500						$14,500
Darlin Creek		$600,000					$600,000
Shermer Deschutes		$122,500					$122,500
Open Space Acquisition of Property - New Projects	$950,000	$950,000	$950,000	$950,000	$950,000	$950,000	$5,700,000
Total Capital	**$2,269,335**	**$1,722,500**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$7,991,835**
Total Expenditures	**$2,551,839**	**$2,006,736**	**$1,285,483**	**$1,288,903**	**$1,295,228**	**$1,297,994**	**$9,726,183**

NOTES:

A. Public Works M & O for Conservation Futures Projects is 15% of prior year Property Taxes and can only be used on property acquired with Conservation Futures.

B. Conservation Futures funds cannot be used for development.

C. In current year, funds may be allocated for projects that will not be completed until a future year—many projects take longer than one year to complete.

Financing the County CFP

It is required that the CFP describe how each of the proposed capital projects will be financed. The funding sources for each of the capital projects listed in the tables above are included with the projects. These include a variety of taxes, bonds, fees and charges, loans and grants. Some are specific to the program for which allocations are proposed to cover the cost of specific projects.

Each of the enterprise funds referenced in this plan maintains a financial plan for its expenditures (e.g. Solid Waste, Utilities, and Transportation). In addition there are financial plans maintained for dedicated funds, such as Real Estate Excise Tax (1st and 2nd quarter) and the capital reserve fund set aside from the County's General Fund.

The effects of these funding proposals are summarized in Tables 6-11, 6-12 and 6-13 below.

SUMMARY OF SIX-YEAR FINANCING PLAN

Table 6-11

SUMMARY OF 2016 - 2021 CAPITAL COSTS
(From Tables 6-4 through 6-10)

Project Category	Expenditure Total 2015 - 2020	2016 - 2021
CAPITAL		
Parks and Open Space	$4,522,000	$4,332,000
Solid Waste	$7,400,000	$8,481,000
Stormwater	$11,608,250	$14,282,160
Water and Sewer	$9,536,000	$9,734,000
Roads, Bridges and Bike Lanes	$65,087,080	$67,749,354
County Buildings	$60,620,000	$68,874,900
Conservation Futures	$9,202,214	$9,726,183
Capital Total	$167,975,544	$183,179,597
DEBT SERVICE PAYMENTS		
Parks and Trails	$0	$1,666,944
Solid Waste	$7,400,000	$0
Stormwater	$0	$0
Water and Sewer	$6,894,000	$5,605,145
Roads, Bridges and Bike Lanes	$0	$0
County Buildings	$50,330,651	$48,566,588
Conservation Futures	$331,675	$335,897
Debt Service Total	$64,956,326	$56,174,574

Table 6-12
SUMMARY SIX YEAR FINANCING PLAN
2016 - 2021

Revenue Sources	Six Year Totals							Totals by Revenue Source
	Parks and Open Space	Solid Waste	Stormwater	Water and Sewer	Roads	Buildings	Conservation Futures	
Existing Revenues - Earmarked (May be used only for specific types of facilities)								
Property Tax - Cons. Futures (Cash)							$8,106,013	$8,106,013
Forest revenues (&reserves)					$14,943,226			$14,943,226
Interest Income and Leasehold Excise Tax								$0
Utility Fees/Rates - w/o increases		$5,250,000	$11,551,020	$1,459,000		$330,000		$18,590,020
Detention Sales Tax								$0
Committed Developer & other Jurisdiction Financing								$0
Sewer - Water Fees & Assessments								$0
Utility Loans - to be repaid from existing fees / REET				$2,747,500				$2,747,500
Councilmanic GO Bond Proceeds - for repayment from existing committed revenue sources						$1,850,000		$1,850,000
Councilmanic GO Bond Proceeds - for repayment from existing, general use revenue sources						$54,090,000		$54,090,000
Earmarked Carryover Funds (or cap. reserves)		$3,431,000						$3,431,000
Noxious Weed Assessment (NW)						$87,000		$87,000
Internal Department transfers from non-capital programs								$0
SUBTOTAL	**$0**	**$8,681,000**	**$11,551,020**	**$4,206,500**	**$14,943,226**	**$56,357,000**	**$8,106,013**	**$103,844,759**
Existing Revenues - General Use (May be used for more than one type of facility)								
Real Estate Excise Tax (REET) / General Fund (cash)	$1,750,000			$4,210,000				$5,960,000
REET. Gen. Fund, or owner assess. (to be determined)								$0
SUBTOTAL	**$1,750,000**	**$0**	**$0**	**$4,210,000**	**$0**	**$0**	**$0**	**$5,960,000**
Proposed New Revenues or Increased Rates								
GRANTS	$1,850,000		$2,881,140	$1,317,500	$52,606,634	$1,870,000		$60,525,274
Impact Fees	$650,000				$170,000			$820,000
Emergency - FEMA, Applicable Co. Reserves, etc.								$0
Utility Rates - portion from increased (or new) rates/assess.								$0
Utility Loans - to be repaid from increase rates								$0
Trail Permit Fees	$82,000							$82,000
Other			$100,000		$29,494	$10,647,900		$10,777,394
Not Committed Developer & other Jurisdiction Financing								$0
Voter approved bond proceeds - repaid from property tax								$0
Councilmanic GO Bond Proceeds - for repayment from new, not yet committed revenue sources.								$0
SUBTOTAL	**$2,582,000**	**$0**	**$2,981,140**	**$1,317,500**	**$52,806,128**	**$12,517,900**	**$0**	**$72,204,668**
REVENUE TOTALS	**$4,332,000**	**$8,681,000**	**$14,532,160**	**$9,734,000**	**$67,749,354**	**$68,874,900**	**$8,106,013**	**$182,009,427**

