2019-20 CAPITAL IMPROVEMENT PLAN

CITY OF BEAVERTON

Beaverton
OREGON

Acknowledgements

CIP Project Team
This is the team of City staff that coordinates the CIP process and compiles the CIP document. Staff include: Jim Brink, Paula Moore, Geoff Hunsaker, Luke Pelz, Bill Bartlett, and Adam Korst.

Technical Advisory Team
This is a staff team that provides input and expertise while representing three city departments: Community Development, Public Works, and Finance. Staff include: David Winship, Floyd Harrington, Jabra Khasho, Mark Boguslawski, Brion Barnett, Priya Dhanapal, Sheila Sahu, Aaron Lee, Tristan Wear, Alan Johannson, Tina Nguyen, Tony Chau, Jesse Wilson, Steve Brennan, Brian Rigwood, Mark Olson, Cadence Petros, Stacy Revay, Leigh Crabtree, Anna Slatinsky, Sue Ann Koniak, J.J. Schulz, Pete Rhodes, Tyler Spath and Susan Cole.

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This is a senior management team that includes: Mayor Denny Doyle, City Attorney William Kirby, Finance Director Patrick O'Claire, Mayor's Office Director Abigail Elder, Public Works Director David Donaldson, and Community Development Director Cheryl Twete.

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Mayor and City Council direct policy that impacts the annual Capital Improvement Plan. Council members for FY 2019-20 include:

Lacey Beaty, City Council President
Mark Fagin, City Councilor
Marc San Soucie, City Councilor
Cate Arnold, City Councilor
Laura Mitchell, City Councilor

Budget Committee and Officers
Jose Galindez, Budget Committee Chair
Bill Kanable, Budget Committee Secretary
John Dugger, Budget Committee
Clay Moorhead, Budget Committee Vice-Chair
Tiffany Burton, Budget Committee
Renu Kamath, Budget Committee

Boards and Commissions
Beaverton Planning Commission
Visioning Advisory Committee
Traffic Commission
Beaverton Committee for Community Involvement
CIP Residents Advisory Committee
Beaverton Chamber of Commerce
Bicycle Advisory Committee

CITY OF BEAVERTON
CAPITAL IMPROVEMENT PLAN FOR FY 2019-20 THROUGH FY 2028-29

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PRIORITIES FOR THE CITY OF BEAVERTON'S CAPITAL IMPROVEMENT PLAN

1. **Provide High Quality Sanitary Sewer, Storm Water, and Drinking Water Utility Services**
   a. Focus on sanitary sewer pipe replacement and upsizing projects.
   b. Implement storm water projects that support environmental improvements and employ innovative techniques for storm water management.
   c. Implement long-term drinking water system capacity improvements.
   d. Update long-term forecasts of supply, treatment, and distribution needs based on population trends.
   e. Implement aquifer storage and retrieval (ASR), reservoir expansion, and Joint Water Commission projects.
   f. Bring City properties into the Beaverton Water Service Area.
   g. Participate as a partner in the Willamette Water Supply project.
   h. Connect to the North Transmission Line.
   i. Improve system resiliency.
   j. Implement non-potable water infrastructure ("purple pipe") in South Cooper Mountain and implement within future annexation areas if feasible.

2. **Improve Safety, Accessibility, Maintenance and Mobility of the Transportation System**
   a. Prioritize transportation safety projects citywide.
   b. Ensure that all on- and off-street bicycle and pedestrian facilities have lighting that is context appropriate.
   c. Implement the 2018 Active Transportation Plan, and prioritize bicycle and pedestrian projects in higher traffic areas or where safety issues are evident.
   d. Upgrade existing sidewalk ramps citywide to meet Americans with Disabilities Act (ADA) requirements and the Public Rights-of-Way Accessibility Guidelines (PROWAG).
   e. Fund and implement the New Sidewalk Construction Program.
   f. Utilize asset management to ensure that pavement maintenance is done in a timely manner in order to minimize long-term maintenance costs and to better coordinate with utility replacement projects.
   g. Prioritize pavement maintenance on arterials, collectors and neighborhood routes (minor collectors) over local streets.
   h. Invest in Transportation System Management (TSM) and capacity projects as identified in the Transportation System Plan (TSP).

i. Ensure that intersection and road designs follow the city's adopted Context Sensitive Design Policy.
j. Identify solutions to reduce the funding gap between needs and revenue.

3. Create a Vibrant Downtown and Continue to Invest in the Urban Renewal Area

a. Implement the Council approved Community Vision and other downtown area plans.
b. Implement parking improvements within the District and the downtown area.
c. Construct the Patricia Reser Center for the Arts and Public Parking Garage.
d. Implement utility and infrastructure improvements to support redevelopment efforts in the Urban Renewal District
e. Improve the pedestrian, transit, and bicycle network, including: pedestrian scale streetscape elements and parking, in and around the downtown to serve the community
f. Implement the Canyon Road Safety and Streetscape project.

4. Provide High Quality Urban Services in the South Cooper Mountain Area

a. Work with developers and service providers to implement infrastructure plans for South Cooper Mountain.

5. Improve the Capital Improvement Plan Document

a. Improve the clarity, organization and presentation of the CIP document including stronger descriptions of incremental progress on multi-year projects.

Introduction to the Fiscal Year 2019-20 CIP

In the last few years of the Capital Improvement Plan (CIP) engineering staff have focused on water system improvements throughout the City. The new projects list for FY 2019-20 continues that trend. The continued development of South Cooper Mountain, future annexation of Cooper Mountain Urban Growth Boundary (UGB) expansion, partnership in the Willamette Water Supply Program (WWSP), and transfer of Tualatin Valley Water District (TVWD) customers to the City of Beaverton water service all require significant capital and staff time investments.

The storm drainage and sewer projects planned for FY 2019-20 are mostly carryover from previous years with one additional project. However, future annexation of the Cooper Mountain UGB expansion will require capital improvements in the next few years that will allow for large residential developments. The recent completion of the Sewer Master Plan and continued work on the Stormwater Drainage Master Plan will also steer the selection of rehabilitation projects within the City in the coming years.

Transportation will include two new sidewalk infill projects this year in response to the City Council's directive to complete more sidewalk projects. A few minor transportation projects will be completed this year that will be the first completed projects from the City's Active Transportation Plan recommendations. City staff will also begin the public engagement process for the Murray and Allen Interchange project. Most other transportation work will be focused on design and right-of-way acquisition for the previous year's carryover projects.

Civic work is continuing to focus on large transformative projects in the City that will take years to complete. Only some minor new civic work is proposed in the CIP for FY 2019-20.

Fiscal Year 2019-20 New Projects List

Civic
3523 Downtown Wayfinding Phase 2
5120 Hall Watson Loop Improvements

Transportation
3112 Allen Blvd/92nd Ave Shared Use Path Connection
3113 Laurelwood Ave (Scholls Ferry Rd - Apple Wy) Sidewalk
3415 Barrows Rd/Murray Blvd Fiber Connection
3416 Hall Blvd Pavement Overlay (Ridgecrest Dr to Highway 217)
5106D ADA Ramp Replacement
5110 Wilson Dr (Allen Blvd to Hart Rd) Traffic Calming
5112 Sexton Mountain Dr (Murray Blvd to 155th Ave) Traffic Calming
5113 Denney Rd East of 111th Crossing Improvement
5114 105th Ave Pedestrian and Bike Improvements
5115 Pedestrian Crossing Improvement at 173rd Ave & Autumn Ridge Park
5116 Pedestrian Crossing Improvement at Barrows Rd & Barrows Park

Water
4058B Cooper Mountain Reservoir #3
4123 Barlow Ct 6-Inch Waterline
4135 Griffith Dr 8-Inch Waterline
4142 WWSP Intertie and Pump Station at Tile Flat Road
4143 JWC North Transmission Line Intertie and Transmission Line
4144 Spirea and Cherryhill Dr Waterline Replacement
4151A 175th Transmission Main 24-Inch (Winkleman Park to Alvord Ln)
4151B Weir Rd 16-Inch Transmission Line (173rd to 165th Ave)
4158 AMI/Fixed Base Automated Meter Reading Infrastructure
4159 TVWD Withdrawal Area – Program Management
4161 Area 6 – Denney Road Waterline Crossing at Highway 217
4169A Nimbus North – Hall to Denney Commerce Center - Phase 1
4169B Nimbus North – Hall to Denney Commerce Center - Phase 2
4169C Nimbus North – Hall to Denney Commerce Center - Phase 3
4171 Master Meter (Schendel/Walker)
4172 Metzger East Pipeline – Scholls Ferry Rd (Nimbus Ave to Allen Blvd)
4173 WWSP – SW Allen Blvd (WWSP – SW Allen Blvd)
4174 WWSP – SW Western Ave
4175 Five Oaks School (173rd to 167th) 12-Inch Waterline

Sanitary
6096 McKay Subdivision Utility Improvements, Phase 1

Storm
None

Public Involvement

Hundreds of needed capital projects have been identified through the Community Vision Access Plan, master plans, and the Beaverton Urban Redevelopment Agency Action Plan. All of these plans had public involvement to some degree. The City's CIP is comprised of the highest priority capital projects from these adopted documents.

On November 13, 2018, staff presented City Council with a schedule for the FY 2019-20 CIP, which included a tentative public involvement plan for the CIP process that staff are continuing to refine. The CIP public involvement plan has two primary objectives:

1. Inform stakeholders that the City is taking steps to implement existing adopted plans, which were developed with their input.
2. Consult with stakeholders to listen, acknowledge possible concerns, and gain feedback on draft proposals.

Staff connect with multiple stakeholders during the CIP process. These stakeholders include: Beaverton residents, business organizations (such as the Westside Economic Alliance and Beaverton Downtown Association); neighborhood associations; City boards and commissions; and partner agencies such as Washington County, Tualatin Hills Park & Recreation District, Beaverton School District, Joint Water Commission, Clean Water Services, Oregon Department of Transportation, TriMet, Willamette Water Supply Program, and the Tualatin Valley Water District.

With so many different types of stakeholders, staff must connect with them in different ways. Tools that staff use include: interested parties/project mailings lists, newsletters, fact sheet handouts, mailers, map-based online public comment, project websites, City calendar, presentations, in-person and virtual open houses, and social media. Staff will continue to look for additional ways to connect with stakeholders in the future.

The CIP project team follow up with stakeholders who have provided input during the CIP process to relay how their input was used, and whether it influenced decisions. The same tools used to connect with stakeholders will be used to follow up.

Funding

The funding of capital projects is facing significant challenges in FY 2019-20 and into the future. Construction prices have been increasing significantly the last couple of years, with a 7.7% increase to the Engineering News Record (ENR) construction cost index in 2017 and a 4.9% increase in 2018. These large increases make cost estimating of large multi-year projects difficult and some projects are more expensive than anticipated.

Infrastructure in the United States continues to deteriorate faster than it is replaced. The 2017 American Society of Civil Engineers (ASCE) Infrastructure Report Card gave the country as a whole a D+ grade and Beaverton faces the same issues. The Asset Condition Assessment report completed by Beaverton GIS staff in 2017 found that over 500 sewer mains will be reaching the end of their life expectancy in the coming decade. With information like this, it shows that infrastructure replacement will continue to be a focus of the CIP for the foreseeable future.

Each of the enterprise funds (water, sewer, and storm) is facing a unique funding challenge in FY 2019-20. The 10-year water CIP is very aggressive and large projects such as the Willamette Water Supply Program (WWSP) and Cooper Mountain Reservoir #2 will require the City to issue a bond to help fund these projects. Sewer currently only receives approximately $100,000 per year in system development charge (SDC) revenue and this will not be enough to cover the City's share of sewer upsizing projects that will be needed to accommodate future development. The stormwater maintenance and replacement fund does not have sufficient revenue or contingency to pay for planned outfall retrofit projects that would benefit development in the downtown area, and one of the two planned projects will need to be delayed a few years.

The street fund continues to have insufficient revenue to maintain a Pavement Condition Index (PCI) rating of 75 on City streets while at the same time providing funds for ADA improvements, traffic calming,

signal improvements, sidewalk and path projects, and roadway improvement projects such as the Western Avenue project that is currently in design. Additional funds from the State gas tax and County vehicle registration fee help, but additional revenue sources will need to be considered.

Finally, the City's large civic projects are being hit especially hard by rising construction costs. City staff are continuing to work diligently to reduce construction costs while also looking for additional funding for these large projects.

Modifications and the Future of the CIP

The CIP project team is always searching for ways to improve and innovate the CIP document and process. In FY 2019-20, the team chose to focus on four areas of improvement:

1. **Expanding to a 10-year CIP** – Engineering staff have expanded the future projects list out to ten years where possible.
2. **Include all aspects of the right-of-way** – At the direction of City Council, staff is beginning to include all aspects of infrastructure work within the right-of-way in the CIP (e.g., ramps, side walks, bike lanes, and street lights).
3. **Convert the CIP project list to an online database** – In the past, the CIP database has been managed by a single person using Access software. The CIP project team worked with City ISD staff to develop a webpage portal to an online database. This allows individual projects managers to enter their own project information into the system and allows them to make updates at project milestones.
4. **Make the printing of the CIP document more sustainable** – The project team worked with City reproduction staff to make the CIP document easier to print, and to reduce the amount of paper in the document where possible.

City staff are excited about building upon these CIP improvements and continuing to innovate and refine the CIP. Expanding to a 10-year CIP and including all aspects of infrastructure in the right-of-way will lead to better coordination between utilities and transportation, and will encourage projects to package together design and construction work. Converting the CIP to an online database that is updated by individual project managers will allow the CIP team to keep the database up-to-date and store more information about projects for future analysis. A push for more sustainability may ultimately lead to an online only document that will be more accessible for Beaverton residents.

Going forward, the CIP will not only be an outline of improvement projects for streets, utilities and neighborhoods, but one that includes more active participation from the community as well. As the City moves further into a paper-free, digital age, staff recognize that our CIP needs to follow the same path. In future years, there will be not only more opportunities for public involvement and input, but also a new and improved website with real-time project updates. An interactive map will help residents easily identify projects in their area to keep them informed on project news that affects their neighborhood and commute.

CHAPTER THREE OF THE CIP STORY

In the FY 2017-18 and FY 2018-19 CIPs, the first two chapters of the CIP story discussed the selection and implementation process for transportation and underground utility projects, respectively. The CIP story continues in FY 2019-20 and will evaluate how the CIP is influenced by development in the City of Beaverton.

There are three types of development that occur within the City, and they each influence the CIP in unique ways.

The first type of development is greenfield. This is where generally large portions of the City with no existing infrastructure have all of the needed infrastructure constructed so that it can be developed. Greenfield development requires construction of roads and utilities so that housing and commercial properties can thrive. Urban Growth Boundary (UGB) expansion developments like those within South Cooper Mountain are examples of greenfield development.

The second type of development is infill. This type of development uses land within a built-up area for further construction. Sometimes infill development uses land that was untouched when the surrounding area first developed, and at other times, infill is redeveloped property. These types of development are varied and have their own challenges if the existing infrastructure does not currently support the planned redevelopment or is near the end of its useful life.

The third, and final, type of development is annexation. While less common at the City, annexations can still be difficult to deal with from an infrastructure standpoint if the existing infrastructure in those areas does not meet City standards or if the infrastructure serving the annexed area is owned by a special district.

The City has seen a significant number of both greenfield and infill development applications in the last few years. Between Fiscal Years 2016-17 and 2018-19, there were 1,875 land use applications processed by City staff. Those approved land use applications included over 3,800 housing units and nearly 900,000 square feet of commercial/industrial developments. Engineering staff are involved with the development process from the first pre-app meeting through construction. Working closely with Community Development Department (CDD) staff, engineers make sure the utilities and transportation system being constructed meets the needs of the development and Beaverton residents into the future.

Seven of the twenty CIP projects completed in FY 2018-19 either were completed to support development in the City, or their schedule was accelerated in response to development. The projects identified in the 10-year CIP reveal that development has had a profound impact on project planning and workload for engineering staff. In FY 2019-20 there are 82 street and utility projects that have budgeted funding and 19 of those projects have ties to development. Looking into the future, 20 of the 122 street and utility projects planned for the next 9 years have development ties.

Resident Requests

So far in FY 2018-19, there have been **fourteen** (14) resident CIP nominations. Most of the requests were for construction of sidewalks in different areas of the City. One of the requests was for sidewalks at the intersection of 5th Ave and Western Av,e which is already part of CIP 3328 that will be constructed by 2022. The other streets where sidewalks were requested included Davies Rd, 155th Ave, Walker Rd, 141st Ave, and Canyon Ln. Most of these locations were identified in the November 2017 Active Transportation Plan with a medium or low project need/evaluation score.

Residents may recommend projects to be considered in future CIP budgets by sending their requests to the City's Public Works Department through the City website at:

http://apps.beavertonoregon.gov/CapitalProjects/projectrequestform.aspx.

An example request is shown below.

Upon receipt, City staff will evaluate each request and respond to the requestor in writing with the course of action proposed by the City. The City is particularly interested in recommendations that help eliminate or reduce the risk of personal injury or damage to private property, such as perennial flooding problems. The FY 2019-20 CIP budget includes maintenance and repair projects that address known and unreasonable risks to private property.

Additional information on the City's CIP is available on the City's website (www.BeavertonOregon.gov). The CIP Interactive Map continues to be the easiest way to see what and where CIP projects are proposed.

EXAMPLE CAPITAL PROJECT REQUEST
From: bbeaver@beavertonoregon.gov
Sent: Thursday, March 05, 2018 10:42 AM
To: Mailbox Engineering
Subject: CIP Nomination

Capital Project Nomination

Name: Billie Beaver
Phone: 503-526-2222
Email: bbeaver@beavertonoregon.gov

What needs to be improved?
Street

Description of the Problem: 141ST Ave south of Farmington Rd. has several holes/breaks that have appeared since sewer work was completed last year and quickly getting worse. Several smaller streets in the area were repaved last year but not 141st. Will this section be repaved this summer? Thank you.

Project Location: 141st South of Farmington Road.

Why should this project be completed and what could be improved in doing so?
Public Safety

Overview of CIP Accomplishments in Fiscal Year 2018-19

Seventeen (17) CIP projects were completed in FY 2018-19. This is the same number of projects that was completed in FY 2017-18. It is expected that a similar number of CIP projects will be completed in FY 2019-20.

Civic

None

Transportation

3193A Jenkins Rd Overlay (Cedar Hills Blvd – Edgemoor Dr)
3407 Beaverton Creek Shared-Use Path (Cedar Hills Blvd – Lombard Ave)
3411 Cedar Hills Blvd Bridge Pile Repair
3413 Hall Blvd Fiber Connection
5106B ADA Ramp Replacement, Phase 2

Water

4078C Sexton Mountain Pump Station Upgrade and Emergency Generator
4107 Meridian Pump Station Right-of-Way Improvements
4111 Hyland Way – Waterline Replacement
4118B Settler Way Utility Replacements, Phase 2
4122 South Cooper Mountain Water Improvements
4150 Denney Commerce Center 12-Inch Waterline
4156 140th Ave (142nd Ave – Wilson Dr) Waterline Replacement
4157 Gem Ln Waterline Replacement
5092A 175th Ave (Alvord Ln – Scholls Ferry) Roadway Improvements, MSTIP
5092B 175th Ave/Kemmer Rd Intersection Improvements, MSTIP

Sanitary

4118B Settler Way Utility Replacements, Phase 2
5092A 175th Ave (Alvord Ln – Scholls Ferry) Roadway Improvements MSTIP

Storm

4118B Settler Way Utility Replacements, Phase 2
8130 144th Ave Flood Remediation & Habitat Restoration
8136 Remove and Replace Deteriorated Storm Pipe on Rawhide Ct & Tennessee Ln

CITY OF BEAVERTON
CAPITAL IMPROVEMENT PLAN (CIP)
FOR FY 2019-20 THROUGH FY 2023-24

FY 2019-20 FINANCIAL PLAN

CONTENTS:

Civic, Transportation & Street Projects

Water Projects

Sanitary Sewer Projects

Storm Drainage Projects

City of Beaverton
CIP Financial Plan - Transportation and Civic
FY 2019-20 Proposed

CIP #	Proj #	Project Name	Anticipated TOTAL Project Cost	General Fund	Street Fund	Beg Wrk Cap or Other Funds	TLT	TDT	TIF	BURA	Grants, IGA	Funding Total	Breakdown of project cost: ROW	1% for the Arts	Const.	Eng/Insp	Transfers	Expense Total
													651/652		682	683	602	
Transportation Capital Improvement Projects:												-						
3106	**3106A**	Menlo Dr (Allen Blvd to Fairmount Dr) Sidewalk	2,244,508		64,000							64,000			50,000	14,000		64,000
3112	3112	Allen Blvd Shared Use Path	1,457,000	170,000							80,000	250,000	-		145,000	105,000		250,000
3113	3113	Laurelwood Ave Sidewalk	1,187,000	172,500	172,500							345,000	70,000			275,000		345,000
3143	3143	Denney Rd East of 111th Ave Crossing Improvement	50,000		70,000							70,000			70,000			70,000
3189	3189	Annual Traffic Calming Project	40,000		20,000							20,000			20,000			20,000
3223	5110	Wilson Dr (Allen Blvd - Hart Rd) Traffic Calming	40,000			40,000						40,000			35,000	5,000		40,000
3223	5112	Sexton Mountain Dr (Murray Blvd - 155th Ave) Traffic Calming	60,000			60,000						60,000			55,000	5,000		60,000
3321	3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment	2,519,000					1,715,000				1,715,000			1,675,000	40,000		1,715,000
3328	3328	Western Ave (5th St-Allen Blvd) Improvement	4,485,000	40,000	-			120,000		-	100,000	260,000	150,000			110,000		260,000
3329	3329	Murray Blvd/Allen Blvd Intersection Improvement						70,000				70,000				70,000		70,000
3408	3408	Hocken Ave (RR-TV Hwy) Widening	2,062,000						664,000			664,000	74,000		560,000	30,000		664,000
3410	3410	Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead)	982,000	153,500	153,500						50,000	357,000	2,000		323,000	32,000		357,000
3413	3413	Citywide Fiber Connections			95,000							95,000			95,000			95,000
			15,126,508	**536,000**	**575,000**	**100,000**	**-**	**1,905,000**	**664,000**	**-**	**230,000**	**4,010,000**	**296,000**	**-**	**3,028,000**	**686,000**	**-**	**4,010,000**
												-						
STREET FUND EXPENSES																		
3416	3416	Hall Blvd (Ridgecrest Dr - Hwy 217) Overlay	1,400,000		-							-				-		-
		Annual Paving of local streets	1,200,000		1,200,000							1,200,000			1,200,000			1,200,000
		Annual Savings for Paving Arterial & Collector	1,800,000		1,800,000							1,800,000			1,800,000			1,800,000
5106D	5106D	ADA Ramp Replacement, Phase 4	1,000,000		1,000,000							1,000,000			1,000,000			1,000,000
			TOTALS	-	4,000,000	-	-	-	-	-	-	4,000,000	-	-	4,000,000	-	-	4,000,000
		Facility, Civic, Cultural Capital t Projects:										-						-
3509	3509	Public Safety Center	35,000,000			12,386,223					934,589	13,320,812		302,008	11,355,868	1,662,936		13,320,812
3513	3513	Property Acquisition		66,721		183,279						250,000	1,000,000					1,000,000
3519	3519A	Canyon Rd Intersection Improvements (MTIP)	5,035,000	106,000	106,000							212,000	200,000			12,000		212,000
3521	3521	Patricia Reser Center for the Arts	46,500,000			21,000,683	100,000				6,000,000	27,100,683			19,070,000	700,000		19,770,000
3522	3522	Library Fountain Improvements	2,000,000	-		63,000						63,000			-	63,000		63,000
3523	3509A	PACWEST Gas Station					140,000					140,000			140,000			140,000
				172,721	106,000	33,633,185	240,000	-	-	-	6,934,589	40,946,495	1,200,000	302,008	30,565,868	2,437,936	-	34,365,812
		BURA																
3520	3523	Downtown Wayfinding Phase 2	500,000							75,000		75,000			75,000			75,000
6501	5099	Parking Garage Lot 2 at The Round	24,193,000							18,500,000		18,500,000			18,500,000			18,500,000
	5120	Hall Watson Loop Improvements	10,000,000							150,000		150,000				150,000		150,000
			TOTALS	-	-	-	-	-	-	18,725,000	-	18,725,000	-	-	18,575,000	150,000	-	18,725,000
												-						-
		Totals =>		**172,721**	**4,106,000**	**33,633,185**	**240,000**	**-**	**-**	**18,725,000**	**6,934,589**	**63,671,495**	**1,200,000**	**302,008**	**53,140,868**	**2,587,936**	**-**	**57,090,812**

City of Beaverton
CIP Financial Plan - Water
FY 2019-20 Proposed

Fund #	Proj #	CIP #	Project Name	Funding Source: Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total	Breakdown of project cost: ROW 652	Const. 682	Eng/Insp 683	685 / 687	Expense Total
Water Capital Improvement Projects:														
501	3611	3611	JWC Projects					1,460,000	1,460,000				1,460,000	1,460,000
501	3611		Barney Reservoir					50,000	50,000				50,000	50,000
			Totals - 3611 Joint Water Commission Projects	-	-	-	-	**1,510,000**	**1,510,000**	-	-	-	**1,510,000**	**1,510,000**
501	3700	4017	Water System Hydraulic Modeling & Mapping					-	-			-		-
501	3700	4166	ASR storage & recovery operations related to Potential Fe/Mn impacts					-	-		-			-
			Totals - 3700 Maintenance & Replacement Program	-	-	-	-	-	-	-	-	-	-	-
501	3701	3410	Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead)					-	-		-	-		-
501	3701	3321	Westgate Dr/Cedar Hills Blvd.Dawson Wy Intersection Realignment - JIM					50,000	50,000		30,000	20,000		50,000
501	3701	3519A	Canyon Rd Intersection Improvements (MSTIP)					10,000	10,000			10,000		10,000
501	3701	4060	Water System Security Upgrades					50,000	50,000		50,000			50,000
501	3701	4111	Hyland Way					22,500	22,500		7,500	15,000		22,500
501	3701	4120	Taralynn Avenue - Allen Blvd. to end (1,000 LF of 6")					210,000	210,000		200,000	10,000		210,000
501	3701	4134	Davies/Brockman; Weir Rd/158th Ave PRV Upgrades					265,000	265,000		250,000	15,000		265,000
501	3701	4144	Spirea and CherryHill Dr (400LF 6" and 1400 8") - 1*					-	-		-	-		-
501	3701	4152	Chestnut Pl (6" water line) - 1*					-	-		-	-		-
501	3701	4170	Nimbus South - Hall to Scholls (System Upgrade) - NEW ?					-	-		-	-		-
501	3701	6095	Sellwood Subdivision 11th Street - Lee to Alger - (1,150 LF 6" DIP) ?					280,000	280,000		250,000	30,000		280,000
501	3701	4078C	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phase 3, design					130,000	130,000		100,000	30,000		130,000
501	3701	4135 (1*)	Griffith Drive Waterline Replacement, 3,100 LF of 8" (1*)					-	-					-
501	3701	4158	AMI/Fixed Based Automated Meter Reading Infrastructure - (antenna(s) tower & communication network, meters for SCM)					50,000	50,000		50,000			50,000
501	3701	4169A (3*)	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 1 of 3 - 1*					640,000	640,000		600,000	40,000		640,000
501	3701	4169B (3*)	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 2 of 3 1*					30,000	30,000			30,000		30,000
501	3701	4169C (3*)	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 3 of 3 ---- 1*					-	-			-		-
			Totals - 3701 Water System Improvements	-	-	-	-	**1,737,500**	**1,737,500**	-	**1,537,500**	**200,000**	-	**1,737,500**

City of Beaverton
CIP Financial Plan - Water
FY 2019-20 Proposed

Fund #	Proj #	CIP #	Project Name	Funding Source: Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	**Funding Total**	Breakdown of project cost: ROW 652	Const. 682	Eng/Insp 683	685 / 687	Expense Total
505	3620	3328	Western Ave (5th st - Allen Blvd) Improvement		20,000				20,000			20,000		20,000
505	3620	3408	Hocken Ave (RR-TV highway)		18,000				18,000			18,000		18,000
505	3620	4006	Water System Telemetry (annual upgrade project)		110,000				110,000		100,000	10,000		110,000
505	3620	4018	Wellhead Protection		5,000				5,000			5,000		5,000
505	3620	4021H	ASR Well No. 7 (Cooper Mt. ASR, well maintenance/testing)		10,000				10,000			10,000		10,000
505	3620	4021F	ASR Well No. 6 (well maintenance/testing)		10,000				10,000			10,000		10,000
505	3620	4046	Lloyd Water Line (TVH to Henry) - Upsize to 8", 500 LF - NEW ?		10,000				10,000		-	10,000		10,000
505	3620	4078B	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phases 3, 4, 5 (also in 3701)		-				-		-	-		-
505	3620	4154	Urban Reserve Infrastructure Analysis (6B)		100,000				100,000			100,000		100,000
505	3620	4161	Denney Road Crossing at HW 217th - Replacement of 400 LF with 12" Waterline Upsizing. NEW.		10,000				10,000		-	10,000		10,000
505	3620	4168	Electric Water Line (Tualaway to 139th) - New 8" - NEW ?		110,000				110,000		100,000	10,000		110,000
			Totals - 3620 Extra Capacity Projects	**-**	**403,000**	**-**	**-**	**-**	**403,000**	**-**	**200,000**	**203,000**	**-**	**403,000**
505	3621	4021D	ASR Well No. 5 (includes combined facility w/Sorrento PS seismic upgrades)				1,272,000		1,272,000		600,000	672,000		1,272,000
			Totals - 3621 ASR Well No. 5		**-**	**-**	**1,272,000**	**-**	**1,272,000**	**-**	**600,000**	**672,000**	**-**	**1,272,000**
505	3622	4058A	Cooper Mountain (5.5 MG) Reservoir No. 2 **(Bond)**			4,500,000			4,500,000		**3,800,000**	700,000		4,500,000
505	3622	4058B	Cooper Mountain (5.5 MG) Reservoir No. 3 (Siting and Land Purchase)**(Bond)**			1,020,000			1,020,000	1,000,000		20,000		1,020,000
505	3622	4151A	175th Transmission Main, 24" (Winkleman Park to Alvord Lane, 4800lf)**(Bond)**			3,750,000			3,750,000		3,700,000	50,000		3,750,000
505	3622	4151B	Weir Road 16" Tranmission Line - SW 173rd to SW 165th Avenue/city limits (2,000 LF)**(Bond)**			1,250,000			1,250,000		1,200,000	50,000		1,250,000
			Totals - 3622 Cooper Mountain Reservoir #2 & Water Lines (Bond)	**-**	**-**	**10,520,000**	**-**	**-**	**10,520,000**	**1,000,000**	**8,700,000**	**820,000**	**-**	**10,520,000**
505	3623	4021G	South Cooper Mt. - Non-potable (purple pipe) Water System		2,585,000				**2,585,000**		**1,595,000**	**990,000**		**2,585,000**
			Totals - 3623 Non-Potable Purple Pipe Projects		**2,585,000**	**-**	**-**	**-**	**2,585,000**	**-**	**1,595,000**	**990,000**	**-**	**2,585,000**
505	3625	6083	South Cooper Mt. Infrastructure (Potable)		10,000				10,000			10,000		10,000
			Totals - 3625 (South Cooper Mtn. Water SDC Projects)		**10,000**	**-**	**-**	**-**	**10,000**	**-**	**-**	**10,000**	**-**	**10,000**

City of Beaverton
CIP Financial Plan - Water
FY 2019-20 Proposed

Fund #	Proj #	CIP #	Project Name	Funding Source: Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total	Breakdown of project cost: ROW 652	Const. 682	Eng/Insp 683	685 / 687	Expense Total
505	3627	4128i	**Area 3 -** COB Tranmission Line Intertie - 106th Ave - Division to Davis Road w/ PRV (5,400 LF of 16") **(Bond)**			-			-			-		-
505	3627	4149	West Baseline (158th - 163rd) - 1600 LF of 16" **(Bond)**			-			-		-	-		-
505	3627	4159	TVWD Program Manager			880,000			880,000			880,000		880,000
505	3627	4171	Master Meter (Schendel/Walker)			150,000			150,000		150,000			150,000
505	3627	5090	Jenkins Waterline Extension - 153rd Ave to Merlo (opportunity project) (Bond)			450,000			450,000			450,000		450,000
505	3627	5105	Waterhouse South Area 4 Withdrawal Area **(Bond) (Walker Ph 3) - 4800 LF of 24" + PRV**			750,000			750,000		700,000	50,000		750,000
505	3627	?	Five Oaks School, 173rd to NW 167th, 12" water line, 1500 LF			490,000			490,000		440,000	50,000		490,000
505	3627	5088B	Waterhouse/Elmonica Area,Withdrawal **Area 4 (Bond) (Walker Ph 2)**			20,000			20,000			20,000		20,000
			Totals - 3627 (Withdrawal of Areas from TVWD) (Bond)	**-**	**-**	**2,740,000**	**-**	**-**	**2,740,000**	**-**	**1,290,000**	**1,450,000**	**-**	**2,740,000**
505	3628	4172	TVWD opportunity projects - Metzger East Pipeline - Scholls Ferry Rd, Nimbus Ave to Allen Blvd			100,000			100,000			100,000		100,000
505	3628	4173	TVWD opportunity projects - WWSP - SW Allen Blvd			75,000			75,000			75,000		75,000
505	3628	4174	TVWD opportunity projects - WWSP - SW Western Ave			75,000			75,000			75,000		75,000
			Totals - 3628 - TVWD Opportunity Projects		**-**	**250,000**	**-**	**-**	**250,000**	**-**	**-**	**250,000**	**-**	**250,000**
505	3631	4107	Meridian Pump Station Replacement **(Bond)**			3,560,000			3,560,000		3,500,000	**60,000**		**3,560,000**
			Totals - 3631 Meridian Pump Station (Bond)		**-**	**3,560,000**	**-**	**-**	**3,560,000**	**-**	**3,500,000**	**60,000**	**-**	**3,560,000**
505	3636	4051	Scoggins Dam Replacement - Modification (TBWSP)		3,000				3,000			3,000		3,000
			Totals - 3636 Scoggins Dam Raise		**3,000**	**-**	**-**	**-**	**3,000**	**-**	**-**	**3,000**	**-**	**3,000**
505	3646	4126	Willamette Water Supply Program (WWSP) [WIF Buy-in Cost from TVWD]			11,720,000			11,720,000			-	11,720,000	11,720,000
			Totals - 3643 Willamette Water Supply WIF (Bond)		**-**	**11,720,000**	**-**	**-**	**11,720,000**	**-**	**-**	**-**	**11,720,000**	**11,720,000**

City of Beaverton
CIP Financial Plan - Water
FY 2019-20 Proposed

Fund #	Proj #	CIP #	Project Name	Funding Source: Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total	Breakdown of project cost: ROW 652	Const. 682	Eng/Insp 683	685 / 687	Expense Total
505	3645	4142	Tile Flat (WWSP - COB Intertie) Fluoridation and Pump Station			750,000			750,000	600,000		150,000		750,000
505	3645	4141	WWSP Supply Intertie (opportunity project) @ Cornelius Pass Road/TV Hwy. (Bond)			3,100,000			3,100,000		3,000,000	100,000		3,100,000
505	3645	4143	NTL / STL Intertie and Transmission Line - Phase 1 (170th from SW Shaw to Baseline) - 7200 LF of 24"			500,000			500,000		-	500,000		500,000
505	3645	4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 2 (Century Blvd NTL at Gordon Faber Rec Complex to Evergreen Pkwy) - 900 LF of 24"			-			-		-			-
505	3645	4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 3 (173rd - Baseline to Cornell) - 9000 LF of 24"			-			-		-			-
505	3645	4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 4 (Cornell - Evergren Pkwy - 173rd to Century) - 16,500 LF of 24"			-			-		-			-
505	3645	4143	NTL Intertie (possible grant funding)			-			-		-			-
			Totals - 3645 Willamette Water Supply Interties (Bond)		**-**	**4,350,000**	**-**	**-**	**4,350,000**	**600,000**	**3,000,000**	**750,000**	**-**	**4,350,000**
505	3643	4155	Willamette Intake Facility (WIF) - Operational/Managing Agency			9,000			9,000	-	-	-	**9,000**	9,000
505	3643	4155	Willamette Intake Facility (WIF) - Capital			35,000			35,000	-	-	-	**35,000**	35,000
			Total - 3645 Willamette Intake Facility (WIF)	**-**	**-**	**44,000**	**-**	**-**	**44,000**	**-**	**-**	**-**	**44,000**	**44,000**
			Totals =>	**-**	**3,001,000**	**33,184,000**	**1,272,000**	**3,247,500**	**40,704,500**	**1,600,000**	**20,422,500**	**5,408,000**	**13,274,000**	**40,704,500**

City of Beaverton
CIP Financial Plan - Sanitary
FY 2019-20 Proposed

Fund #	Acct #	CIP #	Project Name	Anticipated ENTIRE Project Total	Funding Source: SDC	Surcharge	Operating: Maint & Replacement	Grants, IGA	Funding Total	Breakdown of project cost: ROW 652	Const. 682	Eng/Insp 683	Transfers 8XX	Expense Total
Sewer Capital Improvement Projects:														
502	3811	6006	Erickson Trunk Upsizing (6th St - 10th St) CWS R110	2,067,000				2,211,000	**2,211,000**		2,121,000	90,000		2,211,000
			Total-3811 Sewer Collection System		**-**	**-**	**-**	**2,211,000**	**2,211,000**	**-**	**2,121,000**	**90,000**	**-**	**2,211,000**
502	3813	4154	Urban Reserve 6B Infrastructure Analysis	150,000	100,000				**100,000**			100,000		100,000
			Total - 3813 Cooper Mtn Project		**100,000**	**-**	**-**	**-**	**100,000**	**-**	**-**	**100,000**	**-**	**100,000**
502	3850	3410	Shared Use Path along Denney (King Blvd-Fanno Creek Trailhead			8,000			**8,000**		8,000			8,000
502	3850	3519A	Canyon Rd Intersection Improvements (MSTIP)			10,000			**10,000**			10,000		10,000
502	3850	6095	Sellwood Subdivision Utility Improvement Master Plan L	1,320,000		85,000			**85,000**		65,000	20,000		85,000
502	3850	8098B	Utility Improvements at Dover Ln Near Oleson Rd (Dover North)	285,000		30,000			**30,000**			30,000		30,000
502	3850	8098A	Utility Improvements at Dover Ln Near Oleson Rd (Dover South)	285,000		255,000			**255,000**		205,000	50,000		255,000
502	3850	6096	McKay Subdivision Utility Improvement Phase 1	980,000		100,000			**100,000**			100,000		100,000
			Total-3850 Maintenance & Replacement		**-**	**488,000**	**-**	**-**	**488,000**		**278,000**	**210,000**		**488,000**
			Totals =>		**100,000**	**488,000**	**-**	**2,211,000**	**2,799,000**	**-**	**2,399,000**	**400,000**	**-**	**2,799,000**

City of Beaverton
CIP Financial Plan - Storm
FY 2019-20 Proposed

Fund #	Proj #	CIP #	Project Name		Funding Source						Breakdown of project cost				
					SDC						ROW	Const.	Eng/Insp	Transfers	Expense Total
				Anticipated TOTAL Project Cost	Conveyance/ Extra Capacity	Stormwater Quantity	Stormwater Quality	Surcharge	Grants, IGA	**Funding Total**	652	682	683	8XX	
Storm Capital Improvement Projects:															
513	3915	8119	141st Ave (Millikan to Vernier) Conveyance Pipe and WQ Retrofit	770,000	780,000					780,000	-	770,000	10,000		780,000
513	3915	4154	South Cooper Mtn Storm Conveyance/ Master Planning share of UGB Expansion Area 6B		20,000					20,000	-		20,000		20,000
513	3915	8101	Stormwater Master Planning	400,000				300,000		300,000		-	300,000		300,000
513	3915	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges (*annual recurring work item*)		-					-	-	-	-		-
			Total - 3915 Misc Conveyance/Extra Cap		**800,000**	**-**	**-**	**300,000**	**-**	**1,100,000**	**-**	**770,000**	**330,000**	**-**	**1,100,000**
513	3916	8123	Existing Stormwater Pond capacity expansion at TBD (annual recurring work item)	~30,000/yr		30,000				30,000		30,000			30,000
513	3916	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges (*annual recurring work item*)			35,000				35,000	-	30,000	5,000		35,000
			Total - 3916 Storm Quantity Projects		**-**	**65,000**	**-**	**-**	**-**	**65,000**	**-**	**60,000**	**5,000**	**-**	**65,000**
513	3917	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges (*annual recurring work item*)				35,000			35,000	10,000	20,000	5,000		35,000
513	3950	8135B	4140 SW Watson Ave Stormwater Outfall to Beaverton Ck Retrofit	2,500,000				200,000		200,000		200,000	-		200,000
			Total - 3917 Storm Quality Projects		**-**	**-**	**35,000**	**-**	**-**	**35,000**	**10,000**	**20,000**	**5,000**	**-**	**235,000**
513	3950	3410	Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead) - associated Storm conduit R&R work					81,000		81,000		80,000	1,000		81,000
513	3950	6006	Minor System Enhancements in conjunction with Erickson SS Trunk upsizing	2,067,000				50,000		50,000		50,000	-		50,000
513	3950	8098A	Dover Area (South) Utility Rehabilitation and Replacement	500,000				220,000		220,000		210,000	10,000		220,000
513	3950	8098B	Dover Area (North) Utility Rehabilitation and Replacement	500,000				30,000		30,000		-	30,000		30,000
513	3950	8122	Major CIPP storm pipe rehab project (annual recurring work item)	15,000,000				620,000		620,000		600,000	20,000		620,000
513	3950	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges (*annual recurring work item*)					190,000		190,000	-	110,000	80,000		190,000
513	3950	8135A	11750 SW Bvtn Hillsdale Hwy Stormwater Outfall to Beaverton Creek Retrofit	1,500,000				115,000		115,000		-	115,000		115,000
513	3950	8135B	4140 SW Watson Ave Stormwater Outfall to Beaverton Ck Retrofit	2,500,000				1,915,000		1,915,000		1,800,000	115,000		1,915,000
513	3950	6095	Sellwood Subdivision Storm Drain Utility Repairs prior to AC Overlay					420,000		420,000		405,000	15,000		420,000
513	3950	6096	McKay Subdivision Utility Impr, Ph 1					20,000		20,000		-	20,000		20,000
			Total - 3950 Maintenance & Replacement		**-**	**-**	**-**	**3,661,000**	**-**	**3,661,000**	**-**	**3,255,000**	**406,000**	**-**	**3,661,000**
			Totals =>		**800,000**	**65,000**	**35,000**	**3,961,000**	**-**	**4,861,000**	**10,000**	**4,105,000**	**746,000**	**-**	**5,061,000**

CITY OF BEAVERTON
CAPITAL IMPROVEMENT PLAN (CIP)
FOR FY 2019-20 THROUGH FY 2023-24

PROJECT INFO FOR FY 2019-20 PROJECTS

CONTENTS:

- **Civic Project Data Sheets**
- **Transportation Data Sheets**
- **Street Rehabilitation Program**
- **Water Project Data Sheets**
- **Sanitary Sewer Project Data Sheets**
- **Storm Drainage Project Data Sheets**

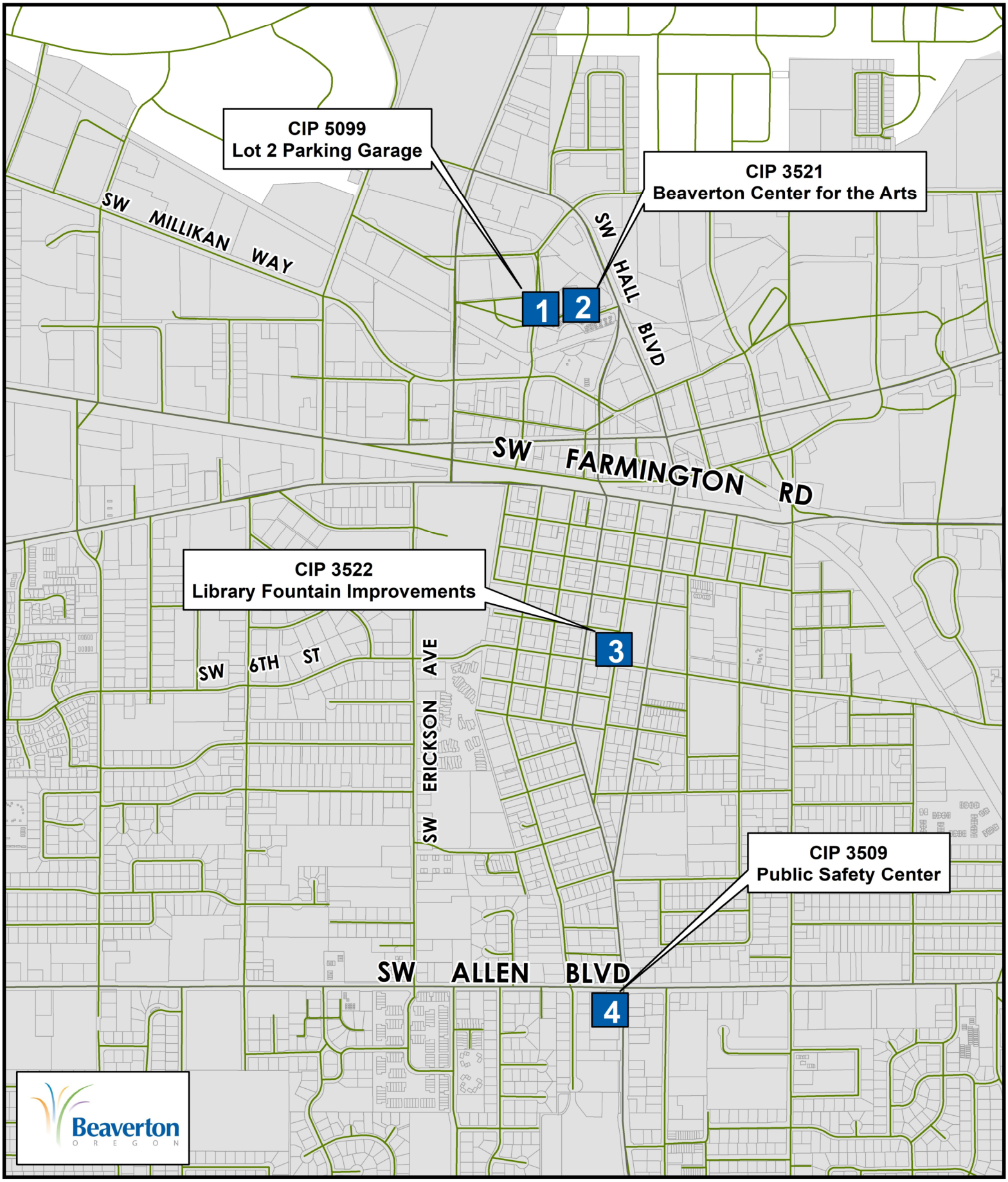
Notes:

1. **On all project data sheets, the "Estimated Project Cost" figure shown is the total estimated cost for the project over its entire duration, which may be more than funding in for the current fiscal year. Multi-fiscal year projects are identified by an asterisk beside their project names.**

2. **Project estimates on the project data sheets may not match the estimate in the Finance sheets because the project data sheets reflect the most current budget information on each project. Changes can occur due to updated project cost estimates and bid openings with actual project costs.**

2019-20 Civic Projects

Civic Projects FY 2019-2020



City of Beaverton **Project Information** **Civic**

FY 2019/2020

Project Number	3509
Project Name	Public Safety Center
Project Description	Construct an approx 74,000 square-foot building located on city-owned property at the corner of SW Hall Blvd and SW Allen Blvd. This location is where three patrol districts meet and is accessible by public transportation. Completion is expected to be in early 2020.
Project Justification	In November 2016, Beaverton voters approved a ballot measure to construct a modern, earthquake resistant police and emergency management building. The bond measure will not increase residents' bond tax rate because it replaces the Beaverton City Library construction bonds.
Project Status	FY17-18: The design and permitting phases of the project are underway and are expected to last 12 months. FY18-19: Complete design and permitting and begin construction. FY19-20: Complete construction. The construction phase of the project is anticipated to last 18 to 24 months.
Project Manager	Eric Oathes

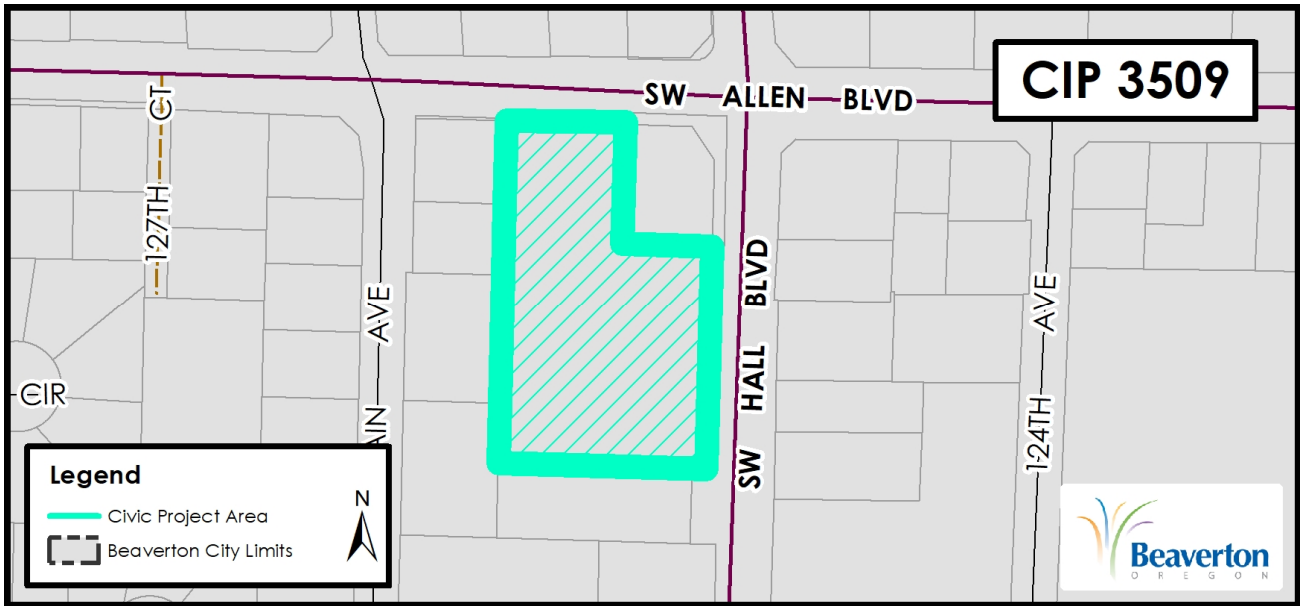
Estimated Date of Completion:	September 2020	**First Year Budgeted:**	FY 2017/2018
Estimated Project Cost:	$35,000,000	**New Project:**	No

Funding Data:

Fund No.	Fund Name	FY	Amount
301	Bond Proceeds	FY 2019/2020	$12,386,223
Grant	Grant	FY 2019/2020	$934,589
		FY Total	**$13,320,812**

This project is a qualifying improvement as outlined by the Percent for Art Ordinance (BC 3.16.010). One percent (1%) of the construction of the project shall be set aside for the acquisition of works of art to be displayed in, upon, adjacent to, or in close proximity to the City facility being constructed.

Map:


CIP 3509
SW ALLEN BLVD
SW HALL BLVD
127TH CT
CIR
AIN AVE
124TH AVE
Legend
Civic Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Civic**

FY 2019/2020

Project Number	3509A
Project Name	PACWEST Gas Station
Project Description	Acquire gas station adjacent to future Public Safety Center; demolish and decommission gas station; and establish amenity to accommodate public art.
Project Justification	In order to preserve the safety and enhance the visibility of the public safety center, as well as to provide a beneficial amenity to the community, the city will acquire the PACWEST Gas Station and improve the highly trafficked corner of SW Hall Blvd and Allen Blvd.
Project Status	FY 18-19: Acquire property; initiate demolition and decommissioning; and begin design process. FY 19-20 complete decommissioning, finalize design, and seek funding for construction of amenity.
Project Manager	Cadence Petros

Estimated Date of Completion:		**First Year Budgeted:**	FY 2019/2020
Estimated Project Cost:	$0	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
107	Transient Lodging Tax	FY 2019/2020	$140,000
		FY Total	**$140,000**

This project is a qualifying improvement as outlined by the Percent for Art Ordinance (BC 3.16.010). One percent (1%) of the construction of the project shall be set aside for the acquisition of works of art to be displayed in, upon, adjacent to, or in close proximity to the City facility being constructed.

Project Number 3521

Project Name Patricia Reser Center for the Arts

Project Description Design and construct an approximately 52,000 square foot Center for the Arts on Lot 3 and a portion of Lot 2 of The Round located on the north side of Crescent Street between Rose Biggi Avenue and Hall Boulevard. The proposed programming in response to the community and regional needs includes: a 550-seat multi-purpose theater, multi-function lobby, art classrooms, conferences and meeting space, art gallery, arts plaza, and café. Work also includes changes to Crescent St between Hall Blvd and Rose Biggi Ave.

