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 PSWQAT 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:

- Protect and enhance the quality and quantity of surface and groundwater resources to support beneficial use by humans, aquatic life, and wildlife.
- Manage the storm drainage system to protect public safety and minimize property damage caused by flooding and erosion.
- Provide adequate funding for the Stormwater Management Program through an equitable stormwater utility rate structure.

General Stormwater Management Program Policies

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

ment 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 was updated in 2016 to be technically equivalent to Ecology's 2012 / 2014 Stormwater Management Manual for Western Washington. Also, all of our other development-related codes, standards and regulations were updated in 2016 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 were completed and made effective by December 31, 2016 as required by the permit.

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 Stormwater Project Summary Sheet.







CITY OF LACEY 2019-2038 CAPITAL FACILITIES PLAN STORM DRAINAGE PROJECTS SUMMARY SHEET

		Prior Years	2019	2020	2021	2022	2023	2022	6-Year Tot	al %	Future Years
	FUNDING SOURCES										
	General Revenue Voted G.O. Bonds										
	Non-Voted G.O. Bonds										
	Revenue Bonds		103,415	133,137	592,749	470,699			1,300,000	61%	
	Utility Rates / Fees GFC Revenue										
	LID / ULID Artorial Street Fund										
	Interfund Loon										
	Grants										
	Developer Financing										
	Stormwater Capital	127 515	376 719	467 286					844 005	39%	7 126 468
		127,010 -	480 124		- 502 740	470,600		_	2 1 4 4 005	100%	7,120,400
	TOTAL	127,515	400,134	000,423	592,749	470,099			2,144,003	100 /8	7,120,400
	EXPENDITURES BY CATEGORY										
-7	Planning										
Ļ	Preliminary Design										
	Design & Engineering		261,136	232,609	257,444	124,001			875,190	41%	888,962
	Land / ROW Acquisition										
	Construction	127,515	218,998	367,814	335,305	346,698			1,268,815	59%	6,237,506
	Other								_		
	TOTAL	127,515	480,134	600,423	592,749	470,699			2,144,005	100%	7,126,468
	EXPENDITURES BY PROJECT										
	SW 1 22nd Avenue SE System Rehabilita	ation	39,755	120,448					160,203	7%	
	SW 2 Diamond Stormwater Alternative	115,816	251,798						251,798	12%	
	SW 3 Stormwater Comprehensive Plan	11,699	85,166	88,752					173,918	8%	
	SW 4 25th Loop Storm Improvements		103,415	302,407					405,822	19%	
	SW 5 Clearbrook Drainage Improvements	S		88,816	385,918				474,734	22%	
	SW 6 Homann Area System Rehabilitation	n			189,798	316,330			506,128	24%	
	SW 7 1010 Midway Storm Improvements				17,033	30,368			47,401	2%	
	SW 8 Belair / Impala Stormwater Installat	tion				124,001			124,001	6%	514,529
	SW 9 College Regional Stormwater Facili	ity									5,721,344
	SW 10 Alder and Gemini Drainage System	า									631,552
	SW 11 White Fir Stormwater Installation										223,517
	SW 12 5th Ct SE and 5th Way Improveme	ents									35,526
	TOTAL	127,515	480,134	600,423	592,749	470,699			2,144,005	100%	7,126,468

Planning Period:2019-2038Project Title:22nd Avenue SLocation:Between College	E System Rehabi le and Golf Club	litation	File Numbe UGA Plann	er: ing Area:	sw001.xls Central	CFP Pr Departi	oject: ment:	SW - Public	1 Works
Project Description: Convert 500 linear feet of ex existing depression.	isting grassy swale to bi	oretention fa	acilities. Install ne	w storm drain fr	rom the existing pump	station location	southward, across	s private p	roperty, to an
Project Justification: Drainage from the neighborhood been installed but requires free	ood to the north overflow quent maintenance so a	rs to 25th Lo a better long	op SE and the ou term solution is n	tlet of this basin eeded.	has been partially blo	ocked by a private	e driveway. A sto	rmwater p	ump station bas
Policy Basis: Stormwater Comp Plan			Current Project	Status: Plannin	g		Land Status: Cit	y ROW	
	PROJECT	FUNDIN	G SOURCE	ES AND EX		S			
Prior Years	2019	2020	2021	2022	2023	2024	6-Year Total	%	Future Years
FUNDING General Revenue									
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 Land / ROW Acquisition	39,755	15,816					55,571	35%	
Construction Other		104,632					104,632	65%	
TOTAL EXPENDITURES	39,755	120,448					160,203	100%	