EFFECT ON LOCAL TAXES AND FEES:

Table 6-13
Effect on Local Taxes and Fees

FACILITY	CURRENT FEE/TAX USED FOR THE FACILITY	PROPOSED CHANGE IN FEE/TAX FOR THE FACILITY IN THIS PLAN
County Buildings	REAL ESTATE EXCISE TAX must be spent for Capital Projects specified in the Capital Facilities Plan. This is a tax of ½ of 1% paid by sellers upon the sale of real property in the unincorporated county. SALES TAX - 1/10 of a cent. The voters approved this tax in September 1995 for construction, maintenance and operation of juvenile detention facilities and adult jails.	No change in the real estate excise tax. No change in the Sales tax.
County Parks	REAL ESTATE EXCISE TAX for some current park development and major maintenance costs. CONSERVATION FUTURES PROPERTY TAX LEVY for some current park land and open space acquisition costs. This is a county-wide property tax. The current rate is 4.64 cents per thousand assessed value. PARKS IMPACT FEES for purchase of additional Park Lands and Open Space to comply with required Level of Service. TRAIL PERMIT FEES	No change in either the REAL ESTATE EXCISE TAX or the CONSERVATION FUTURES property tax levy and IMPACT FEES.
Roads Construction (and Major	FOREST REVENUES TRAFFIC IMPACT FEES to fund traffic projects that add	NOTE: Revenues the county receives from the property tax road levy are used for road maintenance, not construction.

FACILITY	CURRENT FEE/TAX USED FOR THE FACILITY	PROPOSED CHANGE IN FEE/TAX FOR THE FACILITY IN THIS PLAN
Maintenance and Repair)	capacity to the existing transportation network to meet required Levels of Service.	Grants, forest revenues and a portion of the gas tax that are deposited in the Road Fund are the primary funding sources for road construction and Traffic Impact Fees.
Water Facilities	Water utility rates and charges for each respective utility.	Annual changes in the Water utility rates and charges are expected, as established by Thurston County Code 15.12. If authorized by the Board of County Commissioners (BOCC), Real Estate Excise Tax (REET) may be used to fund efforts associated with new capital facilities or portions thereof, when necessary. Upon vote approval and/or BOCC action, Utility Local Improvement District (ULID) assessments may be established to fund capital facilities or portions thereof, when necessary.
Sewer Facilities	Sewer utility rates and charges for each respective utility.	No changes in the Sewer utility rates and charges are expected, as established by Thurston Code 15.12. If authorized by the BOCC, REET may be used to fund efforts associated with new capital facilities or portions thereof, when necessary. Upon voter approval and/or BOCC action, Utility Local Improvement District (ULID) assessments may be established to fund capital facilities or portions thereof, when necessary.
Solid Waste Disposal and Recycling Facilities	TIPPING FEES (landfill disposal fee): $119.00 per ton for garbage, $48.00 for yard waste, and $143.00 for asbestos.	Tipping Fee increase is reviewed every 4 years to cover a 20-year period (to 2030). In 2010 the BOCC elected to implement rate increases on an annual basis.