Project Justification The City of Beaverton's Community Vision Plan identified the development of a vibrant downtown and enhancing livability as key community goals. In order to ensure the city meets its visioning goals, the city's strategy is to ensure that key catalyst sites at The Round and Westgate are redeveloped to their highest and best use. Thus, the continued redevelopment of The Round presents the city with a significant opportunity to establish a downtown in the heart of the newly-formed Beaverton Central District.

The City has identified a variety of uses that accomplishes the community's goal of creating a vibrant downtown and enhancing livability. Among those uses is the development of the Beaverton Center for the Arts (BCA). Beaverton and the westside has a thriving arts community, but few performing arts venues. A Performing Arts Center Blue Ribbon Task Force, and studies conducted in 2004 and 2011, and 2016 concluded that there is strong interest and a potential market for a performing arts facility in Beaverton. The City identified the BCA project as an on-going Council priority.

Project Status Significant progress has been made towards advancing the idea of the Beaverton Center for the Arts, including the creation of a preliminary business plan, formation of a cross-departmental team, preliminary and schematic designs, development of initial theater programming, development of public funding options, and a National Endowment for the Arts (NEA) - Our Town Grant design award.

FY15-16: In December of 2015, City Council directed staff to proceed with the due diligence work needed to help define the center programming, space needs, design, and costs. To initiate this due diligence work, the City has contracted with a design team to conduct the next iteration of the design and business planning work.

FY16-17: 6-21-16: City Council directed staff to proceed with schematic design. Key staff were recruited including General Manager, BCA to inform design, vision, business and operations planning, and Capital Campaign Manager to lead the capital campaign to raise the remainder of private funds ($11.1M).

FY17-18: Pre-planning for operations and private fundraising and campaign preparation. Continue schematic design. Begin design development. Establishment of Beaverton Arts Foundation as non-profit fiscal entity to lead the capital campaign, via a City grant, under the direction of City's Capital Campaign Manager (as Executive Director of the Foundation).

FY18-19: Continue operations due diligence and planning, build user relationships, develop operational and governance framework, and refine operating pro formas. Continue making progress towards private fundraising

goal of $11.1M. Complete design and permitting in coordination with the Lot 2 Parking Garage (CIP5099).

Project Manager Liz Jones

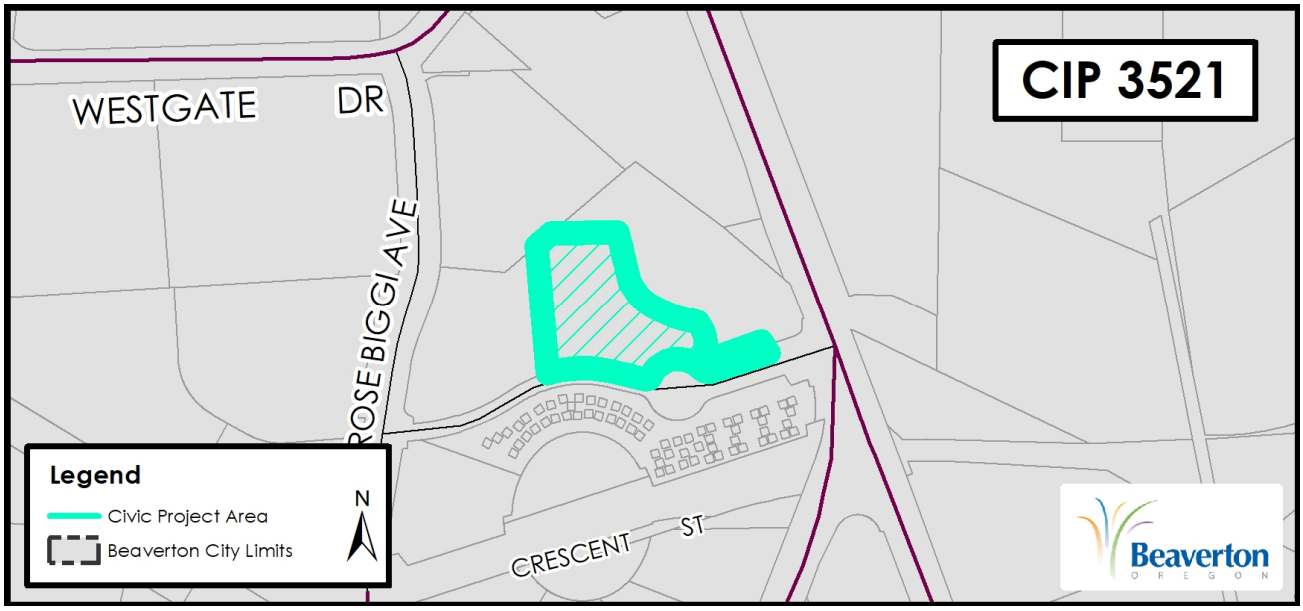
Estimated Date of Completion:	June 2021	**First Year Budgeted:**	FY 2016/2017
Estimated Project Cost:	$46,500,000	**New Project:**	No

Funding Data:

Fund No.	Fund Name	FY	Amount
107	Transient Lodging Tax	FY 2019/2020	$21,100,683
Grant	Grant	FY 2019/2020	$6,000,000
		FY Total	**$27,100,683**

This project is a qualifying improvement as outlined by the Percent for Art Ordinance (BC 3.16.010). One percent (1%) of the construction of the project shall be set aside for the acquisition of works of art to be displayed in, upon, adjacent to, or in close proximity to the City facility being constructed.

Map:


CIP 3521
WESTGATE DR
ROSE BIGGI AVE
CRESCENT ST
Legend
Civic Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Civic**

FY 2019/2020

Project Number 3522

Project Name Library Fountain Improvements

Project Description Repair and replace elements within the fountain and relocate the underground plumbing within an existing vault to an above ground structure located adjacent to the fountain.

Project Justification The plumbing within the fountain requires excessive repair and replacement. The fountain was installed in 1999 and many of the spray heads and connecting plumbing have corroded to the point of failure. The underground vault is not waterproof, requires more manpower to access than an above ground structure, and has also experienced the need for a higher level of maintenance over the past four years.

The fountain is a very popular destination especially during the summertime; however, the frequency of required shutdowns for maintenance is frustrating for both the public, who want to use the facility, and City staff, who must spend excessive hours working on the facility rather than on the City's potable water system.

Project Status FY16-17: Walker Macy selected as consultant in Jan 2017. 2-7-17: Walker Macy fee proposal approved by staff. 3-21-17: Contract awarded to Walker Macy for design services. Begin design. FY17-18: Continue design and develop cost estimate. Design by Walker Macy continues. FY18-19: Complete design and final cost estimate. The new above ground equipment building will be located where the swing sets are currently. A new swing set will be installed near the play structure under the pine trees. Design is proceeding. Council presentation planned for March 5, 2019. FY19-20: Bid project and start construction after Labor Day; however, funding for construction is a major issue.

Project Manager Alan Johansson

Estimated Date of Completion: **First Year Budgeted:** FY 2016/2017

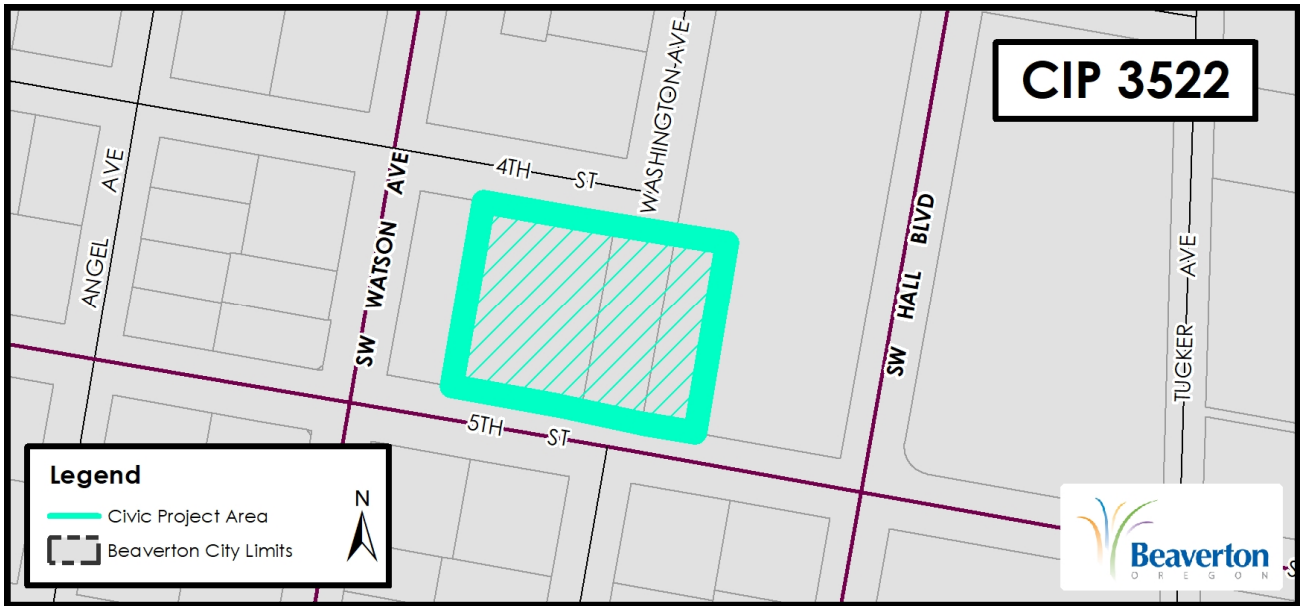
Estimated Project Cost: $2,000,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
001	General Fund	FY 2019/2020	$63,000
		FY Total	**$63,000**

This project is a qualifying improvement as outlined by the Percent for Art Ordinance (BC 3.16.010). One percent (1%) of the construction of the project shall be set aside for the acquisition of works of art to be displayed in, upon, adjacent to, or in close proximity to the City facility being constructed.

Map:


CIP 3522
ANGEL AVE
SW WATSON AVE
4TH ST
WASHINGTON AVE
SW HALL BLVD
TUCKER AVE
5TH ST
Legend
Civic Project Area
Beaverton City Limits
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Beaverton
OREGON

City of Beaverton **Project Information** **Civic**

FY 2019/2020

Project Number	3523
Project Name	Downtown Wayfinding Phase 2
Project Description	This project is for the siting, fabrication and placement of wayfinding signage in the downtown core.
Project Justification	This project was initiated because there is a distinct absence of wayfinding cues or a sense of place in the downtown core, which comprises of over 1,000 businesses and 7,000 employees. Currently distances, direct routes, and destinations are unclear. The project complements other planning efforts in the downtown, including the Beaverton Civic Plan and the Creekside Master Plan. This project responds to the following Beaverton Community Vision Action Items: 2, 18, 20, 25, 37, and 56.
Project Status	FY19-20:
Project Manager	Liz Jones

Estimated Date of Completion:		**First Year Budgeted:**	FY 2018/2019
Estimated Project Cost:	$500,000	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
BURA	Beaverton Urban Renewal Agency	FY 2019/2020	$75,000
		FY Total	**$75,000**

This project is a qualifying improvement as outlined by the Percent for Art Ordinance (BC 3.16.010). One percent (1%) of the construction of the project shall be set aside for the acquisition of works of art to be displayed in, upon, adjacent to, or in close proximity to the City facility being constructed."

City of Beaverton **Project Information** **Civic**

FY 2019/2020

Project Number 5099

Project Name Lot 2 Parking Garage

Project Description Design and construct a seven-story, approximately 155,000 square foot, 350-space parking garage on Lot 2 of the Round, located at the northeast corner of Crescent Street and Rose Biggi Avenue. The garage building will also have approximately 7,000 square feet of commercial space.

Project Justification A second parking garage at the Round will be necessary to maximize redevelopment potential in the Beaverton Central District and is a significant component of the City's and BURA's efforts in creating and vitalizing an 18-hour, mixed use area. The garage would support development efforts in the district by providing parking opportunities for new uses, minimizing development costs as parking could be shared throughout the day and night in one of the two parking garages on site. Replacement of existing parking will be accommodated in the structure upon redevelopment of the parking lots on Lots 2 and 3 of the Round.

Project Status FY15-16: BURA purchased Lot 2 of the Round in December 2016. The City also owns the abutting parcel, Lot 3, which is the parking for the owners of The Lofts Condominiums. BURA has a contract with Mackenzie to design the parking garage.

FY16-17: Schematic design phases were completed.

FY17-18: Design development phase was completed in Spring 2018. Preparation of construction contract documents will begin in May 2018.

FY18-19: Complete land use process. Submit and finalize Building and Site Development permits. Construction will be dependent on the timing of construction of the BCA on Lot 3 of the Round (CIP 3521).

Project Manager Tyler Ryerson

Estimated Date of Completion: October 2021 **First Year Budgeted:** FY 2016/2017

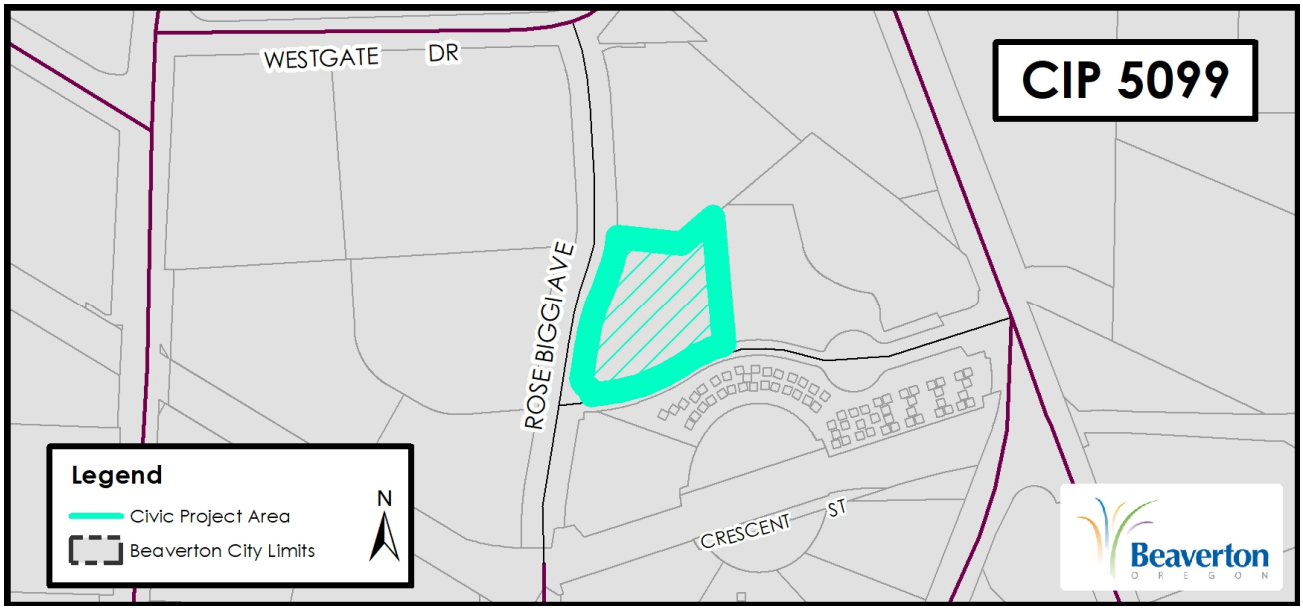
Estimated Project Cost: $24,000,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
BURA	Beaverton Urban Renewal Agency	FY 2019/2020	$18,500,000
		FY Total	**$18,500,000**

This project is a qualifying improvement as outlined by the Percent for Art Ordinance (BC 3.16.010). One percent (1%) of the construction of the project shall be set aside for the acquisition of works of art to be displayed in, upon, adjacent to, or in close proximity to the City facility being constructed.

Map:


CIP 5099
WESTGATE DR
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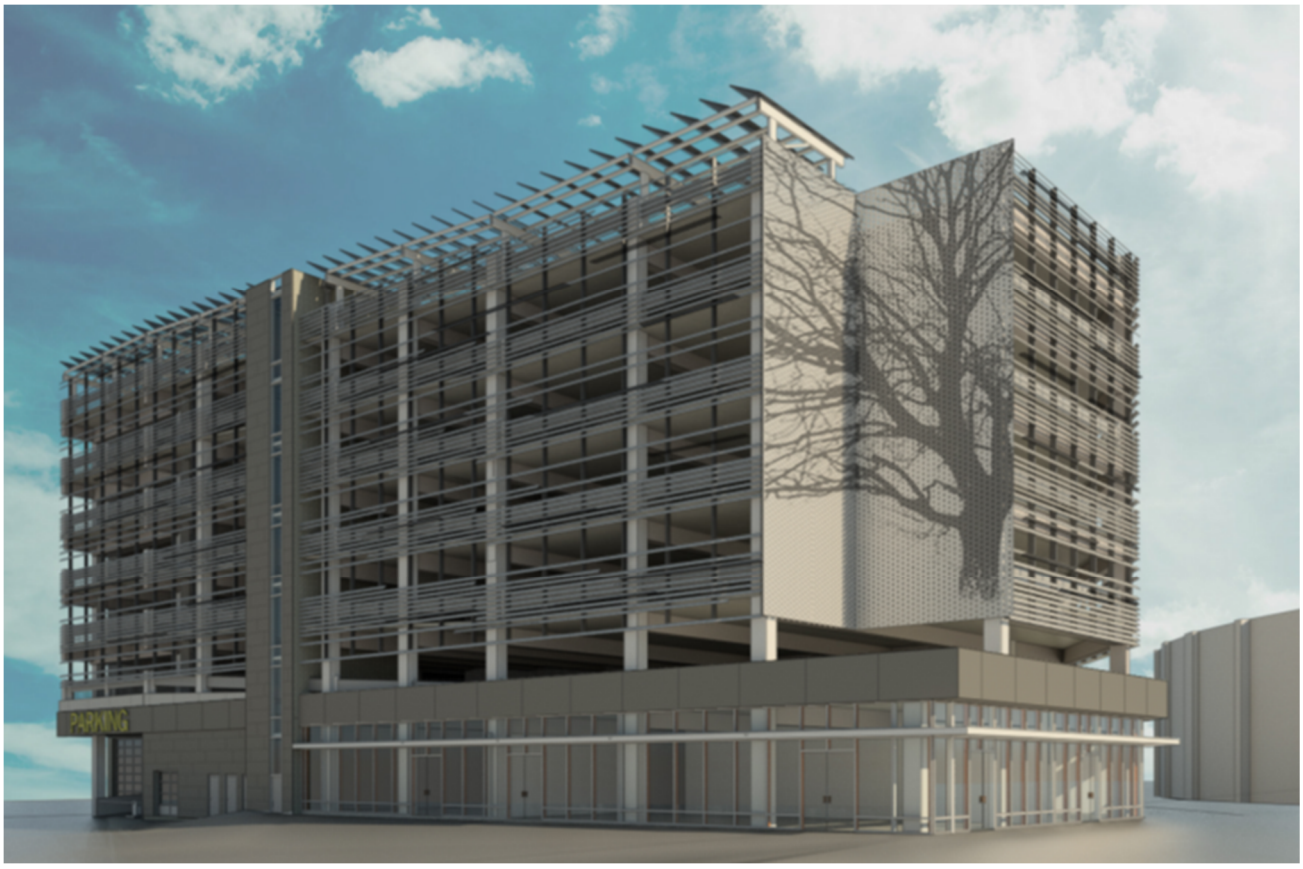

PARKING

City of Beaverton **Project Information** **Civic**

FY 2019/2020

Project Number 5120

Project Name Hall-Watson Loop Improvements

Project Description Design and construct phase one of "The Loop," a multimodal street improvement project along downtown portions of SW Watson Avenue and SW Hall Blvd. Potential amenities include bicycle lanes, wider sidewalks, public art, wayfinding and other pedestrian amenities.

Project Justification The Loop is the central feature of Downtown Design Framework Plan, adopted by City Council in October 2018. Coupled with code changes for the downtown core, The Loop will help implement the Community Vision for a vibrant downtown. Completing these improvements as a CIP project rather than piecemeal with future redevelopment will create an identifiable loop system to spur and support private redevelopment.

Project Status FY 2018-19 complete design concepts as part of the Downtown Design Project Phase 2 work. FY 2019-20 develop preliminary design for phase 1 of The Loop improvements.

Project Manager Cadence Petros

Estimated Date of Completion: **First Year Budgeted:** FY 2019/2020

Estimated Project Cost: $0 **New Project:** Yes

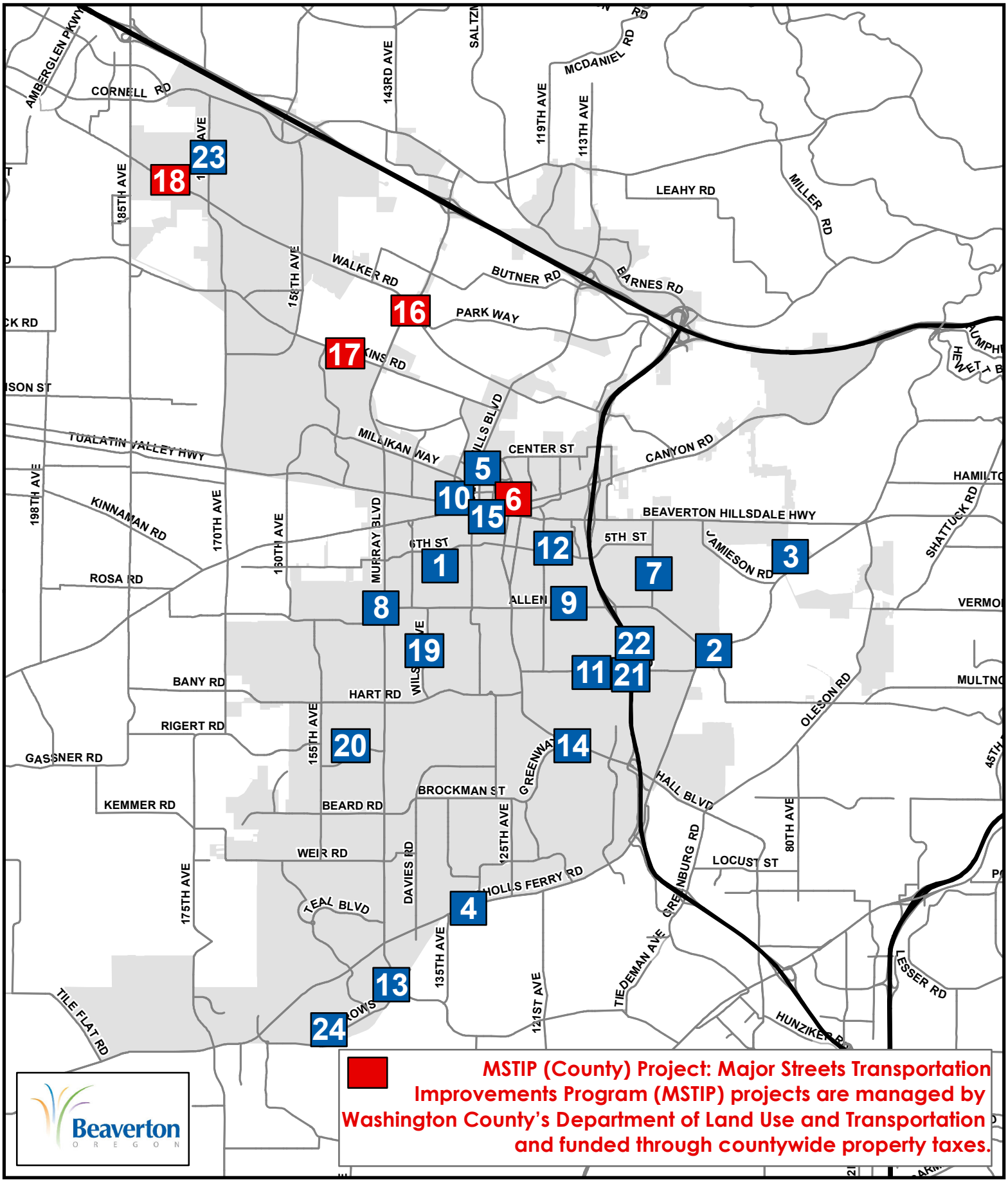
Funding Data:

Fund No.	Fund Name	FY	Amount
BURA	Beaverton Urban Renewal Agency	FY 2019/2020	$150,000
		FY Total	**$150,000**

This project is a qualifying improvement as outlined by the Percent for Art Ordinance (BC 3.16.010). One percent (1%) of the construction of the project shall be set aside for the acquisition of works of art to be displayed in, upon, adjacent to, or in close proximity to the City facility being constructed.

2019-2020 Transportation Projects

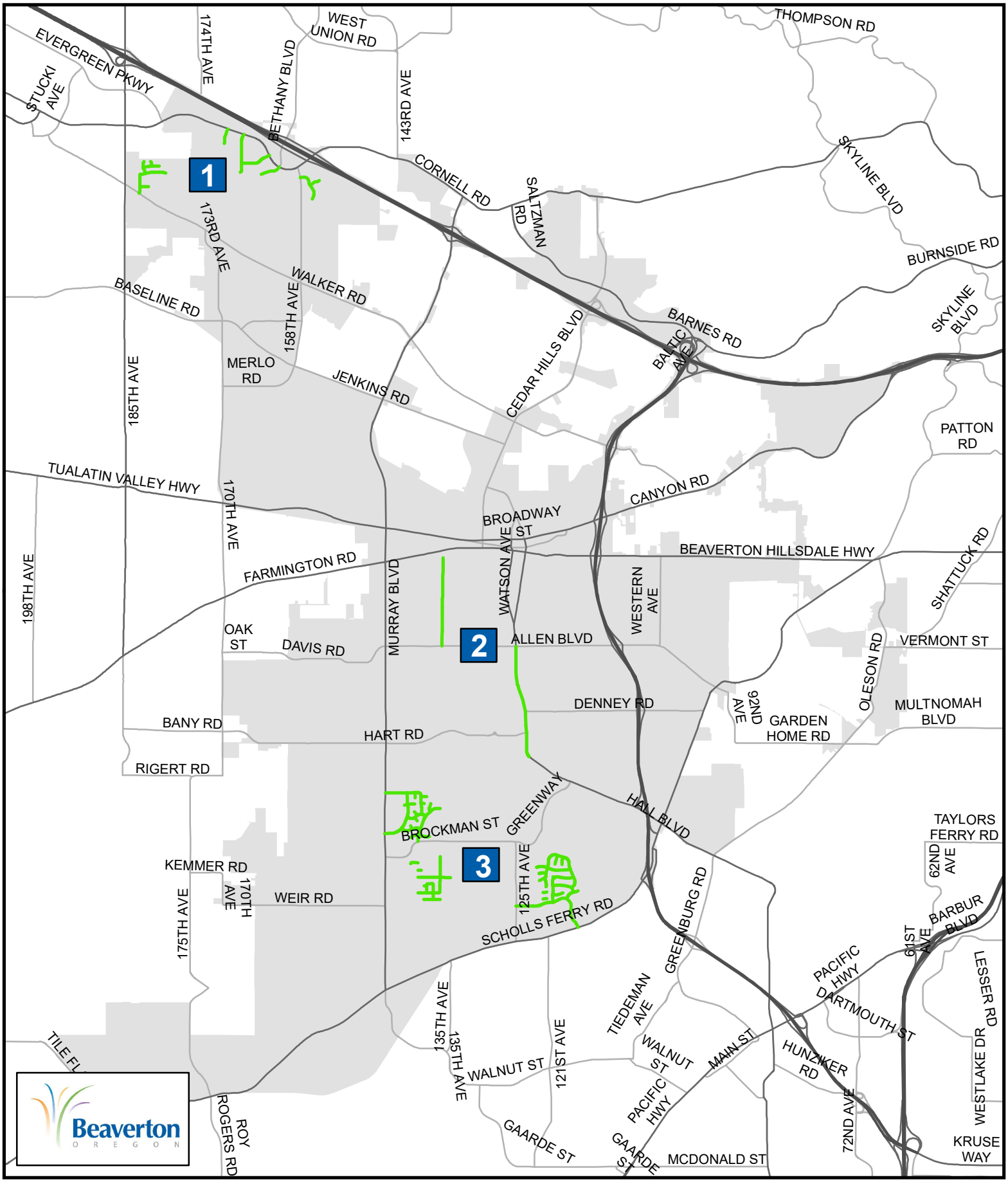
Transportation Projects FY 2019-2020



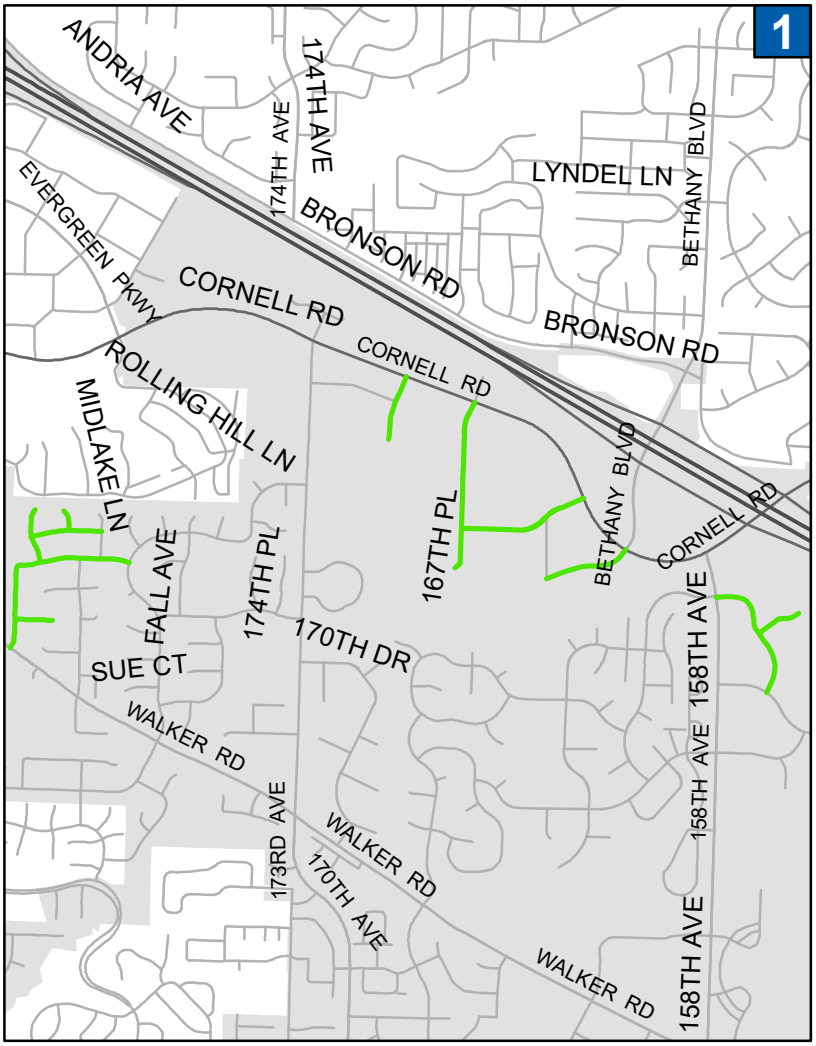
Map #	CIP #	Project Name
1	3106A	Menlo Dr (Allen Blvd to Fairmount Dr) Sidewalk
2	3112	Allen Blvd/92nd Ave Shared Use Path Connection
3	3113	Laurelwood Ave (Scholls Ferry Rd - Apple Wy) Sidewalk
4	3201	Washington Square Adaptive Signal System
5	3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment
6	**3327**	Millikan Wy Extension (Watson Av - Lombard Ave) MSTIP3E*
7	3328	Western Ave (5th St-Allen Blvd) Improvement
8	3329	Murray Blvd/Allen Blvd Intersection Improvement
9	3340	All Roads Transportation Safety (ARTS) Project for Systemic Signal & Illumination
10	3408	Hocken Ave (RR - TV Hwy) Widening
11	3410	Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead)
12	3410A	Beaverton Creek Trail (On-Street from King Blvd to Lombard Ave)
13	3415	Barrows Rd/Murray Blvd Fiber Connection
14	3416	Hall Blvd (Ridgecrest Dr - Hwy 217) Overlay
15	3519A	Canyon Rd (Hocken Ave-Short St) Improvements, MTIP
16	**5089**	Murray/Walker Intersection & Replacement Bridges, MSTIP 3D*
17	**5090**	Jenkins Road: A Washington County MSTIP Roadway with a City of Beaverton Waterline Extension*
18	**5105**	Walker Rd (173rd Ave - 185th Ave), MSTIP3e*
19	5110	Wilson Dr (Allen Blvd - Hart Rd) Traffic Calming
20	5112	Sexton Mountain Dr (Murray Blvd - 155th Ave) Traffic Calming
21	5113	Denney Rd East of 111th Ave Crossing Improvement
22	5114	105th Ave Pedestrian & Bike Improvements
23	5115	Pedestrian Crossing Improvement at 173rd Ave & Autumn Ridge Park
24	5116	Pedestrian Crossing Improvement at Barrows Rd & Barrows Park

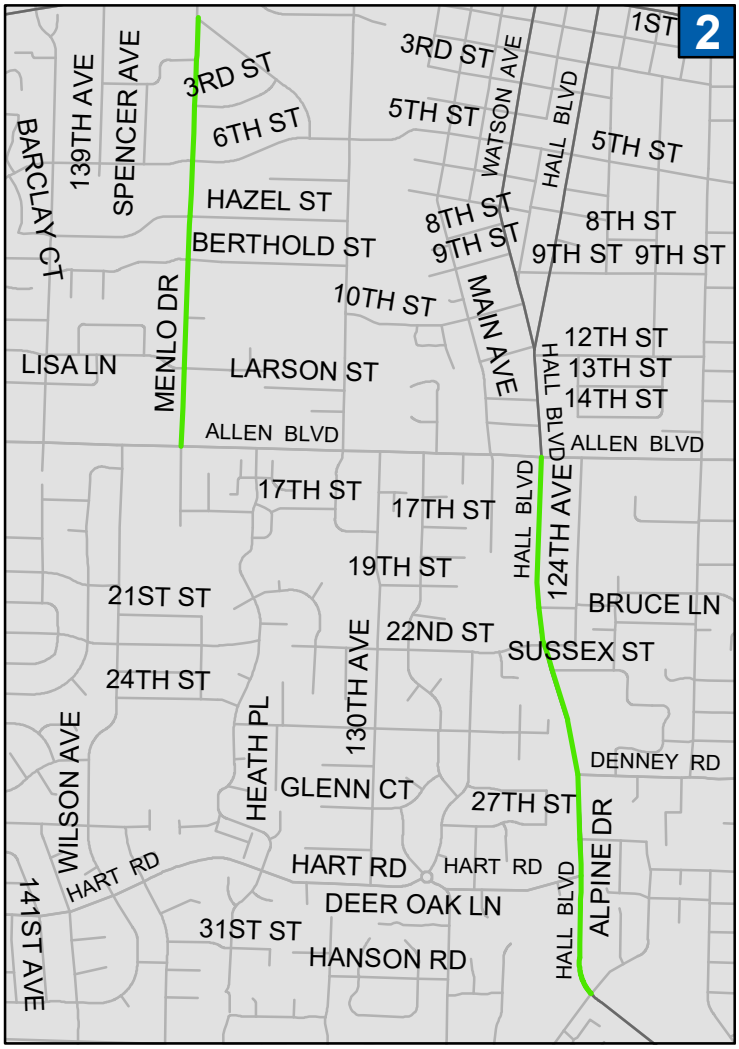
*__MSTIP__ (County) Project: Major Streets Transportation Improvements Program (MSTIP) projects are managed by Washington County's Department of Land Use and Transportation and funded through countywide property taxes.

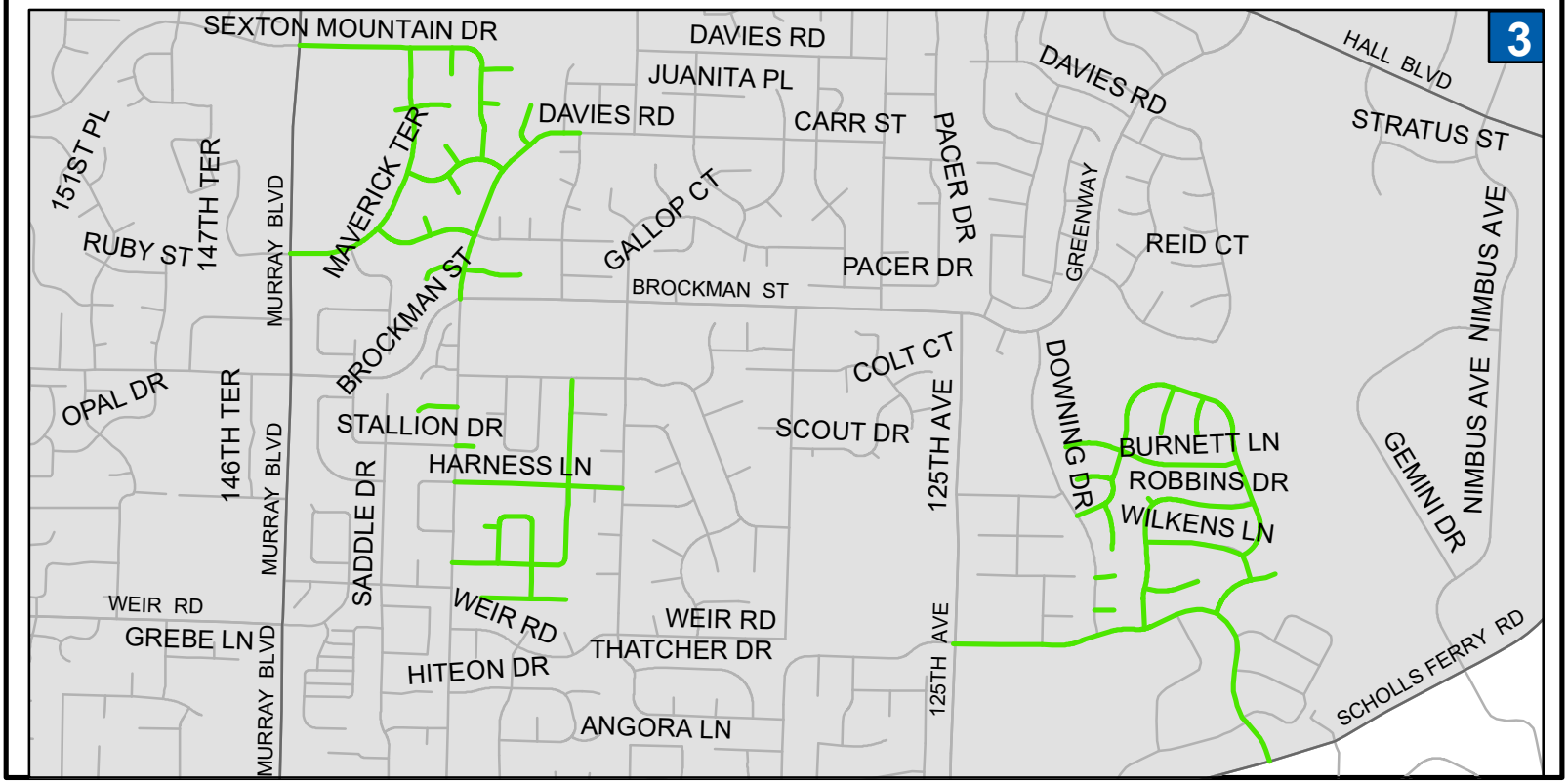
Street Paving 2019-20



Street Paving Detail 2019-20







City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 3106A

Project Name Menlo Dr (Allen Blvd to Fairmount Dr) Sidewalk

Project Description Design and construct a curb and sidewalk along the east side of Menlo Dr from Fairmount Dr to Allen Blvd. The project also includes storm drainage and associated water quality improvements. The replacement of the existing street lighting system is also included. The undergrounding of overhead utilities is not included. Public and private utilities may also be affected. The cost per foot for a 5-foot wide sidewalk separated from the curb by a 7.5-foot wide water quality swale is $596 which includes design and construction. The current total estimated cost is $2,264,000 for 3,600 feet of sidewalk (one side of the street only). The total cost estimate is as follows: Engineering - $491,000; ROW - $118,000; and Construction - $1,655,000.

The Sidewalk Gap Mapping Tool is available at http://arcg.is/235w2ds.

Project Justification This project responds to a Council Priority established in 2016 to include sidewalk projects in the CIP and to Community Vision Action Plan (CVAP) #48 install safe sidewalks and pedestrian lighting citywide and #49 create safe routes to schools. It is part of a multi-year program to expand the City's sidewalk network and fill connectivity gaps.

This project supports Comprehensive Plan Goals 6.2.1 (policy g), 6.2.2 (policies a-h), 6.2.3 (d and f), 6.25 (policy a); TSP Action Plan (Table 6-1) Project #'s 142, 514, 515, 48, 110, 143, and 171; and the City's Pedestrian Master Plan (Figure 6.1).

Project Status FY15-16: 4-21-16: Discussed selection criteria and schedule for FY16-17 with CIP Citizens Advisory Committee (CAC). The CAC narrowed their recommendation to 1) 141st Ave (Allen Blvd to Berthold St and Berthold St to 142nd Ave) 2) Menlo Dr (Allen Blvd to Berthold St and Berthold St to Fairmount Dr), and 3) Nora Rd (Powerline Trail to 15865 Nora Rd). 5-9-16: CAC selected Menlo Dr (Allen Blvd to Berthold St and Berthold St to Fairmount Dr) as their top priority. 6-21-16: Council approved the entire length of Menlo Dr from Allen Blvd to Fairmount Dr. FY16-17: 7-6-16: RFP advertised. 8-2-16: 5 proposals received. 8-23-16: 3J Consulting notified that it was highest ranked consultant. 11-7-16: Contract signed with 3J Consulting. 2-21-17: 30% design completed and recommendation provided to City on preferred alignment with cost estimate. 4-24-17: Open House 1. 5-3-17: East side alignment confirmed as preferred alignment. FY17-18: 9-12-17: Walking tour with City department managers. 10-26-17: 60% design complete. 12-5-17: Council approved Intent to Acquire resolution. Jan-May 2018: Acquire ROW from 31 properties. 1-26-18: TCE package mailed to 20 properties. 2-12-18: Universal Field Services (ROW agent) began acquisition of right of way on 13 properties. 5-7-18: Right of way acquisition complete and began work on 90% plans. FY 18-19: 8-1-18: Final plans completed. 8-15-18: Project advertised. 8-22-18: Mandatory pre bid meeting. 9-14-18: Bids opened. Wildish Standard Paving the low bid. 9-18/19: Rich's Tree Service removed 19 trees. 10-2-18: Council awarded construction contract. 10-22-18: Pre construction meeting held. 11-5-18: Rich's Tree Service removed 3 trees. 11-28-18: 1st Note (project start date). 1-31-19: 20% complete. 2-13-19: CCO 1 approved in the amount of $74,242 for additional CIPP services.

Project Manager Jim Brink, Luke Pelz

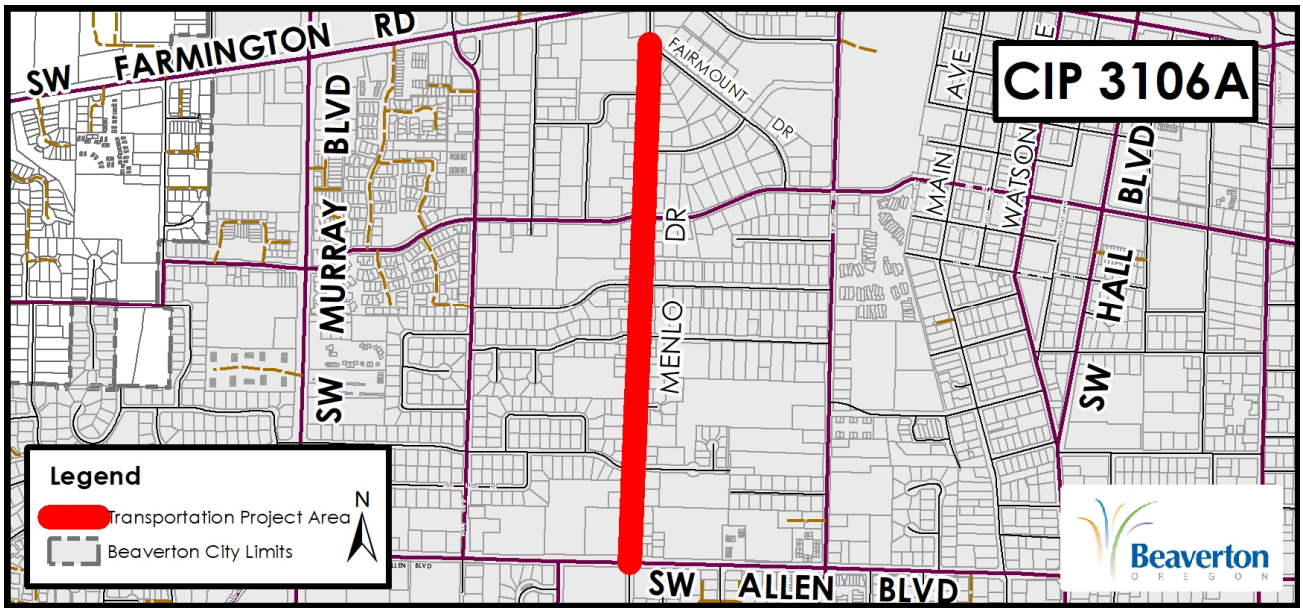
Estimated Date of Completion:	May 2019	**First Year Budgeted:**	FY 2016/2017
Estimated Project Cost:	$2,264,000	**New Project:**	No

Funding Data:

Fund No.	Fund Name	FY	Amount
101	Street Fund	FY 2019/2020	$64,000
3950	Storm Maint/Replacement	FY 2019/2020	$30,000
		FY Total	**$94,000**

FUNDING PLAN FOR CIP 3106A - MENLO DR (ALLEN BLVD - FAIRMOUNT DR) SIDEWALK							
				Estimated	Estimated		
		FY 2016-2017	FY 2017-2018	FY 2018-2019	FY2019-2020	TOTAL	
683 (Engineering)							
001		$55,891	$174,560			$230,451	
101		$35,356	$43,640	$168,000	$14,000	$260,996	
Total		$91,247	$218,200	$168,000	$14,000	$491,447	
652 (Right of Way)							
001							
101			$73,390	$44,355		$117,745	
Total			$73,390	$44,355		$117,745	
682 (Construction)							
001				$1,137,827		$1,137,827	
101				$497,489	$50,000	$497,489	
Total				$1,635,316	$50,000	$1,654,804	
TOTAL (ROADWAY)						$2,263,996	
001	General Fund		$1,368,278				
101	Street Fund		$876,230	$2,244,508			
3950	Storm Fund		$786,000		$30,000		
3701	Water Fund		$63,000				
TOTAL (ALL)			$3,123,508				
January 29, 2019							

Map:



City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 3112

Project Name Allen Blvd/92nd Ave Shared Use Path Connection

Project Description Construct approximately 500 feet of 14-foot wide shared use path between the Fanno Creek Trail at 92nd Ave and the Fanno Creek Trail at Allen Blvd (Fanno Creek Regional Trail Segment #5). Other improvements could include pedestrian crossing improvements at 92nd Ave and Allen Blvd and at Allen Blvd and Scholls Ferry Rd, curb and gutter, planter strip, lighting and storm drainage.

Project Justification This project responds to a Council Priority established in 2016 to include sidewalk projects in the CIP and to Community Vision Action Plan (CVAP) #48 install safe sidewalks and pedestrian lighting citywide and #49 create safe routes to schools.

The shared use path project is listed as Project #22 in the City of Beaverton Active Transportation Plan (ATP), Nov 2017. The project would fill a critical gap in the Fanno Creek Trail. In addition, the project will address the Allen Blvd/92nd Ave intersection, identified as Crossing #124 in the ATP. The project is strongly supported by the Tualatin Hills Park & Recreation District (THPRD).

Project Status FY17-18: 11-2017: Project selected as both a top pedestrian and crossing project in the ATP. Mar 2018: The ATP Technical Advisory Committee selected the project as one of the top two pedestrian projects. 5-9-18: The Transportation Capital Improvement Program Advisory Committee (TCIP) selected the project as the priority 1 pedestrian project. 11-13-18: Council approves funding for design in the amount of $325,000. 1-30-19: Request for Consultant Proposals advertised. 2-7-19: Mandatory pre-proposal meeting held. 7 consultants attended. 2-12-19: Topographic survey completed by City. 3-8-19: Consultant proposals received by City. 4-4-19: Notice of Intent to negotiate scope and fee with HHPR.

Project Manager Jim Brink

Estimated Date of Completion: October 2020 **First Year Budgeted:** FY 2018/2019

Estimated Project Cost: $1,658,000 **New Project:** Yes

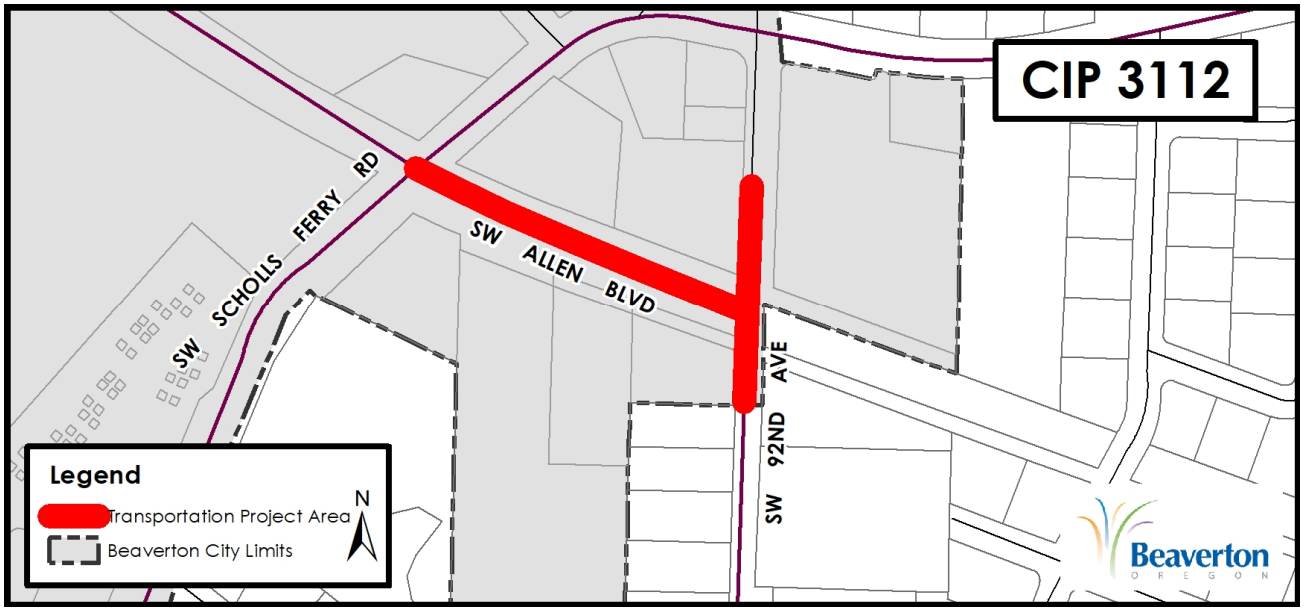
Funding Data:

Fund No.	Fund Name	FY	Amount
001	General Fund	FY 2019/2020	$170,000
Grant	Grant	FY 2019/2020	$80,000
		FY Total	**$250,000**

FUNDING PLAN FOR CIP 3112 - ALLEN BLVD/92ND AVE SHARED USE PATH CONNECTION					
	Estimated	Estimated	Estimated	Estimated	
	FY 2018-2019	FY 2019-2020	FY 2020-2021	FY 2021-2022	TOTAL
683 (Engineering)	$175,000	$105,000	$30,000		$310,000
652 (Right of Way)		$140,000			$140,000
682 (Construction)			$1,133,000	$25,000	$1,158,000
TOTAL	$175,000	$245,000	$1,163,000	$25,000	$1,608,000
The funding source for the project is the Street Fund (20%) and MSTIP3e (80%).					
3950 - Storm Fund			$50,000		$50,000
TOTAL					$1,658,000

27-Feb-19

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 3113

Project Name Laurelwood Ave (Scholls Ferry Rd - Apple Wy) Sidewalk

Project Description Construct approximately 1400 feet of 5-foot or 6-foot wide sidewalk on one side only between Scholls Ferry Rd and Apple Wy. Other improvements include curb and gutter, planter strip/water quality swale where possible, lighting and storm drainage.

Project Justification This project responds to a Council Priority established in 2016 to include sidewalk projects in the CIP and to Community Vision Action Plan (CVAP) #48 install safe sidewalks and pedestrian lighting citywide and #49 create safe routes to schools. It is part of a multi-year program to expand the City's sidewalk network and fill connectivity gaps.

The sidewalk project is listed as Project #41 in the City of Beaverton Active Transportation Plan (ATP), Nov 2017. Implements a 2019 Council goal to include sidewalk projects in the CIP.

Project Status FY17-18: 11-2017: Project selected as a top pedestrian project in the ATP. Mar 2018: The ATP Technical Advisory Committee selected the project as one of the top two pedestrian projects. 5-9-18: The Transportation Capital Improvement Program Advisory Committee (TCIP) selected the project as the priority 2 pedestrian project. 11-13-18: Council approves funding for design in the amount of $325,000.