Planning Period:2019-2038Project Title:Diamond StormyLocation:22nd Ave SE and	vater Alternativ d Ruddell Road	File re UC	e Number: SA Planning Area:	sw002.xls Central	CFP Project: Department:	SW - 2 Public Works					
Project Description: Manage stormwater onsite usin asphalt reoad edge and sidewa existing drainage pathway to th	g permeable pavers lk. This solution ma e existing catch basi	eable pavers for 360 LF on the east side of 22nd Avenue SE between Golf Club Rd SE and College St SE. Instal s solution manages stormwater while preserving current parking uses. Also install pipe on the northeast end of 22 ng catch basin in College St SE.									
Project Justification: Three existing drywells are no l want to sacrifice parking for ope	onger functioning ar en conveyance or bio	nd causing flooding operation facilities.	on several properties. Ponde	ed water extends up to th	ne front steps of residences.	However, residents don't					
Policy Basis: Stormwater Comp Plan		Cur	rent Project Status: Plannin	g	Land Status:	City ROW					
	PROJECT	FUNDING S	OURCES AND EX	KPENDITURES							
Prior Years	2019	2020	2021 2022	2023	2024 6-Year Tot	al % Future Years					
FUNDING											
General Revenue											
Non-Voted G.O. Bonds											
Revenue Bonds											
Utility Rates / Fees											
Arterial Street Fund											
PWTF Loan											
Interfund Loan											
Grants											
SEPA / LTA Developer Financing											
Stormwater Capital 115,816	251,798				251,79	8 100%					
TOTAL FUNDING 115,816	251,798				251,79	8 100%					
EXPENDITURES											
Planning Proliminan / Design											
Design & Engineering 115,816 Land / ROW Acquisition	32,800				32,80	0 13%					
Construction Other	218,998				218,99	8 87%					
TOTAL EXPENDITURES 115,816	251,798				251,79	8 100%					

Planning Period: 2019-2038 Project Title: Stormwater (Location: N/A		prehensive P	lan	File Number UGA Plannir	ig Area:	sw007.xls All	CFP Pr Departr	oject: nent:	SW - Public	3 Works
Project Description:	The City will need to update th stormwater problems to ensure	e SCP to reflect the that the stormwa	ne 2018 updates ter infrastructure	to the Phase II Pe , policies, and fund	mit. The SCP w ling mechanisms	vill build on the City's s will meet the City's	existing stormw needs for the 20	vater managemen)18-2023 cycle.	t prograr	n and known
Project Justification: Th	ne Growth Management Act re 023.	equires cities to pe	riodically update	their comprehens	ve plan. Ecolog	y plans to update the	e 2013 -2018 Ph	ase II permit for th	ne next p	ermit cycle 2018-
Policy Basis: Growth Mar	nagement Act			Current Project S	tatus: Planning			Land Status: N/A	\	
		PROJEC	T FUNDIN	G SOURCE	S AND EXF	PENDITURES	6			
	Prior Years	2019	2020	2021	2022	2023	2024	6-Year Total	%	Future Years
General Revenue										
Non-Voted G.O. Bolids Revenue Bonds	nds									
Utility Rates / Fees GFC Revenue										
LID / ULID Arterial Street Fund PWTF Loan										
Grants SEPA / LTA Developer Einancia	a									
Stormwater Capital	9 <u>11,699</u>	85,166	88,752					173,918	100%	
TOTAL FUNDING	11,699	85,166	88,752	0	0	0	0	173,918	100%	
EXPENDITURES										
Planning Preliminary Design										
Lesign & Engineerii Land / ROW Acquis Construction Other	ng 11,699 iition	85,166	88,752					173,918	100%	
TOTAL EXPENDITU	JRES 11,699	85,166	88,752	0	0	0	0	173,918	100%	