FACILITY	CURRENT FEE/TAX USED FOR THE FACILITY	PROPOSED CHANGE IN FEE/TAX FOR THE FACILITY IN THIS PLAN
Stormwater	STORMWATER AND SURFACE UTILITY RATES AND CHARGES Beginning in 2015 the Storm and Surface Water Utility Rates and Charges will be adjusted based on projections of costs and requirements for the five year period ending in 2019. The Capital Facilities portion of the rate is proposed to increase over the 5-year period from $3.00 to $9.00 per year for rural residences and from $18.00 to $37.00 per year for urban residences. Note: There are exemptions and reductions available for senior citizens, residents of lake management and drainage districts, wetlands, tidelands, lands underwater, and lands enrolled under the "Open Space" designation, plus other rates for multifamily residential, commercial, public roads, and agricultural and vacant property.	Storm and Surface Water Utility Rates and Charges are established by Thurston County Code 15.06. Rates shown are for 2015. These rates may increase over the next five year period, subject to approval.
Conservation Futures Program	Conservation Futures property tax levy for some parks, open space, salmon habitat, and agricultural lands. The current Conservation Futures tax rate is 4.64-cents per $1000 assessed value.	Changes in the Conservation Futures property tax levy are made on a yearly basis. Rates may not be increased over 6.25-cents per $1000 assessed value on property. The levy is subject to a statutory limit of 1% increase a year.
School District Impact Fees	As proposed for single family and multi-family development per the individual school district's CFP.	As proposed for single family and multi-family development per the individual school district's CFP.

VII. Summary of 2015-2035 Project Projections

As noted in the introduction to this Plan, the emphasis here is on a six-year forecast of capital needs, costs and revenues. However, this is in the context of a broad summary of anticipated 20-year project needs. This summary is presented in Table 6-14, below.

Table 6-14
2016 - 2036 Twenty-year Generalized Project Projections

Program	Project Categories	Estimated 20-Year Costs
Parks and Recreation	Development	$52,000,000
	Major Improvements	$5,000,000
	Acquisition	$18,000,000
	Master Planning	$250,000
Parks Subtotal		$75,250,000
Solid Waste	Land Acquisition	$3,130,000
	Capital Planning	$782,500
	Construction	$35,216,000
Solid Waste Subtotal		$39,128,500
Stormwater	Land Acquisition	$2,100,000
	Capital Planning	$1,000,000
	New Construction	$15,639,000
	Facility Replacement Construction	$7,439,000
Stormwater Subtotal		$26,178,000
Water and Sewer	Water Rights Acquisition	$2,043,000
	Capital Planning	$1,226,000
	Construction	$36,778,000
Water and Sewer Subtotal		$40,047,000
Transportation	Capacity	$114,497,734
	Design Improvements	$44,272,350
	Safety	$18,392,256
	Bridges	$11,678,310
	Other	$17,052,930
Transportation Subtotal		$205,893,580
County Buildings	New Construction	$90,000,000
	Major Improvements	$37,900,000
	Acquisition	$3,000,000
County Buildings Subtotal		$130,900,000
Total		$517,397,080

VIII. PUBLIC PURPOSE LANDS

A. Facilities of Other Public Entities. Inclusion of public facilities of other public entities in this section is for information only, in compliance with the Growth Management Act, which says the capital facilities element is to include summary information on "capital facilities owned by public entities." Table 6 - 15 includes the major public facility improvements planned by those public entities that responded to Thurston County's request for information to include in this Comprehensive Plan.

The following public entities either declined to apprise the County of their Capital Facilities Plans or responded that they do not have any capital facilities planned for the coming six-year period:

- Fire Districts not listed in Table 6-15
- School districts not listed in Table 6-15
- Grand Mound/Rochester Park & Recreation District
- Tanglewilde Park and Recreation District
- Cemetery Districts #1 and #2
- Other special districts not listed above

Thurston County cannot control the planning or construction of capital facilities by other public entities within its borders, such as school districts, fire districts, port districts and transit entities. However, the capital facilities planned by these other entities must, under the Growth Management Act, be part of the County's Capital Facilities Plan. Inclusion of the capital facilities planning by these other entities will promote consistent and unified capital facilities planning throughout the County. However, the inclusion of their plans does not imply County approval or disapproval of the plans or the levels of service, which they adopt. Rather, their inclusion insures compliance with the GMA and enables a consistent approach to capital facilities planning throughout the County, taking into consideration the Capital Facilities Plans of all public entities in the County. Most of the public entities referenced in table 6-15 have adopted their own 6 and 20 year Capital Facilities Plans. For more information, please refer to those adopted Capital Facilities Plans. For goals and policies related to schools and coordinated planning with other public entities, see below.