Project Manager Jim Brink

Estimated Date of Completion: September 2022 **First Year Budgeted:** FY 2019/2020

Estimated Project Cost: $1,321,000 **New Project:** Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
001	General Fund	FY 2019/2020	$172,500
101	Street Fund	FY 2019/2020	$172,500
		FY Total	**$345,000**

FUNDING PLAN FOR CIP 3113 - LAURELWOOD AVE (SCHOLLS FERRY RD - APPLE WY) SIDEWALKS

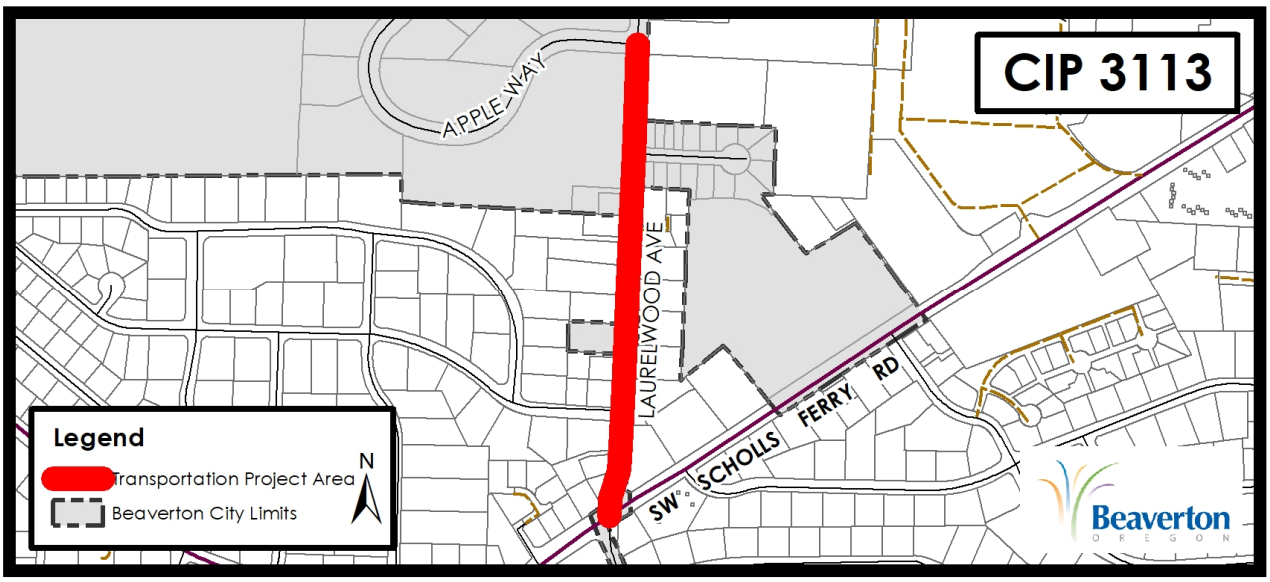
	Estimated FY 2018-2019	Estimated FY 2019-2020	Estimated FY 2020-2021	Estimated FY 2021-2022	TOTAL
683 (Engineering)	$10,000	$275,000	$30,000	$40,000	$355,000
652 (Right of Way)		$70,000			$70,000
682 (Construction)			$518,000	$228,000	$746,000
TOTAL	$10,000	$345,000	$548,000	$268,000	$1,171,000

The funding source for the project is the Street Fund (10%), ROW Fee Fund (10%) and MSTIP3e (80%).

3950 - Storm Fund			$75,000	$75,000	$150,000
TOTAL					$1,321,000

27-Feb-19

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 3189

Project Name Annual Traffic Calming Project

Project Description Respond to traffic calming requests in a timely manner in accordance with the process identified in the City's Traffic Calming Program.

Project Justification Each year one or more groups of citizens request traffic calming measures to reduce the negative impact of speeding traffic on neighborhood streets. Program 3223 (Traffic Enhancement Projects), formerly used to fund Traffic Calming projects, is expected to use up all of its funding with the completion of CIP 5110 and CIP 5112; therefore, the Street Fund is being called on to continue the Traffic Calming Program at approximately one project per year. This project responds to Community Vision Action Plan (CVAP) #49 intersection improvements, #51 road system capacity and traffic flow, and #53 intersection crossing safety.

Project Status Neighborhood requests for traffic calming will be evaluated in accordance with the Traffic Calming Program eligibility criteria and ranked through the Traffic Commission review process.

Project Manager Jabra Khasho

Estimated Date of Completion: June 2020 **First Year Budgeted:** FY 2011/2012

Estimated Project Cost: $20,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
101	Street Fund	FY 2019/2020	$20,000
		FY Total	**$20,000**

City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 3201

Project Name Washington Square Adaptive Signal System

Project Description This is a State Transportation Improvement Plan (STIP) project that is primarily funded with Federal funds with a local match paid by Washington County. The City will not provide any funding for this project; therefore, no funding source data is shown. The intent of the project is to upgrade the existing traffic signal control software on Scholls Ferry Rd between Hall Blvd and Roy Rogers Rd to an adaptive signal control system.

Adaptive traffic control is a traffic management strategy in which traffic signal timing changes, or adapts, based on actual traffic demand. This is accomplished using an adaptive traffic control system consisting of both hardware and software.

Project Justification SW Scholls Ferry Rd is a major east/west corridor that serves the Washington Square area and south Beaverton. The area transportation network is split between multiple jurisdictions, including Beaverton, Tigard, Washington County and Oregon Department of Transportation. Managing highly variable traffic volumes particularly at over capacity intersections has been challenging. The corridor experiences excessive delay and poor vehicle progression.

The new adaptive traffic signal control system provides cycle-by-cycle optimization of cycle length, splits and offsets in real time. The system collects real time traffic data and can detect variations in traffic volumes and react accordingly to the situations. The system will coordinate the area multi-jurisdictional traffic signals into one system. Recent installations of adaptive traffic signal systems in our region have shown reductions of overall delays of up to 20 percent.

This project responds to Community Vision Action Plan # 47 - Implement solutions to reduce traffic congestion and #52 - Use signals to improve safety.

Project Status FY15-16 and FY16-17: Begin IGA process with ODOT and WASHCO. FY17-18: Draft IGA completed. FY18-19: Continue to try and get IGA completed. ODOT has concern that funding is insufficient. FY19-20 Complete IGA, select consultant and begin design. FY20-21: Complete design and construction.

Project Manager Jabra Khasho

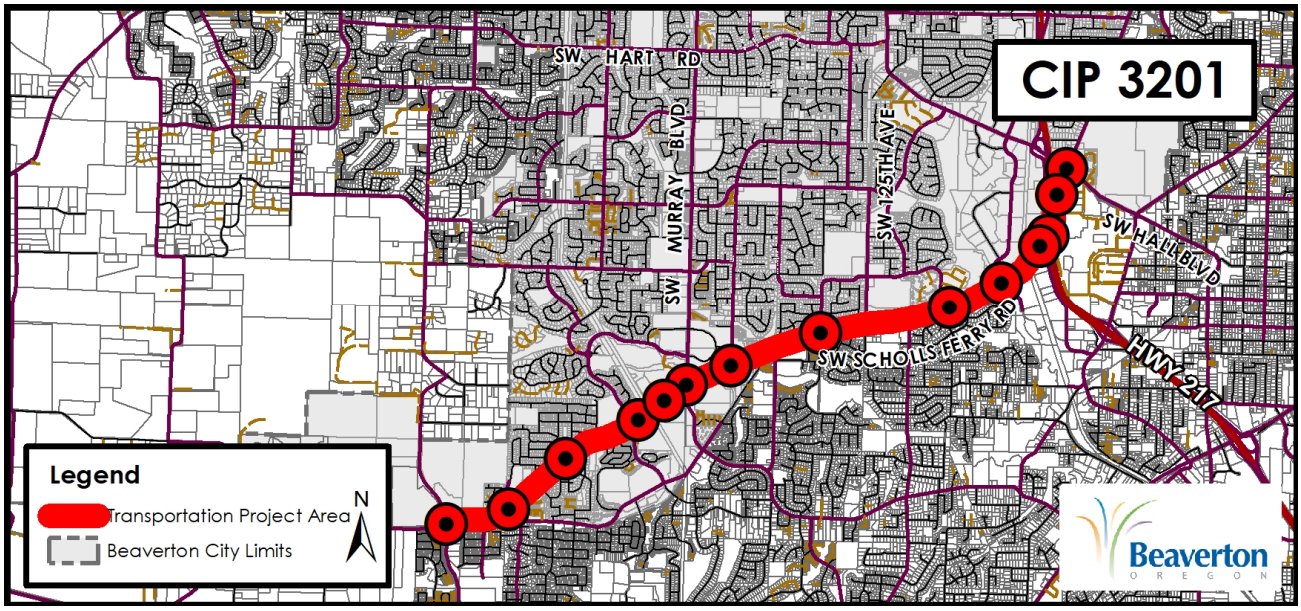
Estimated Date of Completion: June 2021 **First Year Budgeted:** FY 2015/2016

Estimated Project Cost: $836,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
Fed - STIP	State Transportation Improvement Program (STIP)	FY 2019/2020	$750,000
WASHCO	Matching Funds	FY 2019/2020	$86,000
		FY Total	**$836,000**

Map:


CIP 3201
SW HART RD
SW MURRAY BLVD
SW 125TH AVE
SW HALL BLVD
SW SCHOLLS FERRY RD
HWY 217
Legend
Transportation Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 3223

Project Name Traffic Enhancement Projects

Project Description This is a program for development and implementation of improved traffic signal timing plans, improvements to the existing traffic signal system, installation of new traffic signals, and traffic calming on neighborhood streets funded by a 3-year serial levy approved by Beaverton voters in 1997. Most of the program funding has been spent; however, remaining funds are allocated to specific projects that will be approved by the Traffic Commission and the City Council.

Project Justification Necessary to respond to an increase in traffic volumes resulting in increased delays on the arterial system and infiltration into neighborhoods with arterial traffic. This project responds to Community Vision Action Plan (CVAP) #52 use signals and traffic calming to improve safety.

This project supports Comprehensive Plan Goals 6.2.1 (policy e), 6.2.2 (policies b and d), and 6.2.5 (policy a).

Project Status FY18-19: Continue to implement projects that are approved under the Traffic Enhancement Program. FY19-20: Use remaining funds to design and construct two traffic calming projects, CIP 5110 and CIP 5112.

Project Manager Jabra Khasho

Estimated Date of Completion: June 2021 **First Year Budgeted:** FY 1997/1998

Estimated Project Cost: $2,600,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
001	General Fund	FY 2019/2020	$100,000
		FY Total	**$100,000**

City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 3321

Project Name Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment

Project Description Realign the intersection of Dawson Wy and Westgate Dr with Cedar Hills Blvd. Work includes intersection signalization, continuation of a 5-lane arterial cross section on Cedar Hills Blvd, and a 2-lane collector cross section on Westgate Dr and Dawson Wy. At the new intersection, street improvements on Westgate Dr and Dawson Wy include two twelve-foot through lanes, and a left turn lane in each direction. Beyond the intersection, Dawson Wy will be built within a 60 foot right of way and include two twelve-foot travel lanes with sharrows, eight-foot parking lanes, and 6'-10' sidewalks and Westgate Dr will be built within a 60 foot right of way and include two eleven-foot travel lanes with sharrows, seven-foot parking lanes, and 6'-10' sidewalks.

Project Justification The existing non-signalized intersection is offset by 125 feet which poses a safety concern particularly after Dawson Wy was connected to Hocken Ave to the west. In addition, the Crescent Path project (CIP 3407) will terminate at this intersection and the pedestrian crossing of Cedar Hills Blvd will benefit significantly from a signalized intersection. In addition, the left turn lanes and westbound right turn lane will improve capacity. The realignment of and signalization of this intersection is listed as Project # 25 in the TSP 2035 update. This project responds to 2016 Council Priority "Fill in Sidewalk Gaps" and Community Vision Action Plan (CVAP) #46 strategically widen roads, add signals & turn lanes and #48 install safe sidewalks and pedestrian lighting citywide.

This project supports Comprehensive Plan Goals 6.2.2 (policies b, d and e), 6.2.3 (policy c), 6.2.4 (policy f), and 6.2.5 (policy a); TSP Action Plan (Table 6-1) Project #24; and Creekside Master Plan Implementation Strategy (Chapter 5, Figure 23) #A.5.

Project Status FY11-12: Completed survey of Cedar Hills Blvd/Westgate Dr/Dawson Wy intersection. FY12-13: Study alignment options. FY13-14: City staff begins preliminary design and budget estimates. FY14-15: City staff continues preliminary design and budget estimates. FY15-16: Contract with David Evans & Associates (DEA) approved 3-1-16. NTP issued to DEA to begin design on 3-16-16. FY16-17: Completed 60% design on 2-16-17. Completed 90% design on 3-31-17. Completed potholing on 4-18-17. CCO1 approved 6-6-17. FY17-18: Completed supplementary survey at driveways and Goodwill entrance on 8-17-17. Completed final plans on 9-29-17. Approved acquisition of ROW proposal from ROWA on 11-27-17. Met with Kuni on 12-6-17. Met with Dana Biggi on 12-8-17. Contract with ROWA approved on 12-18-17. Contract with CIDA approved 2-13-18. 3-6-18: Council approved Intent to Acquire property resolution. 5-1-18: Eastbound right turn lane on Dawson Wy deleted. 5-4-18: Received appraisal of Biggi property. FY18-19: Jul 2018: sent Kuni parking lot grading and layout options. 8-7-18: Received noise study for proposed plaza. 10-10-18: Received final revised drawings from DEA. 1-7-19: Received Kuni appraisal. 1-29-19: Met with Dana Biggi and Rick McElliott concerning exterior electrical system. 2-26-19: Sent revised ROW agreement, ROW dedication and TCE to Michael Mangan, Biggi attorney for review.

Project Manager Jim Brink

Estimated Date of Completion: April 2020 **First Year Budgeted:** FY 2012/2013

Estimated Project Cost: $2,519,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
114	TIF/TDT	FY 2019/2020	$1,715,000
3701	Water Improvements	FY 2019/2020	$20,000
		FY Total	**$1,735,000**

FUNDING PLAN FOR CIP 3321 - WESTGATE DR/CEDAR HILLS BLVD/DAWSON WY INTERSECTION REALIGNMENT

	FY 2013	FY 2014	FY2015	FY2016	FY 2017	FY2018	FY 2018-2019 Estimated	FY 2019-2020 Estimated	TOTAL
683 (Engineering)	$2,996	$371	$3,253	$10,998	$124,986	$71,510	$60,000	$40,000	$314,114
652 (Right of Way)	-	-	-	-	-	$9,872	$520,000		$529,872
682 (Construction)	-	-	-	-	-	-		$1,675,000	$1,675,000
TOTAL	$2,996	$371	$3,253	$10,998	$124,986	$81,382	$580,000	$1,715,000	$2,518,986

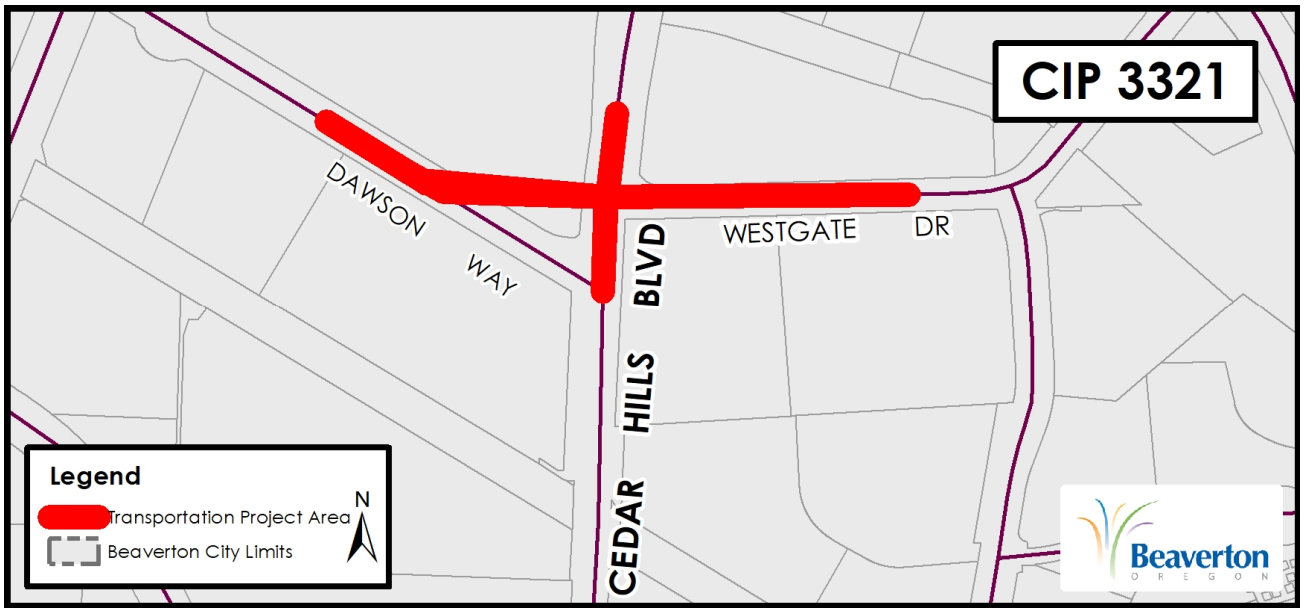
The funding source for the project is TDT.

20,000

3701 Water Fund

26-Feb-19

Map:



City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 3327 MSTIP

Project Name Millikan Wy Extension (Watson Av - Lombard Ave) MSTIP3E

Project Description This is an MSTIP 3e project (#115) to extend Millikan Wy from Watson Av eastward to Lombard Ave and improve the intersection of Millikan Wy and Watson Av. The project will increase roadway capacity, safety, and pedestrian and bicycle accessibility. The project will result in approx 1,300 feet of new urban collector street with two 12-foot travel lanes, two 5-foot bike lanes, two 7-foot parking strips, two 10-foot sidewalks, and a left turn lane at the Millikan Wy/Watson intersection.

Project Justification Improve connection to the Beaverton Central Transit station, the Beaverton Central Light Rail Complex at the Round, and reduce traffic congestion on Hwy 8 (Canyon Rd). This project responds to Community Vision Action Plan (CVAP) #48 install safe sidewalks and pedestrian lighting citywide, #50 expand paths and trails and connect to major destinations, #51 install or improve crosswalks citywide, #53 install bikeways along major commuter routes, #99 improve pedestrian connections in neighborhoods.

Project Status FY16-17: PBS Engineering completes feasibility study and alignment option analysis. FY 17-18: Development of alignment options. FY18-19: 2-7-19: Letter to City from attorney representing GRF Properties. 2-12-19: Work session with City Council concerning alignment options. 3-29-19: Response to Council questions from 2-12-19 Council meeting.

Project Manager Mark Boguslawski

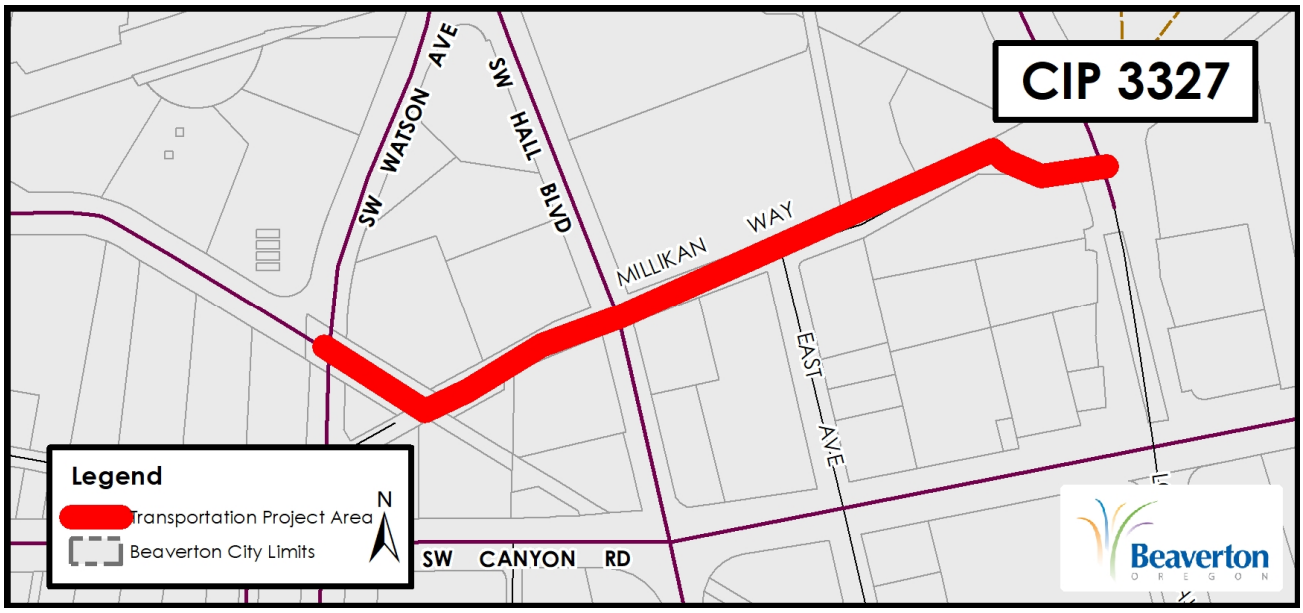
Estimated Date of Completion: **First Year Budgeted:** FY 2017/2018

Estimated Project Cost: $9,400,000 **New Project:** Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
		FY Total	

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 3328

Project Name Western Ave (5th St-Allen Blvd) Improvement

Project Description The Western Avenue Improvement Project is the signature capital project of the City's West Five Strategy. The intent of the project is to help existing businesses thrive and to encourage future redevelopment. The project includes reconstruction of the existing 4-lane vehicle only road to a 3-lane road with center turn lane; separated pedestrian and bicycle pathways; landscaped median and pedestrian/bicyclist buffer; transit stops; and upgraded storm water facilities and lighting. The project also includes traffic signal modification and intersection reconstruction at SW Western Avenue/SW 5th Street and SW Western Avenue/SW Allen Boulevard.

Project Justification This project was identified as the highest priority capital improvement in the Western Avenue Employment Area Plan, with the intent of improving safety and connectivity for residents, employees and visitors of the area. The existing street does not include public sidewalks, bike lanes, or mid-block crossings; does not meet current illuminations standards; and has a relatively high incidence of crashes. Between the years 2011 and 2015 a total of 70 crashes were recorded for Western Ave. The project will limit vehicle-to-vehicle turn conflicts and vehicle-to-pedestrian/bicycle conflicts; increase illumination levels; improve intersection turn movement design for freight vehicles; and improve traffic flow by separating bicycle traffic.

The project responds to Community Vision Action Plan (CVAP) #48 install safe sidewalks and pedestrian lighting citywide, #50 expand paths and trails and connect to major destinations, #51 install or improve crosswalks citywide, #53 install bikeways along major commuter routes, #99 improve pedestrian connections in neighborhoods; and Comprehensive Plan Goals 6.2.1 (policy g), 6.2.2 (policies a-h), 6.2.3 (d and f), 6.2.5 (policy a).

Project Status FY16-17: Development of the West Five strategy that included as a key recommendation the improvement of Western Ave from 5th St to Allen Blvd.

FY17-18: 9-18-17: Mandatory pre-proposal meeting for design contract. Five (5) consultants attended. 10-2-17: Four (4) design proposals received. 10-18-17: HHPRI selected as engineering consultant. 1-2-18: Council awards engineering contract to HHPRI. 1-10-18: HHPRI Contract approved and design phase begins. 4-11-18: Preliminary concept plan and memos completed. 5-30-18: Open House 1. 6-27-18: RR Diagnostic meeting

FY18-19: 7-13-18 met with RM Wade. 7-18-18 met with Howard Dietrich. 11-5-18: Added 16" waterline and interconnect conduit with fiber to scope of project. 11-14-18: Resolution 4538 - Intent to Acquire Property approved. 1-16-19: Received 60% plans. 2-4-19: Developed parking plan for UPS site.

The City anticipates that all right-of-way acquisition and final design will be completed on or before November 30, 2019 and construction will start in the Summer of 2020. The design and construction of the TVWD 48-inch waterline may impact the schedule.

Project Manager Luke Pelz

Estimated Date of Completion:	November 2012	**First Year Budgeted:**	FY 2017/2018
Estimated Project Cost:	$4,884,000	**New Project:**	No

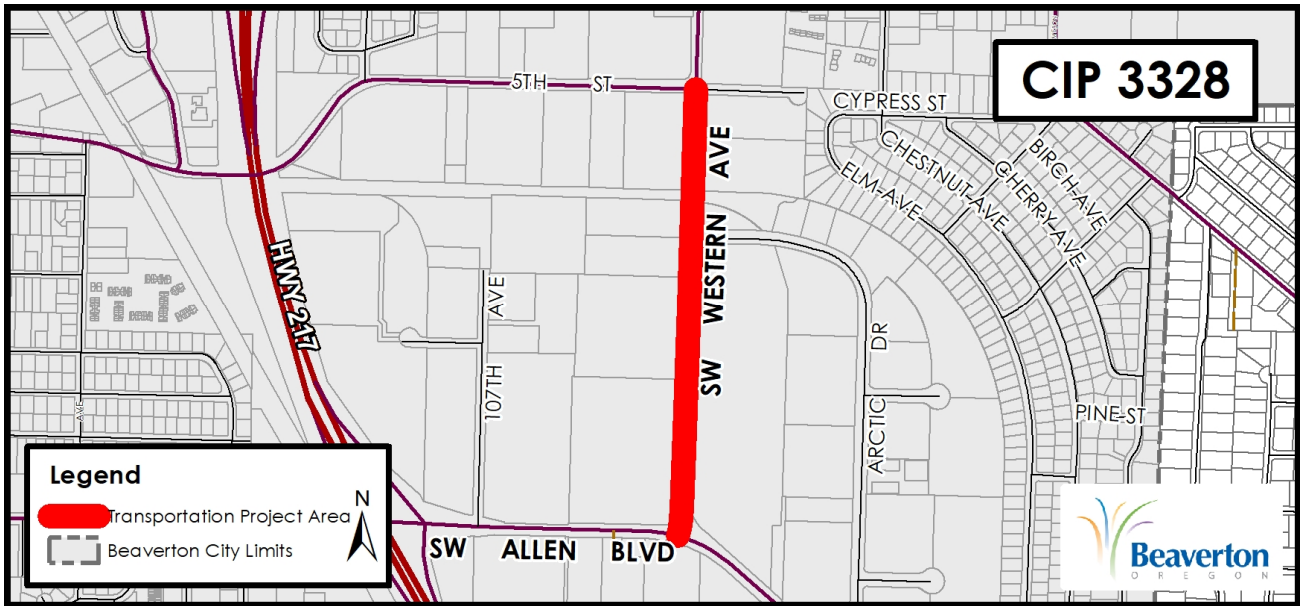
Funding Data:

Fund No.	Fund Name	FY	Amount
001	General Fund	FY 2019/2020	$40,000
Grant	Grant	FY 2019/2020	$100,000
MSTIP3-City	Major Streets Transportation Improvement 3 (City)	FY 2019/2020	$120,000
		FY Total	**$260,000**

FUNDING PLAN FOR CIP 3328 - WESTERN AVE (5TH ST - ALLEN BLVD) IMPROVEMENTS								
		Actual	Estimated	Estimated	Estimated	Estimated		
		FY 2018	**FY 2018-2019**	**FY 2019-2020**	**FY 2020-2021**	**FY 2021-2022**	**TOTAL**	
683 (Engineering)								
001			$88,000	$40,000			$128,000	
101				$70,000	$20,000	$20,000	$110,000	
114		$175,765	$87,000				$262,765	
BURA			$100,000				$100,000	
MSTIP 3e			$175,000				$175,000	
Total		$175,765	$450,000	$110,000	$20,000	$20,000		$775,765
652 (Right of Way)								
001								
101			$100,000				$100,000	
114								
BURA				$50,000			$50,000	
MSTIP 3e				$100,000			$100,000	
Total			$100,000	$150,000				$250,000
682 (Construction)								
001					$415,000		$415,000	
101					$1,000,000	$500,000	$1,500,000	
114					$91,000		$91,000	
BURA					$250,000		$250,000	
MSTIP 3e					$1,252,000		$1,252,000	
Total					$3,008,000	$500,000		$3,508,000
TOTAL								
001	General Fund		$543,000					
101	Street Fund		$1,710,000					
114	TDT		$353,765					
BURA			$400,000					
MSTIP 3e			$1,527,000					
3950	Storm Fund		$350,000					
3620	Water Fund		$70,000					
Total			$4,883,765					

01-Mar-19

Map:


CIP 3328
5TH ST
CYPRESS ST
CHESTNUT AVE
ELM AVE
CHERRY AVE
BIRCH AVE
SW WESTERN AVE
HWY 217
107TH AVE
ARCTIC DR
PINE ST
SW ALLEN BLVD
Legend
Transportation Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 3329

Project Name Murray Blvd/Allen Blvd Intersection Improvement

Project Description Capacity improvements at the Murray Blvd/Allen Blvd intersection that may include additional left turn lanes, right turn lanes, and bike lanes depending on the results of the public involvement process and traffic analysis. Depending how far east the project will extend, a 5 lane arterial cross section could be required up to 141st Ave and potentially a signal at 141st Ave. One recommendation is that the westbound turn lanes should be extended east of the driveway to the shopping center to improve safety.

Project Justification Intersection experiences long delays during peak hours which causes motorists to find alternate routes primarily on neighborhood streets.

This project supports Comprehensive Plan Goals 6.2.2 (policies b and e), 6.2.3 (policies b and c), 6.2.4 (policy f), 6.2.5 (policy a); 6.2.6 (policies a, c and d) and 6.2.7 (policy a) and TSP Action Plan (Table 6-1) Project 709.

Project Status FY17-18: Jan 2018 - collected traffic data; FY 18-19: Project on hold pending development of a public involvement plan that will result in a scope of work that is in the best public interest. FY 19-20: Develop public involvement plan and complete project scoping and planning level cost.

Project Manager Jabra Khasho, Tony Chau

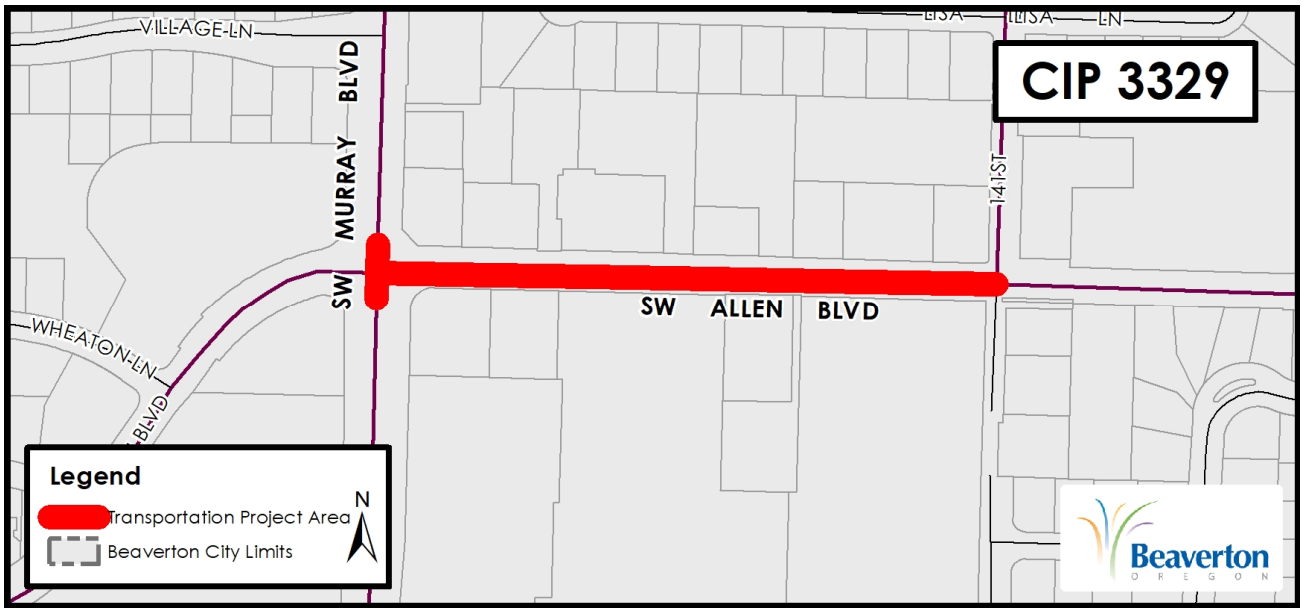
Estimated Date of Completion: June 2023 **First Year Budgeted:** FY 2017/2018

Estimated Project Cost: $5,080,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
114	TIF/TDT	FY 2019/2020	$70,000
		FY Total	**$70,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 3340

Project Name All Roads Transportation Safety (ARTS) Project for Systemic Signal & Illumination

Project Description

1. SW Allen Blvd – Implement an adaptive traffic signal system along SW Allen Blvd from SW Murray Blvd to SW Western Ave, install intersection illumination, and install reflectorized back plates to all existing signal heads.

2. SW Hall Blvd & SW Nimbus Ave - Replace two traffic signal poles to accommodate the northbound and southbound protected left turn signal displays, add intersection illumination, and install reflectorized back plates to all existing signal heads.

3. SW Hall Blvd & SW Cedar Hills Blvd - Replace one traffic signal pole on the NW corner to a safe distance from traffic and add illumination.

Project Justification The purpose of this project is to address some of the safety needs, congestion and delay issues within Beaverton.

Project Status FY17-18: City Council approved and signed an Intergovernmental Agreement (IGA) with State of Oregon Department of Transportation (ODOT). The City paid the required 7.78% match for engineering. FY18-19: ODOT is now contracting for the required engineering services. FY19-20: The design is expected to start summer of 2019.

Project Manager Tina Nguyen

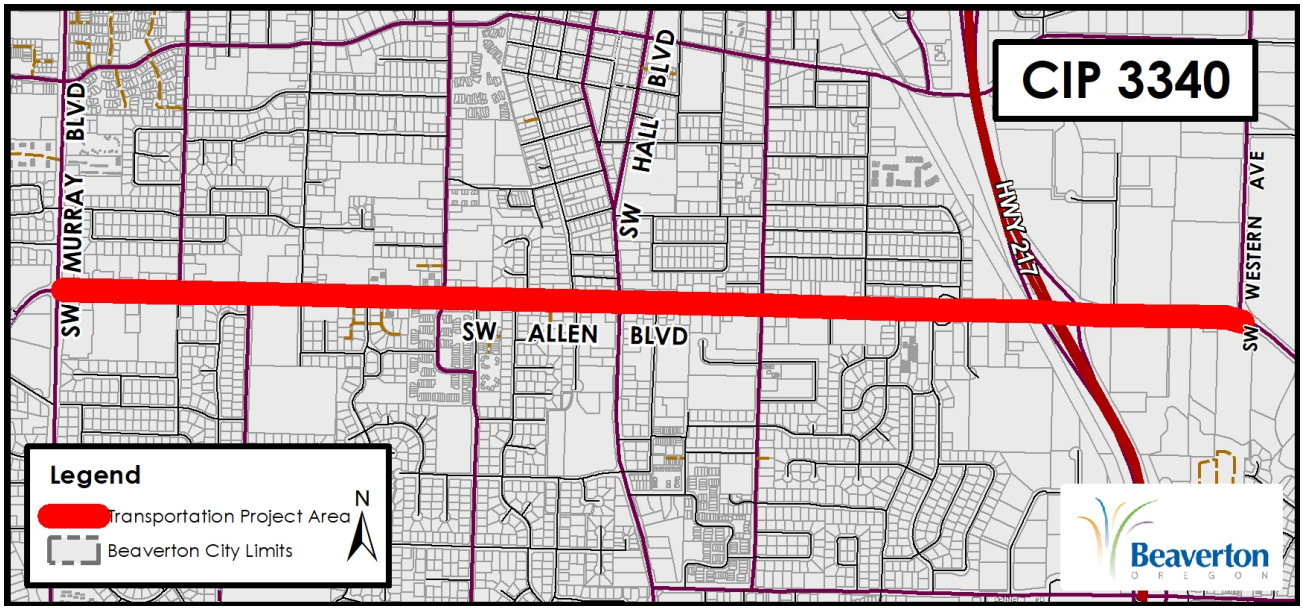
Estimated Date of Completion: December 2020 **First Year Budgeted:** FY 2017/2018

Estimated Project Cost: $1,200,000 **New Project:** No

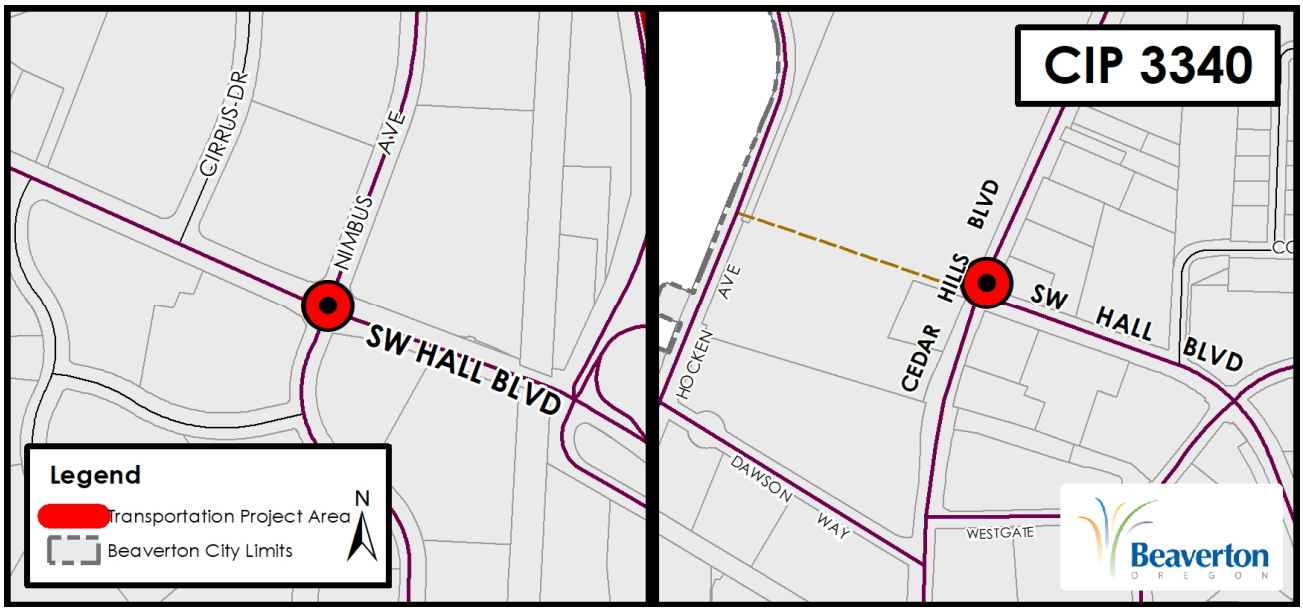
Funding Data:

Fund No.	Fund Name	FY	Amount
114	TIF/TDT	FY 2019/2020	$138,927
		FY Total	**$138,927**

Map:


CIP 3340
SW MURRAY BLVD
SW HALL BLVD
SW ALLEN BLVD
HWY 217
SW WESTERN AVE
Legend
Transportation Project Area
Beaverton City Limits
N
Beaverton
OREGON

Map:


CIP 3340
CIRRUS DR
NIMBUS AVE
SW HALL BLVD
CEDAR HILLS BLVD
HOCKEN AVE
DAWSON WAY
WESTGATE
Legend
Transportation Project Area
Beaverton City Limits
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Beaverton
OREGON

Project Number 3408

Project Name Hocken Ave (RR - TV Hwy) Widening

Project Description Widen Hocken Ave from south of the RR tracks to 250 feet north of TV Hwy to four lanes by adding one southbound lane with bike lanes and sidewalks. Project will require the relocation of traffic signal and RR crossing poles, signals and associated equipment to allow for additional paved width and pedestrian access as well as larger turning radii. Project has been designed in coordination with CIP 3302 and CIP 3519A. Currently, the project has been incorporated into CIP 3519A, Canyon Rd Intersection Improvements (MTIP) because ODOT proposes to shift the centerline of Canyon Rd approximately 6 feet to the north which will require design changes at the southeast and southwest corners of Hocken Ave and Canyon Rd. The estimated cost of the RR improvements to be funded by the City is $560,000. The estimated cost of roadway improvements is $926,000. The estimated cost of waterline improvements is $105,000. See CIP 3519A for costs required for the Canyon Rd improvements.

Project Justification CIP 3302 improved Hocken Ave to 5 lanes with bikes and sidewalk from Farmington Rd to south of the RR tracks. CIP 3408 will complete roadway improvements through the RR tracks and connect to Canyon Rd.

This project supports Comprehensive Plan Goals 6.2.2 (policies b, d and e), 6.2.3 (policies c and i), 6.2.4 (policy f), and 6.2.5 (policy a); and TSP Action Plan (Table 6-1) Project 591.

This project responds to Community Vision Action Plan (CVAP) #46 strategically widen roads, add signals & turn lanes, #48 install safe sidewalks & pedestrian lighting citywide, and #53 install bikeways along major commuter routes.

Project Status FY13/14: Initiated contract with P&W Railroad and XO Rail on 9-12-13 for design services of improvements inside the railroad right of way. On 5-28-14 Wiser Rail Engineering contracted by RR to do crossing design. FY14-15: Contract awarded to Harper, Hoff, Peterson, Righellis (HHPRI) on 8-12-14 for engineering design services outside the railroad right of way. UPRR and PNWR approved preliminary design concept on 1-19-15. 30% design completed 3-26-15. FY15-16: On 7-21-15 ODOT determined that the south curb line on Canyon Rd needed to be moved 6'-7' to the north as part of the Canyon Rd (Hocken Ave-Short St) Improvements project (CIP 3519A); therefore, the design for CIP 3408 was put on hold until ODOT establishes the new centerline and curb lines for Canyon Rd. 10-14-15: CIP 3519A restarted. 4-22-16: COB/ODOT IGA 30667 approved which incorporated CIP 3408 into CIP 3519A.

FY16-17: Project on hold pending resolution of design issues on CIP 3519A, particularly shoulder and sidewalk width.

FY17-18: Project design restarted in Aug 2017. HHPRI will provide design of Hocken Rd improvements from south of the RR tracks to the south curb line on Canyon Rd. Design will be in ODOT plan sheet format using MicroStation. 12-8-17: City completed a traffic study with video of the RR crossing and provided memo addressing queuing issues. 12-12-17: Held diagnostic meeting with ODOT Rail. 4-23-18: Received updated plan with islands.

FY18-19: July 2018: City requires separate SB right turn lane. 10-19-18: Preliminary design concept approved. 1-11-19: 60% plan completed.

Project Manager Jim Brink

Estimated Date of Completion: September 2021 **First Year Budgeted:** FY 2013/2014

Estimated Project Cost: $2,235,000 **New Project:** No

Funding Data:

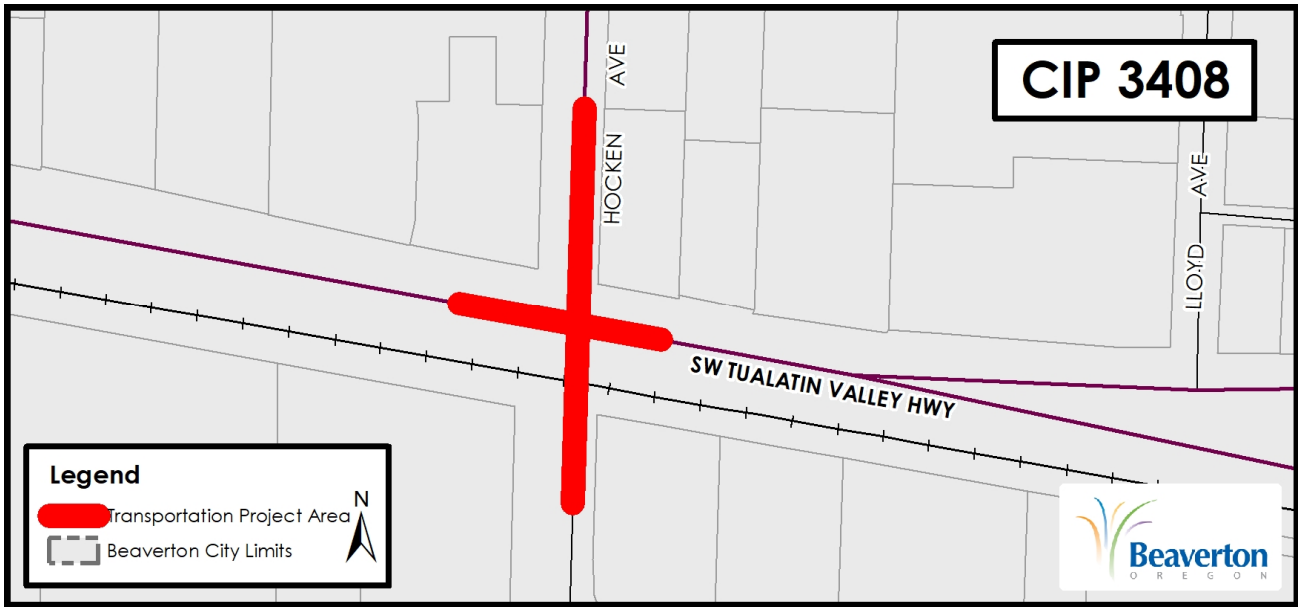
Fund No.	Fund Name	FY	Amount
114	TIF/TDT	FY 2019/2020	$664,000
3620	Water Extra Capacity Supply	FY 2019/2020	$10,000
3850	Sewer Maint/Replacement	FY 2019/2020	$10,000
		FY Total	**$684,000**

FUNDING PLAN FOR CIP 3408 - HOCKEN AVE (RR -TV HWY) WIDENING

	FY 2014-2015	FY 2015-2016	FY 2016-2017	FY 2017-2018	Estimated FY 2018-2019	Estimated FY 2019-2020	Estimated FY2020-2021	TOTAL
683 (Engineering)								
TIF	$136,423	$11,206	$264	$17,902	$54,000	$30,000	$30,000	$279,795
TDT								$0
Total	$136,423	$11,206	$264	$17,902	$54,000	$30,000	$30,000	$279,795
652 (Right of Way)								
TIF					$0	$74,000		$74,000
TDT								$0
Total					$0	$74,000		$74,000
682 (Construction)								
TIF						$560,000	$483,000	$1,043,000
TDT							$667,000	$667,000
Total						$560,000	$1,150,000	$1,710,000
TOTAL	$136,423	$11,206	$264	$17,902	$54,000	$664,000	$1,180,000	$2,063,795
TIF		$1,396,795	After completion of CIP 3408, TIF balance is $0.					
TDT		$667,000						
3620 Water		$161,000			40,000		121,000	
3850 Sanitary		$10,000				10,000		
Total		$2,234,795						

03/22/2019

Map:



City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 3410

Project Name Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead)

Project Description This project will provide a shared use path on the north side of Denney Rd from the Fanno Creek trailhead to King Blvd that will connect to bike boulevards on King Blvd, Alger Ave, and 11th St and to existing bike lanes and shared bikeways on 5th St and Lombard Ave to the Beaverton Transit Center. The striping for the bike boulevards will be completed by City Forces after the shared use path project is complete (see CIP 3410A). The project also includes storm drainage improvements on 111th Ave and an enhancement of the storm drainage way in the vicinity of the parking lot at the Fanno Creek Trailhead.

Project Justification The intent of the project is to positively impact modal connectivity, the environment, mobility and access, livability, energy use, and the overall operation of the transportation system by improving 1000 feet of existing asphalt sidewalk to a 10-foot wide shared use path. Amendment 1 to COB/ODOTIGA 28470 was approved 2-15-15 and requires that City complete CIP 3410 as a condition of approval of the IGA.

This project is one segment of the planned Beaverton Creek Trail, which extends from Fanno Creek to the THPRD Boundary near 185th Ave and supports Comprehensive Plan Goals 6.2.1 (policy g), 6.2.2 (policies a-e), 6.2.3 (policies d and e), 6.2.5 (policy a), and 6.2.7 (policy a); and TSP Action Plan (Table 6-1) Project #71.

This project responds to Community Vision Action Plan #54 upgrade trails to include lighting & better connectivity and #88 connect parks and green spaces with trails/bike routes.

Project Status FY11-12: Project originally included in CIP 3407 as part of the grant approved under the ODOT Flexible Funds Program on 3-22-12. FY12-13: Project still included in CIP 3407 and in ODOT IGA 28470 that was executed on 7-20-12. FY13-14: Project removed from CIP 3407 and from the ODOT grant scope of work. OTAK completed survey. City staff began design. FY14-15: 30% design completed 1-30-15. 60% design completed 6-30-15; however, ODOT had multiple comments that required substantial changes to the design. FY15-16: Completed 90% design incorporating ODOT comments. FY16-17: ROW acquired from 3 properties. Final design completed 10-17-16. FY17-18: No work. FY18-19: Final design updated on 11-28-18 to include storm drainage work on 111th Ave. Land use preapp held on 12-12-18. 2-1-19 & 2-15-19: Met with ODOT to coordinate extending the path from the Fanno Creek Trailhead east 170 feet to the west side of the Denney Frontage Rd. ODOT has offered to pay $50,000 for these improvements. 2-18-19: Revised design to delete LIDA and add enhancement of an existing drainage way in the vicinity of the parking lot at the Fanno Creek Trailhead. 2-21-19: Made project presentation to Vose NAC. 2-22-19: Submitted CWS Sensitive Area Certification form. 3-4-19: Received draft ODOT IGA for extending the trail east from the Fanno Creek Trailhead to the west side of the Denney Frontage Road. 3-5-19: CWS states that application requires a Natural Resource Assessment. 4-10-19: Submitted Natural Resource Assessment and CWS Sensitive Area Certification Form to CWS. 4-22-19: Signed IGA 33318 with ODOT for section of path between the Fanno Creek Trailhead and the Denney Frontage Rd. 4-23-19: Received CWS SPL #19-000604. Complete land use. Advertise and complete construction.

Project Manager Jim Brink

Estimated Date of Completion: August 2019 **First Year Budgeted:** FY 2012/2013

Estimated Project Cost: $987,000 **New Project:** No

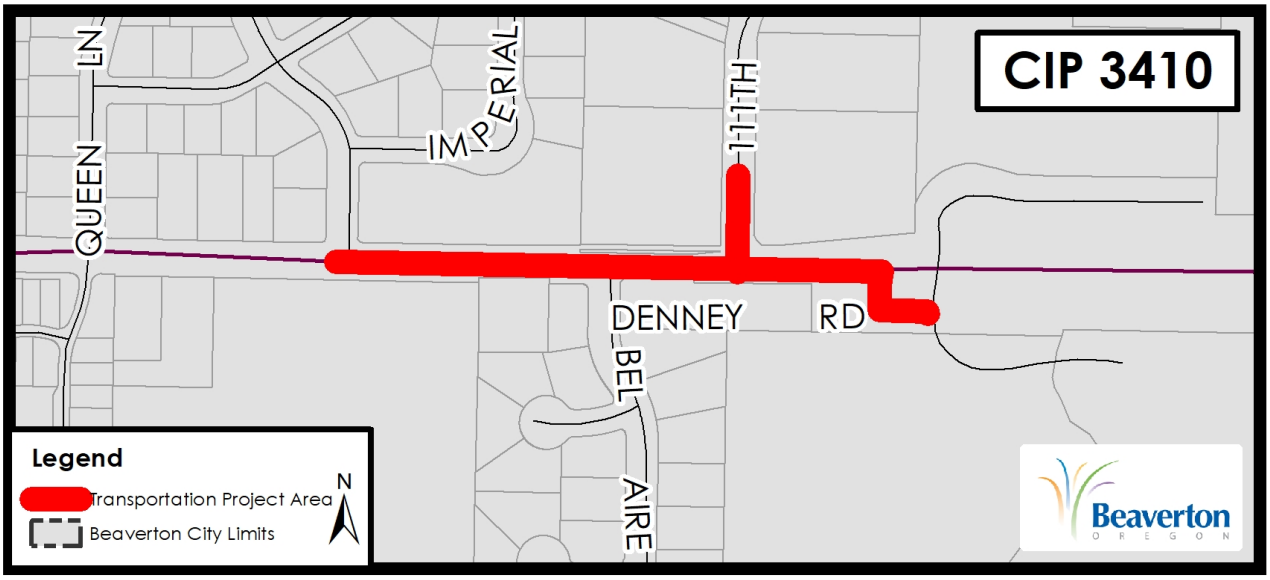
Funding Data:

Fund No.	Fund Name	FY	Amount
001	General Fund	FY 2019/2020	$153,500
101	Street Fund	FY 2019/2020	$153,500
3850	Sewer Maint/Replacement	FY 2019/2020	$8,000
3950	Storm Maint/Replacement	FY 2019/2020	$81,000
		FY Total	**$396,000**

FUNDING PLAN FOR CIP 3410 - SHARED USE PATH ALONG DENNEY RD (KING BLVD-FANNO CREEK TRAILHEAD)

							Estimated	Estimated	
		FY 2014	FY 2015	FY 2016	FY 2017	FY 2017-2018	FY 2018-2019	FY 2019-2020	TOTAL
683 (Engineering)									
101		$9,662	$44,711	$13,248	$29,851	$1,191	$20,000	$32,000	$150,663
001							$20,000		$20,000
652 (Right of Way)									
101					$49,537			$2,000	$51,537
001									$0
682 (Construction)									
101							$246,000	$119,500	$365,500
001							$246,000	$153,500	$399,500
TOTAL		$9,662	$44,711	$13,248	$79,388	$1,191	$532,000	$307,000	$987,200
TOTAL									
101	Street Fund		$567,700						
001	General Fund		$419,500						
	Storm		$126,000				$45,000	$81,000	
	Water		$12,000				$12,000		
	Sanitary		$8,000				$8,000		
	Total		$1,133,200						
22-Feb-19									

Map:



City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 3410A

Project Name Beaverton Creek Trail (On-Street from King Blvd to Lombard Ave)

Project Description This project will provide shared lane markings (sharrows) and signage for bike boulevards on King Blvd, Alger Ave, 11th St, 5th St and Lombard Ave to the Beaverton Transit Center.