Planning Period: Project Title: Location:	Planning Period:2019-2038Project Title:25th Loop StormLocation:25th Loop		Period: 2019-2038 File No le: 25th Loop Storm Improvements UGA F 25th Loop					sw004.xls Central	CFP Depa	Project: artment:	SW - Public	4 Works
Project Description: Insta main	I backflow preventers on 2 to convey flow to the storn	existing storm dr nwater outfalls, ar	ain outfalls to pond a filtration sy	ond. Install a new s stem at the pump s	torm pump station to pro	on adjacent to tl ovide water qua	he sanitary sewer lity treatment.	pump station on Dia	mond Loc	op SE, a force		
Project Justification: Storm pump	nwater at this location is pu ving it away.	umped away durir	ng extreme storr	n events (i.e., every	couple of years	s). An alternativ	e solution is neede	ed that would manag	je stormw	ater without		
Policy Basis: Stormwater Co	mp Plan			Current Project S	Status: Planning			Land Status: C	ity ROW			
		PROJEC		IG SOURCE	S AND EXI	PENDITU	RES					
	Prior Years	2017	2018	2019	2020	2021	2022	6-Year Total	%	Future Years		
FUNDING General Revenue Voted G.O. Bonds Non-Voted G.O. Bonds	5											
Revenue Bonds Utility Rates / Fees GFC Revenue LID / ULID		103,415	44,321					147,736	36%			
Arterial Street Fund PWTF Loan Interfund Loan Grants												
Developer Financing Stormwater Capital TOTAL FUNDING		103,415	258,086					258,086	<u>64%</u> 100%			
EXPENDITURES Planning Preliminary Design												
Design & Engineering Land / ROW Acquisitio Construction Other	n	103,415	39,225 263,182					142,640 263,182	35% 65%			
TOTAL EXPENDITUR	ES	103,415	302,407					405,822	100%			

Planning Period:2019-2038Project Title:ClearbrookLocation:Clearbrook	Drainage Improvements Drive	File Number: UGA Planning	sw005.xls Area: Central	CFP Project: Department:	SW - 5 Public Works
Project Description: Lower invert of pond ou two pedestrian bridges	tlet and increase pipe size (larger pip . Add an upstream infiltration facility i	be at reduced slope). Exca n 19th Ct NE with stormwa	vate a linear swale around th tter treatment.	e permieter to provide adequate	fall for the pipes and install
Project Justification: The aging storm drain street flooding and three	in this area has limited slope and the eatens to floop one house during any	re is no fall between the sto significant rain event.	orm drain outlets and Clearbro	ook Pond. The system frequentl	y get backwatered, causes
Policy Basis: Stormwater Comp Plan		Current Project State	us: Planning	Land State	us: City ROW
	PROJECT FUNE		AND EXPENDITUR	ES	
Prior Ye	ears 2019 2020	2021	2022 2023	20246-Year T	otal % Future Years
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	88,81	6 385,918		474,	734 100%
TOTAL FUNDING	88,81	6385,918		474,	734 100%
EXPENDITURES Planning Preliminary Design Design & Engineering Land / ROW Acquisition Construction Other	88,81	6 50,613 335,305		139, 335,	429 29% 305 71%
TOTAL EXPENDITURES	88,81	6 385,918		474,	734 100%

Planning Period: Project Title: Location:	Planning Period: 2019-2038 Project Title: Homann Area Sy Location: Homann Drive		File Number: UGA Planning	sw00 Area: Centr	6.xls CFF al Dep	P Project: partment:	ct: SW - 6 t: Public Worl		
Project Description:	Install 10 new bioretention fac	ilities in the right of way to enh	ance local infiltration and	take advantage of hi	gh infiltrating soils in the	area.			
Project Justification:	Drywells and infiltration trenc	hes in this area are no longer f	functioning and causing lo	ocalized nuissance flo	ooding.				
Policy Basis: Stormwate	r Comp Plan		Current Project Stat	us: Planning		Land Status: C	ity Owned		
		PROJECT FUNE	DING SOURCES	AND EXPEN	DITURES				
	Prior Years	2019 2020	2021	2022 2	2023 2024	6-Year Tota	%	Future Year	
FUNDING General Revenue Voted G.O. Bonds Non-Voted G.O. Bo Revenue Bonds	nds		189 798	316 330		506 128	100%		
Utility Rates / Fees GFC Revenue LID / ULID Arterial Street Func PWTF Loan	1								
Interfund Loan Grants SEPA / LTA Developer Financin Storm∜ater Capital	g								
TOTAL FUNDING			189,798	316,330		506,128	100%		
EXPENDITURES									
Planning Preliminary Design Design & Engineeri Land / ROW Acquis	ng sition		189,798	240.220		189,798	38%		
Other TOTAL EXPENDIT	URES		189,798	316,330		506,128	03% 100%		