Table 6-15

Facilities of Other Public Entities

Projects (Name and Location of Each Capital Project)		6 Year Costs	Funding Source (For 6 year projects)
Project Name	**Location**		
Rainier School District #307			
Construction/modernizations	207 Centre St.	$1,000,000	TBD
Rainier School District Total		**$1,000,000**	
North Thurston School District #3 (2014-2020)			
New Construction	Varies	$50,000,000	Bonds & voluntary mitigation
Modernizations	Varies	$119,000,000	Bonds & state assistance
Site/Land Acquisition	Varies	$2,000,000	Bonds
Facility Upgrades / Asset preservation	District wide	$27,000,000	Bonds
Emergent Needs	Varies	$24,705,000	Bonds
Facility Planning	Varies	$1,652,500	Bonds
Temporary Classrooms purchase (5 per year) and relocation	Varies	$10,500,000	Bonds & voluntary mitigation
Site/Land Acquisition	Varies	$2,000,000	Bonds
North Thurston School District Total		**$241,307,500**	
Olympia School District			

Projects (Name and Location of Each Capital Project)		6 Year Costs	Funding Source (For 6 year projects)
Project Name	**Location**		
Garfield Elementary School Modernization	326 Plymouth St. NW	$21,300,000	Bond Financing impact/ mitigation fees
Centennial Elementary School Modernization	2637 45th Ave SE Olympia	$12,200,000	Bond Financing impact/ mitigation fees
McLane Elementary School Modernization	200 Delphi Rd. SW	$16,800,000	Bond Financing impact/ mitigation fees
Roosevelt Elementary School Modernization	1417 San Francisco Ave. NE	$16,600,000	Bond Financing impact/ mitigation fees
Capital High School Modernization and JAMS Pathway	2707 Conger Ave NW	$19,700,000	Bond Financing impact/ mitigation fees
Olympia High School Addition/Portable Replacement	1302 North Street SE	$11,900,000	Bond Financing impact/ mitigation fees
Avanti High School Addition and Modernization & Relocation of District Administrative Center	1113 Legion Way SE	$13,800,000	Bond Financing impact/ mitigation fees
Build New Intermediate Middle School (on the same campus as the Centennial Elementary School)	2637 45th Ave. SE	$33,100,000	Secured local bonds and impact / mitigation fees
Olympia Regional Learning Academy	Boulevard and 15th Ave. SE	$28,000,000	Secured local bonds
Small Works Roster Projects	Various	$11,681,929	Secured local bonds and levy

Projects (Name and Location of Each Capital Project)		6 Year Costs	Funding Source (For 6 year projects)
Project Name	**Location**		
Olympia School District Total		**$185,255,329**	
Rochester School District #401			
Study and survey for a new elementary school		To be determined	To be determined
Site acquisition and development	Various sites	$3,000,000	Proposed bonds and impact fees
Temporary Classrooms	Various sites	$1,000,000	Mitigation and impact fees and capital project funds
Rochester School District Total		**$4,000,000**	
Tumwater School District #33			
Site Acquisition & Development	Various sites	$ 3,500,000	Secured bonds and impact fees
Temporary Classrooms	Various sites	$600,000	Impact fees
P.G. Schmidt Elem. Replacement	225 Dennis Street SE	$22,600,000	Secured bonds/state grant
Littlerock Elem. Bldg. "A", "C", & "E" Replacement	12710 Littlerock Rd SW	$18,180,000	Secured bonds/state grant
Bush Middle Additions & Renovations	2120 83rd Ave. SW	$23,100,000	Secured bonds and impact fees
Tumwater Middle School Additions & Renovations	6335 Littlerock Rd. SW	$22,600,000	Secured bonds and impact fees
East Olympia Elem. Renovations	8700 Rich Rd. SW	$10,700,000	Secured bonds/state grant