Project Justification This project connects the Fanno Creek Trail with the Beaverton Creek Trail through downtown Beaverton via the Vose and Central Beaverton neighborhoods.

This project is one segment of the planned Beaverton Creek Trail, which extends from Fanno Creek to the THPRD Boundary near 185th Ave and supports Comprehensive Plan Goals 6.2.1 (policy g), 6.2.2 (policies a-e), 6.2.3 (policies d and e), 6.2.5 (policy a), and 6.2.7 (policy a); and TSP Action Plan (Table 6-1) Project #71.

This project responds to Community Vision Action Plan #54 upgrade trails to include lighting & better connectivity and #88 connect parks and green spaces with trails/bike routes.

Project Status FY17-18: Waiting completion of CIP 3410 (Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead). FY18-19: 2-21-19: Described project to Vose NAC. Complete project after the completion of CIP 3410. Work will be done by City Forces. FY19-20: Complete work in the summer of 2019.

Project Manager Jabra Khasho

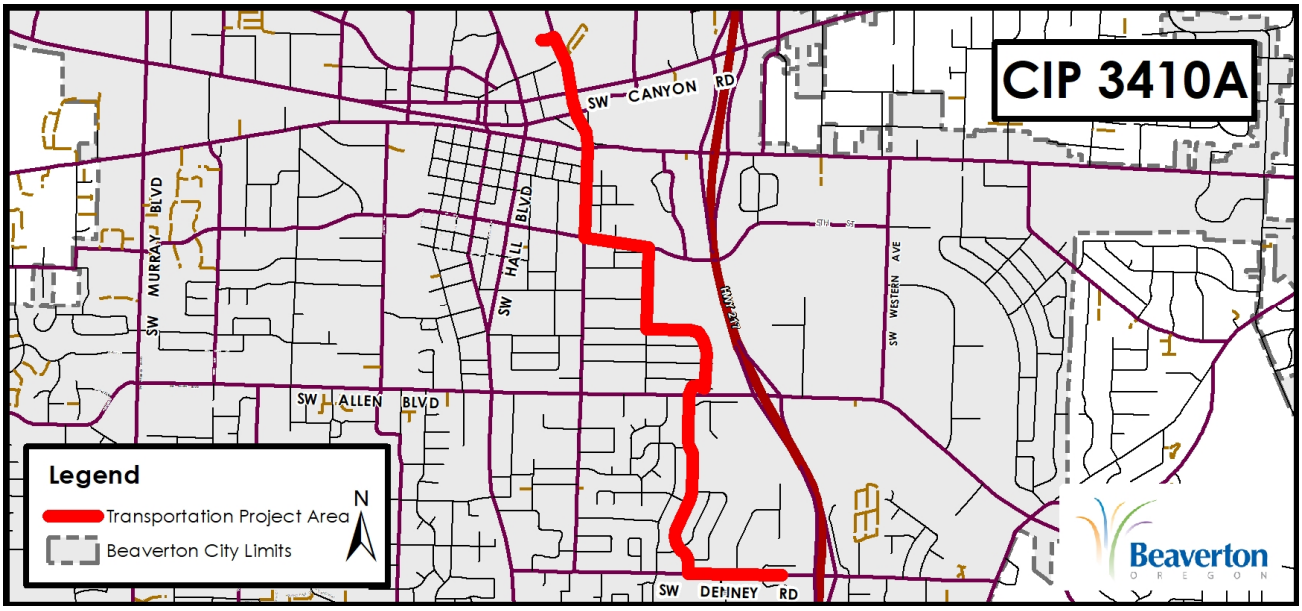
Estimated Date of Completion: October 2019 **First Year Budgeted:** FY 2016/2017

Estimated Project Cost: $18,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
001	General Fund	FY 2019/2020	$12,000
		FY Total	**$12,000**

Map:


CIP 3410A
SW CANYON RD
SW MURRAY BLVD
SW HALL BLVD
SW WESTERN AVE
SW ALLEN BLVD
SW DENNEY RD
Legend
Transportation Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 3415

Project Name Barrows Rd/Murray Blvd Fiber Connection

Project Description Install fiber optic connection between Murray Blvd and Barrows Rd. The intent of the project is to install an underground fiber optic communication system and related communication equipment to existing traffic signals along the project corridor.

Project Justification The new communication infrastructure and equipment will provide the framework for integration into the regional traffic signal control system and allow for an integrated regional arterial management system. The communication/equipment upgrade allows the central signal server to monitor the signal operations in real time and improves traffic flow through better signal coordination thus delaying the need for additional travel lanes. This project supports the 2019 Council priority to focus on transportation technology.

Project Status FY 18-19: Begin design. FY19-20: Complete design and construction. A contractor will complete installation of conduit and junction boxes and a specialty contractor will install and connect the fiber. City Forces will integrate the real time traffic flow data into the signal system.

Project Manager Jabra Khasho, Tina Nguyen

Estimated Date of Completion: October 2020

First Year Budgeted: FY 2019/2020

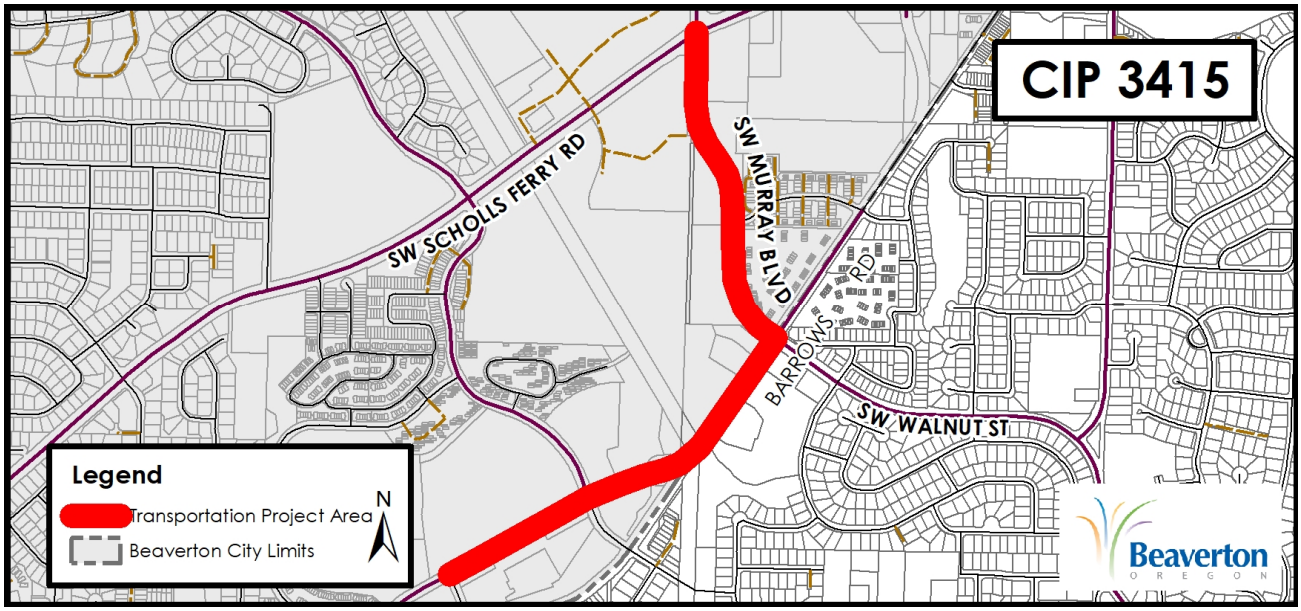
Estimated Project Cost: $95,000

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3413	Fiber	FY 2019/2020	$95,000
		FY Total	**$95,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 3416

Project Name Hall Blvd (Ridgecrest Dr - Hwy 217) Overlay

Project Description The intent of the project is to resurface approximately 3,350 feet of Hall Blvd from Ridgecrest Dr to the north side of the RR tracks north of Hwy 217. The scope of pavement rehabilitation will be determined by an independent pavement analysis. Work will also include the upgrade of approximately 18 sidewalk ramps to current ADA standards.

Project Justification The project section of Hall Boulevard is a five-lane arterial street that serves a primarily commercial area in the middle of downtown Beaverton. In addition, the street section is a major feeder road to State Hwy 217. The current Average Daily Traffic within the project is approximately 29,000 (both directions). The existing pavement is in fair condition with a low condition in spots. The current Pavement Condition Index is 74 which is at the low end of the condition spectrum for an arterial street. If the pavement is not rehabilitated in the short term, then more expensive repairs will be needed.

Project Status FY18-19: The budget of $90,000 for design in FY 19-20 is included in the overall annual paving budget of $1,200,000. FY19-20: Complete pavement analysis, project plans and specifications, and bid the project. FY20-21: Complete construction in the summer of 2020.

Project Manager Jim Brink

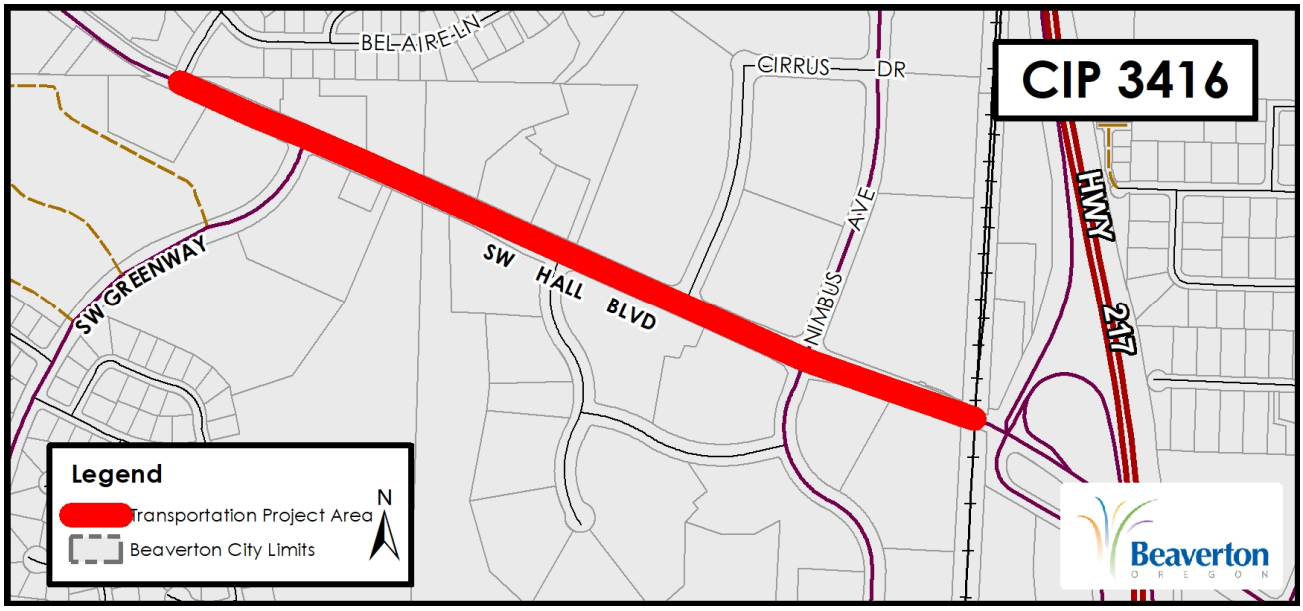
Estimated Date of Completion: October 2020 **First Year Budgeted:** FY 2019/2020

Estimated Project Cost: $1,400,000 **New Project:** Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
101	Street Fund	FY 2019/2020	$90,000
		FY Total	**$90,000**

Map:



Project Number 3519A

Project Name Canyon Rd (Hocken Ave-Short St) Improvements, MTIP

Project Description This Metro Transportation Improvement Plan project is intended to address safety, connectivity, and accessibility issues on 4,900 feet of Canyon Road between SW Hocken Ave and SW Short St. The project will upgrade intersections at Hocken Ave and Cedar Hills Blvd as well as reconstruct Canyon Rd from west of Hocken Ave to Short St. Improvements include sidewalks, pedestrian crossings, lighting, and signalization. The sidewalk crossing on Beaverton Creek may also be widened. The project requires extensive coordination with ODOT, the agency that has jursidiction of Canyon Rd. A bike route alternative to Canyon Rd is contained in CIP 3518 and was completed in Sep 2017. Improvements to Hocken Ave on the south side of Canyon Rd are included in CIP 3408. CIP 3408 and portions of CIP 3518 have been incorporated into CIP 3519A. ODOT has pledged $2,000,000 to the project in additon to the $3,535,000 in federal aid funds. The City match is $750,000 which does not include funding for CIP 3408.

Project Justification The Canyon Road Safety and Streetscape project was a recommendation of the 2011 Beaverton Civic Plan, which investigated projects to address Community Vision Actions related to downtown revitalization and transportation. The Creekside District Master Plan, initiated in FY 12-13, included coordination with the ODOT and other stakeholders to develop the concept for the Canyon Rd improvement.

This project supports 2016 Council Priority "Develop a Plan B for Canyon Rd" and responds to Community Vision Action Plan (CVAP) #65 create pedestrian friendly zone as well as Comprehensive Plan Goals 6.2.2 (policies a-e), 6.2.3 (policy c), 6.2.5 (policy a), and 6.2.7 (policy a) and Creekside Master Plan Implementation Strategy (Chapter 5, Figure 23) #A.7.

Project Status FY 12-13: Completed Creekside District Mobility Audit, Canyon Road planning and design sessions with ODOT, preliminary corridor design documents, and draft memorandum of understanding with ODOT; began public outreach. In Apr 2013 applied for Tiger V grant. Application was unsuccessful. See CIP 3310 concerning the HUD Community Challenge grant and Creekside District Master Planning. FY 13-14: In Nov 2013 City received approval of $3.535 million in Federal aid through the MTIP. City match is $394,000. OTAK completed survey; continued Creekside District Master Plan work and refinement of design, ODOT coordination and public outreach. In Apr 2014 applied for TIGER VI grant. FY 14-15: Continued Creekside District Master Plan work, ODOT coordination and public outreach; completed environmental permit applications and 30% design. Tiger VI grant application not approved. Continued coordination with ODOT concerning acceptable design standards. Submitted TIGER VII grant application in Jun 2015. FY15-16: On 7-21-15 ODOT determined that the south curb line on Canyon Rd needed to be moved 6'-7' to the north. 10-29-15 TIGER VII application not approved. Final Project Delivery Charter completed 12-10-15. Draft IGA with ODOT completed 1-19-16. Council approved IGA 30667 with ODOT 4-5-2016. FY16-17: Survey was completed in Dec 2016. Project was delayed while City and ODOT resolved differences concerning the width of the shoulder (the space between the travel lane and the curb) versus the width of the sidewalk. FY17-18: Project design by ODOT staff restarted in Aug 2017. Driveway impact process ongoing. FY18-19: Completed 60% design and cost estimates in Dec 2018. Project design is expected to take up through Sep 2019.The ROW phase is scheduled for Dec 2018 through Dec 2019. FY19-20: Construction is expected to begin in the summer of 2020 but may be delayed to

the spring of 2021.

Project Manager Jim Brink

Estimated Date of Completion: October 2021 **First Year Budgeted:** FY 2014/2015

Estimated Project Cost: $6,393,000 **New Project:** No

Funding Data:

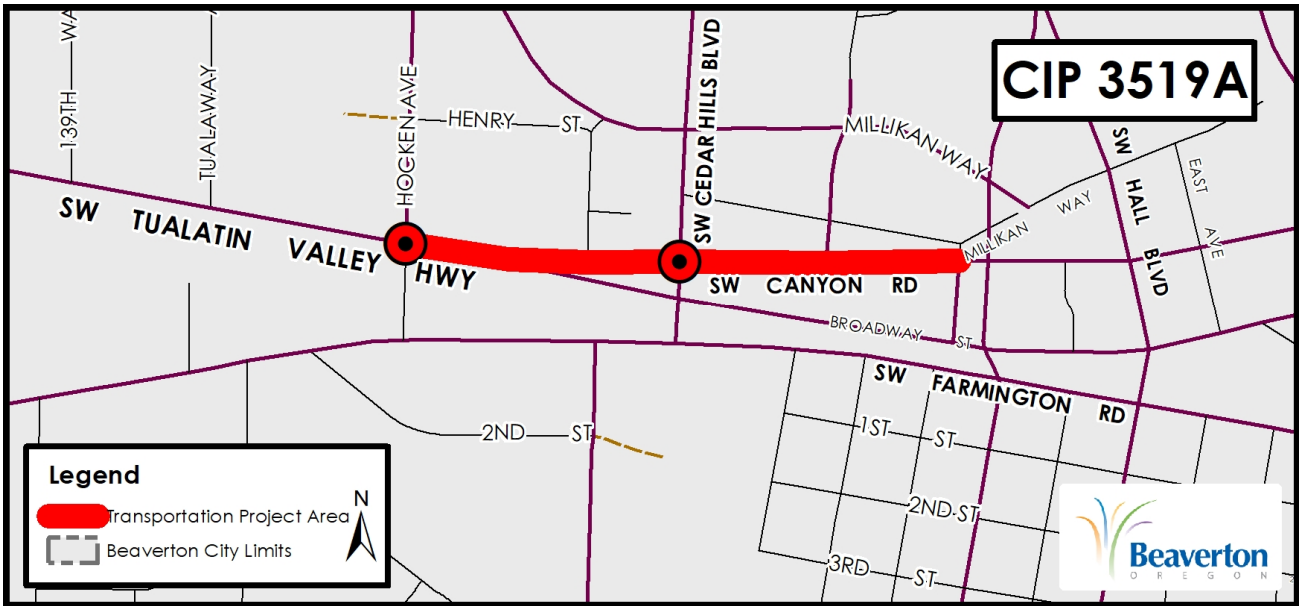
Fund No.	Fund Name	FY	Amount
001	General Fund	FY 2019/2020	$106,000
101	Street Fund	FY 2019/2020	$106,000
3701	Water Improvements	FY 2019/2020	$10,000
3850	Sewer Maint/Replacement	FY 2019/2020	$10,000
		FY Total	**$232,000**

FUNDING PLAN FOR CIP 3519A - CANYON RD (HOCKEN AVE-SHORT ST) IMPROVEMENTS, MTIP

	FY 2015	FY 2016	FY 2017	FY 2017-2018	Estimated FY 2018-2019	Estimated FY 2019-2020	Estimated FY2020-2021	TOTAL	
683 (Engineering)									
001		$2,521	$3,696	$68,549	$10,000	$6,000	$15,000	$105,766	
101	$737	$3,700	$3,161	$70,127	$10,000	$6,000	$15,000	$108,725	
Total	$737	$6,221	$6,857	$138,676	$20,000	$12,000	$30,000		$214,491
652 (Right of Way)									
001						$100,000		$100,000	
101						$100,000		$100,000	
Total						$200,000			$200,000
682 (Construction)									
001							$221,000	$221,000	
101							$222,000	$222,000	
Total							$443,000		$443,000
TOTAL									$857,491
001		$426,766							
101		$430,725							
Federal Funds		$3,535,000							
ODOT		$2,000,000							
City (IGA - Hocken Ave)		$650,000	Included in CIP 3408 Project Funding Plan						
Total		$6,392,491							
3701 Water Fund		$50,000							
3850 Sanitary Fund		$40,000							

22-Mar-19

Map:


CIP 3519A
SW TUALATIN VALLEY HWY
SW CANYON RD
SW FARMINGTON RD
SW CEDAR HILLS BLVD
SW HALL BLVD
HOCKEN AVE
TUALA WAY
139TH
HENRY ST
MILLIKAN WAY
MILLIKAN WAY
EAST AVE
BROADWAY ST
2ND ST
1ST ST
2ND ST
3RD ST
Legend
Transportation Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 5089 MSTIP

Project Name Murray/Walker Intersection & Replacement Bridges, MSTIP 3D

Project Description MSTIP: This project will widen Walker Road and Murray Boulevard which are heavily used arterial roads. The current intersection has four travel lanes with a single left turn lane with dual left turn lanes from eastbound Walker road to northbound Murray Boulevard. The intersection of Murray and Walker will be widened to include dual left turn lanes and dedicated right turn lanes on all four approaches at the intersection. A third southbound through lane will also be added to Murray Boulevard from south of Butner Road through the Walker Road intersection. The additional through lane will become a dedicated right turn lane at Bowerman Drive, south of the intersection.

See https://www.co.washington.or.us/LUT/TransportationProjects/walker-murray-intersection-project.cfm for more project information.

City Public Works staff participates on the design team for the stormwater system upgrade. The Washington County MSTIP project is picking up most of the stormwater system design and plan preparation expense by consultant as well as most of the construction expense. It is anticipated that the City may pick up some rehabilitation cost of certain segments of storm drain pipe – the amount will be determined as part of the design process.

Project Justification Reduce safety and congestion problems identified by the County and community in the Major Streets Transportation Improvement Program (MSTIP 3d). This project will tie into WASHCO project Walker Road Phase 2.

Project Status FY 18-19: Began design. FY 19-20: Complete design. FY 20-21: Complete construction.

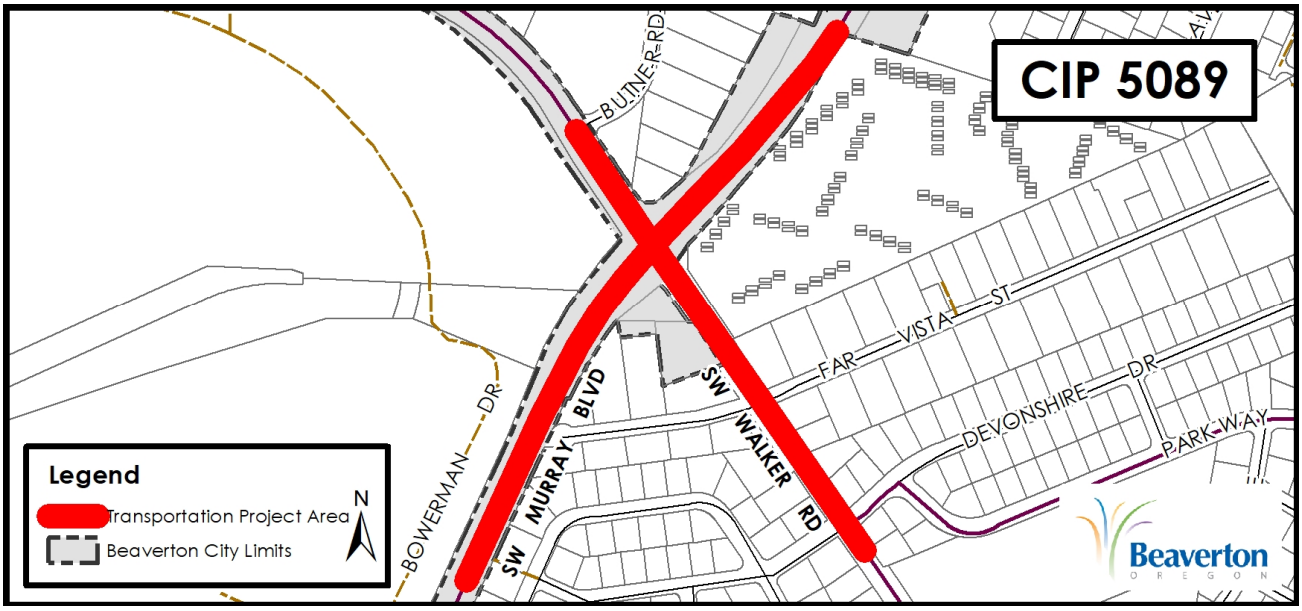
Project Manager Mark Boguslawski

Estimated Date of Completion:	December 2020	**First Year Budgeted:**	FY 2014/2015
Estimated Project Cost:	$14,000,000	**New Project:**	No

Funding Data:

Fund No.	Fund Name	FY	Amount
		FY Total	

Map:


CIP 5089
BUTNER RD
SW MURRAY BLVD
SW WALKER RD
BOWERMAN DR
FAR VISTA ST
DEVONSHIRE DR
PARK WAY
Legend
Transportation Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 5090 MSTIP

Project Name Jenkins Road Widening (158th Ave-Murray Blvd) MSTIP with a City of Beaverton Waterline Extension

Project Description MSTIP: This project will widen Jenkins Road between 158th and Murray to five lanes (two travel lanes in each direction with a center turn lane) and will include continuous bike and pedestrian facilities on both sides of the road. This transportation improvement project will result in better regional transportation function near the south side of the main Nike campus. City Public Works staff participates on the stormwater system design team. The Washington County MSTIP project is picking up all stormwater system design and plan preparation expense by consultant as well as all the construction expense.
Water: Waterline construction will enable the transfer of water service from TVWD to the City of Beaverton within project limits.

Project Justification MSTIP: Jenkins Road is a heavily used east/west arterial roadway that carries close to 24,000 vehicles a day. The current two/three lane road is not adequate for existing traffic and projected traffic growth in the area.
Water: Waterline installation in conjunction with the Washington County roadway project is cost effective.

Project Status FY17-18 & 18-19 Design. Bidding spring of 2019. Construction start: May 2019. Construction finish: December 2020 anticipated

Project Manager Brion Barnett, Mark Boguslawski

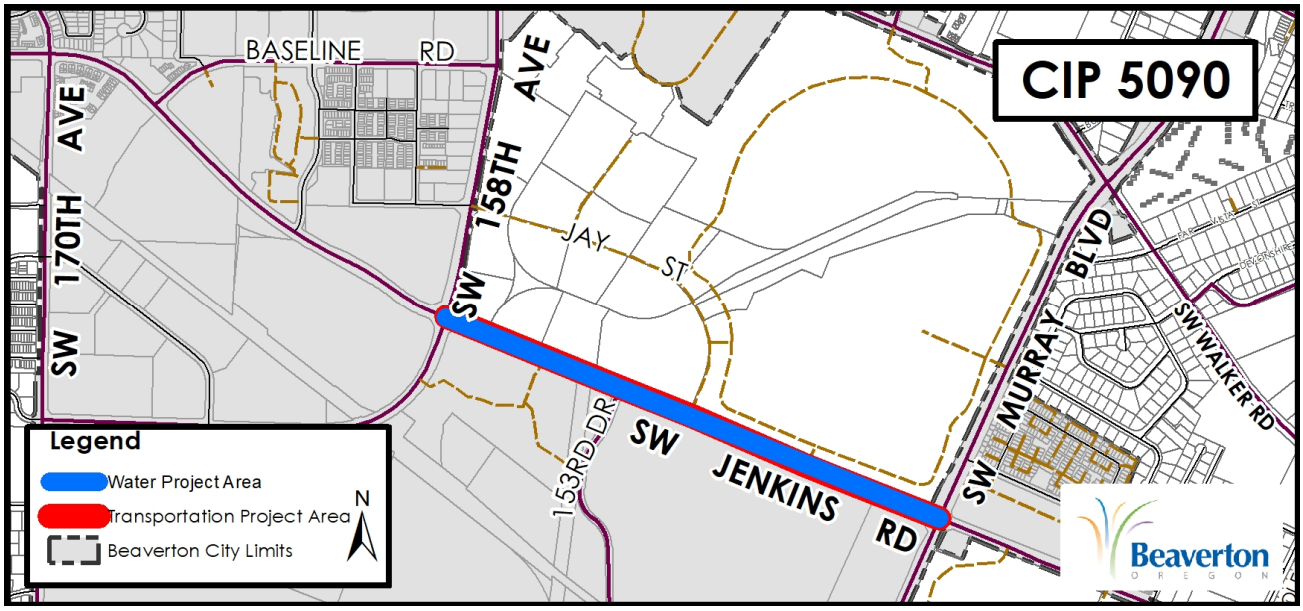
Estimated Date of Completion: December 2020 **First Year Budgeted:** FY 2014/2015

Estimated Project Cost: $13,000,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3627	Withdrawal of Areas from TVWD, Bonded	FY 2019/2020	$450,000
		FY Total	**$450,000**

Map:


CIP 5090
BASELINE RD
SW 170TH AVE
SW 158TH AVE
JAY ST
153RD DR
SW JENKINS RD
SW MURRAY BLVD
SW WALKER RD
Legend
Water Project Area
Transportation Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 5105 MSTIP

Project Name Walker Rd (173rd Ave - 185th Ave), MSTIP3e

Project Description MSTIP: This project will widen Walker Road, between 173rd and 185th avenues, to five lanes, two travel lanes in each direction and a center turn lane. https://www.co.washington.or.us/LUT/TransportationProjects/walkerroad3.cfm City Public Works staff participates on the design team for the stormwater system upgrade. The Washington County MSTIP project is picking up all stormwater system design and plan preparation expense by consultant as well as all the construction expense.
Water: Install 4500 feet of 12-inch and 8-inch waterline and associated structures on Walker Rd and 1000 feet of 12-inch waterline on Cambray St.

Project Justification MSTIP: Reduce safety and congestion problems identified by the County and community in the Major Streets Transportation Improvement Program (MSTIP 3).
Water: This is an opportunity project to design and construct a City water main to serve customers in a recently annexed area (Area 4) in conjunction with the road improvements.
Sanitary: Structures need to be adjusted to match design finished grade.

Project Status FY 18-19: design. FY 19-20 and 20-21: construction.

Project Manager Alan Johansson, Mark Boguslawski, Priya Dhanapal

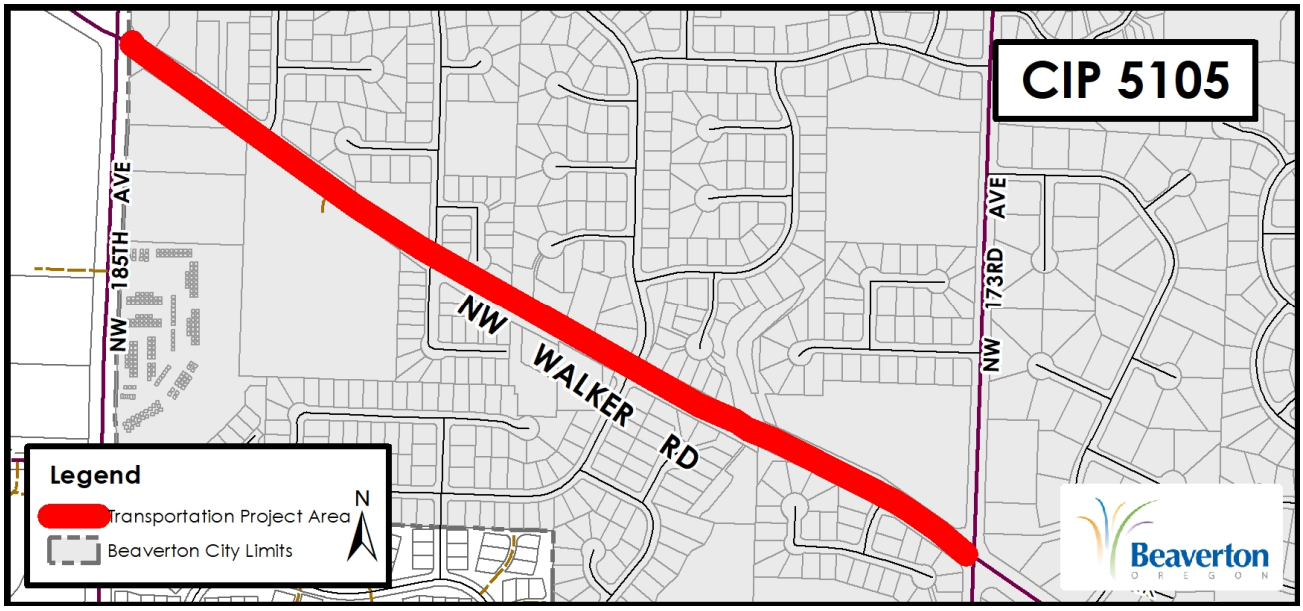
Estimated Date of Completion: December 2020 **First Year Budgeted:** FY 2017/2018

Estimated Project Cost: $8,000,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3627	Withdrawal of Areas from TVWD, Bonded	FY 2019/2020	$1,000,000
3850	Sewer Maint/Replacement	FY 2019/2020	$10,000
		FY Total	**$1,010,000**

Map:


CIP 5105
NW 185TH AVE
NW 173RD AVE
NW WALKER RD
Legend
Transportation Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Transportation**

FY 2019/2020

Project Number 5106D

Project Name ADA Ramp Replacement (FY19-20)

Project Description Replace approximately 220 ramps to current Americans with Disabilities Act (ADA) standards.

Project Justification Ramps do not meet current ADA standards. Replacement of ADA ramps that do not meet ADA standards is a City Council CIP priority. In addition, ADA ramps are required to be upgraded on streets that will receive a pavement rehabilitation.

Project Status FY19-20: Complete construction in 2nd year of a 3 year design/build contract with Brown Contractors.

Project Manager Brant Holaday

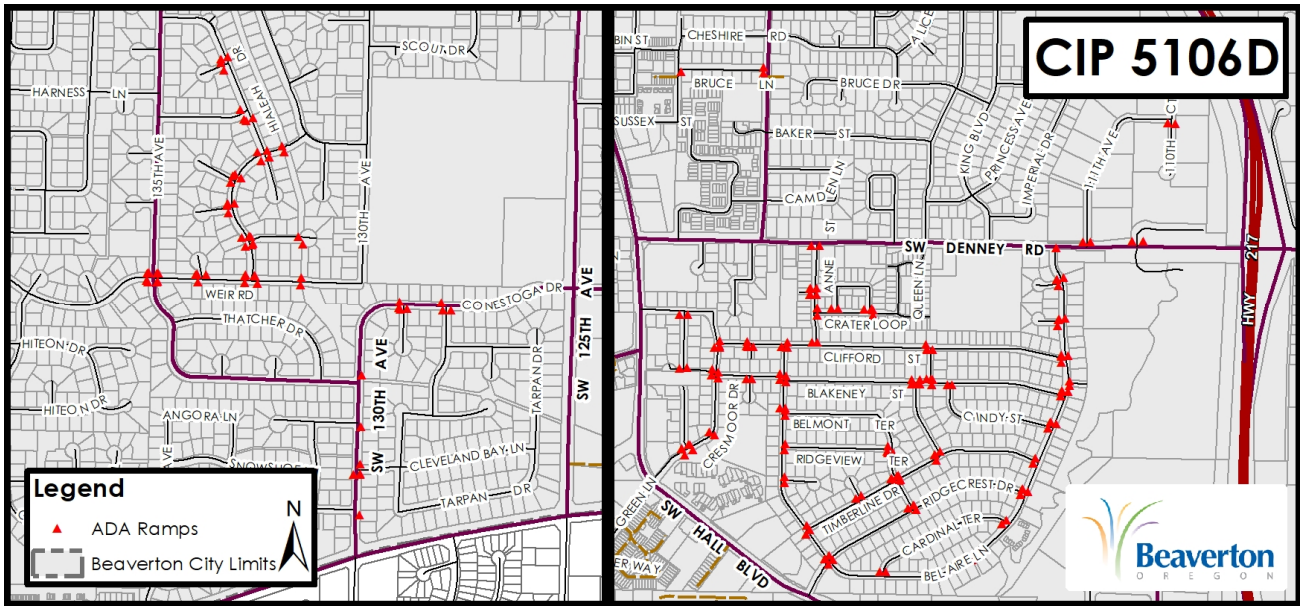
Estimated Date of Completion: June 2020 **First Year Budgeted:** FY 2019/2020

Estimated Project Cost: $1,000,000 **New Project:** Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
101	Street Fund	FY 2019/2020	$1,044,003
		FY Total	**$1,044,003**

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 5110

Project Name Wilson Dr (Allen Blvd - Hart Rd) Traffic Calming

Project Description Provide traffic calming measures on Wilson Dr from Allen Blvd to Hart Rd in accordance with the City's Traffic Calming Program.

Project Justification Citizens have requested traffic calming measures to assist in the enforcement of speed limits on local, neighborhood streets. This project responds to Community Vision Action Plan (CVAP) #52: Use signals & traffic calming to improve safety.

Project Status FY 19-20: City staff begins work with the neighborhood to prepare a traffic calming design.

Project Manager Jabra Khasho

Estimated Date of Completion: September 2020

First Year Budgeted: FY 2019/2020

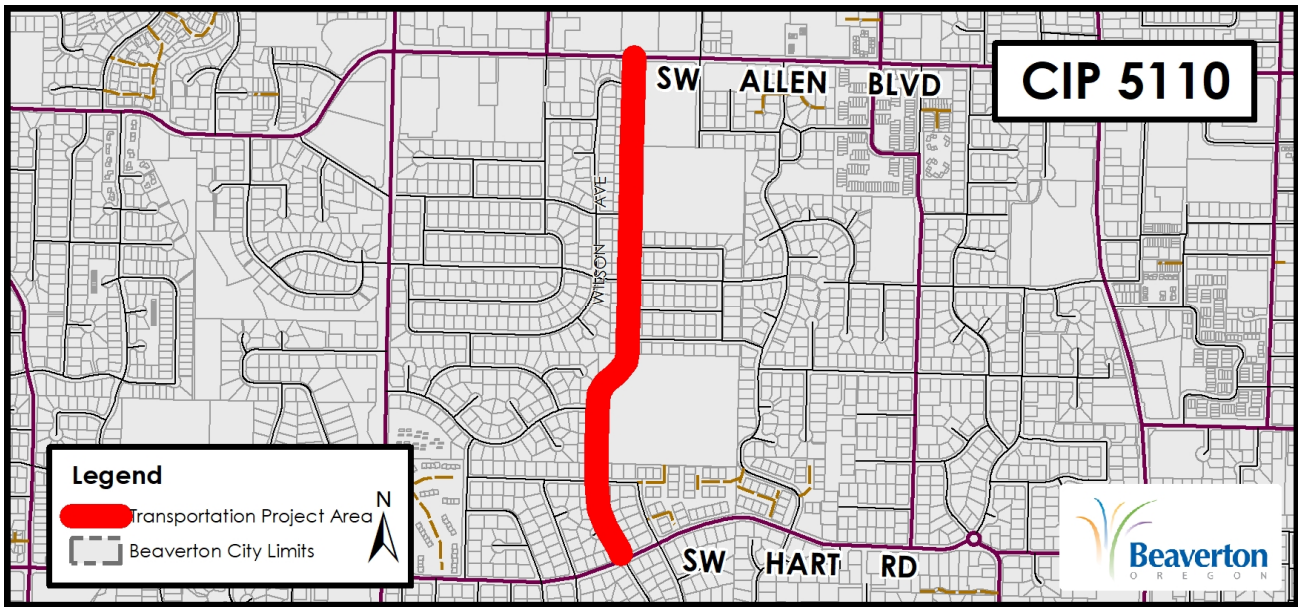
Estimated Project Cost: $40,000

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3223	Traffic Enhancement	FY 2019/2020	$40,000
		FY Total	**$40,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 5112

Project Name Sexton Mountain Dr (Murray Blvd - 155th Ave) Traffic Calming

Project Description Provide traffic calming measures on Sexton Mountain Dr from Murray Blvd to 155th Ave in accordance with the City's Traffic Calming Program.

Project Justification Citizens have requested traffic calming measures to assist in the enforcement of speed limits on local, neighborhood streets. This project responds to Community Vision Action Plan (CVAP) #52: Use signals & traffic calming to improve safety.

Project Status FY 19-20: City staff begins work with the neighborhood to prepare a traffic calming design.

Project Manager Jabra Khasho

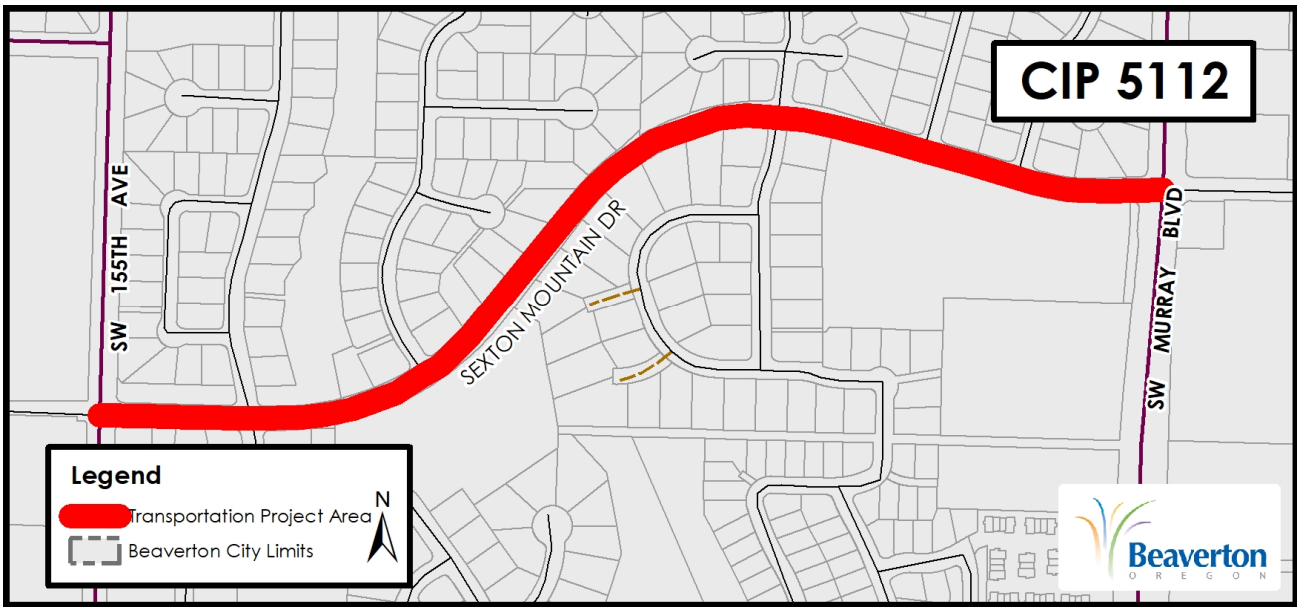
Estimated Date of Completion: September 2020 **First Year Budgeted:** FY 2019/2020

Estimated Project Cost: $60,000 **New Project:** Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3223	Traffic Enhancement	FY 2019/2020	$60,000
		FY Total	**$60,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 5113

Project Name Denney Rd East of 111th Ave Crossing Improvement

Project Description Install a Rectangular Rapid Flashing Beacon at the existing crosswalk on Denney Rd east of 111th Ave at the entrance to the Fanno Creek Trailhead. Project is in partnership with THPRD. THPRD is providing funding in the amount of $25,000.

Project Justification Crossing improvement is listed as Project CR-101 in the City Active Transportation Plan adopted in Nov 2017.

Project Status FY18-19: Coordinated project responsibilities with THPRD.

Project Manager Jabra Khasho

Estimated Date of Completion: September 2020

First Year Budgeted: FY 2019/2020

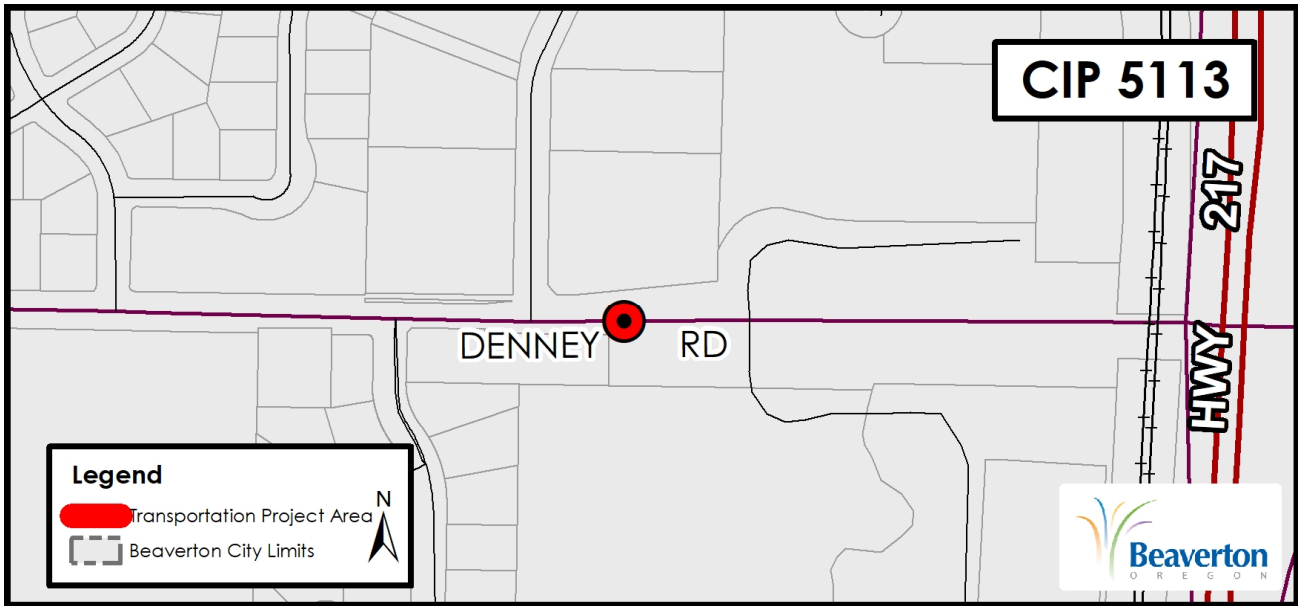
Estimated Project Cost: $50,000

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
101	Street Fund	FY 2019/2020	$70,000
		FY Total	**$70,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 5114

Project Name 105th Ave Pedestrian & Bike Improvements

Project Description Install signage and striping on 105th Ave from Denney Rd to the north end of the street at the cul-de-sac that serves as wayfinding for the Fanno Creek Trail.

Project Justification Project is listed in the Neighborhood Bikeways Plan under Project 68.

Project Status FY18-19: 2-1-19 and 2-15-19: Held discussions with ODOT and THPRD about project responsibility, priority and scope. 2-28-19: City priority is for ODOT to use funding for ped/bike improvements on the Hall Blvd bridge over Hwy 217 rather than along 105th Ave.

Project Manager Jabra Khasho

Estimated Date of Completion: June 2020

First Year Budgeted: FY 2019/2020

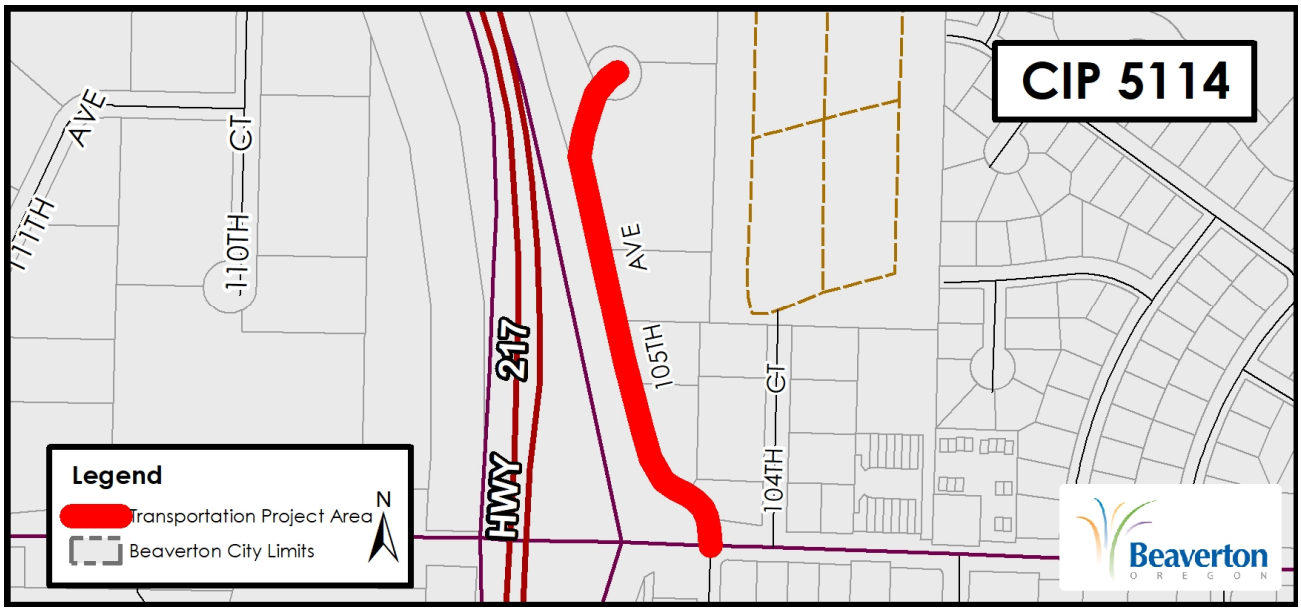
Estimated Project Cost: $25,000

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
101	Street Fund	FY 2019/2020	$25,000
		FY Total	**$25,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

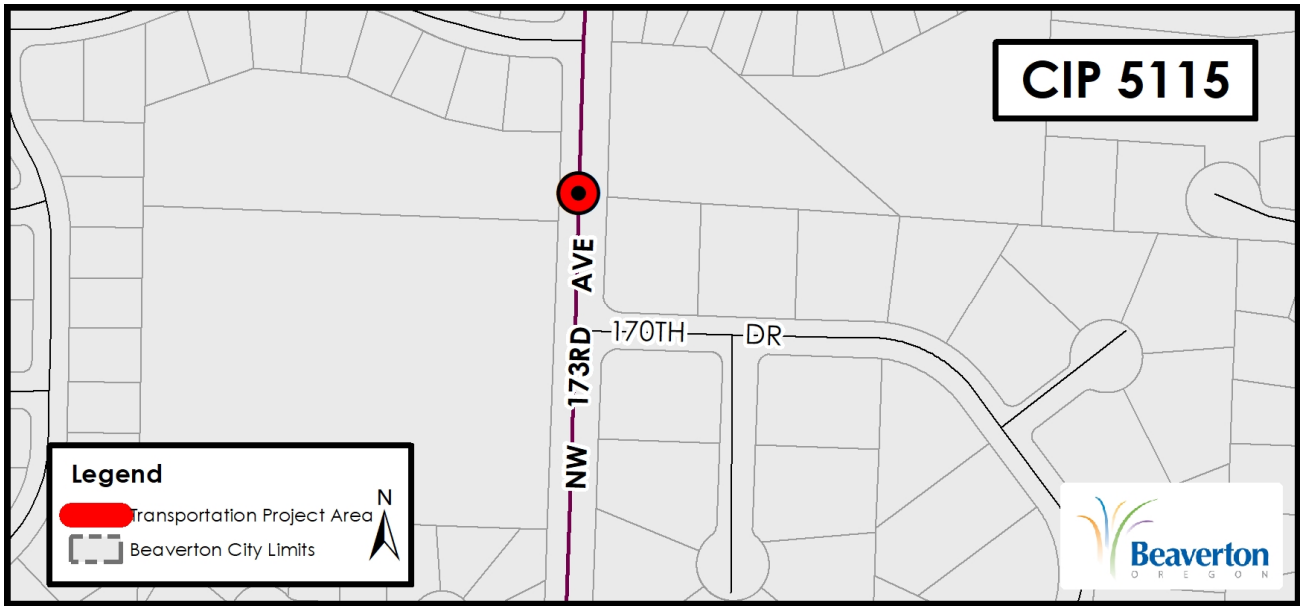
Project Number	5115
Project Name	Pedestrian Crossing Improvement at 173rd Ave & Autumn Ridge Park
Project Description	Install a Rectangular Rapid Flashing Beacon (RRFB) at the existing crosswalk on 173rd Ave at Autumn Ridge Park.
Project Justification	The City Active Transportation Plan adopted in Nov 2017 identifies many areas in the City where an existing marked crossing can be improved with additional crossing treatments. This is a crossing that has elicited numerous requests for an enhanced treatment.
Project Status	FY19-20: Design and construct crossing improvements that include an RRFB. All work is expected to be done by City Forces.
Project Manager	Jabra Khasho

Estimated Date of Completion:	September 2020	**First Year Budgeted:**	FY 2019/2020
Estimated Project Cost:	$40,000	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
101	Street Fund	FY 2019/2020	$40,000
		FY Total	**$40,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Transportation

Project Number 5116

Project Name Pedestrian Crossing Improvement at Barrows Rd & Barrows Park

Project Description Install a Rectangular Rapid Flashing Beacon at the existing crosswalk on Barrows Rd at Barrows Park.

Project Justification Crossing improvement is listed as Project CR-33 in the City Active Transportation Plan adopted in Nov 2017. This is a crossing that has elicited numerous requests for an enhanced treatment.