Planning Period: Project Title: Location:	Planning Period: 2019-2038 Project Title: 1010 Midway Sto Location: Midway		File Number: UGA Planning)7.xls sant Glade	CFP Proje Departme	ect: nt:	SW - 7 Public Wor		
Project Description:	Install 10 new bioretention faci	lities in the right of way to enh	ance local infiltration and	d take advantage of	f high infiltrating sc	oils in the area.			
Project Justification:	A clogged storm drain pipe a	nd blind connection into the C	ounty storm drain is caus	sing flooding.					
Policy Basis: Stormwate	er Comp Plan		Current Project Sta	atus: Planning		La	and Status: C	ity Owned	ł
		PROJECT FUN	DING SOURCES	AND EXPE	NDITURES				
	Prior Years	2019 2020	2021	2022	2023	2024 6-	Year Total	%	Future Years
General Revenue Voted G.O. Bonds Non-Voted G.O. Bo Revenue Bonds Utility Rates / Fees GFC Revenue LID / ULID Arterial Street Fund PWTF Loan Interfund Loan Grants SEPA / LTA Developer Financin Stormwater Capita	onds d		17,033	30,368			47,401	100%	
			17,033	30,368	<u> </u>		47,401	100%	
EXPENDITURES Planning Preliminary Design Design & Engineer Land / ROW Acqui Construction Other	ing isition		17,033	30,368			17,033 30,368	36% 64%	
TOTAL EXPENDIT	URES		17,033	30,368			47,401	100%	

Planning Period:2019-2038Project Title:Belair / Impala StLocation:Belair and Impala	tormwater Installation a Drives	File Number: UGA Planning <i>i</i>	sw008. Area: Central	ds CFP Depa	Project: artment:	SW - Public	8 Works
Project Description: Install Storm drain along Impala	a Drive SE and 32nd Avenue SI	E to convey stormwater to	Ruddell Road Storm	water Treatment Facility	/.		
Project Justification: Lack of drainage infrastructure streets and in some driveways	e in this area is causing nuisand s. Flooding is most significant a	e flooding. All stormwate t the downstream end of	r runoff flows overland the neighborhood. Dra	towards Wonderwood inage infrastructure is	Park causing chronic needed in this neight	flooding orhood.	on residential
Policy Basis: Stormwater Comp Plan		Current Project Statu	s: Planning		Land Status: Cit	y Owned	
	PROJECT FUND	NG SOURCES A		TURES			
Prior Years	2019 2020	2021	2022 202	23 2024	6-Year Total	%	Future Years
FUNDING							
General Revenue							
Non-Voted G.O. Bonds							
Revenue Bonds			124,001		124,001	100%	
Utility Rates / Fees							
GFC Revenue							
LID / ULID							
PWTF Loan							
Interfund Loan							
Grants							
SEPA / LTA							
Developer Financing							544500
							514,529
TOTAL FUNDING			124,001		124,001	100%	514,529
EXPENDITURES							
Planning							
Preliminary Design					101001	1000/	
Design & Engineering			124,001		124,001	100%	
Construction Other							514,529
TOTAL EXPENDITURES			124 001		124 001	100%	514 529
			,		124,001	10070	014,020

Planning Period: Project Title: Location:	20 Co	019-2038 ollege Reg	gional	Storm	nwate	er Fa	cility	,	Fi U	le N GA	uml Plar	ber: nnin	g A	rea		sw(Ce	009. ntra	xls I			CF De	P P part	roje tme	ect: nt:		S F	SW Publi	- c W	9 /orks	
Project Description:	Construct a alignment t	a new storm d hat slopes co	rain fron rrectly, b	n Colleg out does	ge Regi s no cui	onal S renly	Stormv conne	vater ect. C	Facili Option	ty to \ B wo	Vood uld re	lland oute f	Cre low (ek. C under	Dption Mar	n A w tin W	ould ay ar	rerou Id nor	te the rthwar	flow d.	path	to the	e eas	tward	l dow	n an				
Project Justification:	Under a 2 the Unive inch diam	2008 agreeme rsity resulting eter, not 36 ir	ent betwe from ca nch diarr	een the impus g neter).	City an rowth a	id St. Ind im	Martin prove	's Ab ment	bey/L s. Th	niver: is is b	sity, t ecau	he Ci se th	ity is e fac	requi cility o	red t utfall	o mo I was	dify tł disco	ne fac	cility to d to b	e acce e sma	omod aller t	ate a han c	dditio origin	onal ally ti	flow f nougł	rom nt (30)			
Policy Basis: Stormwa	ter Comp P	lan							Сι	irrent	Proje	ect St	atus	: Plar	nning								La	ind S	tatus:	St N	lartin's	s Pro	perty	
				PR	OJE	СТ	FUN	IDI	١G	SOL	JRC	CES	S AI	ND	ΕX	PE	NDI	TUI	RES	5										
		Prior Yea	ars	201	9		2020)		202	21			2022)		20	23		2	2024		6-	Yea	r Tot	al	%	I	Future	e Year
FUNDING																														
General Revenue Voted G.O. Bonds	;																													
Non-Voted G.O. B	onds																													
Utility Rates / Fee	S																													
J LID/ULID																														
3 Arterial Street Fun PWTF Loan	ld																													
Interfund Loan																														
Grants SEPA / LTA																														
Developer Financi Stormwater Capita	ng al																												5,72	21,344
TOTAL FUNDING						_						_ :							_ :				_						5,72	21,344
EXPENDITURES																														
Planning Preliminary Desig	n																													
Design & Enginee	ring iisition																												74	44,817
Construction Other																													4,9	76,527
TOTAL EXPENDI	TURES																												5,72	21,344