Projects (Name and Location of Each Capital Project)		6 Year Costs	Funding Source (For 6 year projects)
Project Name	**Location**		
Tumwater Hill Elementary Renovations	3120 Ridgeview Ct. SW	$10,900,000	Secured bonds
New Market Skills Center - minor Renovations	7299 New Market St. SW	$2,000,000	State grants and NMSC Capital Investment Funds
Tumwater High School – Various Renovations and Weight Room Addition	700 Israel Rd. SW	$8,535,000	Secured bonds
Black Hills High School – Various Renovations	7741 Littlerock Rd. SW	$3,415,000	Secured bonds
New Alternative Learning Center	Undetermined	$3,500,000	Secured bonds
District Stadium – Various Improvements	700 Israel Rd. SW	$1,567,000	Secured bonds
Various Small Works Projects (Health Safety & Security, Buildings & Grounds, HVAC, Painting, Sidewalks & Parking Lots)	Various Locations	$9,100,000	Secured bonds
Technology Enhancement	Various Locations	$10,000,000	Secured bonds
Tumwater School District Total		**$150,297,000**	
Yelm Community Schools District #2			
Construct New Elementary School	To be Determined	$16,119,000	Proposed Bond/ Impact Fees
Southworth Elementary Replacement		$15,668,000	Proposed Bond/Impact Fees
Prairie Elementary Modernization		$13,508,000	Proposed Bond/Impact Fees
Yelm Middle School Replacement		$31,360,000	Proposed Bond/Impact Fees

Projects (Name and Location of Each Capital Project)		6 Year Costs	Funding Source (For 6 year projects)
Project Name	**Location**		
Yelm High-9th Grade Wing		$26,844,000	Proposed Bond/Impact Fees
Portable Classrooms	Various	$800,000	Proposed Bond/Impact Fees
Support Operation Center		$2,000,000	Proposed Bond/Impact Fees
School Buses	Various	$400,000	Bond/Impact Fees/To be Determined
Yelm Community Schools Total		**$105,499,000**	Bond/Impact Fees/To be Determined
Griffin School District #324			
Re-roofing a portion of the school	6530 33rd Ave. NW	$350,000	Capital Projects Fund
Additional space for all day Kindergarten		$125,000	State Appt./Tuition
Special Education Preschool		$125,000	State Special Ed. Funds
Expansion of Transportation Facility		$50,000	Capital Projects Fund
Building storage and security for compressor		$3,900	Capital Projects Fund
Upgrade Security System		$55,000	Capital Projects Fund
Perimeter Fencing for Schools		$50,000	Capital Projects Fund
Griffin School District Total		**$758,900**	

Projects (Name and Location of Each Capital Project)		6 Year Costs	Funding Source (For 6 year projects)
Project Name	**Location**		
West Thurston Regional Fire Authority			
Renovating Station #1-4	2640 Trevue Ave. SW	$380,000	Local bond funds
Total West Thurston Regional Fire Authority		$380,000	
South East Thurston Fire Authority			
Station #21 Remodel	708 Mill Road	$300,000	Unsecured Bond
Station #22 Rebuild	17213 153rd Ave. SE	$2,000,000	Unsecured Bond
Station #41 Upgrade	12506 133rd St. Rainier	$1,500,000	Unsecured Bond
South East Thurston Fire Authority Total		**$3,800,000**	
Fire District #5 & #9, McLane/Black Lake Fire Department			
No Capital Projects			
East Olympia Fire District #6			
No Capital Projects			
Fire District #7, North Olympia Fire			
No Capital Projects			

Projects (Name and Location of Each Capital Project)		6 Year Costs	Funding Source (For 6 year projects)
Project Name	**Location**		
Fire District #8, South Bay			
District Fire Training Center Phase II	3349 South Bay Rd. NE	$ 550,000	To be determined
New North- end Fire Station	7804 Henderson Rd. NE	$2,701,000	To be determined
Fire District #8, South Bay Total		**$3,251,000**	
Fire District #12			
No Capital Projects			
Fire District #16, Rochester			
No Capital Projects			
Fire District #17, Bald Hills			
Station 17-1 Remodel	16306 Bald Hill Rd. SE	$ 300,000	To be Determined
Station 17-2 Upgrades	17701 Lawrence Lake Rd. SE	To be Determined	To be Determined
New Station	To be Determined	$ 3,000,000	To be Determined
Fire District #17 Total		$ 3,300,000	
Port of Olympia (2013 only) – Still Waiting for Updated Project List			
Airport Projects	Olympia Regional Airport	$3,900,000	Federal and State grants and local funds
Marina and Boatworks	Swantown Marina and Boatworks	$1,100,00	Federal and State grants and Local funds