Project Status FY19-20: Design crossing improvement and begin construction if funding is available.

Project Manager Jabra Khasho

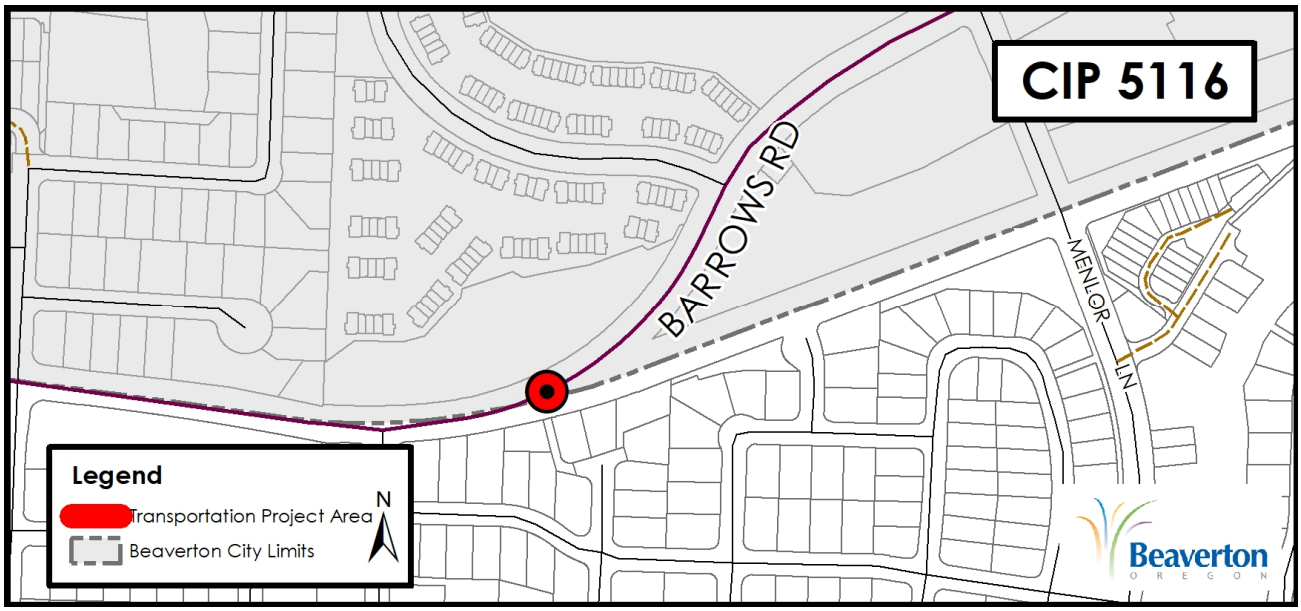
Estimated Date of Completion: June 2021 **First Year Budgeted:** FY 2019/2020

Estimated Project Cost: $40,000 **New Project:** Yes

Funding Data:

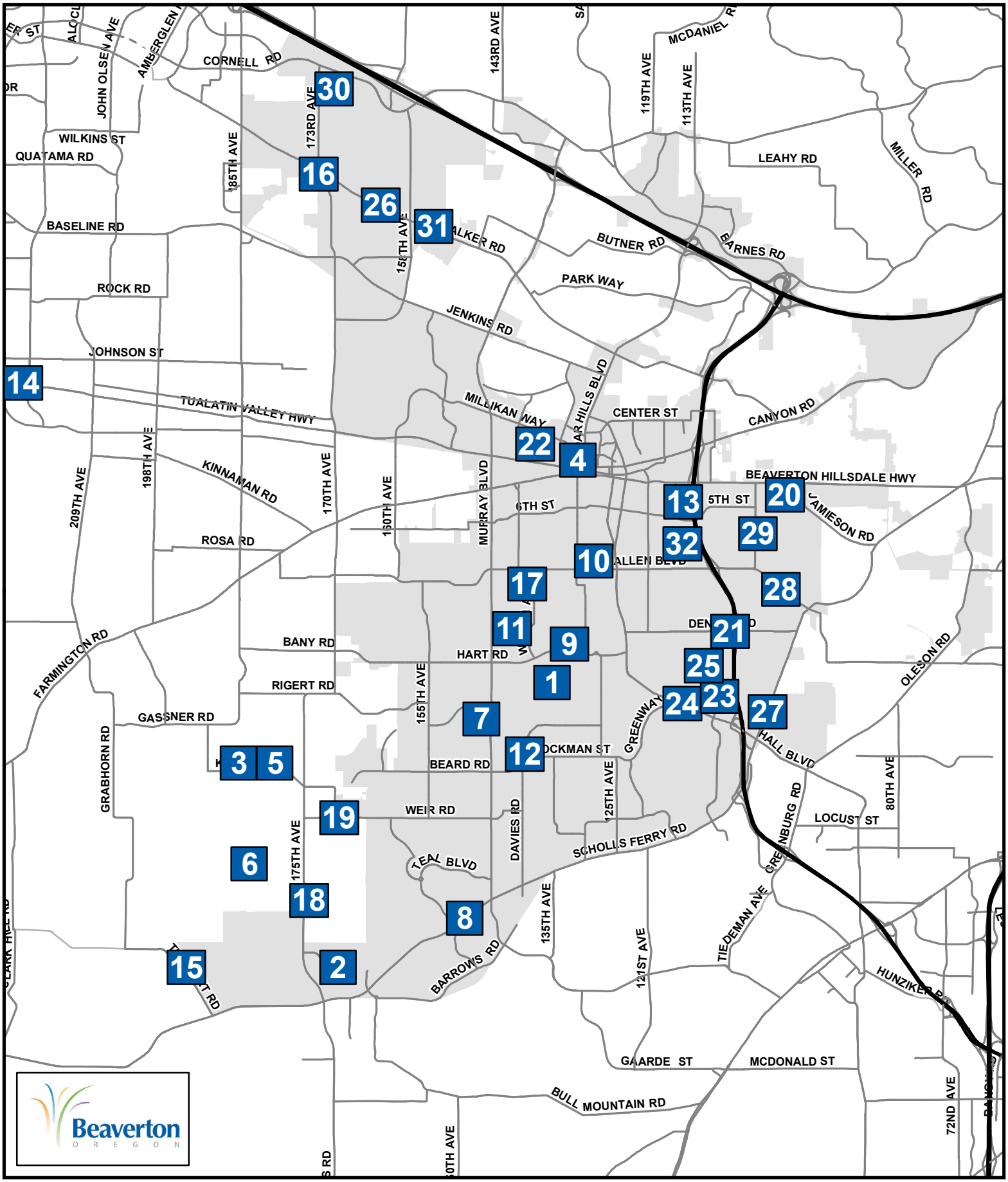
Fund No.	Fund Name	FY	Amount
101	Street Fund	FY 2019/2020	$20,000
		FY Total	**$20,000**

Map:



2019-20
Water Projects

Water Projects FY 2019-2020



Map #	CIP #	Project Name
1	4021D	Aquifer Storage and Recovery (ASR) Well No. 5
2	4021G	South Cooper Mtn (Non-Potable Water) from ASR Well No. 3
3	4021H	Aquifer Storage and Recovery (ASR) Well No. 7
4	4046	Lloyd St Waterline (TV Hwy - Henry St)
5	4058A	Cooper Mountain Reservoir #2 (5.5 MG)
6	4058B	Cooper Mountain Reservoir #3 (5.5 MG)
7	4078C	Sexton Mountain Pump Station Upgrade and Emergency Generator, Phase 3
8	4107	Meridian Pump Station Replacement
9	4111	Hyland Area Waterline Replacements
10	4120	Taralynn Ave (Allen Blvd - EOP) Waterline Replacement
11	4123	Barlow Ct 6-Inch Waterline
12	4134	PRV Improvements at Davies Rd/Brockman Rd and Weir Rd/158th Ave
13	4135	Griffith Dr 8-Inch Waterline
14	4141	WWSP Intertie at Cornelius Pass Rd & TV Hwy
15	4142	WWSP Intertie and Pump Station at Tile Flat Rd
16	4143	JWC North Transmission Line (NTL) Intertie and Transmission Line
17	4144	Spirea (Cherryhill Dr - Fischer) & Cherryhill Dr (Wilson - 20th/Azalea Ct) Waterline Replacement
18	4151A	175th Transmission Main 24-Inch Winkleman Park to Alvord Ln
19	4151B	Weir Rd 16-Inch Transmission Line 173rd to 165th Ave
20	4152	Chestnut Pl (BH Hwy-Cypress St) 8-Inch Waterline Replacement
21	4161	Area 6 - Denney Road Crossing at HWY 217th - Replacement of 400 LF with 12" Waterline Upsizing
22	4168	Electric Ave 8-Inch Waterline Loop
23	4169A	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - Phase 1
24	4169B	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - Phase 2
25	4169C	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - Phase 3
26	4171	Master Meter (Schendel/Walker)
27	4172	Metzger East Pipeline - Scholls Ferry Rd, Nimbus Ave to Allen Blvd (TVWD Opportunity Project)
28	4173	WWSP - SW Allen Blvd (WWSP - SW Allen Blvd)
29	4174	WWSP - SW Western Ave (TVWD Opportunity Project)
30	4175	Five Oaks School, 173rd to NW 167th, 12" water line, 1500 LF
31	5088B	Waterhouse/Elmonica Area,Withdrawal Area 4 (Bond) & Walker Rd Phase 2 (MSTIP)
32	6095	Sellwood Subdivision Utility Replacements

Project Number 3635

Project Name JWC Projects

Project Description Capital projects to improve and maintain Joint Water Commission (JWC) and Barney Reservoir (Barney Joint Ownership Commission) facilities. In 1980, Beaverton obtained ownership rights to the JWC water supply and transmission system. The City's drinking water originates from the JWC Water Treatment Plant (WTP) south of Forest Grove. Beaverton owns a 18.75-million gallon per day share of water treatment plant capacity and 10 million gallons of JWC reservoir storage and shares of other supply system facilities. The JWC supply system has a total capacity of 75 million gallons per day (MGD) and is jointly owned by the cities of Hillsboro, Beaverton, and Forest Grove, and the Tualatin Valley Water District. A large project is underway to upgrade and expand the water treatment plant to 85 MGD. The treatment plant upgrade and the JWC is the City's largest cost in the FY19-20 CIP. The City of Beaverton also owns 4,300 acre-feet (1.4 billion gallons in storage annually) or 21.5% share in the Barney Reservoir Project. Projects are budgeted and executed from year to year, as needed. The City uses its 16 mgd water rights in the Tualatin River and water rights by contract in the Trask River/Barney Reservoir as source water to treat at the JWC and ultimately provide to Beaverton water customers.

Project Justification Provide potable water supply to the City of Beaverton that meets current and future needs.

Project Status Various projects to replace and/or upgrade existing JWC facilities (treatment plant, finished water storage, and transmission lines) are included in the JWC budget each year. CIP 3635 includes both capacity projects from funding source 3635 (there are none programmed for FY11-18) and maintenance projects listed in the Water Finance Plan from funding source 3611.

Project Manager David Winship

Estimated Date of Completion:

First Year Budgeted: FY 1999/2000

Estimated Project Cost: $1,459,295

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3611	JWC Maint/Replacement	FY 2019/2020	$1,510,000
		FY Total	**$1,510,000**

Project Number 4021D

Project Name Aquifer Storage and Recovery (ASR) Well No. 5

Project Description ASR Well No. 1 reached the end of its useful life and was converted to a monitoring well in 2013. ASR No. 5 is proposed to replace and offset the loss in ASR capacity from existing ASR No. 1 and add new pumping capacity of an additional 1 million gallons per day (mgd) of potable water. Staff will proceed with substantial preliminary design work for the project in FY 2018-19 using IFA (Infrastructure Finance Authority) funds from the State of Oregon and the US EPA. The ASR No. 5 well and pumping station project is expected to have a total peak-capacity of 2 mgd. In FY18-19 construction of ASR Well No. 5 is planned at the existing Sorrento Reservoir and Pump Station site owned by the City of Beaverton. The new well borehole will be drilled to a 24-inch diameter with a 20-inch diameter steel casing to full depth.

Project Justification Expanding ASR capacity by 2 mgd, using ASR Well No. 5, will increase the reliability and capacity of supply both for the City of Beaverton and indirectly for our JWC partners. An increase in 2 mgd during average peak season water demand will provide for an equivalent supply of potable water to approximately 15,800 new Beaverton residents (using current average-day per capita water use) as Beaverton's population grows and in case of an emergency when water supply from the JWC is interrupted.

Project Status FY15-16: Complete preliminary design. FY16-17: Well drilling completed. FY17-18: No work. FY18-19: Begin land use, final design. FY 19-20: Finish land use, final design, bidding, and begin pump house construction.

Project Manager Brion Barnett

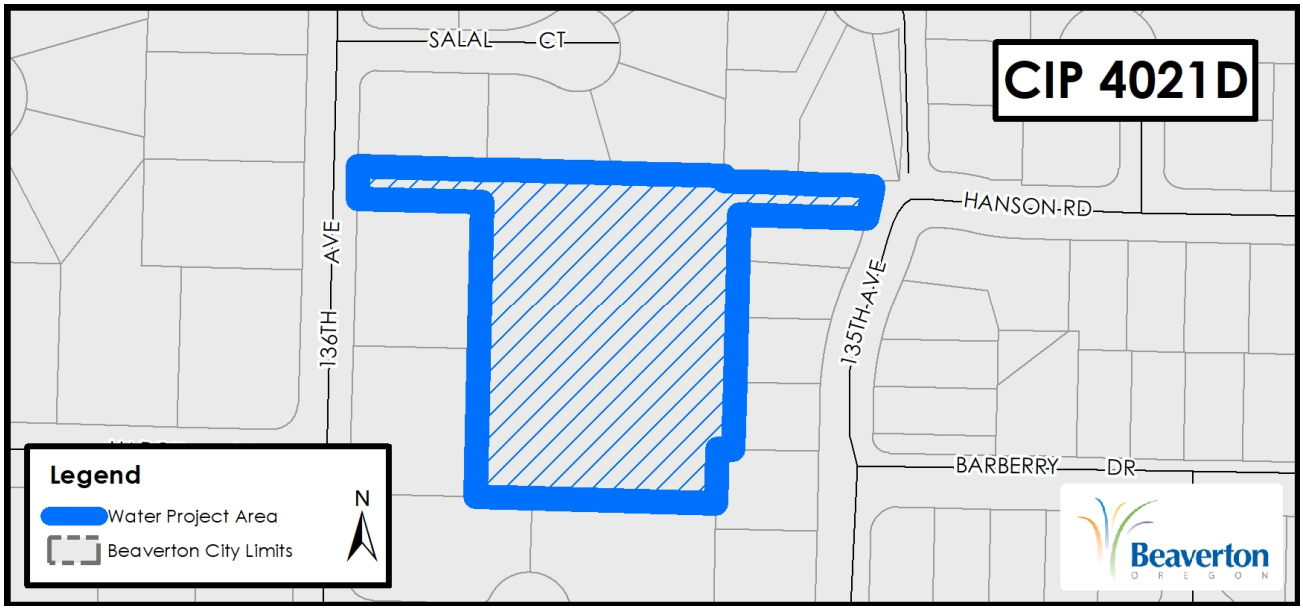
Estimated Date of Completion: July 2021 **First Year Budgeted:** FY 2005/2006

Estimated Project Cost: $6,450,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3621	ASR Well No 5 (IFA Loan)	FY 2019/2020	$1,272,000
		FY Total	**$1,272,000**

Map:


CIP 4021D
SALAL CT
HANSON RD
136TH AVE
135TH AVE
BARBERRY DR
Legend
Water Project Area
Beaverton City Limits
N
Beaverton
OREGON

Project Number 4021G

Project Name South Cooper Mtn (Non-Potable Water) from ASR Well No. 3

Project Description To partially mitigate the increase in water demand which is related to non-potable water use such as irrigation, outdoor use, toilet flushing, and decorative fountains in the South Cooper Mountain (SCM) annexation area, the City is planning for a non-potable (purple pipe) system which will use native groundwater from a 1,000-foot deep existing well drilled in 2000 into a local deep-basalt aquifer (see CIP 4021A). The well was originally drilled and intended as an Aquifer Storage and Recovery well, ASR Well No. 3 for potable water. Other locations and underground formations for ASR in Beaverton proved to be lower cost and higher water drinking quality for ASR, so ASR No. 3 was held in reserve for future development. A well-pumping system will be developed and purple-pipe water distribution system that will extend from SW Loon Dr, near Scholls Ferry Rd to the west and ending at SW Tile Flat Rd. The purple pipe system will serve Mountainside High School and developments in South Cooper Mountain.

Project Justification With the annexation of the 544-acre SCM area in January 2013, an additional 8,000 people may be added to the City's upper elevation water service area within the next 20 years, and 12,000 more may be added when the remaining Urban Reserve 6B is brought into the Urban Growth Boundary. An infrastructure study (CIP No. 6083), which is part of the concept plan, requires extensive evaluation of potable water supply and service needs and projected costs to ensure provision of water service and fire protection for a fully developed area.

Project Status FY 15-16: Engineering staff with the assistance of hydrogeological and engineering consultants prepared preliminary design for the needed pump station and purple pipe distribution system. FY16-17: Completed design and installation of a section of the purple pipe distribution system. FY17/18: Continued installation of the purple pipe system as opportunities arose and completed 60% design of the well-pumping system. FY18-19: Begin drilling of the ASR Well No. 3a. Begin final design of the well-pumping system. Construct a potable to non-potable intertie. Continue installation of the purple pipe system. FY19-20: Complete construction of the ASR Well No. 3a and the well-pumping system.

Project Manager Priya Dhanapal

Estimated Date of Completion:

First Year Budgeted: FY 2015/2016

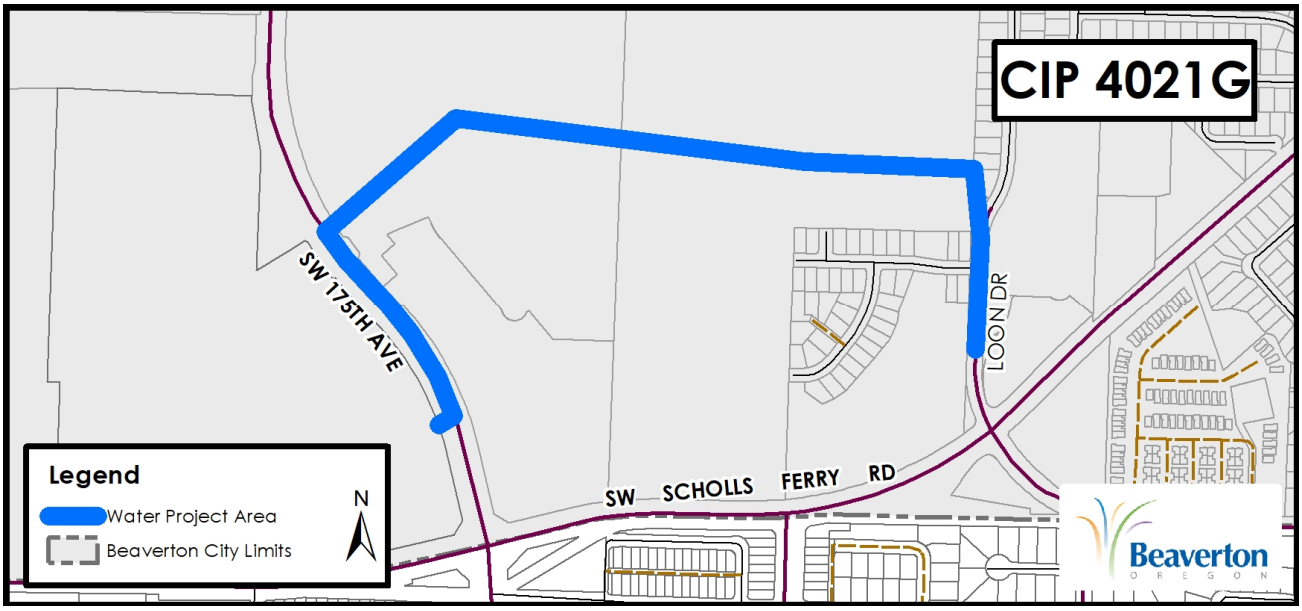
Estimated Project Cost: $2,500,000

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3623	Non-Potable Purple Pipe	FY 2019/2020	$2,585,000
		FY Total	**$2,585,000**

Map:


CIP 4021G
SW 175TH AVE
LOON DR
SW SCHOLLS FERRY RD
Legend
Water Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4021H

Project Name Aquifer Storage and Recovery (ASR) Well No. 7

Project Description The ASR project consists of building a pump station that will allow injection of water from the 5.5 MG Cooper Mountain reservoir into the ASR aquifer, store up to 250 million gallons, and recover water in the summer during periods of peak demand. Water from ASR 7 will be pumped back into Cooper Mountain Reservoir which is located within a short distance on the same 10 acre property.

Project Justification Periodic testing and water quality evaluation is necessary to insure the integrity of the ASR asset.

Project Status The 14-inch diameter test well was drilled by the JWC in 2011 as a test well for a future JWC partnership. The future ASR 7 is estimated to have a pumping capacity of 1.0 million gallons per day (mgd) when fully developed. The ASR storage capacity is estimated to be 250 million gallons. FY18-19: Perform well maintenance and testing of ASR 7. FY 19-20: Complete testing and provide test results.

Project Manager Priya Dhanapal

Estimated Date of Completion:

First Year Budgeted: FY 2018/2019

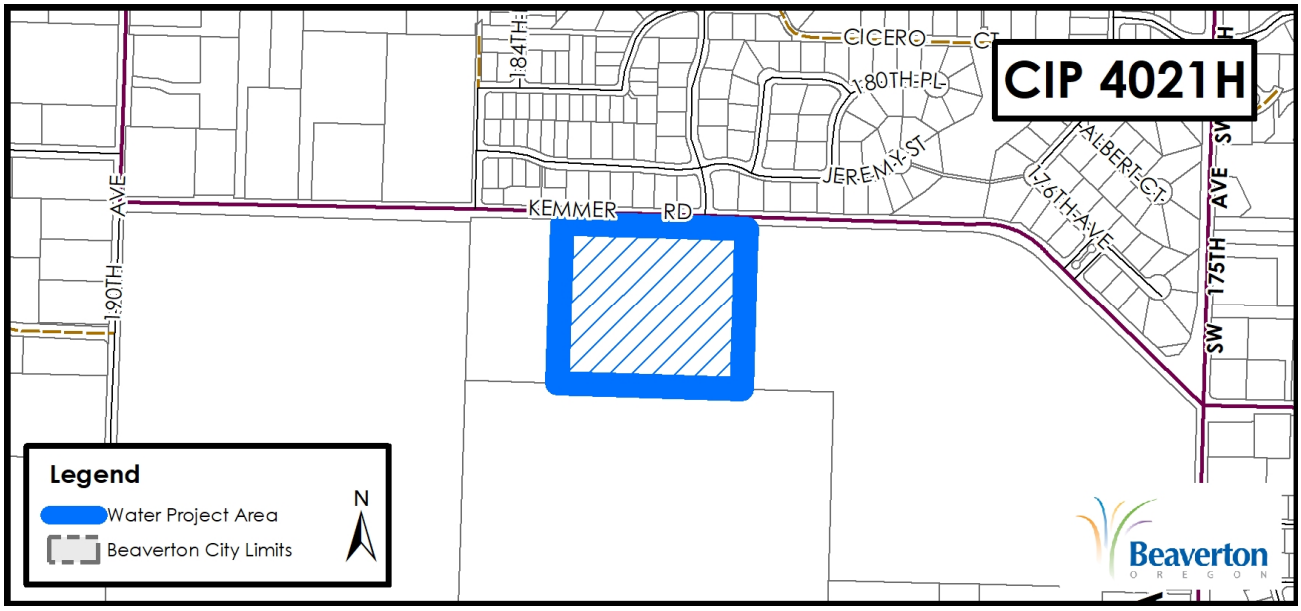
Estimated Project Cost: $4,000,000

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3620	Water Extra Capacity Supply	FY 2019/2020	$10,000
		FY Total	**$10,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4046

Project Name Lloyd St Waterline (TV Hwy - Henry St)

Project Description Install 450-ft of 8-in waterline on Lloyd St between Henry Ave and Canyon Rd.

Project Justification The existing 2-in on Lloyd St is undersized and needs to be replaced with an 8-in waterline to improve system looping and fireflow.

Project Status FY 19-20: Finalize Design

Project Manager David Winship

Estimated Date of Completion:

First Year Budgeted: FY2003

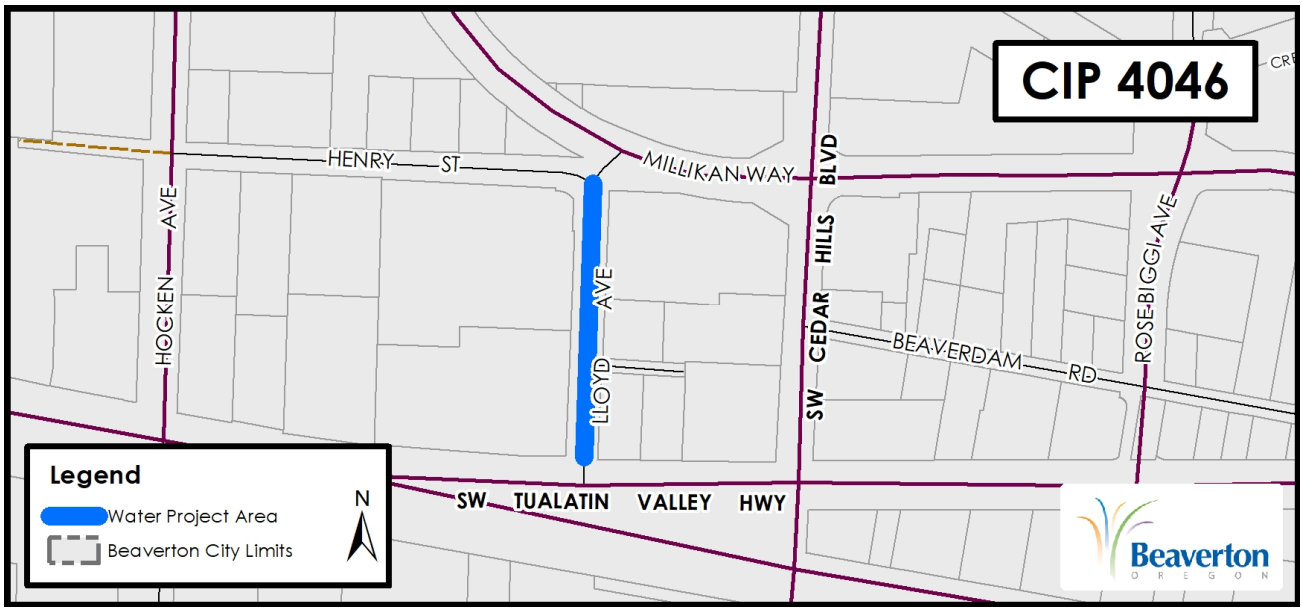
Estimated Project Cost: $0

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3620	Water Extra Capacity Supply	FY 2019/2020	$10,000
		FY Total	**$10,000**

Map:



Project Number 4051

Project Name Scoggins Dam Safety Modifications / Hagg Lake

Project Description The concept recommended by CWS and supported by the JWC, to reduce risk of earthquake induced damage to Scoggins Dam, is a new downstream roller-compacted concrete dam as a replacement of the existing Scoggins Dam. The downstream dam alternative would inundate the area currently occupied by Stimson Mill and a number of nearby homes and properties. Reclamation and CWS are coordinating with Stimson Lumber. Reclamation and CWS are working closely on this new concept with the other Tualatin Repayment Contractors—Tualatin Valley Irrigation District, and the Cities of Hillsboro, Beaverton and Forest Grove. The Principal Engineer is a member of the PMT, representing the JWC member agencies who have repayment contracts with Reclamation.

Since 1973, when the U.S. Bureau of Reclamation (Reclamation), was developing the Tualatin Project (Scoggins Dam, Hagg Lake), the City of Beaverton has been a direct municipal "repayment contractor" to Reclamation for 4,000 acre-feet (1.3 billion gallons) annually. Beaverton has two current contracts with Reclamation dating as far back as 1971. Completion of the Scoggins Dam construction occurred in 1975. During the summer, when drinking water demand is high and Tualatin River streamflow is low, Beaverton requests release of water from Hagg Lake (Scoggins Reservoir) and Barney Reservoir (formed behind a dam on the Trask River in the Coast Range) to compensate for the amount of water removed for Beaverton's summer use. Scoggins Dam is situated on Scoggins Creek creating Hagg Lake. Scoggins Dam/Hagg Lake is currently Beaverton's and Washington County's primary source of water in the summer and a central component to our region's water supply. Hagg Lake supports nearly 250,000 jobs, provides drinking water for more than 400,000 residents, irrigates 17,000 acres of cropland, provides important flood control and recreation opportunities, and sustains water quality in the Tualatin River to protect fish and wildlife habitat.

Project Justification Scoggins Dam has been classified by the US Bureau of Reclamation, owner of the dam, as one of the most seismically at-risk dams that Reclamation manages. This classification means that failure of the dam due to a large earthquake could result in significant property damage and loss of life to communities if it is not upgraded. Through local leadership from Clean Water Services and the JWC partners - Beaverton, Hillsboro, Forest Grove and the TVWD - continue to support the work to secure Scoggins Dam at the State and Federal level to reduce the risk of failure in a major earthquake in order to protect public safety, secure our region's water supply, and help meet future needs.

Project Status During FY 19-20, the Principal Engineer in the Public Works Department will continue to work in collaboratively with Clean Water Services and with Reclamation staff from the Boise and Denver federal offices on the Reclamation designated Project Management Team (PMT). The favored alternative supported by CWS and the JWC is a downstream roller-compacted concrete dam, which double the volume of Hagg Lake while leaving the lake level the same elevation as exists. The Principal Engineer is a member of the PMT, representing the JWC member agencies who have repayment contracts with Reclamation.

Project Manager David Winship

Estimated Date of Completion: **First Year Budgeted:** FY 2003/2004

Estimated Project Cost: $4,528,302 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3636	Scoggins Dam Raise	FY 2019/2020	$3,000
		FY Total	**$3,000**

City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number 4058A

Project Name Cooper Mountain Reservoir #2 (5.5 MG)

Project Description Install 5.5 million gallon Cooper Mountain Reservoir No. 2 to serve upper elevations of southwest Beaverton and install the remaining segments of 1750 LF of 24" diameter water main along SW Kemmer. Develop the existing ASR 7 well and a new ASR 7a well with a combined capacity of 2.3 million gallons per day. Develop and implement a building layout for an upper zone booster pump station. Develop preliminary design plans for a storage building that would house spare equipment and spare parts on site.

Project Justification An engineering consultant study in 2013 concluded that growth in water demand in the City's upper-elevation water service area will exceed the capacity of the existing 5.5 million gallon reservoir on Cooper Mountain (Cooper Mountain Reservoir No. 1). Approximately 15,000 of the total 70,000 residents served by Beaverton's water system receive drinking water from the existing upper-elevation water system and storage reservoir, Cooper Mountain No. 1. With the annexation of the 544-acre South Cooper Mountain area and growth in other upper-elevation areas of Beaverton, an estimated additional 21,500 people may be added to the City's upper elevation water service area by 2040. The Upper Zone pump station will be needed to serve higher elevations in the City's expanded service area (new 860 and 920 zones).

Project Status FY13-14: In 2013, the City's Public Work's engineering staff and a consultant completed an alternatives study of potential locations for a future water storage reservoir, which would store up to approximately 5 million gallons, located near the top of Cooper Mt (see CIP 4058). FY14-15: Completed siting evaluation. FY15-16 & FY16-17: Site selected (existing Cooper Mountain Reservoir site) and continue preliminary engineering. FY17-18: Continue preliminary engineering. FY18-19: Begin final design and land use permitting. FY 19-20: Complete final design and begin construction.

Project Manager Priya Dhanapal

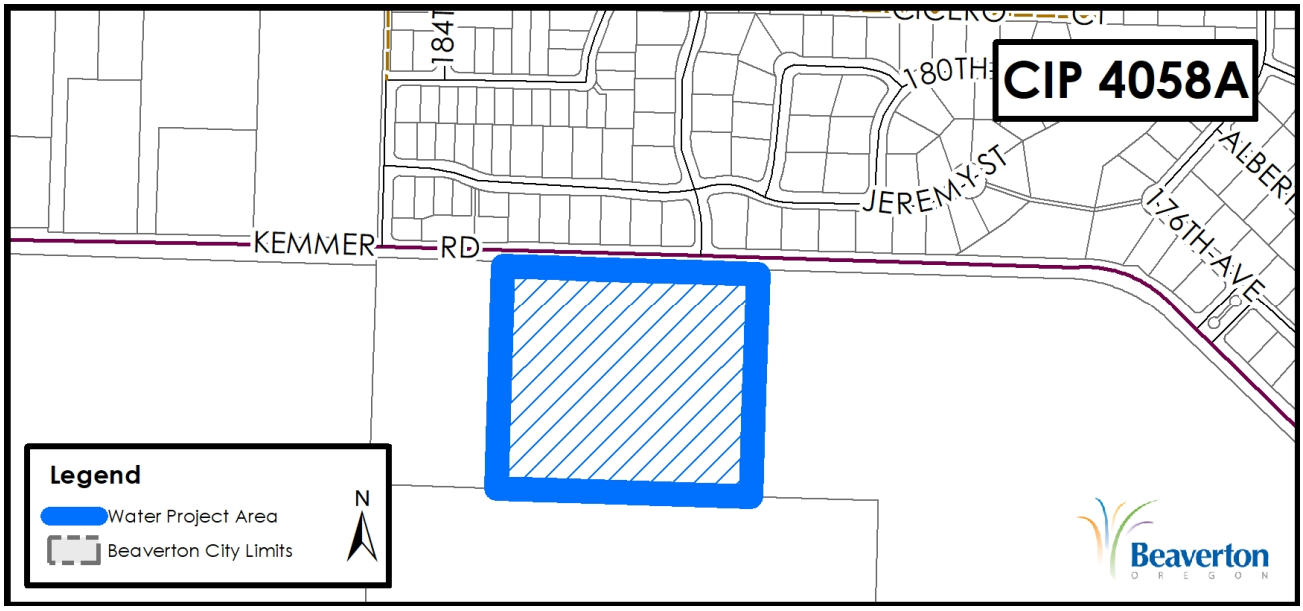
Estimated Date of Completion: **First Year Budgeted:** FY 2014/2015

Estimated Project Cost: $12,500,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3622	Cooper Mtn Reservoir& Transmission Line	FY 2019/2020	$4,500,000
		FY Total	**$4,500,000**

Map:


CIP 4058A
KEMMER RD
JEREMY ST
176TH AVE
Legend
Water Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4058B

Project Name Cooper Mountain Reservoir #3 (5.5 MG)

Project Description Develop a preliminary siting study for Cooper Mountain Reservoir No. 3 that will serve the 550 foot pressure zone and complete land acquisition. This future 550 foot pressure zone service area will include portions of the South Cooper Mountain (SCM) service areas and infill within the current 550 zone, Urban Reserve 6B, TVWD Area 3, and potential UGB expansion west of the SCM.

Project Justification The City anticipates that the urban infill within the 544 acres along the south slopes of Cooper Mountain and development of newly incorporated areas will increase water demands and need for additional water storage.

Project Status FY 18-19: Begin preliminary siting study. FY 19-20: Complete study and purchase property.

Project Manager Priya Dhanapal

Estimated Date of Completion:

First Year Budgeted: FY 2019/2020

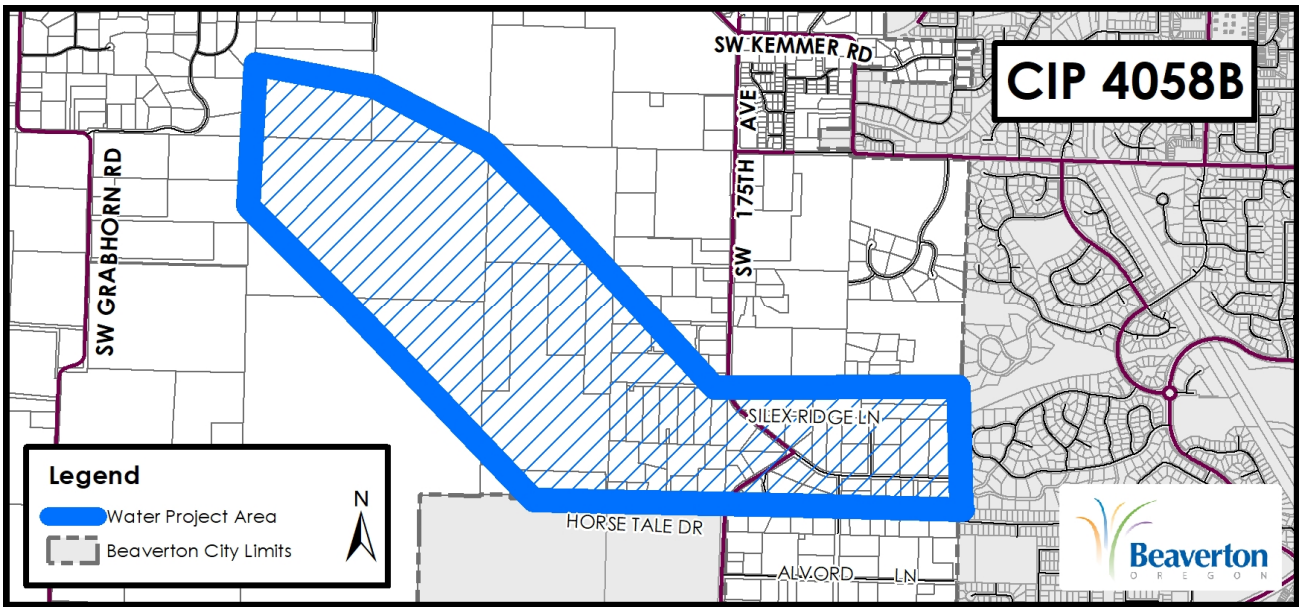
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3622	Cooper Mtn Reservoir& Transmission Line	FY 2019/2020	$1,020,000
		FY Total	**$1,020,000**

Map:



City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number 4060

Project Name Water System Vulnerability Assessment & Security Upgrades

Project Description Design and installation of security improvements at various water sites throughout the City.

Project Justification

Project Status

Project Manager Priya Dhanapal

Estimated Date of Completion:

First Year Budgeted: FY 2004/2005

Estimated Project Cost: $0

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3701	Water Improvements	FY 2019/2020	$50,000
3701	Water Improvements	FY 2019/2020	$50,000
		FY Total	**$100,000**

City of Beaverton
FY 2019/2020

Project Information

Water

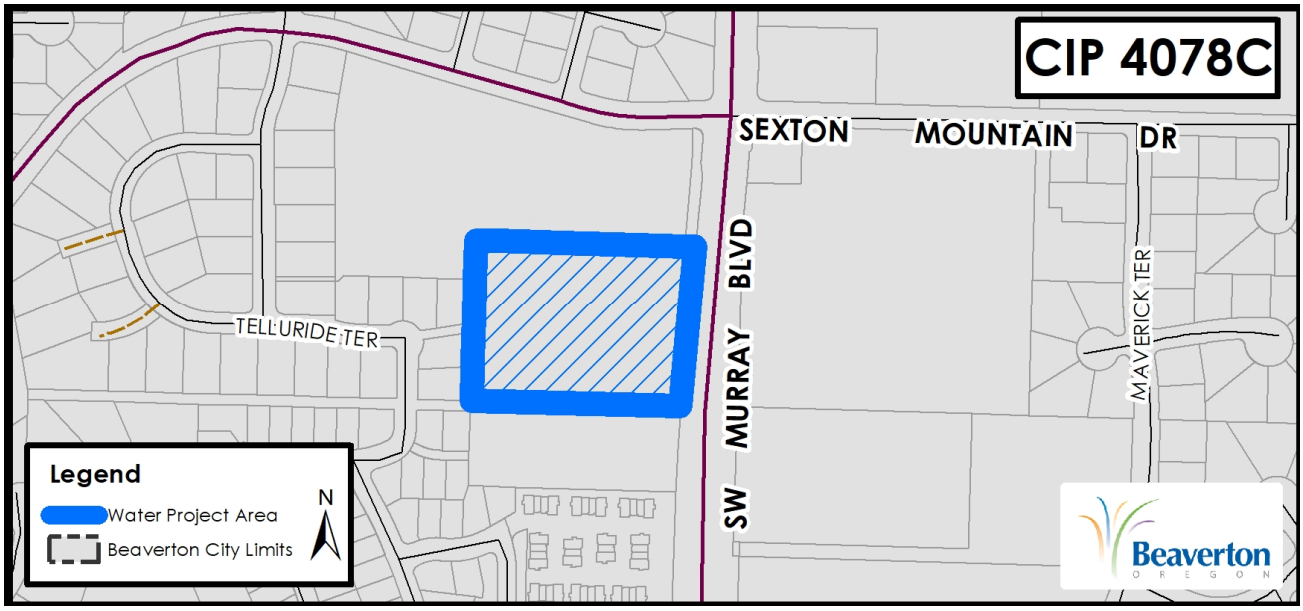
Project Number	4078C
Project Name	Sexton Mountain Pump Station Upgrade and Emergency Generator, Phase 3
Project Description	This project will provide emergency power generation capability at the Sexton Mountain pump station.
Project Justification	The Sexton Mountain pump station is the City's primary pump station and the only one capable of lifting water to the Cooper Mountain reservoir. The emergency power generation will provide a backup in case of the loss of primary power.
Project Status	FY17-18: Preliminary design system and specify new switch gear for connecting the emergency generator to the pump station's electrical system. FY18-19: Final design. FY 19-20: Install new switchgear and electrical improvements.
Project Manager	Sheila Sahu

Estimated Date of Completion:	June 2020	**First Year Budgeted:**	FY 2017/2018
Estimated Project Cost:	$330,000	**New Project:**	No

Funding Data:

Fund No.	Fund Name	FY	Amount
3701	Water Improvements	FY 2019/2020	$130,000
		FY Total	**$130,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4107

Project Name Meridian Pump Station Replacement

Project Description The existing pump station and controls are housed in an underground vault with access limitations. The Meridian Pump Station replacement includes installing new larger capacity pumps, telemetry, controls, and relocated pump station building.

Project Justification The original pump station was constructed in 1990 and much of the associated equipment is at the end of its useful life. Replacing the pump station will increase pump efficiency, reduce energy costs, and provide flexibility in filling water system reservoirs serving various pressure zones. In addition, relocating the pump station equipment to an aboveground structure will reduce maintenance costs and improve staff access to a structure that is currently rated as a confined space entry. The reconstructed pump station will serve some portion of the South Cooper Mountain expansion and may be called on to serve some portion of the Tigard expansion.

Project Status FY15-16: Began preliminary pump station design. FY16-17: Completed land use and preliminary pump station design. FY18-19: Completed ROW water line design and construction; final pump station design. FY19-20: Complete pump station construction.

Project Manager Sheila Sahu

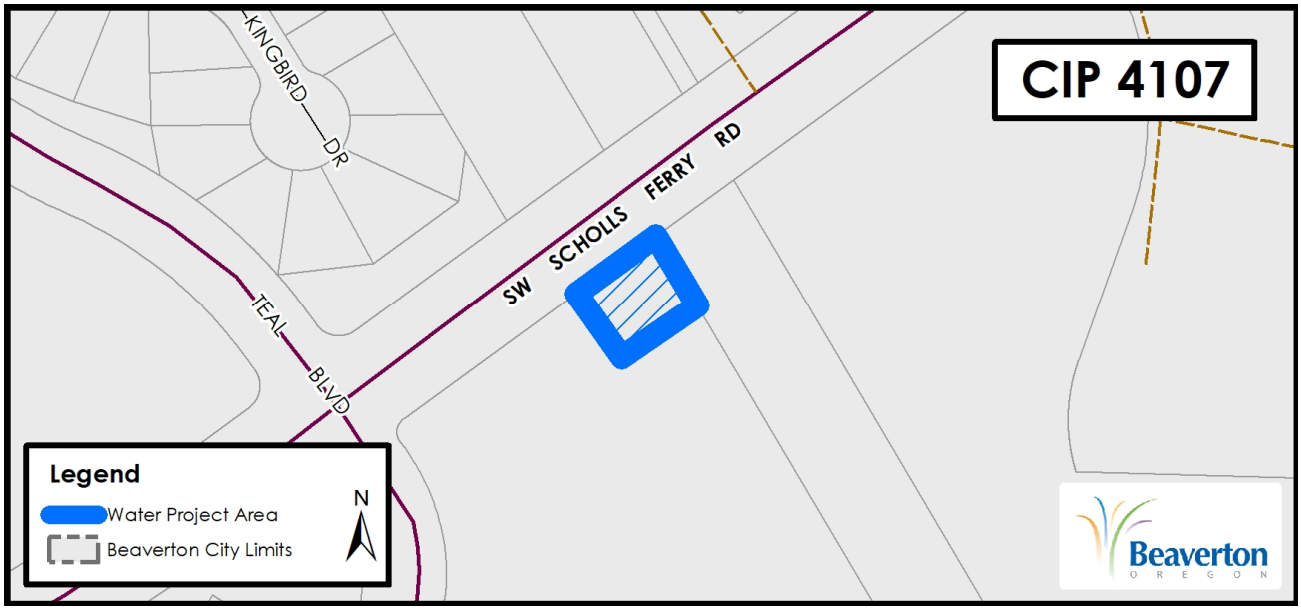
Estimated Date of Completion: March 2020 **First Year Budgeted:** FY 2013/2014

Estimated Project Cost: $4,000,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3631	Meridian Pump Station Replacement, Bonded	FY 2019/2020	$3,560,000
		FY Total	**$3,560,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4111

Project Name Hyland Area Waterline Replacements

Project Description Replacement of 3,100 feet of 2-inch, 4-inch, and 6-inch water mainline and water service lines in the Hyland Way neighborhood.

Project Justification The existing cast iron water mainlines and their associated services are at the end of their useful life. City Forces have identified this project as a high priority. All pipes in the project area are susceptible to main breaks and must be replaced. The scope of this project increased due to the frequency of maintenance issues in the area.

Project Status FY16-17: Begin design. FY17-18: Continue design. CIP 4112 has been combined with CIP 4111. The scope of this project increased due to the frequency of maintenance issues in the area. FY18-19: Complete design and construction.

Project Manager Aaron Lee

Estimated Date of Completion:

First Year Budgeted: FY 2014/2015

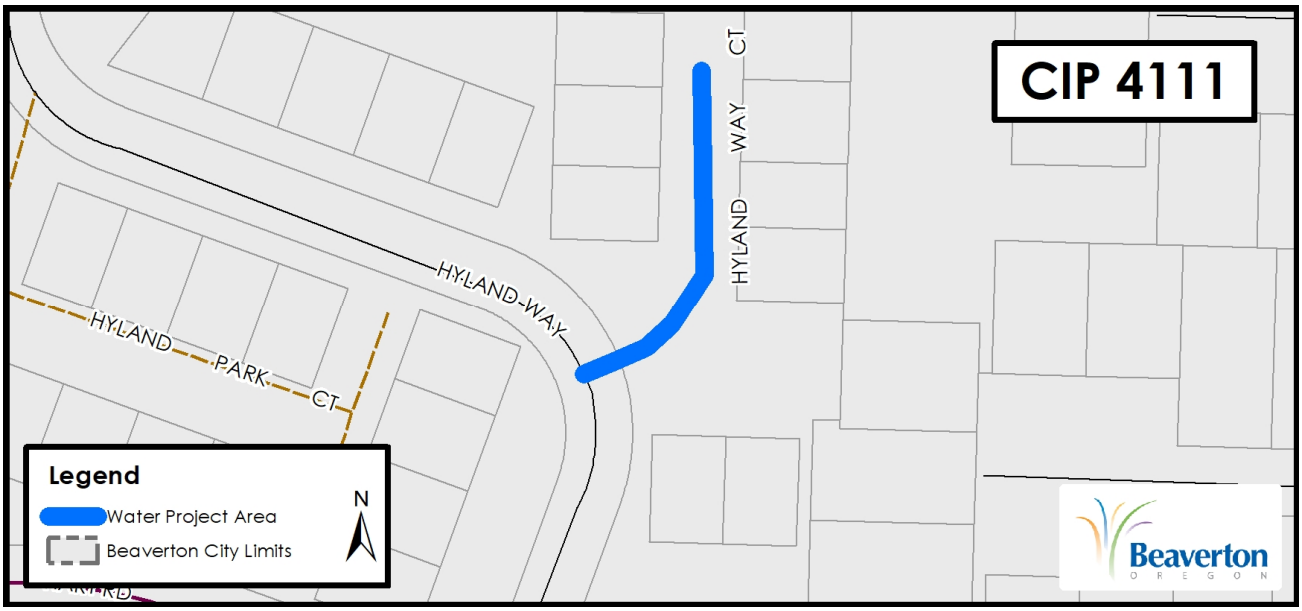
Estimated Project Cost: $850,000

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3701	Water Improvements	FY 2019/2020	$22,500
		FY Total	**$22,500**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4120

Project Name Taralynn Ave (Allen Blvd - EOP) Waterline Replacement

Project Description Replace 520 feet of 4-inch and 500 feet of 6-inch waterline with 6-inch and 8-inch ductile iron pipe from Allen Blvd to end of cul-de-sac.

Project Justification The existing waterline has experienced numerous main breaks in the past few years. The old waterline is in need of replacement. Soil samples indicated the presence of iron-eating bacteria so zinc coated ductile iron pipe and copper services with zinc anodes are recommended as a replacement material. City Water Forces have rated this waterline a priority replacement project.

Project Status 12-30-14: Design by staff is 50% complete. FY 15-16: Continue design. FY16-17: Project on hold due to groundwater contamination found near Allen Blvd and Taralynn Ave. FY17-18: No work. FY18-19: No work. FY 19-20: Project design to be finalized and waterline constructed in conjunction with the Erikson Trunk sewer project.

Project Manager Geoff Hunsaker

Estimated Date of Completion:

First Year Budgeted: FY 2014/2015

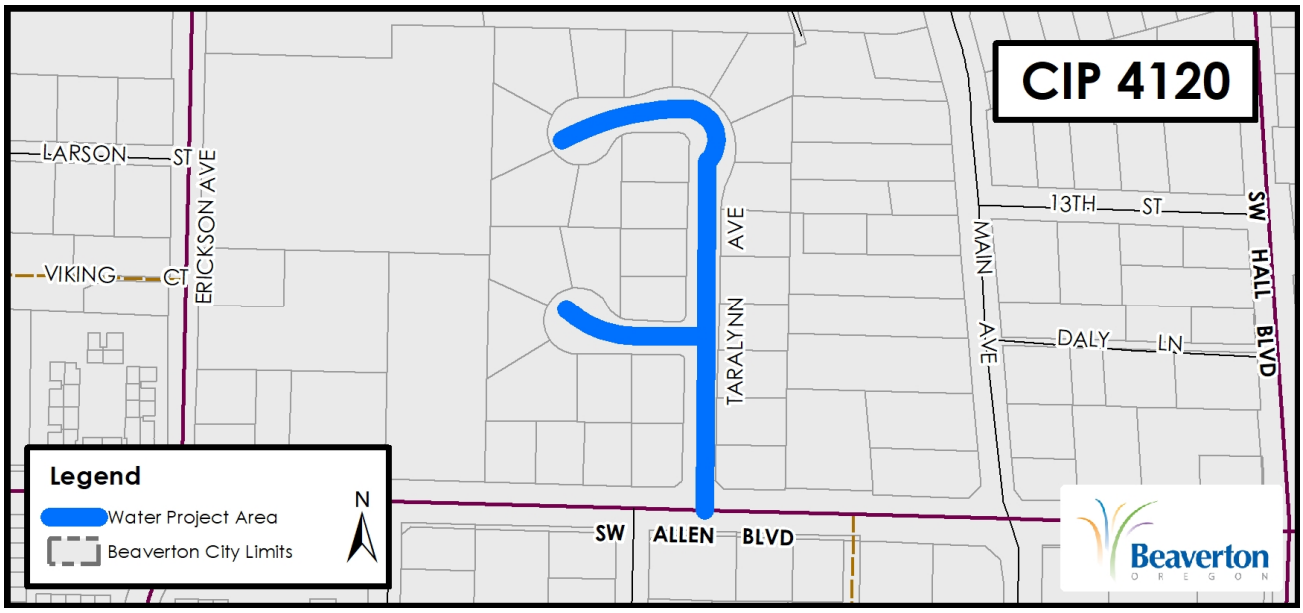
Estimated Project Cost: $250,000

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3701	Water Improvements	FY 2019/2020	$210,000
		FY Total	**$210,000**

Map:



City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number	4123
Project Name	Barlow Ct 6-Inch Waterline
Project Description	Construct 1400 feet of 6-inch waterline from Barlow Rd to Barlow Rd.
Project Justification	The existing water main is made of cast iron pipe and was constructed in 1967. This water main has experienced numerous breaks in recent years. Corrosive native soils have contributed to a much shorter useful life of the water pipe and fittings. Water Operations staff have rated this waterline a top priority replacement project.
Project Status	March 2019: OTAK contracted to perform topographic survey. FY19/20: Design and Construction
Project Manager	Aaron Lee

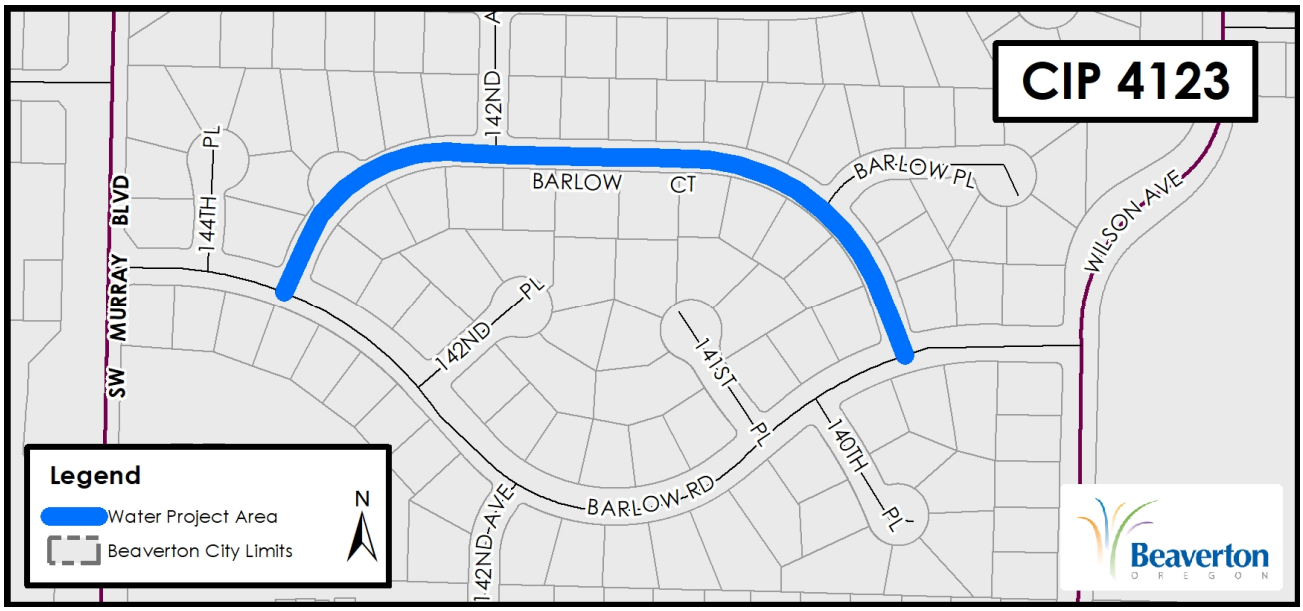
Estimated Date of Completion:	December 2020	**First Year Budgeted:**	FY 2019/2020
Estimated Project Cost:	$400,000	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount

This project will be requesting funding through supplemental budget.