Planning Period: Project Title: Location:	2019-2038 Alder and Gemin Alder and Gemin	ni Drainage System ni Streets	File Number: UGA Planning Area:	sw010.xls Central	CFP Project: Department:	SW - 10 Public Works
Project Description:	Rehab existing drywells, insta drain in Lacey Blvd.	all new storm drain to convey s	tormwater to new infiltration galleries	s in community open spac	e and overflow fromt the infil	tration facility to the storm
Project Justification:	Lack of drainage infrastructur	e in this area is causing niussa	nce flooding.			
Policy Basis: Stormwa	ter Comp Plan		Current Project Status: Plannin	ng	Land Status:	City Owned
		PROJECT FUND	ING SOURCES AND E	XPENDITURES		
	Prior Years	2019 2020	2021 2022	2023	2024 <u>6-Year Tot</u>	al % Future Years
General Revenue						
Voted G.O. Bonds Non-Voted G.O. Bonds	onds					
Utility Rates / Fees						
GFC Revenue LID / ULID	A					
PWTF Loan Interfund Loan	ч					
Grants						
Developer Financia Stormwater Capita	ng					
TOTAL FUNDING	:					631,552
EXPENDITURES						
Planning Preliminary Design						
Design & Engineer Land / ROW Acqui	ing sition					123,828
Construction Other						507,724
TOTAL EXPENDIT	URES					631,552

Planning Period:2019-2038Project Title:White Fir StLocation:White Fir Di	tormwater Installation rive NE	File Number: UGA Planning Area:	sw011.xls Hawks Prairie	CFP Project: Department:	SW - 11 Public Works
Project Description: Install new permeable g system discharges to in	ravel shoulder with underdrain pipe on filtration area that is functioning well	north and south shoulders of Wh	ite Fir Drive NE. Connect un	nderdrain to existing storm dr	ain system. Existing
Project Justification: Lack of drainage infrastr	ructure in this area is causing nuissance	flooding.			
Policy Basis: Stormwater Comp Plan		Current Project Status: Planr	ing	Land Status:	City owned
	PROJECT FUNDI	NG SOURCES AND I	EXPENDITURES		
Prior Yea	ars 2019 2020	2021 2022	2023	2024 6-Year Tota	I % 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 Land / ROW Acquisition					20,317
Construction Other					203,200
TOTAL EXPENDITURES					223,517

Planning Period:2019-2038Project Title:5th Ct SE and 5thLocation:5th Ct SE and 5th	n Way Improvements n Way	File Number: UGA Planning Area:	sw012.xls Tanglewilde	CFP Project: Department:	SW - 12 Public Works
Project Description: Construct channelized inverts in downstream structures.	the bottom of existing CB's to	enable jetting of pipes as needed	or maintenance. Will also re	equire increased maintenar	nce of upstream and
Project Justification: Pipes / Structures in backyard	area creating a maintenance p	problem because access is limited.			
Policy Basis: Stormwater Comp Plan		Current Project Status: Planni	ng	Land Status:	
	PROJECT FUND	NG SOURCES AND E	XPENDITURES		
Prior Years	2019 2020	2021 2022	2023	2024 <u>6-Year Tota</u>	al % Future Year
General Revenue					
Non-Voted G.O. Bonds					
Revenue Bonds Utility Rates / Fees					
GFC Revenue					
Arterial Street Fund PWTF Loan Interfund Loan					
Grants SEPA / LTA					
Developer Financing Stormwater Capital					35,526
TOTAL FUNDING					35,526
EXPENDITURES					
Planning Proliminant Decign					
Design & Engineering Land / ROW Acquisition					
Construction					35,526
TOTAL EXPENDITURES					35,526