Projects (Name and Location of Each Capital Project)		6 Year Costs	Funding Source (For 6 year projects)
Project Name	**Location**		
Marine Terminal Projects	Port Marine Terminal	$2,000,000	Federal and State grants & Local Funds
Environmental Program	Various Port Properties	$1,500,000	Federal and State grants & Local Funds
General Projects	Various Properties	$900,000	Local funds and third party reimbursements
Cascade Pole Groundwater Treatment Plant	Cascade Pole Site, Port Peninsula	$500,000	Federal and State grants and local funds
Port of Olympia Total		**$9,900,000**	
Intercity Transit			
Facilities & Transit Centers	Service District	$9,100,000	Federal and Local Funding
Intercity Transit Total		**$9,100,000**	
Public Utility District #1			
Multiple Water System Upgrades and Facility Replacements	Unincorporated Thurston County	$850,500	Capital Project Fund
Lew's 81st Consolidation of Class B Water System into a Class A System	Olympia, WA	$374,432	Drinking Water State Revolving Loan Fund with loan forgiveness of 30%.
Total Public Utility District #1		**$1,224,432**	

B. Public purpose lands and essential public facilities.

The Growth Management Act (GMA) requires that comprehensive plans address both lands for public purposes and siting essential public facilities. The GMA states that the county:

- Shall identify lands useful for public purposes;
- Will work with the state and cities within its borders to identify areas of shared need for public facilities;
- Shall prepare with other jurisdictions a prioritized list of lands necessary for the identified public uses;
- Include a process for identifying and siting essential public facilities; and
- No local comprehensive plan or development regulation may preclude siting essential public facilities in their jurisdiction.

Confusion often arises as to the distinction between lands for public purposes and essential public facilities. Essential public facilities can be thought of as a subset of public purpose lands. The following table illustrates the distinctions.

Table 6-16

Distinguishing Public Purpose Lands From Essential Public Facilities

PUBLIC PURPOSE LANDS	ESSENTIAL PUBLIC FACILITIES
FOCUS: Lands needed to accommodate public facilities.	FOCUS: Facilities needed to provide public services and functions that are typically difficult to site.
Lands needed to provide the full range of services to the public provided by government, substantially funded by government, contracted for by government, or provided by private entities subject to public service obligations.	Those public facilities that are usually unwanted by neighborhoods have unusual site requirements or other features that complicate the siting process.
Examples include: • Utility Corridors[1] • Transportation Corridors[2] • Sewage Treatment Facilities • Stormwater Management Facilities • Recreation • Schools • Other Public Uses *Note: See Chapter 2, Land Use, for an inventory map of public purpose lands.* 1. Addressed in the Utilities Chapter. 2. Addressed in the Transportation Chapter.	Examples include: • Large-scale Transportation Facilities • State Educational Facilities • State and Local Correctional Facilities • Solid Waste Handling Facilities • Airports • Inpatient Facilities Such As: ➢ Substance Abuse Facilities ➢ Mental Health Facilities ➢ Group Homes ➢ Secure Community Transition Facilities

C. Coordinated Public Purpose Lands:

The GMA calls for coordination among the cities, the State and the County, to identify and prioritize lands needed for public facilities. This provides the opportunity to also identify areas of shared need, and possibly, shared use or other efficiencies. The County is currently coordinating public facility needs (including land needs) with the cities and towns through the joint planning process. Additional coordination and prioritization should be pursued through a regional consultation process. A partial list of shared needs identified to date is presented in Table 6-17.

Table 6-17

Interjurisdictional Shared Needs for Public Purpose Lands

Projects Serving Shared Needs	Sharing Jurisdictions or Districts				
	Thurston County	Cities or Towns	School Districts	Port of Olympia	State
Beneficial Re-Use of Closed Landfill (Park & Ride Facility)	Public Works	Lacey			WDOT
Mallard Pond Phase II	RS – SWU	Lacey			
CLT Green Cove Creek Basin Project-Land Acquisition	RS-SWU - Parks	Olympia			
Grand Mound – WSDOT SRA Sewer Connection	Public Works				WSDOT Ecology
WARC HazoHouse Replacement	Public Works	Lacey			Ecology
WARC Closed Loop Park	Public Works	Lacey			WSU Master Growers
Chehalis Western Trail (coordinated recreation use/ stormwater retention/utility corridor)	Public Works	Lacey and Olympia			WDFW WSDOT DNR TRPC
Yelm – Tenino Trail (coordinated recreation use/ stormwater retention/utility corridor/highway access/ potential future rail use)	Public Works	Yelm, Rainier, and Tenino			WSDOT TRPC