Map:



Project Number 4126

Project Name Willamette Water Supply System (WWSP)

Project Description The Willamette Water Supply Program (WWSP) was formed by the Tualatin Valley Water District (TVWD) and the City of Hillsboro to manage the engineering and construction for the delivery of the complete Willamette Water Supply System (WWSS). The WWSS is a $1.2 billion drinking water infrastructure program that will provide the owners with a seismically resilient water supply system using the mid-Willamette River at Wilsonville. The system is designed to meet future demand and will provide redundancy water supply source in case of an emergency event. WWSP pipeline construction began in 2016. The system is scheduled to be fully operational in 2026. The WWSS includes more than 30 miles of transmission pipelines, ranging from 36-inches to 66- inches in diameter from the Willamette River Water Treatment Plant (WRWTP) in Wilsonville, north to and Beaverton Hillsboro, terminating at the intersection of Cornelius Pass Road and Hwy 26. The WWSS will also include finished water storage reservoirs (terminal storage), a new water treatment plant, and expansion of the existing WRWTP raw water facilities. For additional history and background information about the program and its projects online: OurReliableWater.org. The long term financial commitment to the Willamette Water Supply Program in total is estimated at approximately $75 million for a total capacity of 5 mgd, which is expected to be operational by 2026.
Additional information on the WWSP can be found at http://www.ourreliablewater.org

Project Justification As part of the decision to join the WWSP, an important contributing factor considered by the Mayor and City Council considered in the decision was that in March 2014, the City secured a significant Willamette River water right permit, from the Oregon Water Resources Department, that allows indefinite use of 22 million gallons per day of raw water from the Willamette River. The Willamette River water right permit paves the way for the City to use that water as a source for eventual treated drinking water, once the WWSP is completed as planned in 2026. The City also needs additional water supply in the future, as the existing JWC water supply source reaches capacity over the next 25 years with new growth. The new source will contribute up to 5 mgd and allow the expansion of added ASR-well capacity for winter injection and storage of drinking water in deep underground basalt aquifers.

Project Status FY17-18: City becomes a partner in the construction of the water intake facility in Wilsonville. FY 19-20: City becomes a partner in the WWSP.

Project Manager David Winship, Geoff Hunsaker

Estimated Date of Completion:

First Year Budgeted: FY 2015/2016

Estimated Project Cost: $0

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3646	WWSP - Treatmeant, STR, Trasmission	FY 2019/2020	$11,720,000
		FY Total	**$11,720,000**

City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number 4134

Project Name PRV Improvements at Davies Rd/Brockman Rd and Weir Rd/158th Ave

Project Description Add telemetry to existing pressure reducing valve (PRV) vault at the Davies Rd and Brockman Rd intersection that separates the 490 and 525 pressures zones. Install a new PRV vault with telemetry on Weir Rd near 158th Ave that will replace three PRV vaults that separate the 675 and 550 pressure zones.

Project Justification Adding telemetry to the existing PRV at the Davies Rd and Brockman Rd intersection will allow for better service to residents, improved fire protection, and the ability to more accurately and promptly diagnose leakage between the 490 and 525 pressure zones. The PRV will be remotely operated from a City water system computer. Replacing three aging PRVs with a single PRV with telemetry on Weir Rd will allow for better service, reduce maintenance costs and allow for more monitoring on the growing 550 pressure zone.

Project Status FY16-17: Began preliminary design in Aug 2016. FY17-18: Continued design. FY18-19: Completed design and began construction. FY 19-20 Complete Construction.

Project Manager Geoff Hunsaker

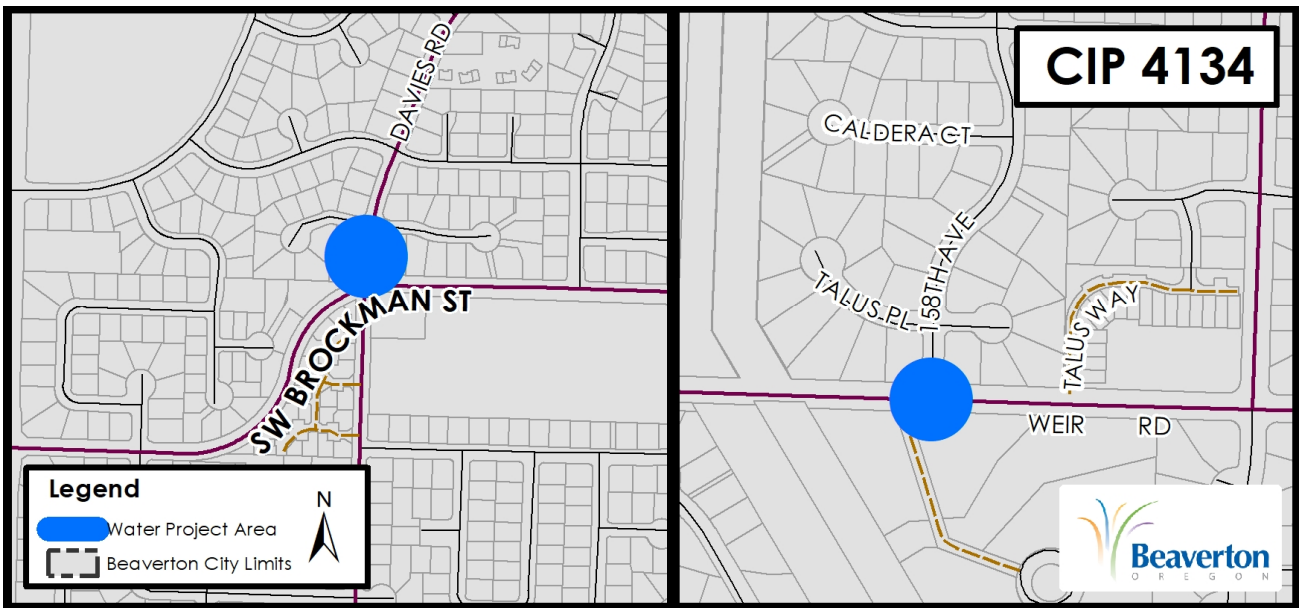
Estimated Date of Completion: October 2019 **First Year Budgeted:** FY 2015/2016

Estimated Project Cost: $280,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3701	Water Improvements	FY 2019/2020	$265,000
		FY Total	**$265,000**

Map:



City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number	4135
Project Name	Griffith Dr 8-Inch Waterline
Project Description	Construct 3100 feet of 8-inch waterline along complete loop of Griffith Dr.
Project Justification	The existing water main is made of cast iron pipe and was constructed in 1976. This water main has experienced numerous breaks in recent years. Water Operations staff have rated this waterline a top priority replacement project.
Project Status	FY18/19: Consultant to begin design.
Project Manager	Aaron Lee

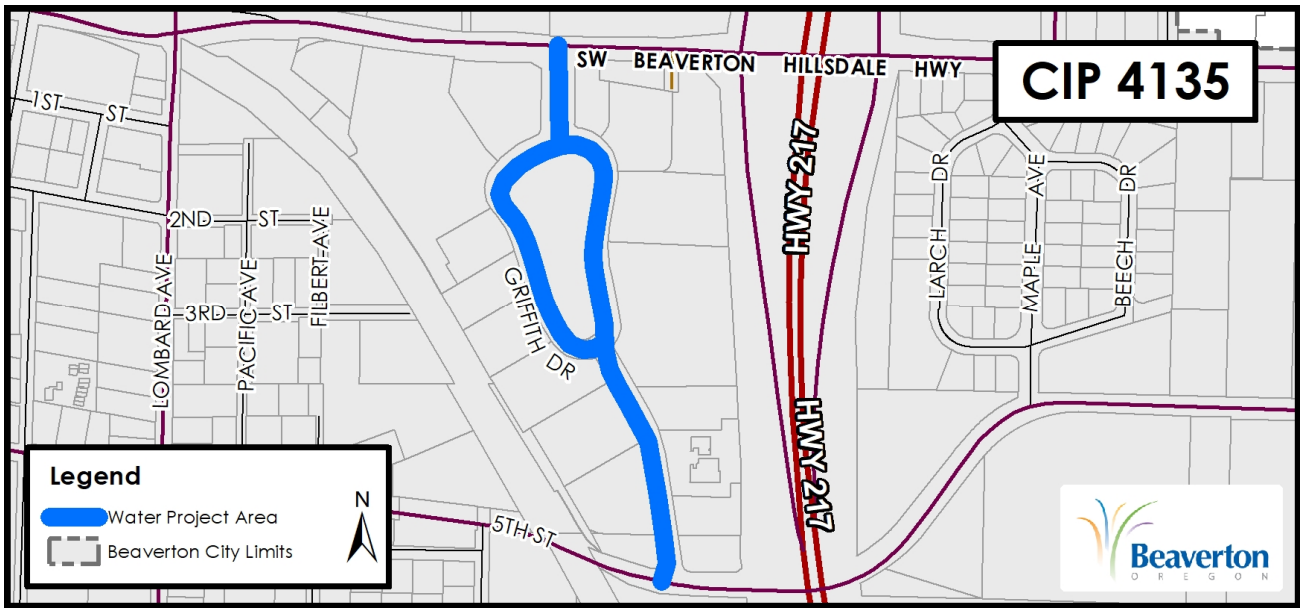
Estimated Date of Completion:	December 2020	**First Year Budgeted:**	FY 2019/2020
Estimated Project Cost:	$900,000	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount

This project will be requesting funding through supplemental budget.

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4141

Project Name WWSP Intertie at Cornelius Pass Rd & TV Hwy

Project Description Install an intertie with the Willamette Water Supply (WWSP) transmission pipe. Construction prior to WASHCO 209th Ave/234th Ave and TV Hwy Intersection Improvements project to avoid conflicting construction.

Project Justification Installation of intertie connection with WWSP is necessary to provide redundancy to City water supply in case of emergency and add capacity to the system supply structure.

Project Status FY17-18: Coordination with WWSP staff concerning project design. City staff to contribute to design as necessary. FY18-19: Complete design and bid the construction. FY10-20 continue and complete construction of intertie.

Project Manager Alan Johansson

Estimated Date of Completion:

First Year Budgeted: FY 2017/2018

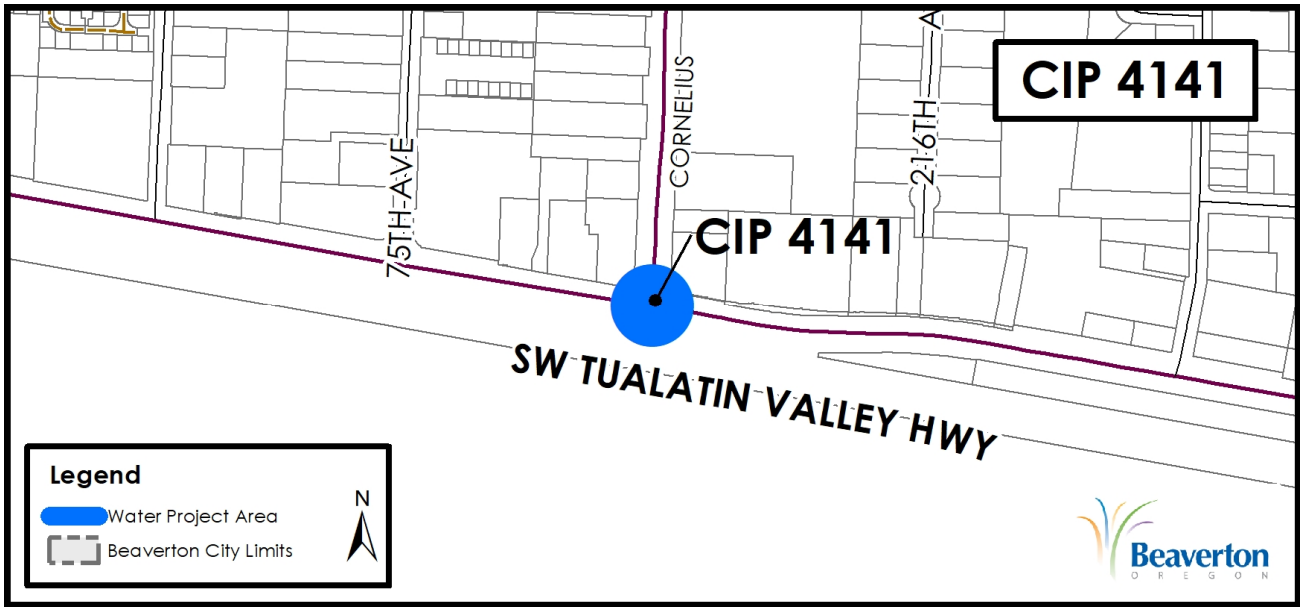
Estimated Project Cost: $3,500,000

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3645	Willamette Water System Intertie, Bonded	FY 2019/2020	$3,100,000
		FY Total	**$3,100,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4142

Project Name WWSP Intertie and Pump Station at Tile Flat Rd

Project Description Install an intertie with the Willamette Water Supply Pipeline (WWSP) transmission line. Construct a pump station and fluoride station that will supply water to the Cooper Mountain Reservoirs which benefit the entire City water system.

Project Justification Installation of the intertie, pump station, and fluoride station is necessary to provide redundancy to the City Water supply in case of emergency and meet future water demands.

Project Status FY 19-20: Begin design and negotiate purchase of property where pump station and fluoride station will be located.

Project Manager Geoff Hunsaker

Estimated Date of Completion: December 2026 **First Year Budgeted:** FY 2019/2020

Estimated Project Cost: $5,000,000 **New Project:** Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3645	Willamette Water System Intertie, Bonded	FY 2019/2020	$750,000
		FY Total	**$750,000**

Map:

City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number 4143

Project Name JWC North Transmission Line (NTL) Intertie and Transmission Line

Project Description The NTL Intertie project will construct a new transmission main (24" or 30") that connects to the existing JWC NTL line, near the intersection of US 26 and NE Cornelius Pass Road, to the City owned South Transmission Line (STL) at SW Shaw Street and SW 170th Avenue. The proposed alignment would likely extend along NW Evergreen Parkway, sections of Walker Road, and SW 173rd and 170th Avenues and is anticipated to be constructed in four separate phases. Two of the four phases coincide with planned MSTIP County projects on Walker Road, CIP 5088B (Walker Road - Schendel to Butner) and CIP 5105 (Walker Road - 185th to 173rd). The project may take 5-10 years to fully implement, with initial project phases being driven by County road improvement projects. Grant funding could potentially accelerate the overall project schedule.

Project Justification The City only has a single primary water supply line, the South Transmission Line, located on SW Shaw Street just south of TV Highway. If the existing STL (which is not built to current seismic standards) was out of service due to an emergency at the JWC Plant, or a seismic event, the City would not have a back up supply line. The NTL Intertie Project would provide a secondary water supply line for redundancy, and would also be more reliable and resilient since it would be built to current seismic standards. In addition to redundancy and reliability benefits, the NTL intertie would also provide a direct water supply to portions of TVWD Area 4 (Waterhouse area). The NTL Intertie and TVWD Withdrawal Projects are both considered City Council Thumbs Up Projects.

Project Status FY 18-19: Begin preliminary design and alternatives evaluation, including potential grant funding opportunities. FY 19-20: Finish preliminary design (including evaluation of route alternatives).

Project Manager Brion Barnett

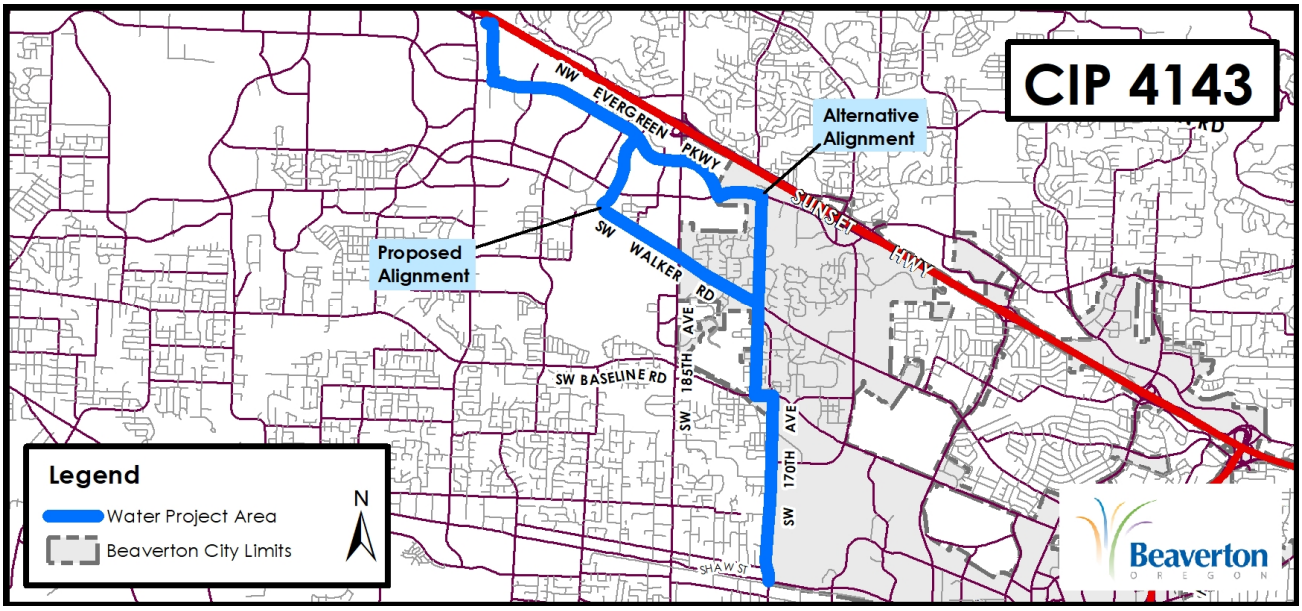
Estimated Date of Completion: March 2027 **First Year Budgeted:** FY 2019/2020

Estimated Project Cost: $20,000,000 **New Project:** Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3645	Willamette Water System Intertie, Bonded	FY 2019/2020	$500,000
		FY Total	**$500,000**

Map:


CIP 4143
Alternative Alignment
Proposed Alignment
NW EVERGREEN PKWY
SUNSET HWY
SW WALKER RD
SW 185TH AVE
SW BASELINE RD
SW 170TH AVE
SHAW ST
Legend
Water Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number	4144
Project Name	Spirea (Cherryhill Dr - Fischer) & Cherryhill Dr (Wilson - 20th/Azalea Ct) Waterline Replacement
Project Description	400 LF of 6-inch and 1400 LF of 8-inch respectively
Project Justification	The existing water main is made of cast iron pipe and was constructed in 1975. This water main has experienced numerous breaks in recent years. Water Operations staff have rated this waterline a top priority replacement project.
Project Status	March 2019: OTAK contracted to perform topographic survey.
Project Manager	Aaron Lee

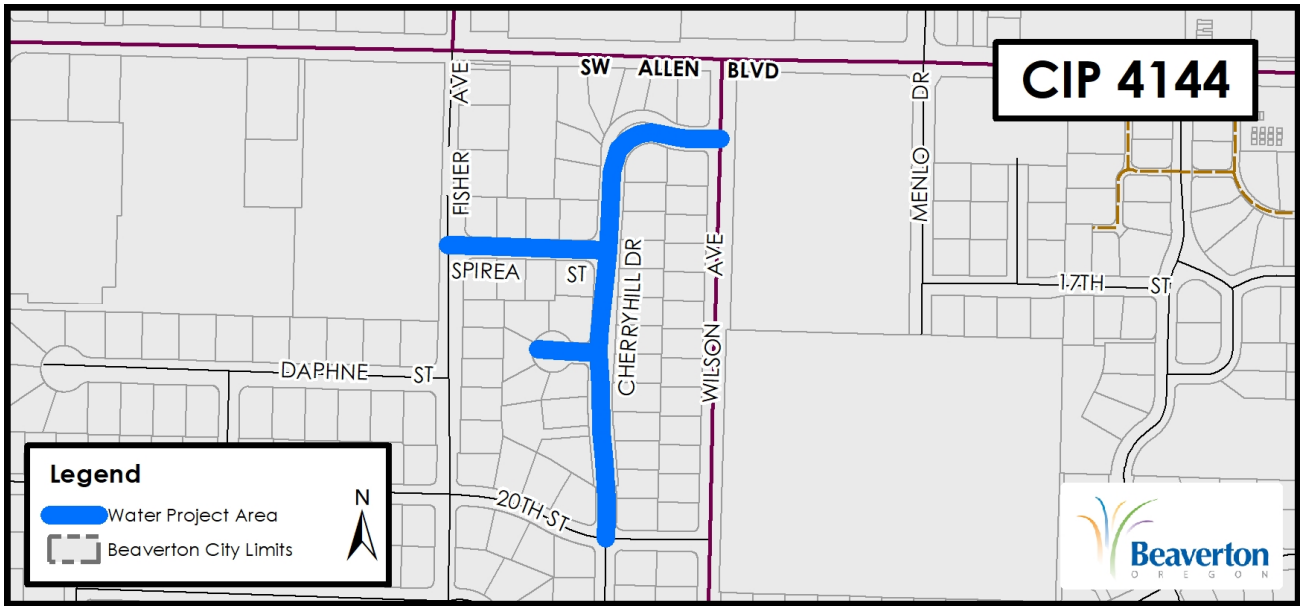
Estimated Date of Completion:	December 2020	**First Year Budgeted:**	FY 2019/2020
Estimated Project Cost:	$900,000	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount

This project will be requesting funding through supplemental budget.

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4151A

Project Name 175th Transmission Main 24-Inch Winkleman Park to Alvord Ln

Project Description Install 4,800 LF of 24-inch diameter water main on SW 175th Ave between Winkleman Park and Alvord Lane as shown along the alignment highlighted below. This project will be done in conjunction with the installation of the 16-inch diameter water main on SW Weir Road between SW 173rd and SW 165th.

Project Justification This project is a part of the improvements that will occur in conjunction with the new Cooper Mountain Reservoir No.2 and associated improvements that will primarily serve the 550 foot and 675 foot upper pressure zones to meet this South Cooper Mountain area's rapidly growing water needs.

Project Status FY 18-19: Complete design, bidding, and begin construction. FY 19-20: Complete construction of waterline.

Project Manager Priya Dhanapal

Estimated Date of Completion:

First Year Budgeted: FY 2018/2019

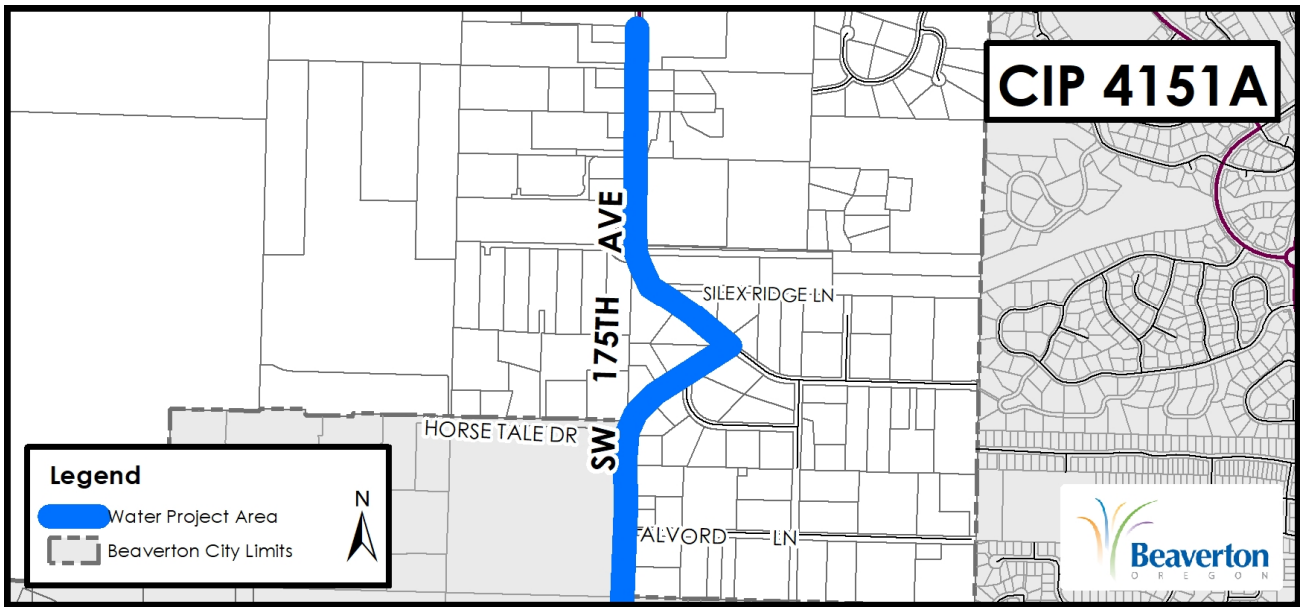
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3622	Cooper Mtn Reservoir& Transmission Line	FY 2019/2020	$3,750,000
		FY Total	**$3,750,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4151B

Project Name Weir Rd 16-Inch Transmission Line 173rd to 165th Ave

Project Description Install 1,600 LF extension of 16-inch diameter water main on SW Weir Road between SW 173rd to SW 165th Ave as shown along the alignment highlighted below. This project will be done in conjunction with the installation of the 24-inch diameter water main on SW 175th.

Project Justification This project is a part of the improvements that will occur in conjunction with the new Cooper Mountain Reservoir No.2 and associated improvements that will primarily serve the 550 foot and 675 foot upper pressure zones to meet this South Cooper Mountain area's rapidly growing water needs.

Project Status FY 18-19: Complete design, bidding, and begin construction. FY 19-20: Complete construction of waterline.

Project Manager Priya Dhanapal

Estimated Date of Completion:

First Year Budgeted: FY 2018/2019

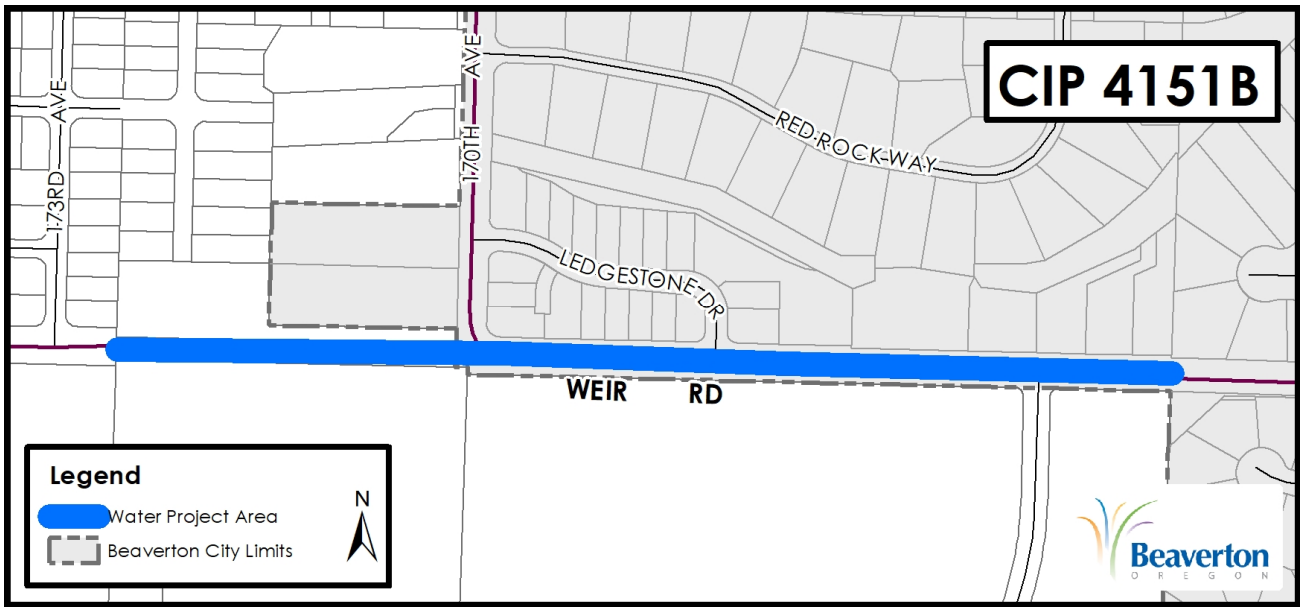
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3622	Cooper Mtn Reservoir& Transmission Line	FY 2019/2020	$1,250,000
		FY Total	**$1,250,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4152

Project Name Chestnut Pl (BH Hwy-Cypress St) 8-Inch Waterline Replacement

Project Description Replace existing waterline with 1100 feet of 8-inch ductile iron pipe and associated hydrants and water services.

Project Justification The replacement of the existing waterline is needed due to age and condition and to improve fire protection in the area.

Project Status Feb 2018: Emerio Design completed topo.
Jan 2019: Staff competed design.
Mar 2019: Project advertised for bid.

Project Manager Aaron Lee

Estimated Date of Completion: December 2020 **First Year Budgeted:** FY 2017/2018

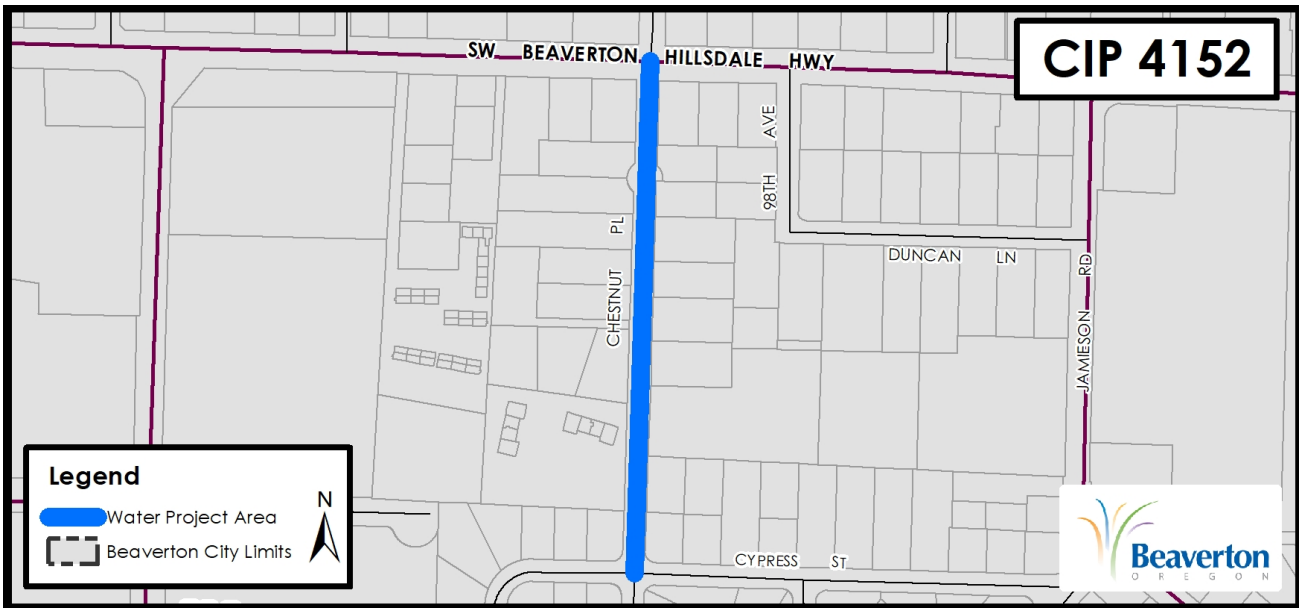
Estimated Project Cost: $330,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount

This project will be requesting funding through supplemental budget.

Map:



Project Number 4155

Project Name Willamette Water Intake Facilities (WIF)

Project Description

During FY 17-18, an IGA was finalized and agreed upon by the partners of a future Willamette River "Water Intake Facility" Commission. On March 20, 2018, Beaverton's City Council held a public hearing and then proceeded reading of an ordinance authorizing the Mayor to sign an agreement to enter the Willamette River – Water Intake Facilities project as a financial partner. During FY 18-19, the City will be negotiating an additional IGA with TVWD and City of Hillsboro to become a financial partner in the Willamette Water Supply Program, which is the larger part of the overall Willamette River supply system.

The WIF IGA concerns the joint ownership, management and operation of the Willamette Intake Facilities (WIF). The WIF include "the fish screens, intake pipe, caisson, pump station building, and other jointly owned equipment" used to convey raw water from the Willamette River to a collection point where it can then be conveyed to water treatment plants. The parties to the proposed IGA are the cities of Wilsonville, Sherwood, Hillsboro, Tigard and Beaverton. The length of the offered agreement is perpetual, but a Party may withdraw from the agreement pursuant to its terms. The proposed IGA would create a new intergovernmental entity to be known as the Willamette Intake Facilities Commission (the "Commission"). The Commission would own and manage the WIF in order to enable the Parties to draw water from the Willamette River through the intake facility.

Project Justification

The City has a certificated water right, dating back to 1980 on the Tualatin River as the main source of the City's treated drinking water from the JWC. The existing certificated water right in the Tualatin River allows withdrawals of up to 16 million gallons per day from the Tualatin River between October and June of each year. As part of the decision to join the WWSP, an important contributing factor considered by the Mayor and City Council in the decision was that in March 2014, the City secured a significant Willamette River water right permit from the Oregon Water Resources Department, that allows indefinite use of 22 million gallons per day of raw water from the Willamette River. The Willamette River water right would add a new source available to City for growth and as a permanent water supply diversity that would provide protection during drought years and/or if the Tualatin River were contaminated or rendered unusable, or if Scoggins Dam becomes unavailable as a summer stored raw water source. Also, the City's existing surface water right on the Tualatin River will not provide enough wintertime capacity in the beyond about the year 2045 to meet the City's water needs. A new permanent water supply is vital to the City's future.

The Willamette River water right permit paves the way for the City to use that water as a source for eventual treated drinking water, once the WWSP is completed as planned in 2026. The City also needs additional water supply in the future, as the existing JWC water supply source reaches capacity over the next 25 years with new growth. The new source will contribute up to 5 mgd and allow the expansion of added ASR-well capacity for winter injection and storage of drinking water in deep underground basalt aquifers.

Project Status

Project Manager David Winship

Estimated Date of Completion:

First Year Budgeted: FY 2018/2019

Estimated Project Cost: $0

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3643	Willamette Water Supply Intake, Bonded	FY 2019/2020	$44,000
		FY Total	**$44,000**

City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4158

Project Name AMI/Fixed Base Automated Meter Reading Infrastructure for South Cooper Mountain

Project Description FY 19-20: Design and Install of the AMI antenna and testing program

Project Justification

Project Status The City owns and maintains meters that are used to measure water usage by residential, commercial, public, and industrial customers. A majority of the City's meters are read by a contract meter reader, Tualatin Valley Water District (TVWD) on a per meter cost basis. The remaining meters are read manually by City staff. Automating the meter reading process will result in reduction in contract meter reading costs, improve efficiency and customer service, as well, as reduction in the number of special reads: leak checks, move in/out, meter checks, re-reads and other miscellaneous reads.

Project Manager David Winship, Priya Dhanapal

Estimated Date of Completion:

First Year Budgeted: FY 2019/2020

Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3625	South Cooper Mountain Extra Capacity Water	FY 2019/2020	$50,000
		FY Total	**$50,000**

Project Number 4159

Project Name TVWD Withdrawal Area - Program Management

Project Description Staff management of a consultant team acting as a Program Manager to help oversee and manage the City's Water Service Transfer Program (Program), which is the transfer and separation of water service for customers currently being serviced water by the Tualatin Valley Water District (TVWD). These withdrawn customers are identified in service Areas 2-6 in the February 2018 IGA between the City and TVWD. The services that will be provided by the consultant team generally include planning for needed improvements to supply the withdrawal areas, preparing transfer and separation plans, and implementing the identified improvements necessary to service the withdrawal areas, including performing preliminary engineering, and design management and construction contract management.

Project Justification The City Council have expressed strong interest in seeing the City serve water to as many City residents as possible. In 2017, the City and TVWD began working together on a new water service area agreement. The agreement was executed in 2018 and continues until June 30, 2057. On July 1, 2018, water service for approximately 4,100 TVWD customers was transferred to the City. The new agreement provides a broad outline of how the City and TVWD will work together administratively, but the details of how our respective agencies would physically operate and maintain withdrawn assets in the field must be determined. City staff doesn't have the capacity to lead this work, so a consultant was brought on to assist the City by providing expertise in the area and also act as an extension of staff to help manage the project and coordinate as necessary with TVWD staff.

Project Status FY 18-19: Consultant retained as Withdrawal Program Manager, evaluation of assets, draft Operations and Maintenance Procedures complete, begin cost benefit analysis, wheeling water in Areas 2-6 will be complete by May 2019, new City Council action to withdraw additional areas. FY 19-20: Continued program management, cost benefit analysis, evaluate options to serve withdrawn areas directly.

Project Manager Brion Barnett

Estimated Date of Completion: June 2022 **First Year Budgeted:** FY 2018/2019

Estimated Project Cost: $3,000,000 **New Project:** Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3627	Withdrawal of Areas from TVWD, Bonded	FY 2019/2020	$880,000
		FY Total	**$880,000**

City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4161

Project Name Area 6 - Denney Road Crossing at HWY 217th - Replacement of 400 LF with 12" Waterline Upsizing

Project Description Install 350-ft of 12-in waterline across Denney Rd to replace an existing 10-in waterline.

Project Justification The existing 10-in waterline that was constructed in 1979 is undersized and at the end of its useful life.

Project Status FY 19-20: Begin preliminary design and site investigation.

Project Manager Aaron Lee

Estimated Date of Completion:

First Year Budgeted: FY 2019/2020

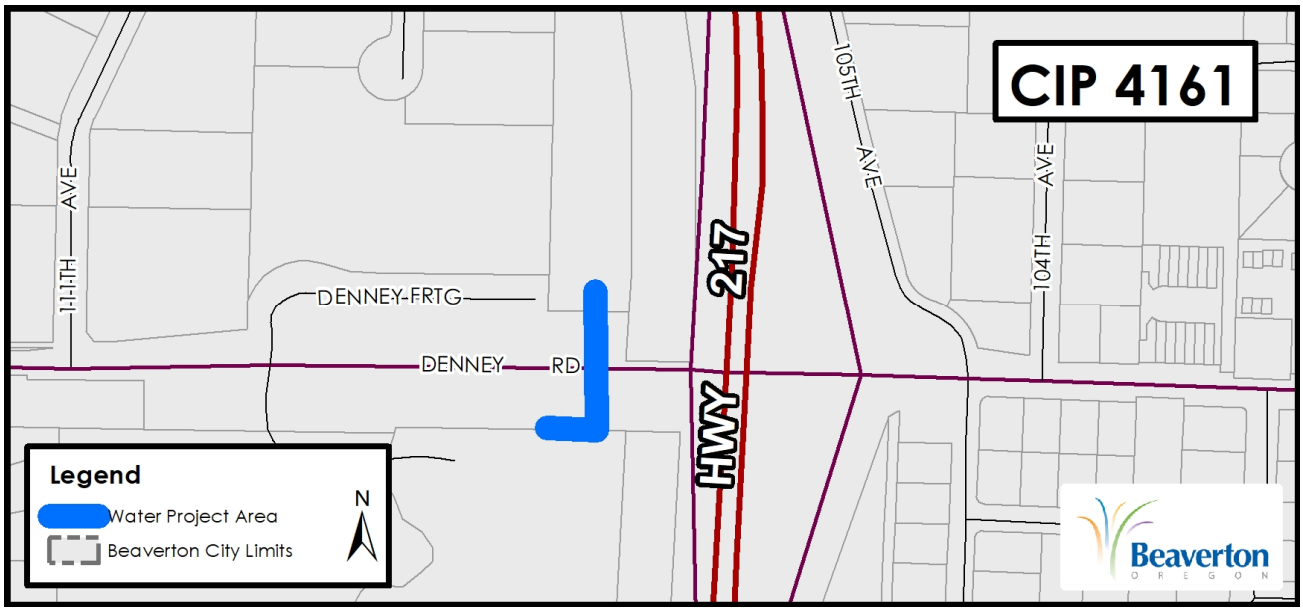
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3620	Water Extra Capacity Supply	FY 2019/2020	$10,000
		FY Total	**$10,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number	4168
Project Name	Electric Ave 8-Inch Waterline Loop
Project Description	Install approximately 265 feet of 8-inch waterline on Electric Ave from 139th Ave to 335 feet east of 139th Ave.
Project Justification	Improve water quality by looping the water network to increase circulation in the vicinity. Also increase firefighting capacity by interconnecting waterlines to supply water to the local area from two directions rather than a single dead end on Electric Avenue.
Project Status	FY18/19: 12-11-18 Project initiated by D. Winship. FY 19/20: Complete design and construction.
Project Manager	David Winship

Estimated Date of Completion:

First Year Budgeted: FY 2018/2019

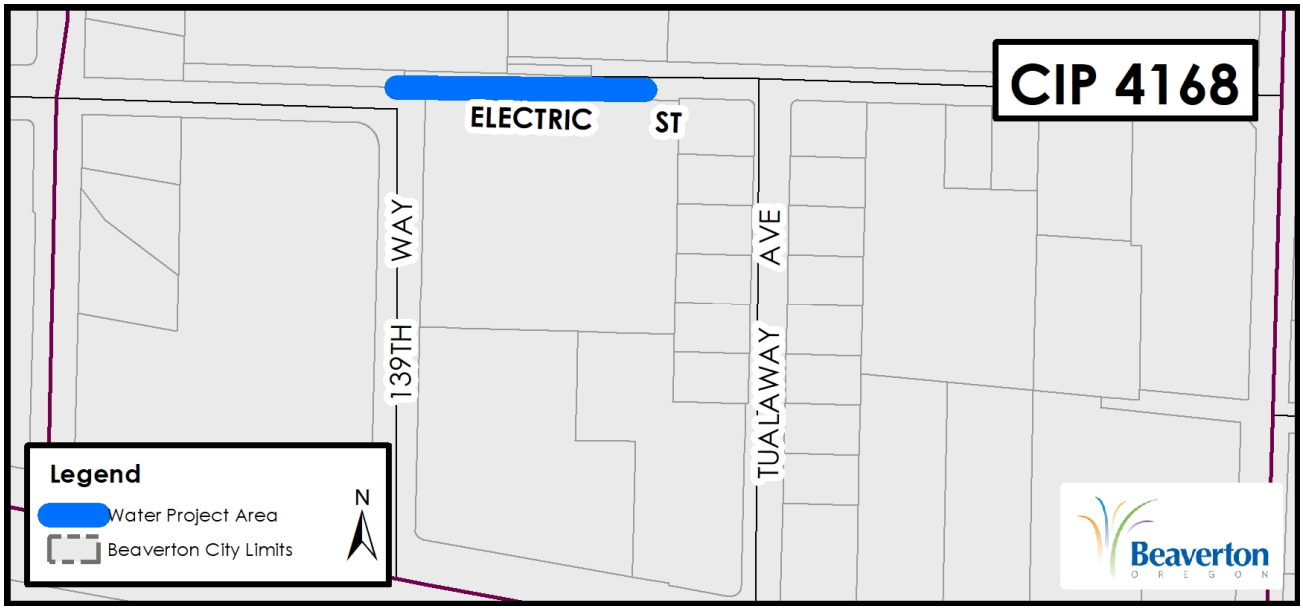
Estimated Project Cost: $124,000

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3620	Water Extra Capacity Supply	FY 2019/2020	$110,000
		FY Total	**$110,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

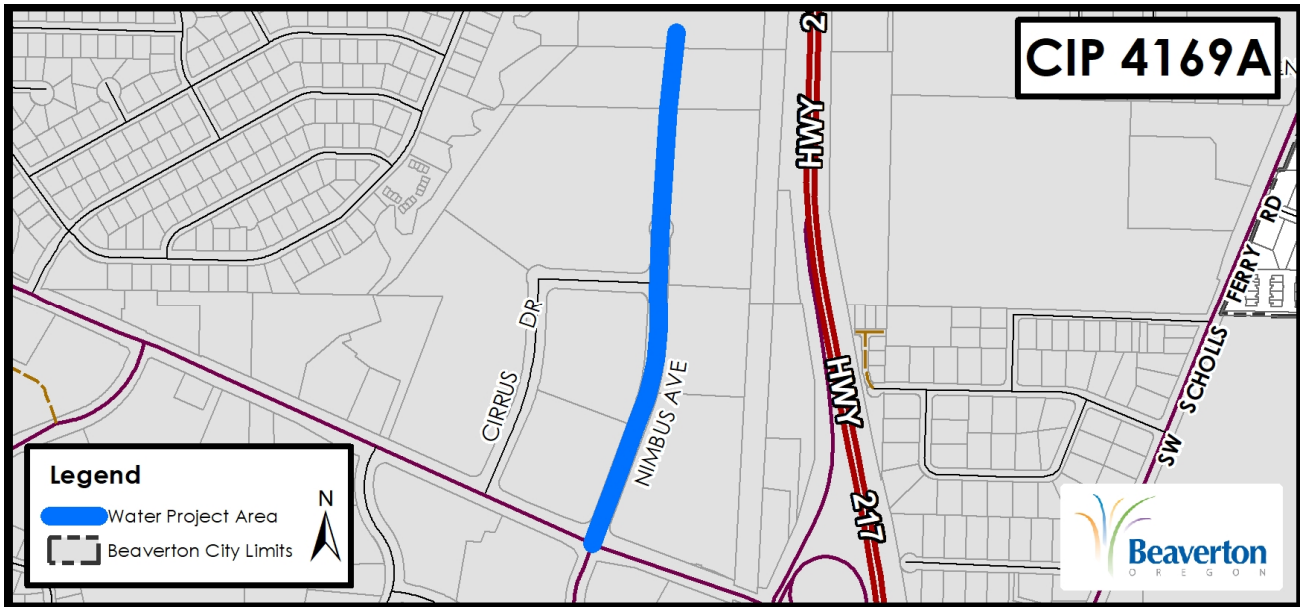
Project Number	4169A
Project Name	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - Phase 1
Project Description	Replace existing waterline with approximately 2200 feet of 6-inch, 8-inch, and 12-inch ductile iron pipe and associated hydrants, water, and fire services.
Project Justification	The existing water main is made of cast iron pipe and was constructed in 1975. This water main has experienced numerous breaks in recent years. Corrosive native soils have contributed to a much shorter useful life of the water pipe and fittings. Water Operations staff have rated this waterline a top priority replacement project.
Project Status	FY19/20: Conceptual design and layout begins, topographic survey work performed.
Project Manager	Aaron Lee

Estimated Date of Completion:	December 2020	**First Year Budgeted:**	FY 2019/2020
Estimated Project Cost:	$690,000	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3701	Water Improvements	FY 2019/2020	$640,000
		FY Total	**$640,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

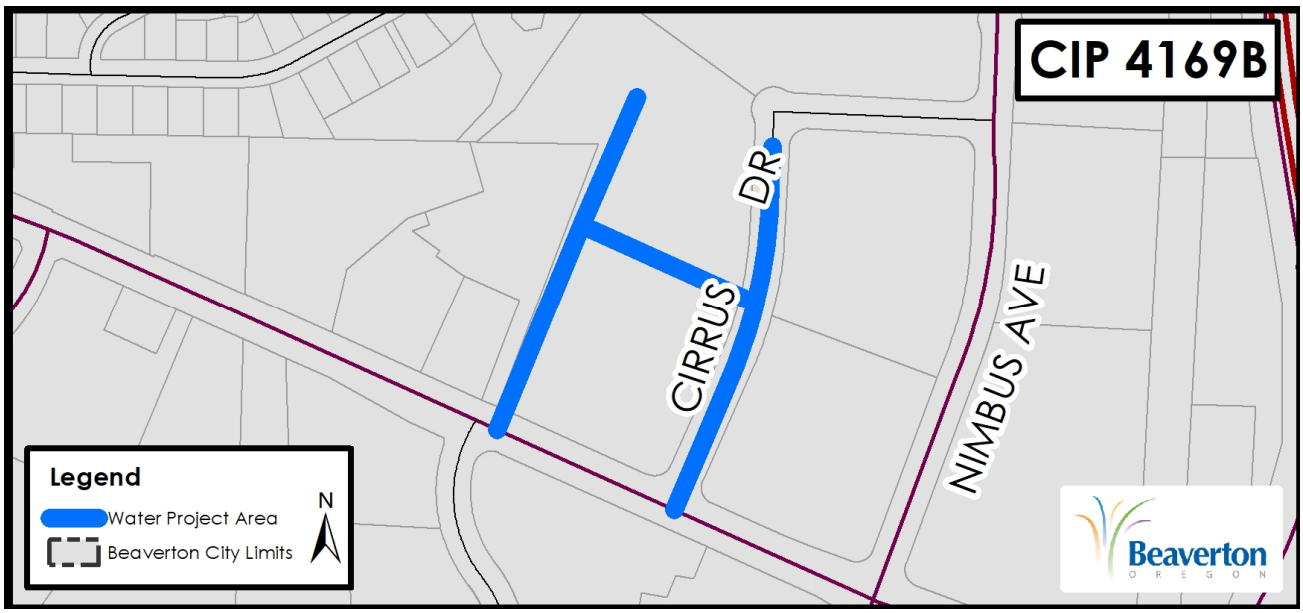
Project Number	4169B
Project Name	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - Phase 2
Project Description	Replace existing waterline with approximately 2200 feet of 6-inch, 8-inch, and 12-inch ductile iron pipe and associated hydrants, water, and fire services.
Project Justification	The existing water main is made of cast iron pipe and was constructed in 1975. This water main has experienced numerous breaks in recent years. Corrosive native soils have contributed to a much shorter useful life of the water pipe and fittings. Water Operations staff have rated this waterline a top priority replacement project.
Project Status	FY19/20: Topographic survey to be performed.
Project Manager	Aaron Lee

Estimated Date of Completion:	December 2021	**First Year Budgeted:**	FY 2019/2020
Estimated Project Cost:	$690,000	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3701	Water Improvements	FY 2019/2020	$30,000
		FY Total	**$30,000**

Map:



City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number	4169C
Project Name	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - Phase 3
Project Description	Replace existing waterline with approximately 2200 feet of 6-inch, 8-inch, and 12-inch ductile iron pipe and associated hydrants, water, and fire services.
Project Justification	The existing water main is made of cast iron pipe and was constructed in 1975. This water main has experienced numerous breaks in recent years. Corrosive native soils have contributed to a much shorter useful life of the water pipe and fittings. Water Operations staff have rated this waterline a top priority replacement project.
Project Status	FY19/20: Topographic survey to be performed.
Project Manager	Aaron Lee

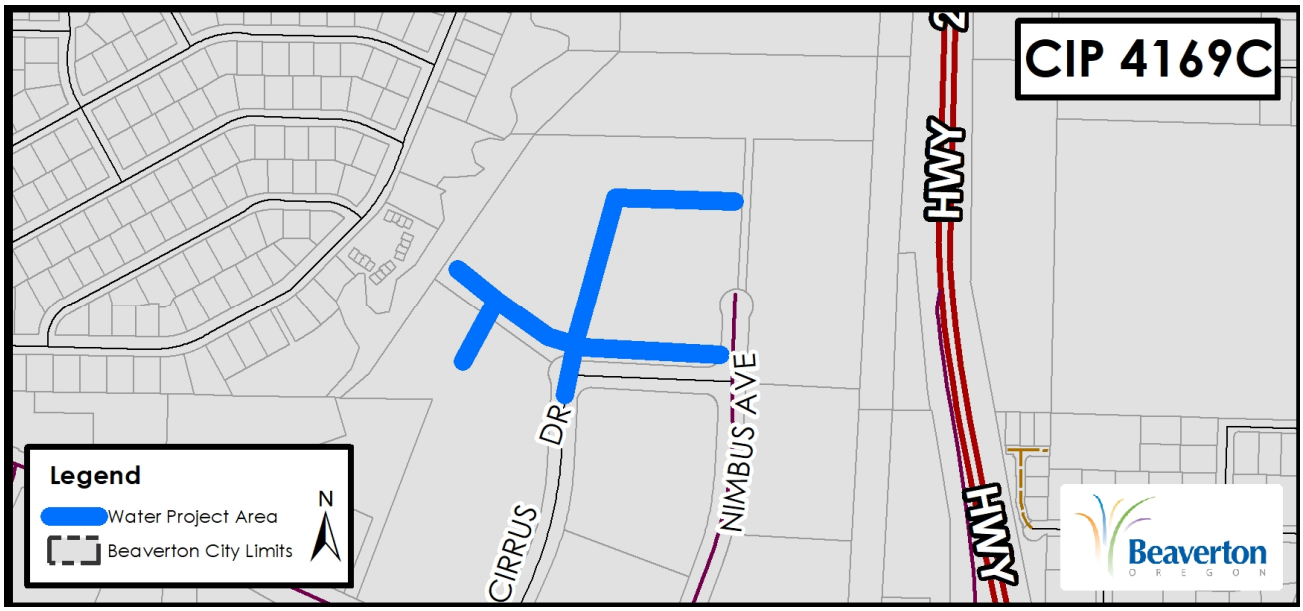
Estimated Date of Completion:	December 2022	**First Year Budgeted:**	FY 2019/2020
Estimated Project Cost:	$690,000	**New Project:**	Yes

Funding Data:

Fund No.	Fund Name	FY	Amount

This project will be requesting funding through supplemental budget.