Projects Serving Shared Needs	Sharing Jurisdictions or Districts				
	Thurston County	Cities or Towns	School Districts	Port of Olympia	State
Gate to Belmore Trail (coordinated recreation use/ potential future rail use)	Public Works	Tumwater		Rail Transit (future)	Parks RCO WDFW Ecology TRPC
Griffin Athletic Fields	Public Works		Griffin		
Park Acquisitions	Public Works	Lacey Olympia Tumwater, Yelm, Tenino, and Rainier			DNR, WSDOT, and Parks
Glacial Heritage Preserve	Public Works				DNR
Boston Harbor Boat Ramp	Public Works				Fish and Wildlife
Lake Lawrence Park (coordinated recreation use)	Public Works				Fish and Wildlife; and DNR

D. Siting Essential Public Facilities:

The County-Wide Planning Policies for Thurston County provide the following requirements for siting essential public facilities (refer to Appendix C for a description of County-Wide Planning Policies):

Each city and town will:

- Cooperatively establish a process for identifying and siting county and state-wide public capital facilities having a potential impact beyond jurisdictional boundaries;
- Include public involvement at early stages; and

- Base siting decisions on the jurisdiction's adopted plans, zoning and environmental regulations, particularly as they affect critical areas, resource lands, and transportation facilities.

The Thurston Regional Planning Council provided the Interjurisdictional forum for developing the required process for identifying and siting essential public facilities. A process endorsed by the Thurston Regional Planning Council in January 1994 is included in the Special Use Chapter of the Thurston County Zoning Ordinance and below:

DESIGNATION OF ESSENTIAL PUBLIC FACILITIES:

Essential public facilities are public facilities and privately owned or operated facilities serving a public purpose that are typically difficult to site. They include:

1. State education facilities; state or regional transportation facilities; prisons, jails and other correctional facilities; solid waste handling facilities; airports; and inpatient facilities such as group homes, mental health facilities and substance abuse facilities; sewage treatment facilities; and communication towers and antennas.
2. Facilities identified by the State Office of Financial Management as essential public facilities, consistent with RCW 36.70A.200; and
3. Facilities identified as essential public facilities in the county's zoning ordinance.

SITING ESSENTIAL PUBLIC FACILITIES:

Essential public facilities may be allowed as permitted or conditional special uses in the zoning ordinance. Essential public facilities identified as special uses in the applicable zoning district shall be subject, at a minimum, to the following requirements.

1. Classify essential public facilities as follows:
    a. Type One: Multi-county facilities. These are major facilities serving or potentially affecting more than one county. These facilities include, but are not limited to, regional transportation facilities, such as regional airports; state correction facilities; and state educational facilities.
    b. Type Two: These are local or inter-local facilities serving or potentially affecting residents or property in more than one jurisdiction. They could include, but are not limited to, county jails, county landfills, community colleges, sewage treatment facilities, communication towers, and inpatient facilities (e.g., substance abuse facilities, mental health facilities, and group

homes). [NOTE: Such facilities which would not have impacts beyond the jurisdiction in which they are proposed to be located would be Type Three facilities.]

c. Type Three: These are facilities serving or potentially affecting only the jurisdiction in which they are proposed to be located.

In order to enable the county to determine the project's classification, the applicant shall identify the approximate area within which the proposed project could potentially have adverse impacts, such as increased traffic, public safety risks, noise, glare, emissions, or other environmental impacts.

2. Provide early notification and involvement of affected citizens and jurisdictions as follows:

a. Type One and Two facilities. At least 90 days before submitting an application for a Type One or Type Two essential public facility, the prospective applicant shall notify the affected public and jurisdictions of the general type and nature of the proposal, identify sites under consideration for accommodating the proposed facility, and identify opportunities to comment on the proposal. Applications for specific projects shall not be considered complete in the absence of proof of a published notice regarding the proposed project in a newspaper of general circulation in the affected area. This notice shall include the information described above and shall be published at least 90 days prior to the submission of the application.