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4171

Project Name Master Meter (Schendel/Walker)

Project Description Installation of a master meter connection between the TVWD and City of Beaverton potable water systems.

Project Justification

Project Status FY 19-20: Install the master meter.

Project Manager David Winship

Estimated Date of Completion:

First Year Budgeted: FY 2018/2019

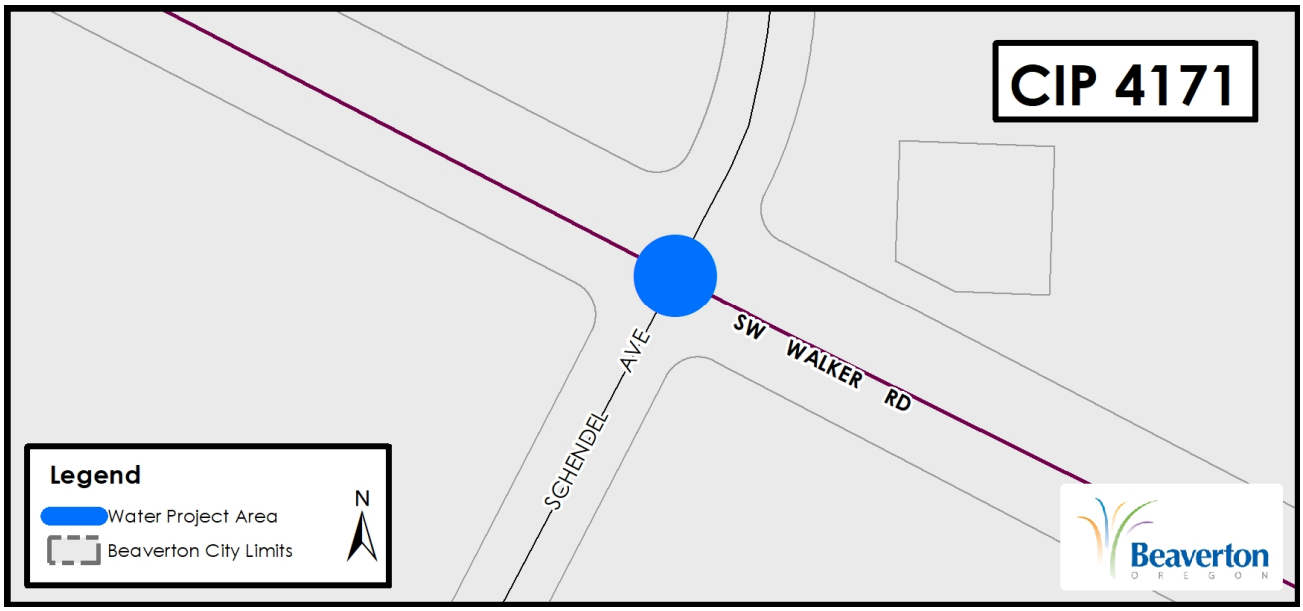
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3627	Withdrawal of Areas from TVWD, Bonded	FY 2019/2020	$150,000
		FY Total	**$150,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4172

Project Name Metzger East Pipeline - Scholls Ferry Rd, Nimbus Ave to Allen Blvd (TVWD Opportunity Project)

Project Description Install 9,000-ft of 16-in waterline.

Project Justification TVWD will be installing a 48-inch waterline connection to the WWSP that will provide water to their Metzger service area and provide a secondary feed to their Wolf Creek service area. The City plans to install a parallel 16-in waterline that will provide looping and resiliency to TVWD withdrawal Area 6 and the eastern edge of the City's existing water system. Constructing the two project simultaneously will provide cost savings and reduce construction impacts to City residents.

Project Status FY 19-20: Begin coordination with TVWD and engineering design.

Project Manager David Winship

Estimated Date of Completion:

First Year Budgeted: FY 2019/2020

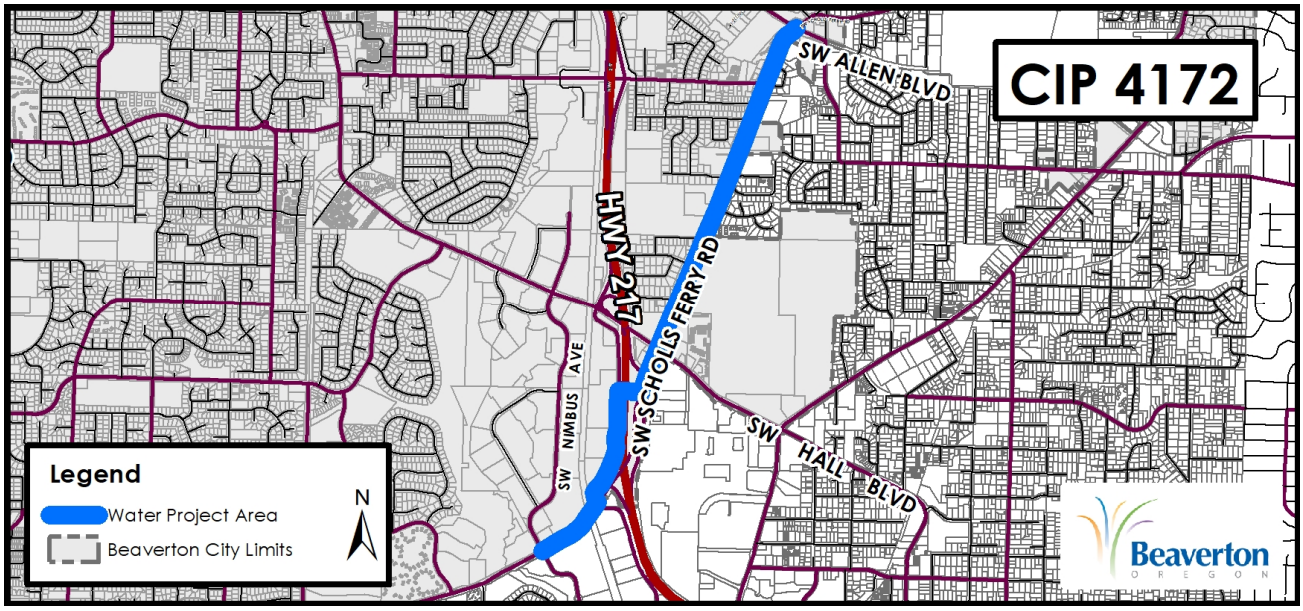
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3628	TVWD Opportunity Projects	FY 2019/2020	$100,000
		FY Total	**$100,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4173

Project Name WWSP - SW Allen Blvd (WWSP - SW Allen Blvd)

Project Description Install 3,000-ft of 16-in waterline

Project Justification TVWD will be installing a 48-inch waterline connection to the WWSP that will provide water to their Metzger service area and provide a secondary feed to their Wolf Creek service area. The City plans to install a parallel 16-in waterline that will provide looping and resiliency to TVWD withdrawal Area 6 and the eastern edge of the City's existing water system. Constructing the two project simultaneously will provide cost savings and reduce impacts to City residents.

Project Status FY 19-20: Begin TVWD coordination and engineering design.

Project Manager David Winship

Estimated Date of Completion:

First Year Budgeted: FY 2019/2020

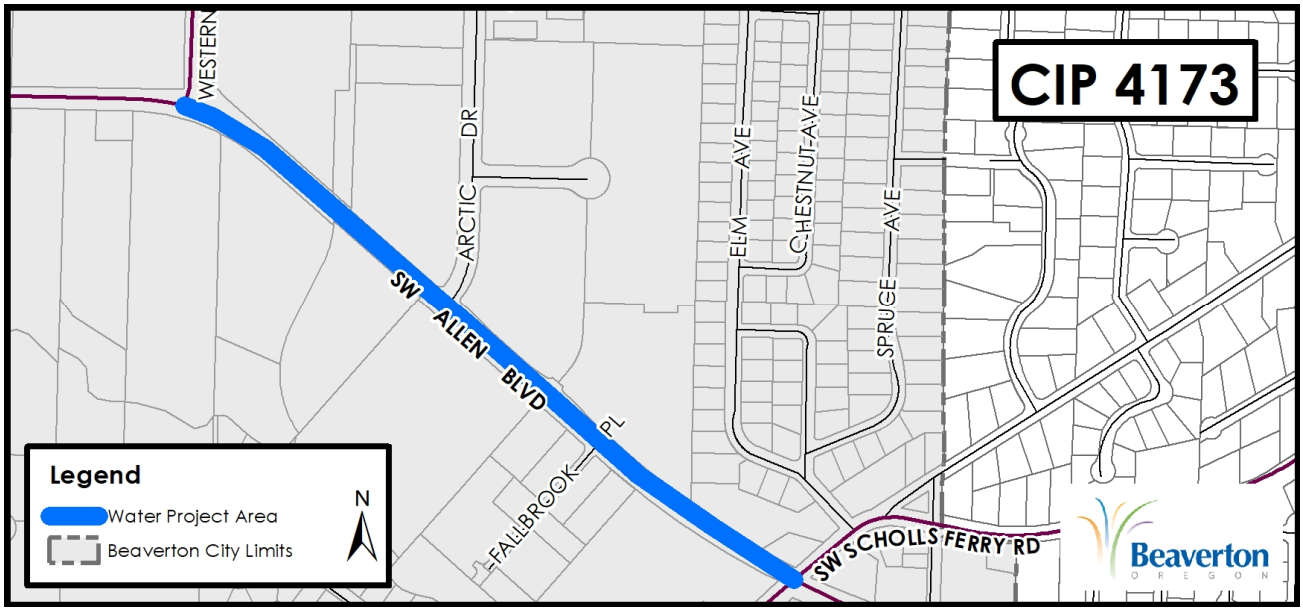
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3628	TVWD Opportunity Projects	FY 2019/2020	$75,000
		FY Total	**$75,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4174

Project Name WWSP - SW Western Ave (TVWD Opportunity Project)

Project Description Install 3,500-ft of 16-in waterline.

Project Justification TVWD will be installing a 48-inch waterline connection to the WWSP that will provide water to their Metzger service area and provide a secondary feed to their Wolf Creek service area. The City plans to install a parallel 16-in waterline that will provide looping and resiliency to TVWD withdrawal Area 6 and the eastern edge of the City's existing water system. Constructing the two project simultaneously will provide cost savings and reduce impacts to City residents.

Project Status FY 19-20: Begin TVWD coordination and engineering design.

Project Manager David Winship

Estimated Date of Completion:

First Year Budgeted: FY 2019/2020

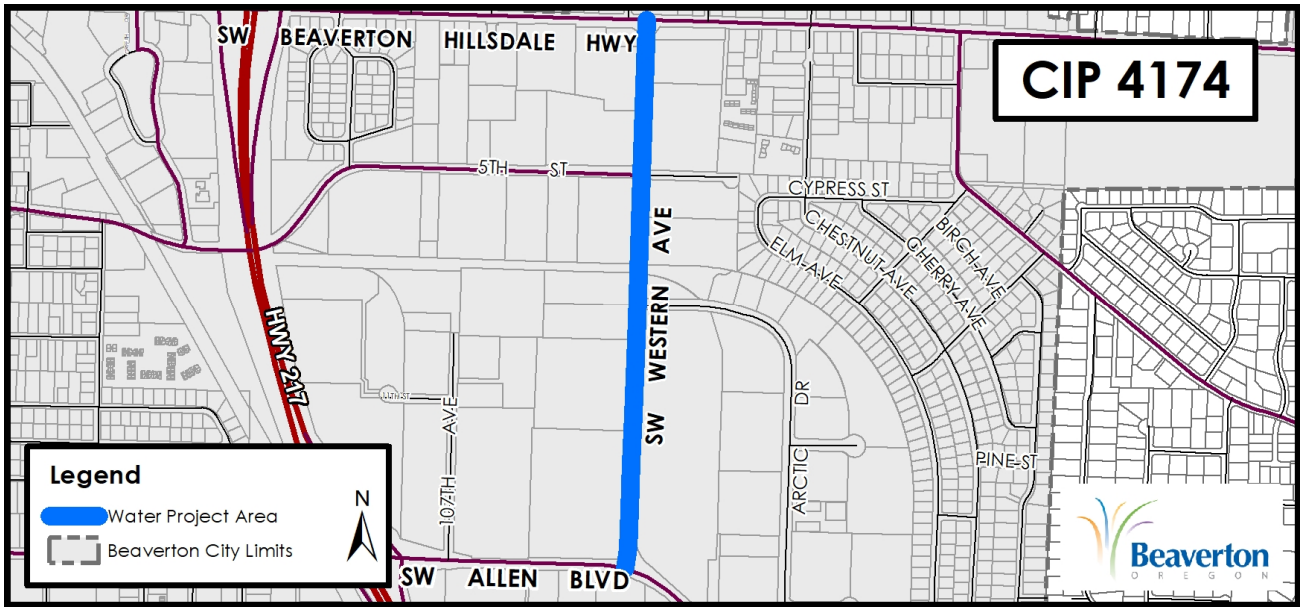
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3628	TVWD Opportunity Projects	FY 2019/2020	$75,000
		FY Total	**$75,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Water

Project Number 4175

Project Name Five Oaks School, 173rd to NW 167th, 12" water line, 1500 LF

Project Description Install 1500 LF of 12" diameter water line between NW 173rd to NW 167th along Five Oaks Middle School.

Project Justification

Project Status FY 19-20: Design and begin construction

Project Manager Priya Dhanapal

Estimated Date of Completion:

First Year Budgeted: FY 2018/2019

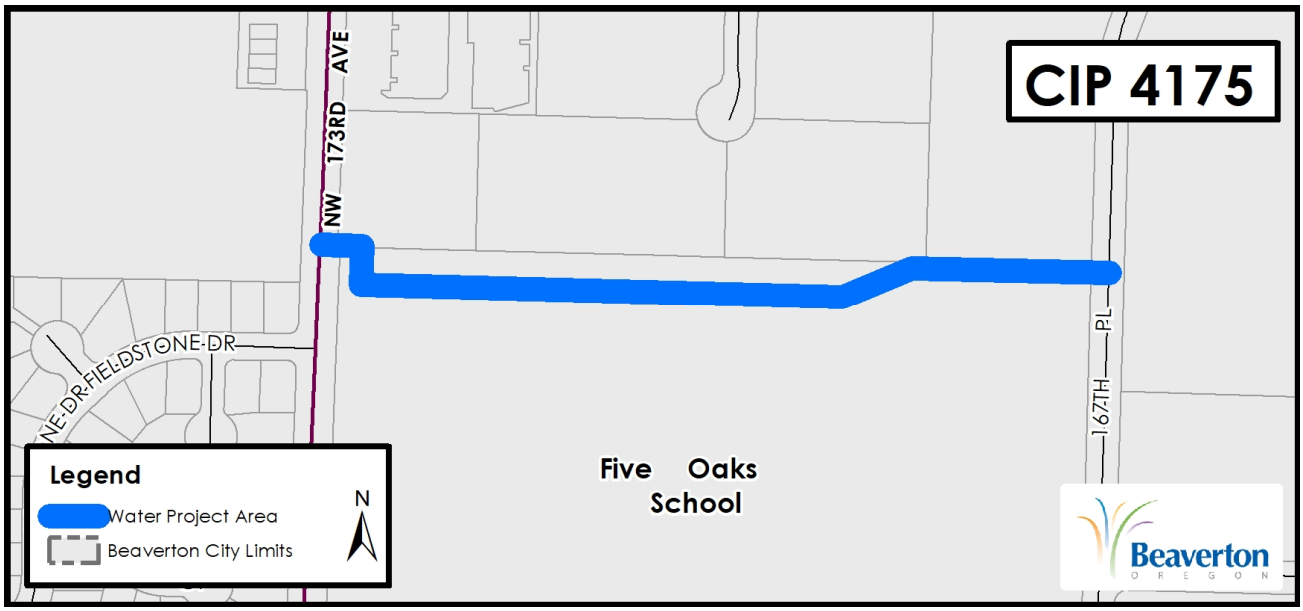
Estimated Project Cost: $0

New Project: Yes

Funding Data:

Fund No.	Fund Name	FY	Amount
3627	Withdrawal of Areas from TVWD, Bonded	FY 2019/2020	$490,000
		FY Total	**$490,000**

Map:



City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number 5088B

Project Name Waterhouse/Elmonica Area,Withdrawal Area 4 (Bond) & Walker Rd Phase 2 (MSTIP)

Project Description Water: Install 5,300 linear feet (LF) of pipe as follows: SW Walker Road (3,300 LF), NW 158th Ave (1,300 LF), and SW 150th Ave (700 LF) to provide City water service in a recently annexed area (Area 4),
MSTIP: This project will widen Walker Road, between Schendel Avenue and Murray Boulevard, to five lanes (two travel lanes in each direction and a center turn lane) with continuous bicycle and pedestrian facilities. There will be some work on 158th north of Walker. City Public Works staff participates on the design team for the stormwater system upgrade. The Washington County MSTIP project is picking up all stormwater system plan preparation expense by consultant as well as all the construction expense.
https://www.co.washington.or.us/LUT/TransportationProjects/walker-road-phase-2.cfm

Project Justification Water: The project is being designed and constructed in conjunction with Washington County (County) Walker Road improvements. The County has agreed to accommodate the water line construction as part of their road improvements, provided the City does not impact the Schedule.
MSTIP: Walker Road is a heavily used east-west arterial roadway with varying travel lane sections (from two lanes to five lanes) and intermittent bicycle and pedestrian facilities.

Project Status FY 18-19: Began design. FY 19-20: Complete design. FY 20-21: Complete construction.

Project Manager Mark Boguslawski, Sheila Sahu

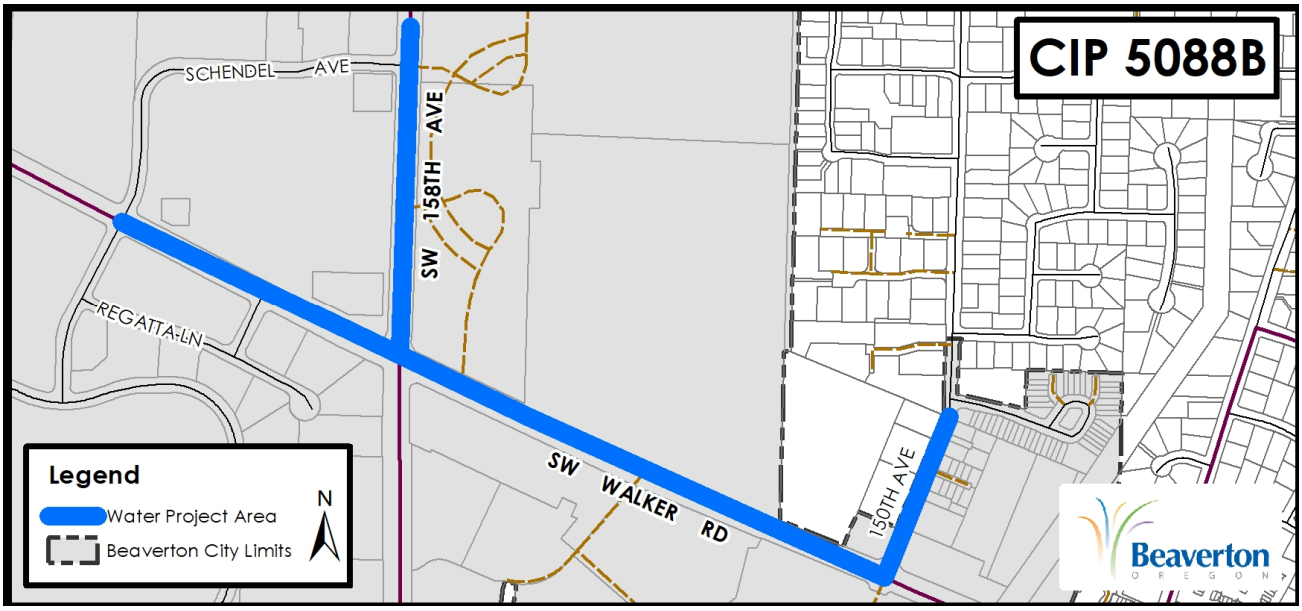
Estimated Date of Completion: October 2020 **First Year Budgeted:** FY 2018/2019

Estimated Project Cost: $10,200,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3627	Withdrawal of Areas from TVWD, Bonded	FY 2019/2020	$20,000
		FY Total	**$20,000**

Map:


CIP 5088B
SCHENDEL AVE
SW 158TH AVE
REGATTA LN
SW WALKER RD
150TH AVE
Legend
Water Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Water**

FY 2019/2020

Project Number 6095

Project Name Sellwood Subdivision Utility Replacements

Project Description Investigate what portions of the existing sanitary sewer, storm drainage and water systems need to be replaced or rehabilitated in the Sellwood Subdivision which is the neighborhood bounded by Allen Blvd, Alger Ave, 11th St and Lee Ave. The section of sanitary pipe between 12th St and the Fanno Creek interceptor may be upsized to 10 inches to accommodate overflows from the Alger Trunk overflow at 12th St that was constructed in 1987. Most of the sanitary sewer work will be point repairs to broken sections of pipe. 1,150 feet of existing 6-inch water pipe needs to be replaced on 11th St from Lee Ave to Alger Ave. The storm sewer is undersized and flooding has happened at the low point of the neighborhood. The storm sewer work will consist of upsizing pipes where necessary, retrofitting a pretreatment facility, and providing maintenance access.

Project Justification The Sellwood Subdivision was built in the 1940s and 1950s. The sanitary pipes in the project area have a suspected high level of infiltration/inflow, root intrusion problems in areas, and a pipe section with poor grade. The project was identified in the 2007 Sanitary Master Plan as a medium priority rehabilitation project. Water: The existing cast iron water lines have experienced recent and numerous main breaks. Storm drainage: The existing pipes and structures require localized repairs.

Project Status FY17-18: Begin design. FY18-19: Continue design. FY19-20: Complete construction.

Project Manager Aaron Lee, Tristan Wear

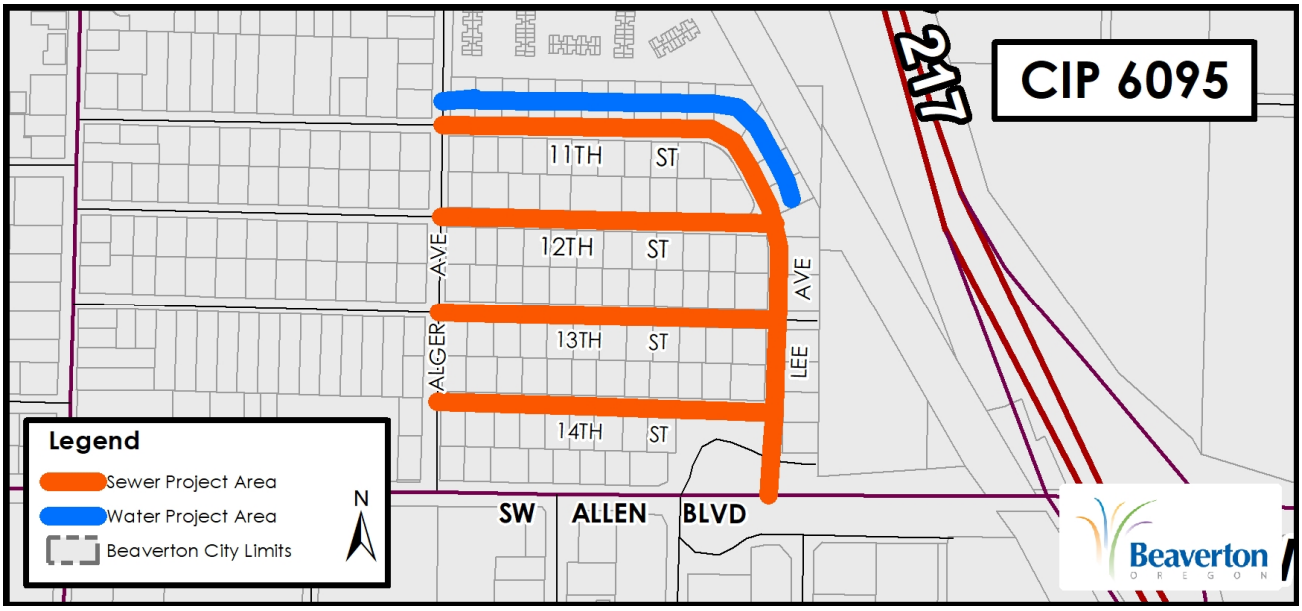
Estimated Date of Completion: December 2019 **First Year Budgeted:** FY 2017/2018

Estimated Project Cost: $1,320,000 **New Project:** No

Funding Data:

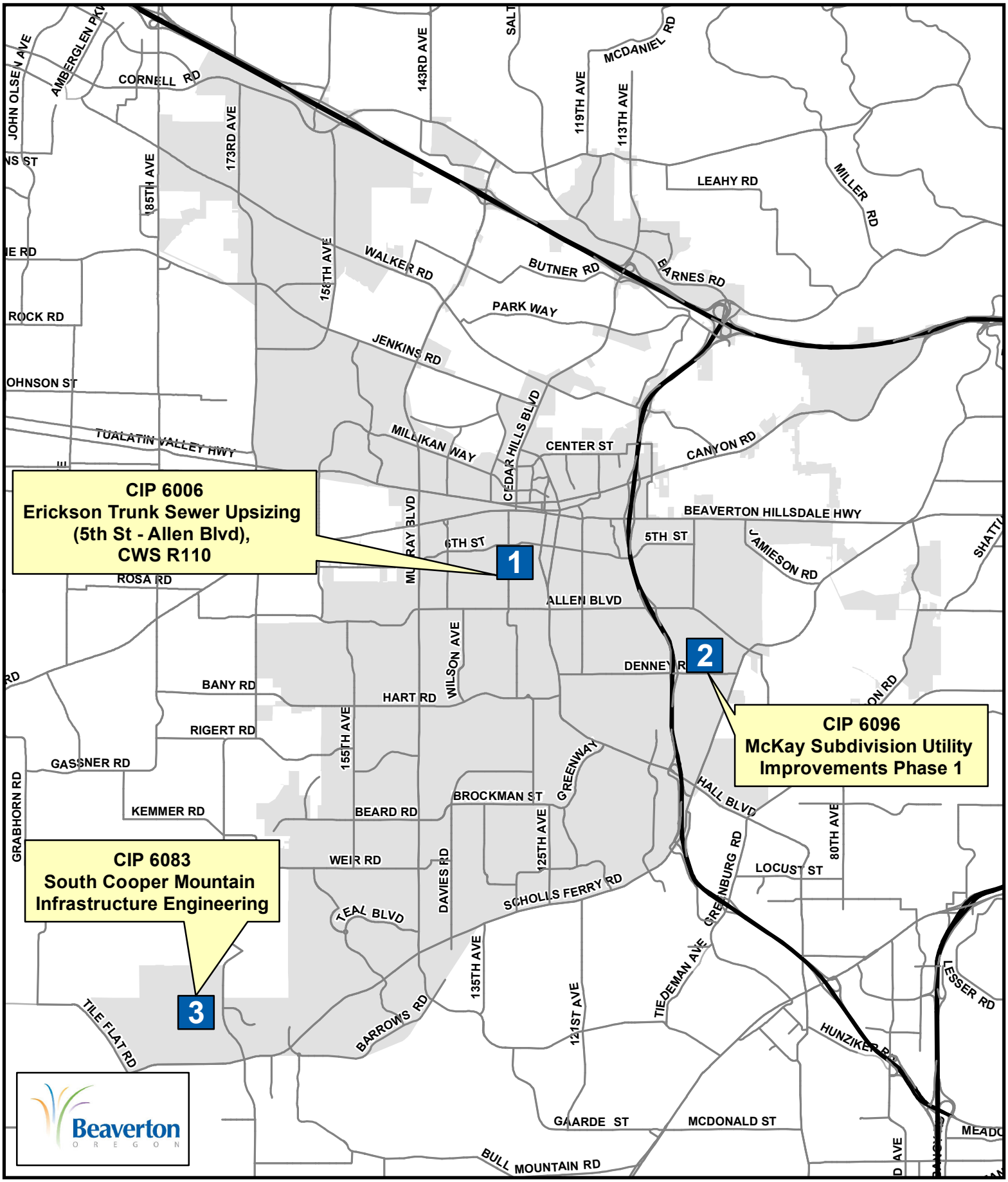
Fund No.	Fund Name	FY	Amount
3701	Water Improvements	FY 2019/2020	$280,000
3850	Sewer Maint/Replacement	FY 2019/2020	$85,000
3950	Storm Maint/Replacement	FY 2019/2020	$420,000
		FY Total	**$785,000**

Map:


CIP 6095
217
11TH ST
12TH ST
13TH ST
14TH ST
ALGER AVE
LEE AVE
SW ALLEN BLVD
Legend
Sewer Project Area
Water Project Area
Beaverton City Limits
N
Beaverton
OREGON

2019-20 Sanitary Sewer Projects

Sanitary Sewer Projects FY 2019-2020



City of Beaverton **Project Information** **Sanitary**

FY 2019/2020

Project Number 6006

Project Name Erickson Trunk Sewer Upsizing (5th St - Allen Blvd), CWS R110

Project Description The project consists of replacing 4,066 feet of 15-inch pipe with 18-inch pipe. Alternative alignments will be investigated during preliminary design. Alternate alignments will not require significant reconstruction of service lines but utilize the existing system for local collection. The new alternative would remove the trunk from the creek area and improve maintenance access. The upsize line will provide additional flow capacity.

Project Justification The Erickson trunk between SW Allen Blvd and SW 5th St is a 15-inch pipe constructed about 60 years ago along Erickson Creek. A portion of the pipe through the Creekside Village development was realigned in 1987. The 15-inch pipe is undersized for both existing and buildout conditions. Replacing this pipe in its current location would be difficult as it is in a heavily landscaped area adjacent to the creek with limited access and multifamily structures nearby. Pipe bursting is not feasible due to the extremely flat grade.

All the computerized flow models indicate that this line is deficient in size to handle future sewer flows. CWS installed flow monitoring on the trunk sewer to verify the need for this project. Data available in the spring of 2017 showed the pipe requires additional capacity. Positive results resulted in the decision to replace the pipe with a larger size. Selection of an Engineering Consultant to start the design will occur in the spring of 2019.

Project Status FY16-17: CWS installed flow monitoring on the trunk sewer to verify the need for this project. Data showed the need for upsizing the sewer main. FY 18-19 City Operations and engineering provide an overall evaluation of condition and capacity. The condition of the pipe is fair and the additional capacity is needed were the results. Selection of an engineering consultant to start the design, spring 2019. City staff will coordinate possible project impacts with the Creekside Village complex. FY19-20 Complete design and start construction.

Project Manager Alan Johansson

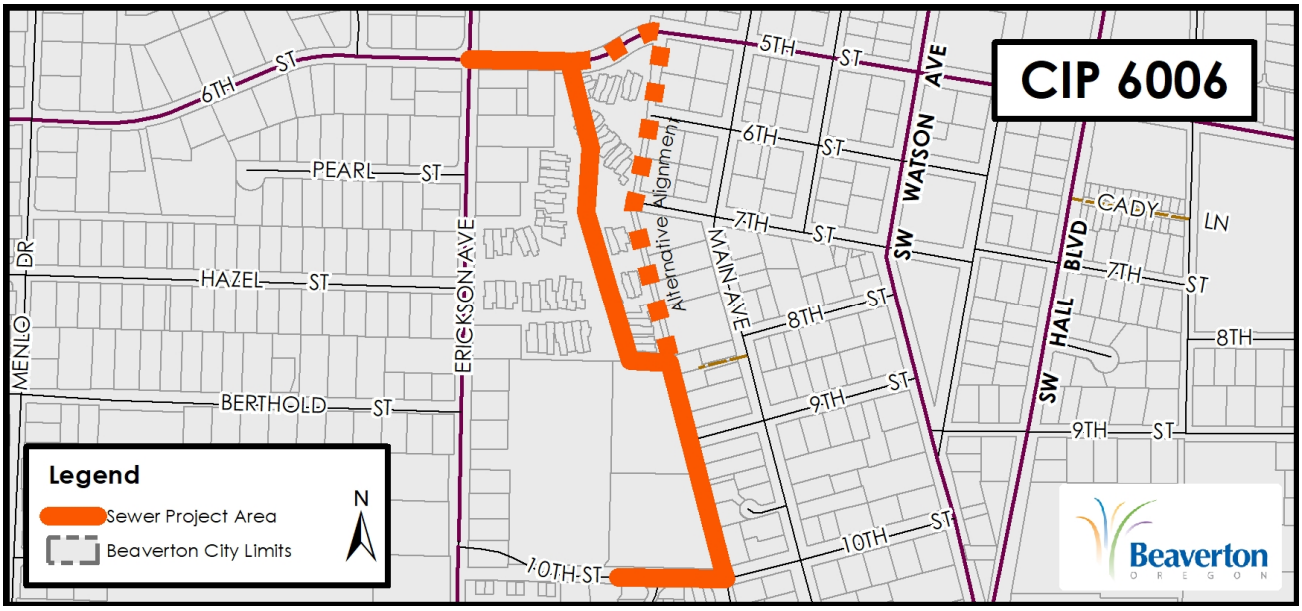
Estimated Date of Completion: **First Year Budgeted:** FY 2015/2016

Estimated Project Cost: $2,200,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3950	Storm Maint/Replacement	FY 2019/2020	$50,000
CWS	IGA w/ Clean Water Services	FY 2019/2020	$2,211,000
		FY Total	**$2,261,000**

Map:


CIP 6006
6TH ST
5TH ST
6TH ST
PEARL ST
7TH ST
HAZEL ST
8TH ST
BERTHOLD ST
9TH ST
10TH ST
MENLO DR
ERICKSON AVE
MAIN AVE
Alternative Alignment
SW WATSON AVE
SW HALL BLVD
CADY LN
7TH ST
8TH
9TH ST
Legend
Sewer Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton
FY 2019/2020

Project Information

Sanitary

Project Number 6083

Project Name South Cooper Mountain Infrastructure Engineering

Project Description Conduct a study of the public infrastructure required to support the development of approximately 1,783 acres of land recently added to the Urban Growth Boundary.

Project Justification The existing public infrastructure for water, sanitary sewer, storm drainage and streets will not support future development. Planning is needed to determine demand, pipe sizes and alignments, the size and location of storage facilities and pump stations (if needed), and cost estimates in order to insure that facilities can be available to support development.

Project Status FY 11-12: Begin concept planning by City staff. FY 12-13: Complete concept planning & preliminary design by City staff. FY13-14: Continue preliminary design and begin draft planning level Master Plan. FY14-15: Continue preliminary design and complete draft planning level Master Plan. FY15-16: Begin site specific engineering investigations and plans as needed. FY16-17 through FY19-20: Continue site specific engineering investigations and plans as needed. Update the South Cooper Mountain (SCM) Sanitary Sewer Master Plan.

Project Manager Geoff Hunsaker

Estimated Date of Completion:

First Year Budgeted: FY 2012/2013

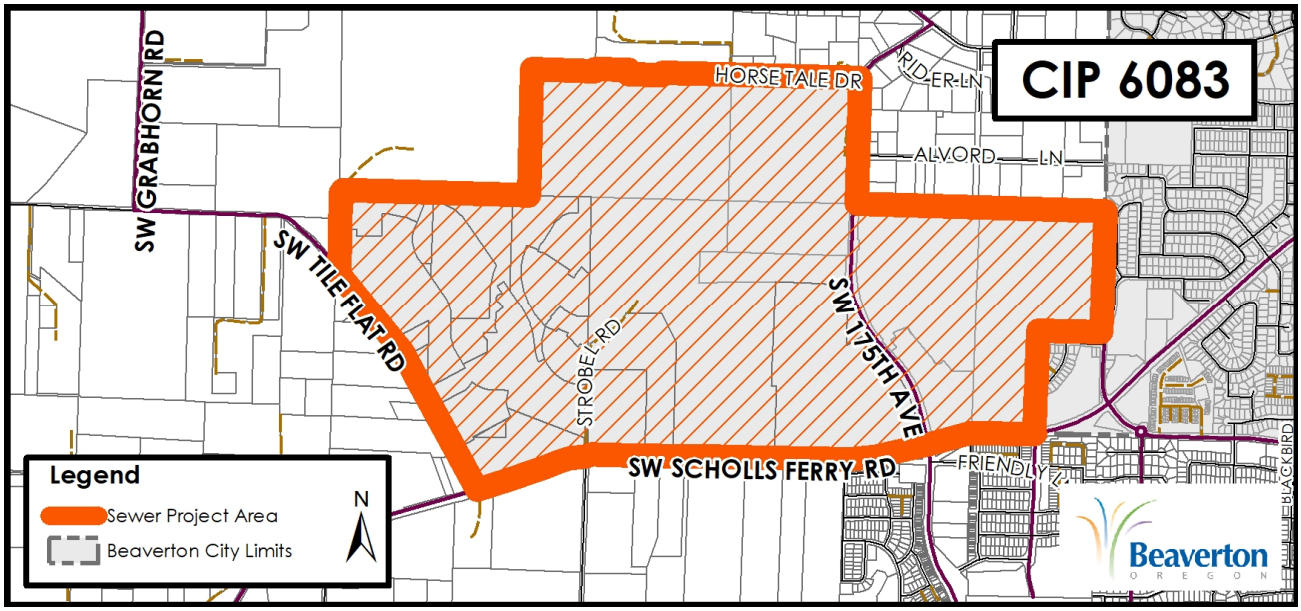
Estimated Project Cost: $250,000

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3620	Water Extra Capacity Supply	FY 2019/2020	$15,000
		FY Total	**$15,000**

Map:



City of Beaverton
FY 2019/2020

Project Information

Sanitary

Project Number	6096
Project Name	McKay Subdivision Utility Improvements Phase 1
Project Description	Rehabilitation and replacement of existing sanitary sewer, storm drainage, and water system within the McKay subdivision. Utility replacement in the subdivision will require multiple phases.
Project Justification	The McKay Subdivision was built in the 1950s and 1960s. The existing cast iron water lines have experienced numerous main breaks and is in need of replacement. The waterlines recently withdrawn from TVWD need to be evaluated for replacement as well. The sanitary sewer and storm system need point repairs and rehabilitation or replacement of select lines
Project Status	FY 19-20: Begin design.
Project Manager	Geoff Hunsaker

Estimated Date of Completion:

First Year Budgeted: FY 2019/2020

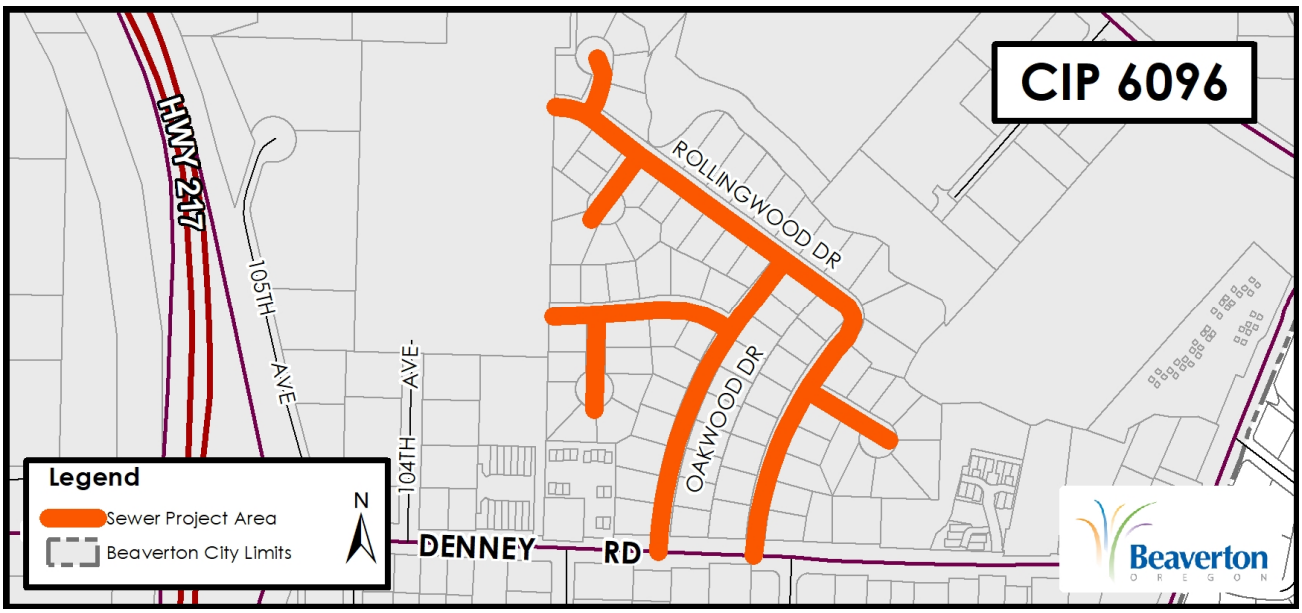
Estimated Project Cost: $900,000

New Project: Yes

Funding Data:

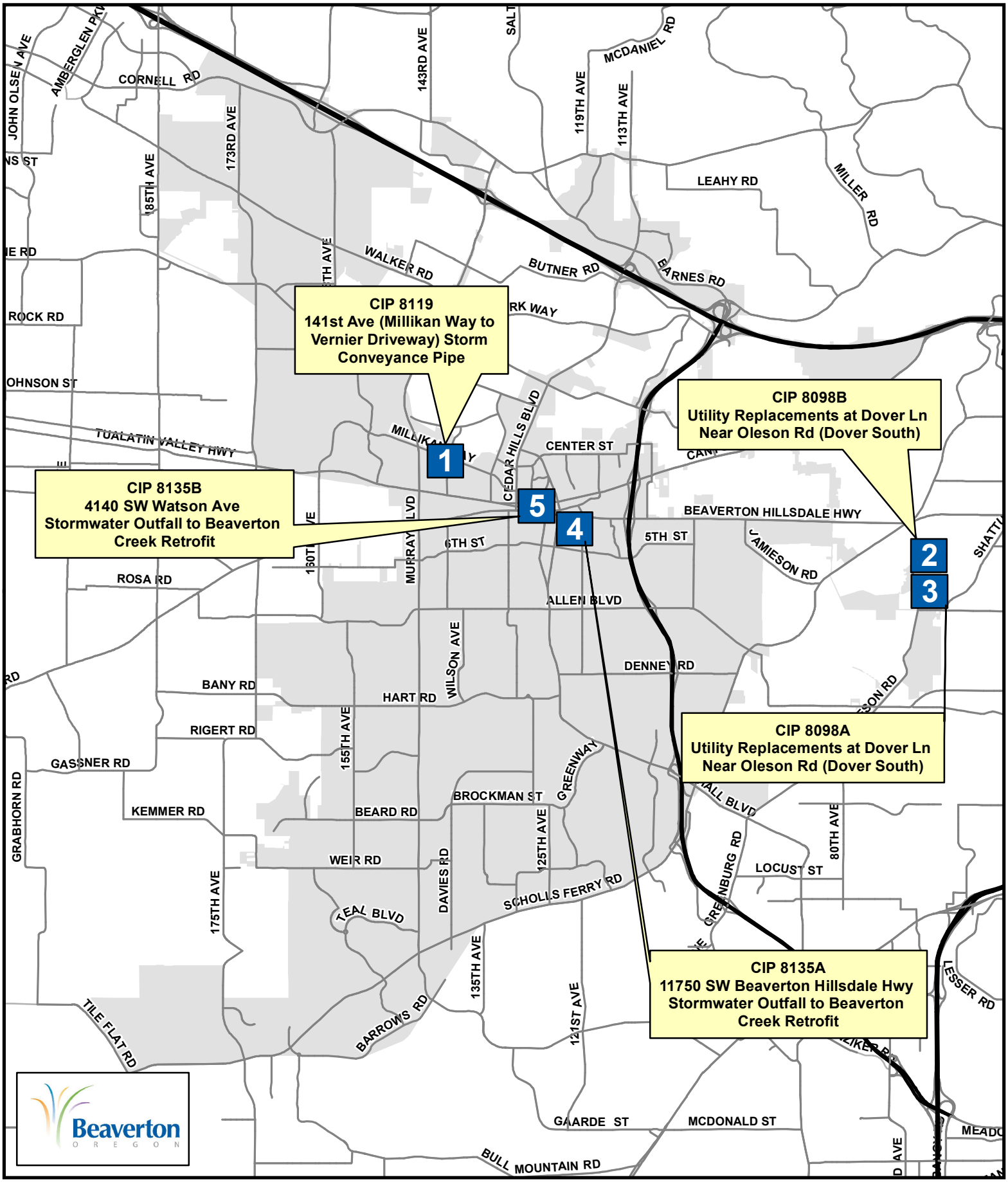
Fund No.	Fund Name	FY	Amount
3850	Sewer Maint/Replacement	FY 2019/2020	$100,000
3950	Storm Maint/Replacement	FY 2019/2020	$20,000
		FY Total	**$120,000**

Map:



2019-20 Storm Projects

Storm Projects FY 2019-2020



City of Beaverton **Project Information** **Storm**

FY 2019/2020

Project Number 8098A

Project Name Utility Replacements at Dover Ln Near Oleson Rd (Dover South)

Project Description Rehabilitate, replace, and/or realign storm drain and sanitary sewer pipes that are both old and difficult to access for maintenance.

Project Justification Storm drainage: Existing pipes are in need of repair and are difficult to access because they are along side yards (some pipes are even under existing structures). The idea to take advantage of new water quality structures installed by the Oleson Rd (MSTIP3) project has proven not practical. The scope of the Dover Ln storm drainage improvements has expanded because nearly all of the storm system on Dover Ln and adjacent streets is in need of rehabilitation or replacement. There are now two projects: Dover South (CIP 8098A) and Dover North (CIP 8098B).

Sanitary: The sanitary sewer pipe is made from transite and reached the end of its useful life. The bottoms of the lines have eroded and there are many joints that have separated or failed. Wastewater from this area flows into the City of Portland's collection system making it ineligible for sewer lateral replacement under the CWS I & I reduction program. The sewer laterals will be addressed during construction on a case by case basis. Laterals in the right-of-way that have failed will be replaced up to the property line.

Project Status FY16-17: Continue project design. FY17-18: No work. FY18-19: Complete design. FY19-20 Complete construction.

Project Manager Alan Johansson

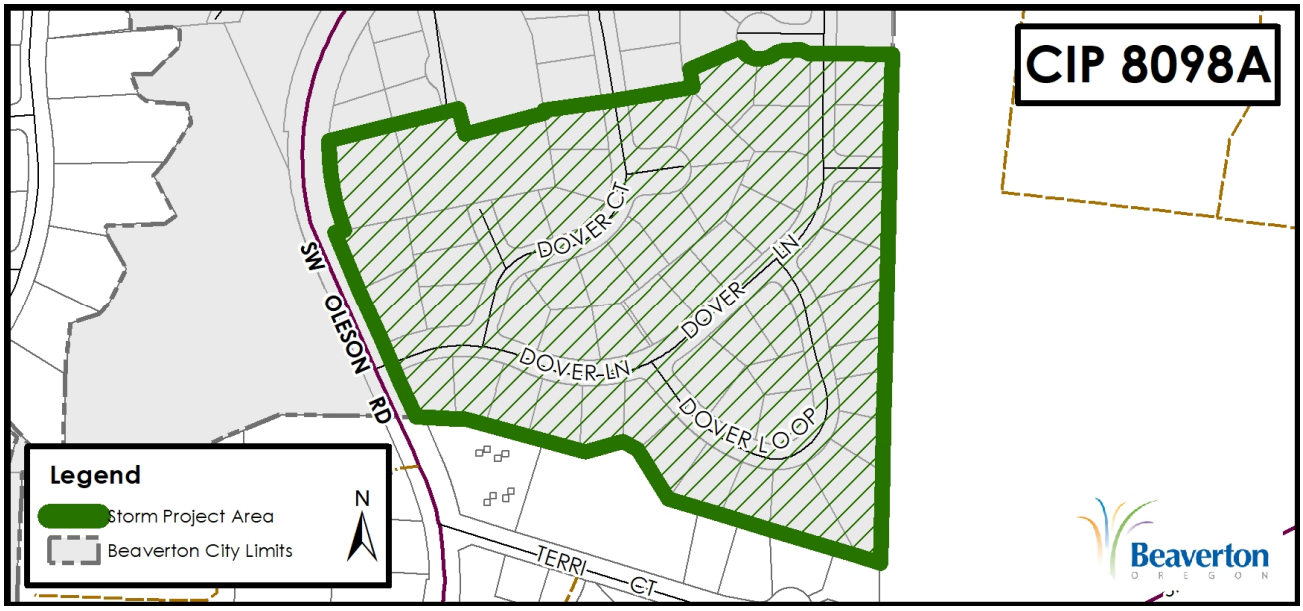
Estimated Date of Completion: **First Year Budgeted:** FY 2010/2011

Estimated Project Cost: $570,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3850	Sewer Maint/Replacement	FY 2019/2020	$255,000
3950	Storm Maint/Replacement	FY 2019/2020	$220,000
		FY Total	**$475,000**

Map:


CIP 8098A
DOVER CT
DOVER LN
DOVER LN
DOVER LOOP
SW OLESON RD
TERRI CT
Legend
Storm Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Storm**

FY 2019/2020

Project Number 8098B

Project Name Utility Replacements at Dover Ln Near Oleson Rd (Dover North)

Project Description Rehabilitate, replace, and/or realign sanitary sewer and storm drain pipes that are both old and difficult to access for maintenance.

Project Justification Storm drainage: Existing pipes are in need of repair and are difficult to access because they are along side yards (some pipes are even under existing structures). The idea to take advantage of new water quality structures installed by the Oleson Rd (MSTIP3) project has proven not practical. The scope of the Dover Ln storm drainage improvements has expanded because nearly all of the storm system on Dover Ln and adjacent streets is in need of rehabilitation or replacement. There are now two projects: Dover South (CIP 8098A) and Dover North (CIP 8098B).

Sanitary: The sanitary sewer pipe is made from transite and reached the end of its useful life. The bottoms of the lines have eroded and there are many joints that have separated or failed. Wastewater from this area flows into the City of Portland's collection system making it ineligible for sewer lateral replacement under the CWS I & I reduction program. The sewer laterals will be addressed during construction on a case by case basis. Laterals in the right-of-way that have failed will be replaced up to the property line.

Project Status FY15/16 through FY16/17: Project placed on hold. FY17-18: Continue project design. FY18-19: Continue design. FY 19-20: Complete design.