The Thurston Regional Planning Council may provide the project sponsor and affected jurisdiction(s) with their comments or recommendations regarding alternative project locations during this 90-day period.

(The purpose of this provision is to enable potentially affected jurisdictions and the public to collectively review and comment on alternative sites for major facilities before the project sponsor has made their siting decision.)

b. Type Three facilities. Type Three essential public facilities are subject to the county's standard notification requirements for special uses.

3. Essential public facilities shall not have any probable significant adverse impact on critical areas or resource lands, except for lineal

facilities, such as highways, where no feasible alternative exists (adapted from County-Wide Policy 4.2(a)).

4. Major public facilities which generate substantial traffic should be sited near major transportation corridors [adapted from County-Wide Policy 4.2(b)].

5. Applicants for Type One essential public facilities shall provide an analysis of the alternative sites considered for the proposed facility. This analysis shall include the following:

   a. An evaluation of the sites' capability to meet basic siting criteria for the proposed facility, such as size, physical characteristics, access, and availability of necessary utilities and support services;

   b. An explanation of the need for the proposed facility in the proposed location;

   c. The sites' relationship to the service area and the distribution of other similar public facilities within the service area or jurisdiction, whichever is larger; and

   d. A general description of the relative environmental, traffic, and social impacts associated with locating the proposed facility at the alternative sites that meet the applicant's basic siting criteria. The applicant shall also identify proposed mitigation measures to alleviate or minimize significant potential impacts.

   e. The applicant shall also briefly describe the process used to identify and evaluate the alternative sites.

6. The proposed project shall comply with all applicable provisions of the comprehensive plan, zoning ordinance, and other county regulations.

7. In acquiring and developing parks, trails and other recreation facilities, the County should explore every opportunity to create revenue centers within the park system to generate funding for ongoing park maintenance and operation needs.

PUBLIC PURPOSE LANDS SECTION:

GOAL 2: EVERY CITIZEN SHOULD HAVE SAFE AND CONVENIENT ACCESS TO EDUCATIONAL FACILITIES.

OBJECTIVE 2-A: ***Schools*** **-** Mechanisms and procedures should be established and maintained to ensure that new school facilities are coordinated with growth and their impacts on roads and neighboring uses are considered.

POLICIES:

1. All development proposals should consider enrollment impacts on schools.
2. Where the size of a single proposed development warrants, the developer should identify at the first stage of project review proposed school sites meeting school district standards such as topography, acreage requirements, location, and soil quality. Such sites should be dedicated for school use under terms negotiated by the developer and the school district.
3. Schools should be sited to consider transportation and health needs as follows:
    a. Where practical, schools should be located along non-arterial roads in order to minimize potential conflicts between pedestrian and vehicular traffic. Where the school district finds that siting on arterials is the most practical, school development should include frontage and off-site improvements needed to mitigate the impacts of pedestrian and vehicular traffic.
    b. Availability of sewer and water facilities should also be considered in siting schools, as well as location in areas not subject to exposure from hazardous/dangerous materials, poor air quality or safety hazards.
4. School siting and expansion should avoid prime agricultural land.
5. The County should notify affected school districts of new subdivision proposals, and new schools should be reviewed by the county through a site plan review zoning process where impacts on roads and neighboring uses are considered.

OBJECTIVE 2-B: ***Shared Facility Use with Schools-***The County, school districts, and other governmental agencies should coordinate the use of facilities and operation of programs in order to use facilities efficiently and avoid duplication of public expenditures.

POLICIES:

1. Shared use of school facilities by the general public should be encouraged.
2. The county and the school district should cooperate in the planning and utilization of school and recreational facilities.

GOAL 3: TO PROVIDE ADEQUATE, WELL-LOCATED PUBLIC LANDS AND FACILITIES.

OBJECTIVE 3-A: Identify, in advance of development, appropriately sited lands needed for public purposes, including essential public facilities.

POLICIES:

1. The County should obtain or secure (e.g., by obtaining a right of first refusal for desired property) sites needed for County public facilities as early as possible in the development of an area, to ensure that the facilities are well located to serve the area and to minimize acquisition costs.
2. The County should support regional coordination efforts in identifying shared needs for lands for public purposes to maximize the efficient use of public capital resources.
3. The County should ensure that its development regulations do not preclude the siting of essential public facilities, subject to reasonable development standards and mitigation measures, within Thurston County.
4. The County should identify and site essential public facilities in accordance with the County-wide Planning Policies.