Project Manager Alan Johansson

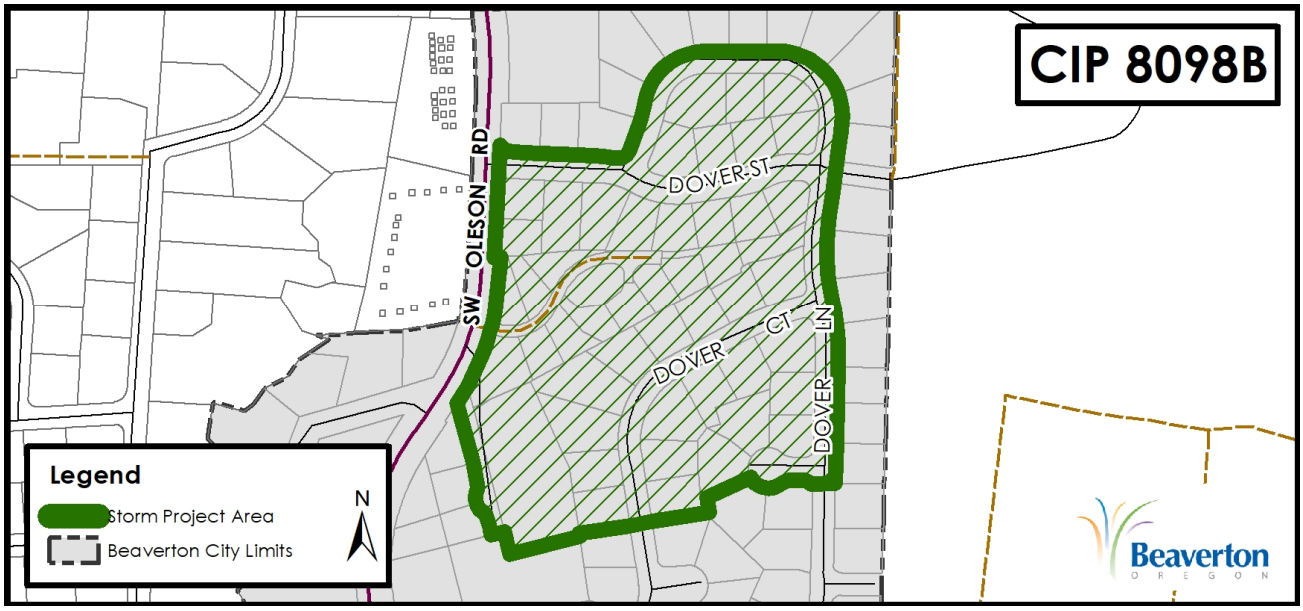
Estimated Date of Completion: **First Year Budgeted:** FY 2010/2011

Estimated Project Cost: $570,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3850	Sewer Maint/Replacement	FY 2019/2020	$30,000
3950	Storm Maint/Replacement	FY 2019/2020	$30,000
		FY Total	**$60,000**

Map:


CIP 8098B
DOVER ST
DOVER CT
DOVER LN
SW OLESON RD
Legend
Storm Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Storm**

FY 2019/2020

Project Number 8101

Project Name Stormwater Drainage Master Plan

Project Description Develop a comprehensive Stormwater Drainage Master Plan that:
• Identifies and documents existing flooding issues and provides solutions that includes, but limited to, conveyance, detention, or flood resistant construction.
• Assessment of previously documented flooding issues that have been address and provide summary explanation on how and flooding was minimized and if there are any additional recommended actions needed.
• Provides recommendation for expansion and extension of the stormwater system to service future growth (including annexations in unincorporated urban Washington County)
• Produce fact sheets and baseline cost estimates for recommended stormwater projects that will be used for planning in the Capital Improvement Program for budgeting in the annual budget and CIP document.
• Provided a recommended prioritization of the recommended projects.
• Provided a review of the current funding, including rates and system development charges, for the stormwater program.
• Evaluate the existing rate and Conveyance SDC structure for stormwater improvements and recommend changes based on the finding. Recommend an updated Conveyance System Development Charge, including improvement, reimbursement, and administrative fees, in accordance with State of Oregon SDC statutes.

Project Justification The last Storm Drainage Master Plan and associated rate study was completed in 1994 and requires an update.

Project Status FY17-18: Delayed one year due to limited staff resources.
FY18-19: RFP for consultant services. Consultant scope of work negotiated
FY19-20: Stormwater Drainage Master Plan developed.

Project Manager Mark Boguslawski

Estimated Date of Completion: **First Year Budgeted:** FY 2017/2018

Estimated Project Cost: $300,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3915	Storm SDC Conveyance	FY 2019/2020	$300,000
		FY Total	**$300,000**

City of Beaverton **Project Information** **Storm**

FY 2019/2020

Project Number 8119

Project Name 141st Ave (Millikan Way to Vernier Driveway) Storm Conveyance Pipe

Project Description The May 31, 2016 National Pollution Discharge Elimination System (NPDES) Watershed-base Waste Discharge Permit issued by Oregon Department of Environmental Quality, paragraph D.3, page 26 of 94, reads as follows: "The permittee must identify, at a minimum, five stormwater quality improvement retrofit projects. The identified projects must be designed, and constructed or implemented, to effectively reduce applicable TMDL pollutant parameters by April 22, 2021." The City of Beaverton is one of the co-permittees of this permit. This is an opportunity to cost effectively achieve one of five required retrofits as a part of this flood frequency reduction project. Unfortunately, there is no real estate available to construct a Clean Water Services preferred vegetated facility – instead, a combination primary treatment vault / stormwater filter will be built because it can fit in the existing available roadway section. This will achieve Beaverton's share of a retrofit activity as one of the co-permittees for this 5-year permit time period.

Project Justification Project will address localized street flooding on Millikan Way that occurs several times each winter as well as fulfill a City obligation as an NPDES co-permittee.

Project Status FY15/16: Begin design by City staff. FY16/17: Continue design by consultant. FY17/18: Continue design by consultant. FY18/19: Complete design by consultant. FY19/20: Complete construction.

Project Manager Mark Boguslawski, Tristan Wear

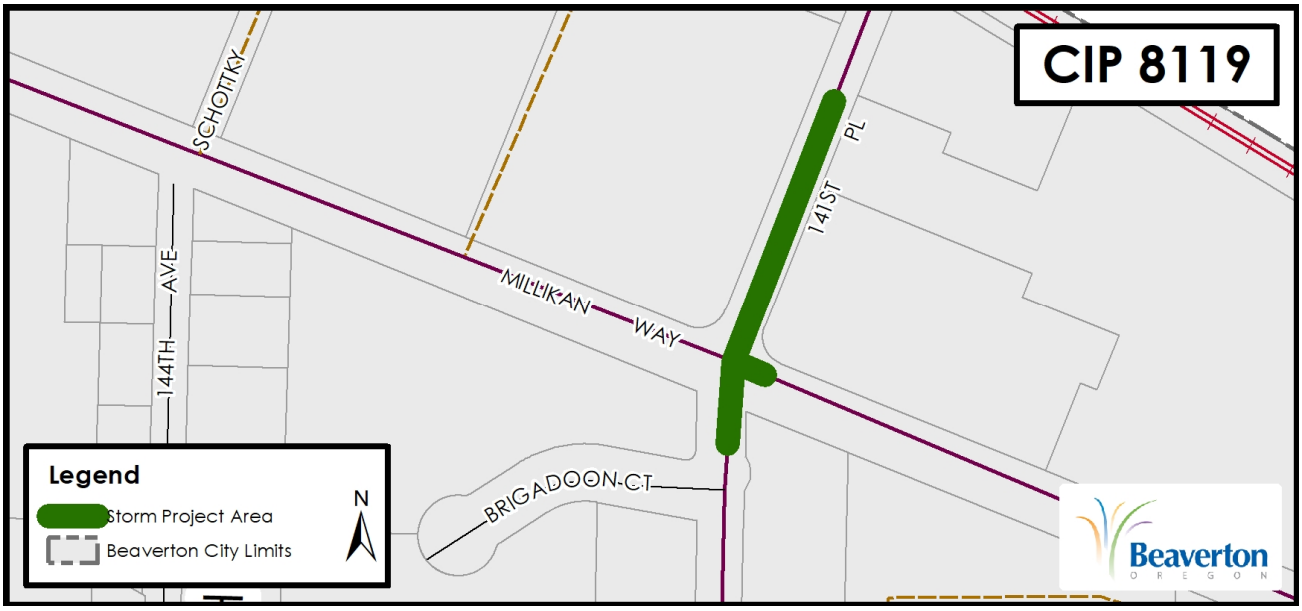
Estimated Date of Completion: December 2019 **First Year Budgeted:** FY 2014/2015

Estimated Project Cost: $855,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3915	Storm SDC Conveyance	FY 2019/2020	$780,000
		FY Total	**$780,000**

Map:


CIP 8119
SCHOTTKY
144TH AVE
MILLIKAN WAY
141ST PL
BRIGADOON CT
Legend
Storm Project Area
Beaverton City Limits
N
Beaverton
OREGON

City of Beaverton **Project Information** **Storm**

FY 2019/2020

Project Number 8122

Project Name CIPP Storm Pipe Rehabilitation Phase 1

Project Description Use Cured-in-Place Pipe (CIPP) technology to rehabilitate storm pipes - usually in conjunction with a water line replacement project and/or a street overlay project. CIPP is one of several trenchless rehabilitation methods used to repair existing pipelines. CIPP is a jointless, seamless, pipe-within-a-pipe with the capability to rehabilitate storm drain pipes ranging in diameter from 10" to 60". The City has used CIPP as a method of pipe restoration since 2006.

Project Justification Staff found that much of the storm drain pipe installed prior to the mid 1990's was improperly constructed (without gaskets to keep plant roots out) or was built with materials with a short design life. By using CIPP, it is often possible to salvage failing pipes while minimizing the amount of surface excavation and associated disruptions.

Project Status FY14-15: Begin selection of pipes to be rehabilitated. FY15-16: Continue selection of pipes and begin Plans, Specifications and Cost Estimate (PS&E) package. FY16-17: Complete construction. FY18-19: Begin pipe selection process. FY19-20: Complete next CIPP construction mobilization and begin the next year's pipe selection process. Note: Due to the number of storm drain pipe miles that need rehabilitation, it is anticipated that it will take until FY 2034-2035 to rehabilitate the city's storm drain pipes.

Project Manager Mark Boguslawski, Tristan Wear

Estimated Date of Completion: **First Year Budgeted:** FY 2014/2015

Estimated Project Cost: $15,000,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3950	Storm Maint/Replacement	FY 2019/2020	$620,000
		FY Total	**$620,000**

City of Beaverton **Project Information** **Storm**

FY 2019/2020

Project Number 8132

Project Name Small Works Drainage & In-House Staff Time

Project Description Respond to un-programmed storm water projects in a timely manner that result from unanticipated problems. Provides funding for engineering services from general fund staff.

Project Justification

Project Status Estimated project costs and completion dates will be determined when projects are identified and scoped. This program renews annually.

Project Manager Mark Boguslawski, Tristan Wear

Estimated Date of Completion:

First Year Budgeted: FY 2016/2017

Estimated Project Cost: $360,000

New Project: No

Funding Data:

Fund No.	Fund Name	FY	Amount
3916	Storm SDC Water Quantity	FY 2019/2020	$35,000
3917	Storm SDC Water Quality	FY 2019/2020	$35,000
3950	Storm Maint/Replacement	FY 2019/2020	$190,000
		FY Total	**$260,000**

City of Beaverton **Project Information** **Storm**

FY 2019/2020

Project Number 8135A

Project Name 11750 SW Beaverton Hillsdale Hwy Stormwater Outfall to Beaverton Creek Retrofit

Project Description Regional public stormwater treatment facility to help promote redevelopment in an area that is targeted for increased density and pedestrian connectivity according to the Central City Strategy of the Civic Plan.

Project Justification This regional facility will collect and treat stormwater runoff from a 47.15 acre area of the Central Beaverton Urban Renewal District that will see multiple redevelopment projects and allows them to be built or redeveloped without having to provide on-site stormwater runoff treatment. As a result, the design principles outlined in the Beaverton Downtown Code could more easily occur. In addition, larger regional facilities provide efficient operations and maintenance.

Project Status FY17-18: Began RFP QBS process in Mar 2018. FY18-19: Select consultant and begin design. FY 19-20: Complete design. FY22-23: Begin construction (grant funding is being pursued).

Project Manager Mark Boguslawski

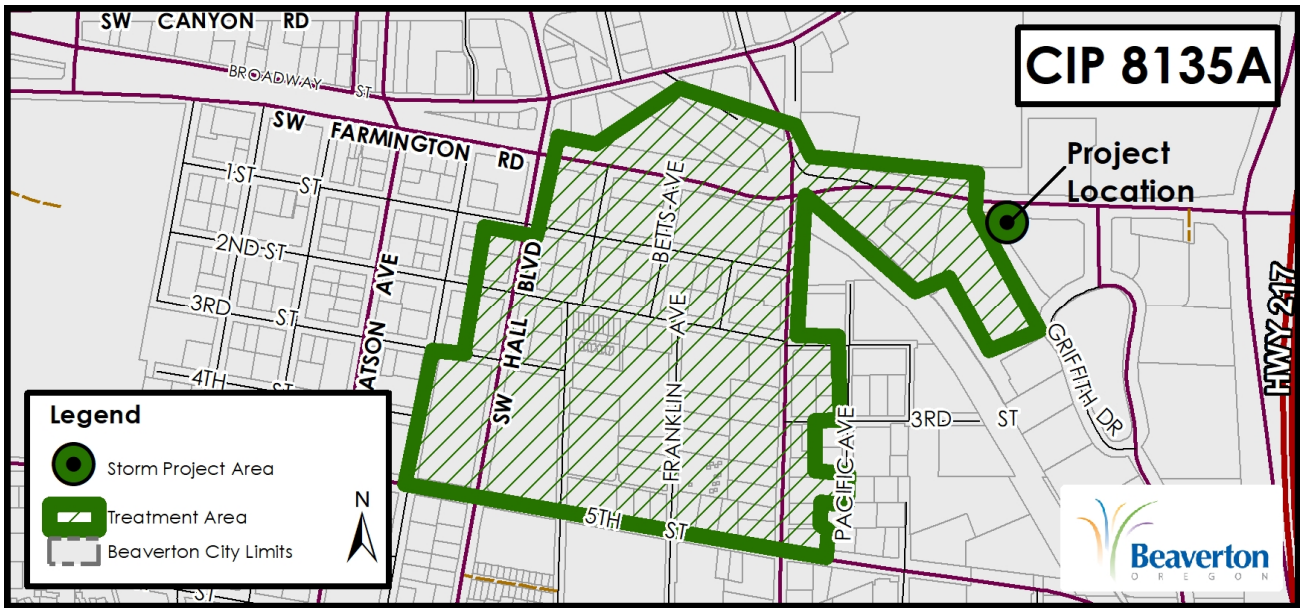
Estimated Date of Completion: June 2021 **First Year Budgeted:** FY 2018/2019

Estimated Project Cost: $1,500,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3950	Storm Maint/Replacement	FY 2019/2020	$115,000
		FY Total	**$115,000**

Map:



City of Beaverton **Project Information** **Storm**

FY 2019/2020

Project Number 8135B

Project Name 4140 SW Watson Ave Stormwater Outfall to Beaverton Ck Retrofit

Project Description Regional public stormwater treatment facility to help promote redevelopment in an area that is targeted for increased density and pedestrian connectivity according to the Central City Strategy of the Civic Plan, including portions of SW Canyon Rd.

Project Justification This regional facility will collect and treat stormwater runoff from a 91.5 acre area of the Central Beaverton Urban Renewal District that will see multiple redevelopment projects and allows them to be built or redeveloped without having to provide on-site stormwater runoff treatment. As a result, the design principles outlined in the Beaverton Downtown Code could more easily occur. In addition, larger regional facilities provide efficient operations and maintenance.

Project Status FY17-18: Began RFP QBS process in Mar 2018. FY18-19: Select consultant and complete design. FY19-20: Construction.

Project Manager Mark Boguslawski

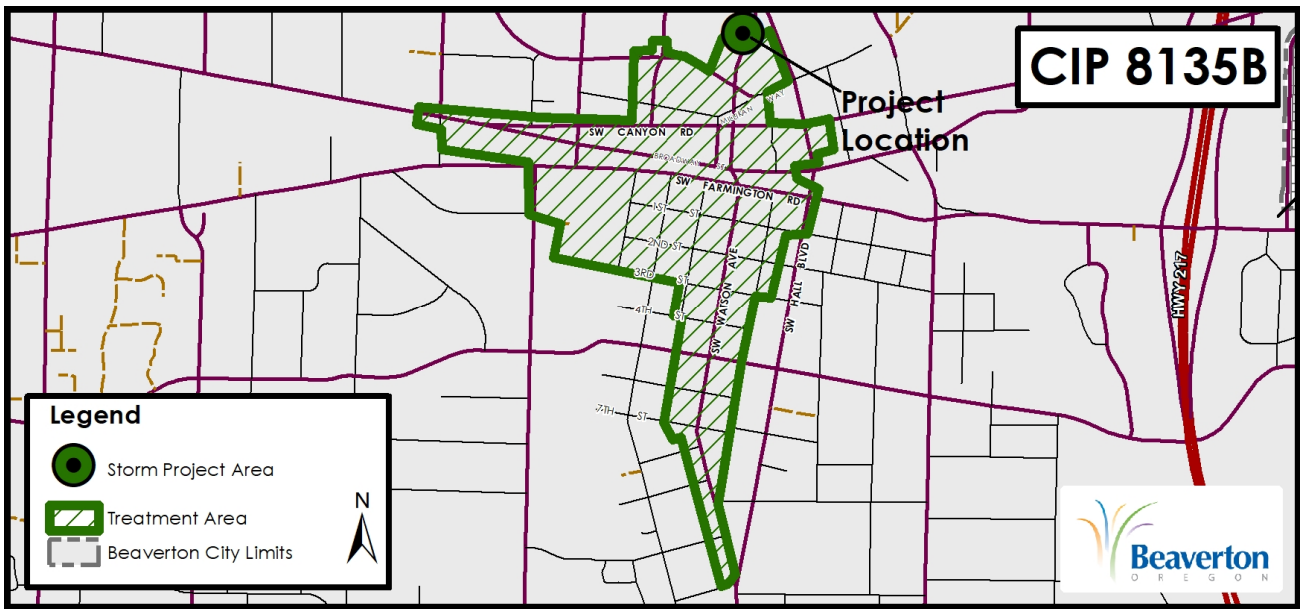
Estimated Date of Completion: **First Year Budgeted:** FY 2018/2019

Estimated Project Cost: $2,500,000 **New Project:** No

Funding Data:

Fund No.	Fund Name	FY	Amount
3917	Storm SDC Water Quality	FY 2019/2020	$200,000
3950	Storm Maint/Replacement	FY 2019/2020	$1,915,000
		FY Total	**$2,115,000**

Map:



CITY OF BEAVERTON
CAPITAL IMPROVEMENT PLAN (CIP)
FOR FY 2020-21 THROUGH FY 2028-29

PROJECTS PLANNED FOR FY 2020-21

THROUGH 2028-29

CONTENTS:

- **Ten Year CIP Development Process**
- **Planned Project Estimate Lists**
- **Planned Civic Project Maps**
- **Planned Transportation Project Maps**
- **Planned Street Rehabilitation Program Map**
- **Planned Water Project Maps**
- **Planned Sanitary Sewer Project Maps**
- **Planned Storm Drainage Maps**

Notes:

1. **On all planned project spreadsheets, the "Total Cost" shown is the total estimated cost that will need to be funded for the project in that given fiscal year in 2019 dollars.**

2. **Project costs and schedules are subject to change.**

The Ten Year CIP Development Process

The 10-year planned project lists in the following section of the CIP detail the proposed capital projects that the City will plan, engineer, and construct between FY 2020 and 2029. The Beaverton City Council Goals for 2019 expressed the desire to broaden the CIP to 10 years and included all aspects of the rights-of-way. This is the first year that the CIP has been expanded to a full 10 years. Each of these lists was developed by staff using a variety of inputs that are described below.

The CIP team recognizes that there are many improvements that can and should be made to the CIP development process. The FY 2019-20 CIP is a first step and the improvements will continue after the CIP is adopted. Over the coming years, the CIP team will work toward a development process that uses public involvement, inter-department cooperation, and project coordination to enhance and create a CIP that meets the needs of Beaverton's residents.

CIVIC

The Beaverton Urban Redevelopment Agency (BURA) and City Council select civic projects that advance major policy and planning documents like the Central Beaverton Urban Renewal Plan, the Downtown Design Framework, the Civic Plan, the Creekside Master Plan, and the Community Vision Plan. The specific projects on the 10 year CIP reflect significant investments to set the stage for future redevelopment, downtown revitalization, and to accommodate the private investment already occurring in the downtown core.

TRANSPORTATION

This is the first year of the 10-year CIP so it is most likely that the process and criteria for selecting projects will evolve. For the FY 2019-20 CIP transportation projects for FY 2020-21 through FY 2029-2030, the process involved coordination among staff in the following areas: Pavement overlays for arterials and collectors, pavement overlays for neighborhood and local streets, ADA ramp upgrades, traffic calming, transportation technology, sidewalk/path and active transportation, street light conversion, capacity enhancing and safety, and the completion of ongoing projects (all of which fit into one of the aforementioned categories).

Pavement overlay projects involved primarily coordination with City Operations staff that used the results of the 2019 Pavement Evaluation report to determine which streets needed rehabilitation and in what order. Other factors influencing selection included available funding (typically $1.2 million per year for arterials and $1.2 million per year for local streets) and geographical proximity. Arterial overlays are done by contract, whereas City forces complete local street overlays. ADA ramp improvements typically precede local street overlays and are completed by contract at approximately $1.2 million per year.

Traffic calming, transportation technology, active transportation, and street light conversion projects are funded primarily by the Street Fund. Typically, the Street Fund provides $750,000 per year in support of capital projects beyond paving and ADA improvements. The Traffic Calming program has an established process for the nomination, design, approval and construction of traffic calming projects. Transportation technology projects are chosen by the City Transportation staff in coordination with other local agency staff to improve traffic signal communications. The Active Transportation Plan adopted in November 2017 established a Top Priority Needs list of projects for crossing, pedestrian and bicycle needs. Street light conversions are prioritized by City Operations staff.

Sidewalk/Path projects are currently mostly funded from resources beyond the City such as Washington County MSTIP or federal grants. Occasionally, the City Council will dedicate funds from other sources for a sidewalk project such as the Menlo Drive sidewalks (CIP 3106A). Also, occasionally the Street Fund in conjunction with the General Fund will provide funds for a sidewalk/path project such as the Denney Road Path project. The list of possible sidewalk projects was established by the Capital Improvement Project Citizen Advisory Committee (CAC). Typically the CAC makes a recommendation on priority which the City Council approves. The priority for sidewalk/path projects has been established through FY 2023 and includes CIP 3112 and CIP 3113. **Currently, there is insufficient funding to sustain a sidewalk/path infill program over the next 10 years.**

Capacity Enhancing and Safety projects are funded by Transportation Development Tax (TDT) funds and typically are the most expensive transportation projects because they involve improvements in built-up areas where land and construction are the costliest. Engineering, Operations and Community Development staff selected these projects from a long list of eligible TDT projects established in February 2019. Staff used a list of 20 project prioritization criteria, available funding, and available staffing to select three projects. Typically, a TDT project will require a minimum of three years from design through construction).

WATER

City engineering staff used the 2018 Water Master Plan as the basis for the large capital projects included in the 10-year CIP. The master plan takes into account projected growth and development in the City and recommends large system development projects needed to meet the expected demands. The Tualatin Valley Water District (TVWD) withdrawal program was also considered and staff look for opportunity projects such as Washington County MSTIP projects to construct new water mains that will lead to the transfer of wheeled customers to full City water service. Engineering and Operations staff also worked together to determine priority waterline replacement projects throughout the City.

SANITARY

The 2019 Sewer Master Plan includes a list of recommended capital projects that rehabilitate/replace (R&R) or improve the capacity of existing sewer lines. Engineering and Operations staff worked together to prioritize the projects from the recommended list. Engineering staff then reviewed the current sewer fund balances and projected revenue to determine how much money is available to be spent per year without drawing the sewer fund contingencies too low. Sewer projects are generally funded in one of two ways: capacity improvement projects are funded through system development charges and R&R projects are funded by the $2 monthly sewer surcharge fee. Finally, staff aligned sewer projects to be completed with development or planned utility and transportation projects to minimize the impact to Beaverton residents and to build larger more cost-effective projects.

STORM

The City is currently working toward a new Stormwater Master Plan that will be used to determine recommended conveyance, water quality, and detention projects throughout the City. Until the new master plan is complete, Engineering staff have reviewed the transportation, water and sewer 10-year CIP to align stormwater projects with those projects.

CIVIC FY 2020-21 THROUGH FY 2028-29

			2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29	
CIP #	PROJECT NAME	Funding Source	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE
3521	Patricia Reser Center for the Arts	TLT/Private	$ 24,000,000																	
3522	Libray Fountain Improvements	General			$ 2,800,000	C														
3523	Downtown Wayfinding (Phase 2)	BURA	$ 75,000		$ 100,000		$ 100,000													
5099	Lot 2 Parking Garage	BURA	$ 4,600,000																	
5120	Hall-Watson Loop Improvements (Phase 1)	BURA	$ 850,000		$ 4,500,000		$ 4,500,000													
	Parking Pay Stations	BURA	$ 375,000																	
	Old Town Parking Garage	BURA					$ 1,000,000		$1,000,000		$24,000,000									
	Quiet Zone Improvements	BURA/Grant			$ 1,000,000															
		TOTAL	$ 29,900,000		$ 8,400,000		$ 5,600,000		$ 1,000,000		$ 24,000,000		$ -		$ -		$ -		$ -	

PHASE	
P	Planning
E	Engineering
ROW	Right of Way
C	Construction

TRANSPORTATION FY 2020-21 THROUGH FY 2029-30

CIP #	PROJECT NAME	Funding Source	2020-21 TOTAL	2020-21 PHASE	2021-22 TOTAL	2021-22 PHASE	2022-23 TOTAL	2022-23 PHASE	2023-24 TOTAL	2023-24 PHASE	2024-25 TOTAL	2024-25 PHASE	2025-26 TOTAL	2025-26 PHASE	2026-27 TOTAL	2026-27 PHASE	2027-28 TOTAL	2027-28 PHASE	2028-29 TOTAL	2028-29 PHASE
3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment	TDT	$100,000	C																
3328	Western Ave (5th St - Allen Blvd) Improvement	Various	$100,000	E/ROW	$3,028,000	C	$520,000	C												
3112	Allen Blvd/92nd Ave Shared Use Path Connectoin	Street/MSTIP	$1,213,000	C	$25,000	C														
3113	Laurelwood Ave (Scholls Ferry Rd-Apple Wy) Sidewalks	Street/MSTIP	$345,000	E/ROW	$623,000	C	$540,000	C												
3408	Hocken Ave (RR - TV Hwy) Widening	TIF/TDT	$664,000	E/ROW/C	$1,271,000	C	$100,000	C												
3519	Canyon Rd (Hocken Ave - Short St) Improvements, MTIP	Various; Federal; ODOT	$106,000	E/ROW	$236,000	E/C	$236,000	E/C												
	Arterial/Collector Overlays				$1,200,000	S	$1,050,000	S			$1,200,000	S	$1,050,000	S			$1,200,000	S	$1,050,000	S
3416	Hall Blvd (Ridgecrest - Hwy 217) Overlay	Street	$1,200,000	C																
	Millikan Wy (Murray Blvd - Watson Ave) Overlay	Street					$150,000	E	$1,200,000	C										
	Hall Blvd (Farmington Rd - Allen Blvd) Overlay	Street											$150,000	E	$1,200,000	C				
	Center St (117th Ave - Hall Blvd) Overlay	Street																	$150,000	E
	Sidewalks				$352,000	S	$460,000	S	$1,000,000	S	$800,000	S	$925,000	S	$250,000	S	$650,000	S	$875,000	S
	Davies Rd (135th Ave - Sorrento Rd) Sidewalk	Street									$200,000	E	$75,000	ROW	$750,000	C	$50,000	C		
	155th Ave (Davis Rd - Beverly Beach Ct) Sidewalk	Street															$300,000	E	$125,000	ROW
	ATP (Crossing & Bike Improvements)	Street	$750,000	E/R/C	$750,000	E/R/C	$750,000	S	$750,000	E/R/C	$750,000	E/R/C	$750,000	S	$750,000	E/R/C	$750,000	E/R/C	$750,000	S
	Local Street/Neighborhood Routes Overlays	Street	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C
	ADA Ramp Upgrades	Street	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C	$1,200,000	C
	LED Street Light Conversion	Street	$250,000	C	$250,000	C	$250,000	C	$250,000	C										
	Traffic Calming	Street	$50,000	E/C	$50,000	E/C	$50,000	E/C	$50,000	E/C	$50,000	E/C	$50,000	E/C	$50,000	E/C	$50,000	E/C	$50,000	E/C
	Transportation Technology (Fiber Network)	Street	$100,000	E/C	$100,000	E/C	$100,000	E/C	$100,000	E/C	$100,000	E/C	$100,000	E/C	$100,000	E/C	$100,000	E/C	$100,000	E/C
	Signal Upgrades	Street	$500,000	E/C	$500,000	E/C	$500,000	E/C	$500,000	E/C	$500,000	E/C	$500,000	E/C	$500,000	E/C	$500,000	E/C	$500,000	E/C
	Capacity/Safety Improvements																			
	Western Ave (5th Ave - BH Hwy)	TDT	$150,000	E/ROW	$1,100,000	C	$75,000	C												
	Allen Blvd/Erickson Ave Intersection Improvement	TDT							$250,000	E	$750,000	ROW	$1,500,000	C	$250,000	C				
	Hall Blvd/Greenway Intersection Improvement	TDT															250,000	E	850,000	ROW
		TOTAL	$ 7,928,000		$ 11,885,000		$ 7,181,000		$ 6,500,000		$ 6,750,000		$ 7,500,000		$ 6,250,000		$ 6,250,000		$ 6,850,000	

PHASE	
P	Planning
E	Engineering
ROW	Right of Way
C	Construction
S	Savings for Future Work

	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
STREET FUND TOTAL	$5,979,600	$7,015,520	$6,856,000	$6,250,000	$6,000,000	$6,000,000	$6,000,000	$6,000,000	$6,000,000
STREET FUND REVENUE	$4,400,000	$4,700,000	$4,700,000	$4,700,000	$4,700,000	$4,700,000	$4,700,000	$4,700,000	$4,700,000
STREET FUND SHORTFALL	**$1,579,600**	**$2,315,520**	**$2,156,000**	**$1,550,000**	**$1,300,000**	**$1,300,000**	**$1,300,000**	**$1,300,000**	**$1,300,000**

WATER FY 2020-21 THROUGH FY 2028-29

CIP #	PROJECT NAME	Funding Source	2020-21 TOTAL	2020-21 PHASE	2021-22 TOTAL	2021-22 PHASE	2022-23 TOTAL	2022-23 PHASE	2023-24 TOTAL	2023-24 PHASE	2024-25 TOTAL	2024-25 PHASE	2025-26 TOTAL	2025-26 PHASE	2026-27 TOTAL	2026-27 PHASE	2027-28 TOTAL	2027-28 PHASE	2028-29 TOTAL	2028-29 PHASE
3611	JWC CIP (Capital Repair/Replacement)*	O&M	$ 883,761	E/C	$ 1,154,915	E/C	$ 655,045	E/C	$ 430,536	E/C	$ 445,605	E/C	$ 445,298	E/C	$ 378,583	E/C	$ 391,833	E/C	$ 828,727	E/C
3611	Barney Reservoir JWC CIP (Capital Repair/Replacement)*	O&M	$ 27,638	E/C	$ 28,605	E/C	$ 29,606	E/C	$ 30,642	E/C	$ 31,715	E/C	$ 32,825	E/C	$ 33,974	E/C	$ 35,163	E/C	$ 36,393	E/C
	Scoggins Dam/Hagg Lake Capacity Increase - Existing Dam 20 ft raise or downstream concrete dam	O&M											$ 800,000	E/C	$ 800,000	E/C	$ 800,000	E/C	$ 800,000	E/C
4017	Water System Hydraulic & Mapping	O&M	$ 50,000	E	$ 50,000	E	$ 50,000	E	$ 50,000	E										
4158	AMI/Fixed Based Automated Meter Reading Infrastructure - (antenna(s) tower & communication network, meters for SCM)	O&M	$ 100,000	C	$ 200,000	C	$ 300,000	C	$ 100,000	C	$ 100,000	C	$ 100,000	C	$ 100,000	C	$ 100,000	C	$ 100,000	C
4169B	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 2 of 3	O&M	$ 500,000	C																
4169C	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 3 of 3	O&M	$ 30,000	E	$ 500,000	C														
4135	Griffith Drive Waterline Replacement, 3,100 LF of 8"	O&M					$ 400,000	E/C	$ 400,000	C										
	Willow Grove Waterline Improvements	O&M					$ 30,000	E/C	$ 300,000	C										
	Erickson Trunk Waterline Improvements (6th to Farmington) - 12" DI 1450 ft	O&M																	$ 450,000	E/C
	Chestnut pl (8" DI 1150 ft - Oak to Elm	O&M																	$ 250,000	E/C
	Chestnut pl (8" DI 1200 ft - Cypress to BH Hwy	O&M																	$ 260,000	E/C
	Spruce (8" DI 1550 ft)	O&M																	$ 350,000	E/C
	Elm (12" DI 1300 ft - Chestnut to Old Scholls Ferry Rd)	O&M																	$ 400,000	E/C
	Elm (12" DI 1300 ft - Royal Woodlands to Oak St)	O&M																	$ 400,000	E/C
	Oak (6" DI 250 ft - Chestnut to Elm	O&M																	$ 50,000	E/C
	9th Street (300 ft of 6" DI)	O&M																	$ 60,000	E/C
	9th Street (1025 ft of 6" DI)	O&M															$ 200,000	E/C		
	152nd Ave (8"DI 1900 LF - City limits to Davis)	O&M															$ 400,000	E/C		
	Glenbrook Road (152nd to End, 6" DI 1250)	O&M															$ 225,000	E/C		
	New Plymouth Lane (152nd to Shallowbrook - 6" 600 ft)	O&M															$ 115,000	E/C		
	Shallowbrook Lane (David to 152nd - 6" 700 ft)	O&M															$ 130,000	E/C		
	Trillium Lane (Shallowbrook Lane to Village Lane - 6" 450 ft)	O&M															$ 85,000	E/C		
	Watson (7th St to 12th st - 8" 1120 ft)	O&M															$ 250,000	E/C		
	9th (Main to Watson - 6" 450 ft)	O&M															$ 85,000	E/C		
	Washington-5th to 7th (500 LF of 8")	O&M															$ 115,000	E/C		
4170	Nimbus South - Hall to Scholls (System Upgrade)	O&M									$ 500,000	E/C	$ 500,000	C						
4144	Spirea and CherryHill Dr (400LF 6" and 1400 8")	O&M			$ 250,000	E/C	$ 250,000	C												
4060	Water System Security Upgrades (including Shake Alert)	O&M	$ 50,000	E	$ 50,000	E/C	$ 50,000	E	$ 50,000	E										
4088	Energy Recovery Hydro Projects (Energy Trust of Oregon) - Sexton Mtn Reservoir & PS Energy Recovery from JWC 36" transmission line	O&M			$ 100,000	C														
4117	Washington-7th to 9th St, 9th St-Washington to Hall (800 LF of 6")	O&M					$ 165,000	E/C												
4123	Barlow Ct. - Barlow Road to Barlow Road (1,500 LF of 6")	O&M					$ 300,000	E/C												
4124	Lisa Lane - 141st Ave to Bonnie Brae (1,200 LF of 6")	O&M					$ 80,000	E/C												
4136	22nd Ave (Dale Ave - Hall Blvd), 1,100LF 8"	O&M					$ 25,000	E	$ 175,000	C										
6093	Royal Woodlands South/Pine Hills Subdivision Utility Replacement	O&M	$ 300,000	C																
4017A	Water System Master Plan	O&M									$ 400,000									
	Rate and SDC Study	O&M									$ 100,000									
	Water Management and Conservation Plan	O&M									$ 150,000									
4078C	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phases 3 Design	O&M	$ 200,000	E	$ 200,000	E/C	$ 500,000	C	$ 500,000	C	$ 500,000	C	$ 500,000	C						
6092/6094	Bel-Aire Drive Area Utility Replacement (Cresmoor/Ridgeview Subdivision South)	O&M	$ 200,000	E/C	$ 200,000	C	$ 200,000	C												
	Cape Meares Ct. (Davis Road to end), 500 LF 8"	O&M									$ 100,000	E/C								
	Area within Murray/Wilson/Allen/Cherryhill in 1/4 Section 3715	O&M									$ 100,000	E/C	$ 100,000	C	$ 100,000	C	$ 100,000	C		
	McKay Subdivision (Phases 1, 2, 3) Waterline Replacements	O&M									$ 100,000	E/C	$ 100,000	C	$ 100,000	C				
	Sussex (Hall Blvd. to 6856), 1000 LF of 8"	O&M													$ 200,000					
	Harlequin Dr. - south of Shelldrake Way, 1,500LF of 8"	O&M															$ 275,000	E/C		
	Shelldrake Way (158th Ave. to Harlequin Dr.), 750LF of 8"	O&M													$ 150,000	E/C				
	Cherryville Dr. (Wilson to 20th and Azalea Ct.), 1,400LF of 8"	O&M											$ 260,000	E/C						
	Red Haven Drive (Cherryhill Dr. to 22nd Ave.), 1,400LF of 6" (2)	O&M											$ 250,000	E/C						
	6th - Watson - Stott	O&M									$ 200,000	E/C								

WATER FY 2020-21 THROUGH FY 2028-29

CIP #	PROJECT NAME	Funding Source	2020-21 TOTAL	2020-21 PHASE	2021-22 TOTAL	2021-22 PHASE	2022-23 TOTAL	2022-23 PHASE	2023-24 TOTAL	2023-24 PHASE	2024-25 TOTAL	2024-25 PHASE	2025-26 TOTAL	2025-26 PHASE	2026-27 TOTAL	2026-27 PHASE	2027-28 TOTAL	2027-28 PHASE	2028-29 TOTAL	2028-29 PHASE
4006	Water System Telemetry (annual upgrade project)	SDC	$ 200,000	C	$ 200,000	C	$ 200,000	C	$ 200,000	C	$ 200,000	C	$ 200,000	C	$ 200,000	C	$ 200,000	C	$ 200,000	C
4018	Wellhead Protection	SDC	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E
4046	Lloyd Water Line (TVH to Henry) - Upsize to 8", 500 LF	SDC	$ 75,000	C																
4021F	ASR Well No. 6, (fence 2 lots 2018, well maintenance/testing)	SDC	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 50,000	E	$ 500,000	C	$ 1,000,000	C	$ 3,000,000	C
4021H	ASR Well No. 7 (Cooper Mt. ASR, well maintenance/testing)	SDC	$ 10,000	E	$ 10,000	E	$ 10,000	E	$ 10,000	E										
	ASR Well No. 7a (Cooper Mt. ASR, well maintenance/testing)	SDC									$ 500,000	E	$ 2,000,000	C	$ 1,500,000	C	$ 100,000	C		
4154	Urban Reserve Infrastructure Analysis (6B) - POTABLE	SDC	$ 100,000	P/E	$ 100,000	P/E	$ 100,000	P/E	$ 100,000	P/E										
4514	Urban Reserve Infrastructure Analysis (6B) - NON POTABLE	SDC	$ 100,000	P/E	$ 100,000	P/E	$ 100,000	P/E	$ 100,000	P/E										
	SW 209th Ave/TV Hwy Pump Station	SDC							$ 300,000	E	$ 1,500,000	C	$ 1,500,000	C	$ 1,500,000	C	$ 1,500,000	C		
	Mt. Williams Reservoir (10 MG) SW 160th Avenue/David Road - Phase 1	SDC																	$ 500,000	E
4021D	ASR Well No. 5 (includes combined facility w/Sorrento PS seismic upgrades)	IFA	$ 4,100,000	C																
4151A	175th Transmission Main, 24" (Winkleman Park to Alvord Lane, 4800lf)	Bond	$ 1,147,600	C																
4058A	Cooper Mountain (5.5 MG) Reservoir No. 2	Bond	$ 10,012,060	C	$ 6,500,000	C														
4058B	Cooper Mountain (5.5 MG) Reservoir No. 3 (Siting and Land Purchase)	Bond													$ 300,000	E	$ 1,500,000	C	$ 2,000,000	C
4021G	South Cooper Non-potable (Nonpotable Program Manager)	Bond	$ 300,000	E																
4021G	South Cooper Non-potable (Ground water pumping station and injection system, storm water treatment system)	Grant	$ 1,000,000	C	$ 1,000,000	C	$ 1,000,000	C												
4021G	South Cooper Non-potable (Distribution piping)	SDC	$ 300,000	C	$ 300,000	C														
4128E	Millikan Way/Urban Renewal, TVWD Withdrawal Area 2	Bond	$ 300,000	C	$ 300,000	C	$ 200,000	C												
4128F	Southwest Beaverton (Burntwood), TVWD Withdrawal Area 3 - (Distribution Piping for direct serve)	Bond	$ 200,000	C	$ 200,000	C					$ 400,000	E/C	$ 400,000	C						
4128F	Area 3 - COB Tranmission Line Intertie - 160th Ave - Division to Davis Road w/ PRV (5,400 LF of 16")	Bond					$ 200,000	E	$ 400,000	C	$ 1,290,000	C								
4149	West Baseline (158th - 163rd) - 1600 LF of 16" (Bond)	Bond					$ 670,000	C												
5105	Waterhouse South Area 4 Withdrawal Area (Bond) (Walker Ph 3) - 4800 LF of 12" + PRV - recalc $ for 12" from 24"	Bond	$ 750,000	C	$ 500,000	C														
5088B	Waterhouse/Elmonica Area,Withdrawal Area 4 (Bond) (Walker Ph 2)	Bond	$ 1,150,000	C	$ 1,150,000	C														
	Distribution piping for direct serve (new and replacement)	Bond									$ 300,000	E/C	$ 300,000	E/C	$ 300,000	E/C	$ 300,000	E/C	$ 300,000	E/C
4159	TVWD Program Manager	Bond	$ 500,000	E	$ 500,000	E														
4051	Scoggins Dam Seismic Modification (former TBWSP)	Bond	$ 3,000	E	$ 3,000	E	$ 500,000	E/C	$ 1,000,000	C										
4126	Willamette Water Supply Program (WWSP)	Bond	$ 7,846,777	E/C	$ 13,966,666	E/C	$ 12,342,522	E/C	$ 5,037,289	E/C	$ 3,126,978	E/C	$ 332,018	E/C						
4155	Willamette Intake Facility (WIF) - Operational/Managing Agency	Bond	$ 353,354	E/C	$ 223,497	E/C	$ 752,927	E/C												
4155	Willamette Intake Facility (WIF) - Capital	Bond	$ 353,354	C	$ 223,497	C	$ 752,927	C												
4142	Tile Flat WWSP-COB Intertie & Fluoridation and Pump Station	Bond					$ 200,000	C	$ 300,000	C	$ 3,000,000	E	$ 3,000,000	E						
4143	NTL / STL Intertie and Transmission Line - Phase 1 (170th from SW Shaw to Baseline) - 7200 LF of 24"	Bond	$ 1,000,000	C	$ 1,000,000	C	$ 1,000,000	C	$ 1,000,000	C	$ 1,000,000	C								
4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 2 (Century Blvd NTL at Gordon Faber Rec Complex to Evergreen Pkwy) - 900 LF of 24"	Bond	$ 650,000	C																
4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 3 (173rd - Baseline to Cornell) - 9000 LF of 24"	Bond			$ 630,000	E	$ 3,300,000	C	$ 3,000,000	C										
4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 4 (Cornell - Evergren Pkwy - 173rd to Century) - 16,500 LF of 24"	Bond									$ 1,200,000	C	$ 3,000,000	C	$ 3,000,000	C	$ 3,000,000	C	$ 1,800,000	C
4172	TVWD opportunity projects - Metzger East Pipeline - Scholls Ferry Rd - Nimbus Ave to Allen Blvd - 10,000 LF of 16"	Bond	$ 100,000	E	$ 2,000,000	C	$ 2,000,000	C												
4173	TVWD opportunity projects - WWSP - SW Allen Blvd - Scholls Ferry to Western - 2,800 LF of 16"	Bond	$ 50,000	E	$ 625,000	C	$ 625,000	C												
4174	TVWD opportunity projects - WWSP - SW Western Ave - Allen to BH Hwy - 3,600 LF of 16"	Bond	$ 75,000	E	$ 750,000	C	$ 750,000	C												
		TOTAL	$ 33,037,544		$ 33,035,180		$ 27,758,027		$ 13,503,467		$ 15,264,298		$ 13,880,141		$ 9,172,557		$ 10,916,996		$ 11,795,120	

PHASE	
P	Planning
E	Engineering
ROW	Right of Way
C	Construction

SANITARY FY 2020-21 THROUGH FY 2028-29

			2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29	
CIP #	PROJECT NAME	Funding Source	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE
4154	Cooper Mountain Infrastructure Analysis	SDC	$ 50,000	P																
8098B	Utility Improvements at Dover Ln Near Oleson Rd (Dover North)	O&M	$ 250,000	C																
6096	McKay Subdivision Utility Improvements Phase 1	O&M	$ 400,000	E																
3408	Hocken Ave (RR - TV Hwy) Widening	O&M	$ 35,000	E	$ 390,000	C														
3328	Western Ave (5th St - Allen Blvd) Improvement	O&M	$ 10,000	E	$ 330,000	C														
3519A	Canyon Rd Intersection Improvements	SDC/O&M	$ 500,000	C																
	McKay Subdivisison Utility Improvements Phase 2	O&M			$ 40,000	E	$400,000	C												
	McKay Subdivisison Utility Improvements Phase 3	O&M					$40,000	E	$400,000	C										
	Murrayhill Trunk Upsizing	SDC					$200,000	E	$1,100,000	C										
	141st Trunk Improvements	SDC/O&M									$ 200,000	E	$ 1,250,000	C						
	Village/Burntwood Utility Improvements	SDC/O&M											$ 100,000	E	$ 610,000	C				
	Cedar Hills/Beaverdam Sewer Improvements	O&M													$ 150,000	E	$ 1,050,000	C		
	Birchwood Utility Improvements	O&M															$ 50,000	E	$ 430,000	C
	Canyon Lane Utility Improvements	O&M																	$ 200,000	E
	Rehabilitation/Replacement Oppurtunity Projects	O&M			$ 150,000	C	$150,000	C	$150,000	C	$150,000	C	$150,000	C	$150,000	C	$150,000	C	$150,000	C
		TOTAL	$ 1,245,000		$ 910,000		$ 790,000		$ 1,650,000		$ 350,000		$ 1,500,000		$ 910,000		$ 1,250,000		$ 780,000	

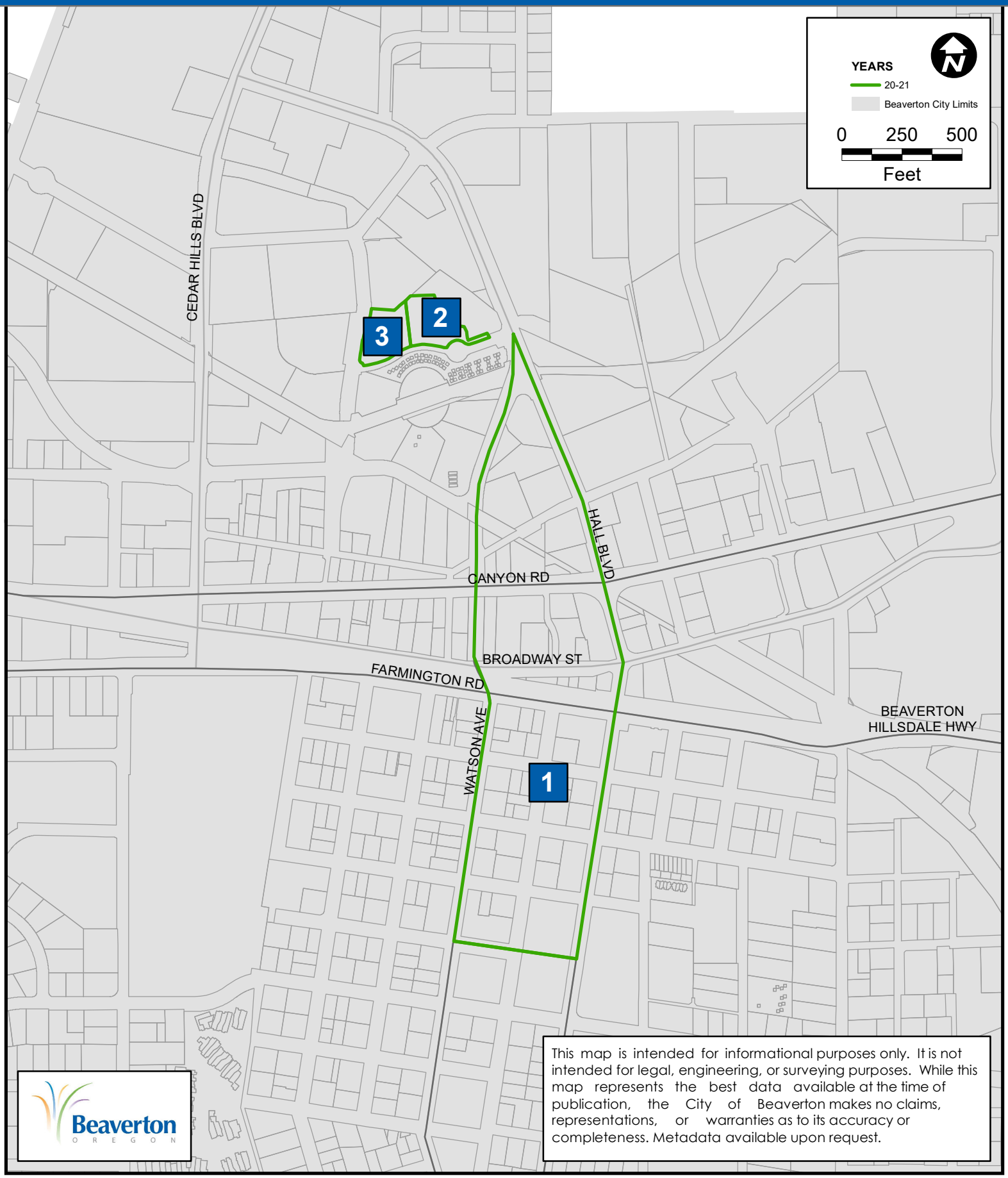
PHASE	
P	Planning
E	Engineering
ROW	Right of Way
C	Construction

STORM FY 2020-21 THROUGH FY 2028-29

CIP #	PROJECT NAME	Funding Source	2020-21 TOTAL	2020-21 PHASE	2021-22 TOTAL	2021-22 PHASE	2022-23 TOTAL	2022-23 PHASE	2023-24 TOTAL	2023-24 PHASE	2024-25 TOTAL	2024-25 PHASE	2025-26 TOTAL	2025-26 PHASE	2026-27 TOTAL	2026-27 PHASE	2027-28 TOTAL	2027-28 PHASE	2028-29 TOTAL	2028-29 PHASE
8098B	Utility Improvements at Dover Ln Near Oleson Rd (Dover North)	M&R	$ 400,000	C																
6096	McKay Subdivision Utility Improvements Phase 1	M&R	$ -	E	$ 50,000	C														
3328	Western Ave (5th St - Allen Blvd) Improvement	M&R	$ 10,000	E	$ 250,000	C														
	McKay Subdivision Utility Improvements Phase 2	M&R			$ 10,000	E	$50,000	C												
	McKay Subdivision Utility Improvements Phase 3	M&R					$10,000	E	$50,000	C										
	Village/Burntwood Utility Improvements	SDC/O&M											$ 10,000	E	$ 60,000	C				
	Birchwood Utility Improvements	O&M															$ 50,000	E	$ 430,000	C
	Canyon Lane Utility Improvements	SDC/M&R																		
8122	Rehabilitation/Replacement Projects to address deteriorated storm drain pipe conditions (frequently in conjunction with a street overlay, water, or sanitary sewer project)	SDC/M&R	$ 1,000,000	E&C	$ 1,000,000	E&C	$ 1,000,000	E&C	$ 1,000,000	E&C	$ 1,000,000	E&C	$ 1,000,000	E&C	$ 1,000,000	E&C	$ 1,000,000	E&C	$ 1,000,000	E&C
8135A	11750 SW Bvtn Hillsdale Hwy Stormwater Outfall to Beaverton Creek Retrofit (*subject to finding funding*)	SDC/Grant					1,100,000	C												
	Opportunity to enhance Surface Water Management in conjunction with a County Funded MSTIP Project	SDC/M&R	$ 100,000	C			$ 100,000	C			$ 100,000	C			$ 100,000	C			$ 100,000	C
	Small Works Projects, Eng. Svcs., and In-house OH Charges (annual recurring work item)	SDC/M&R	$ 150,000	E&C	$ 150,000	E&C	$ 150,000	E&C	$ 150,000	E&C	$ 150,000	E&C	$ 150,000	E&C	$ 150,000	E&C	$ 150,000	E&C	$ 150,000	E&C
	Stormwater (Surface Water Management) System Master Planning	SDC/M&C	$ 300,000	P											$ 400,000	P				
	Conveyance Enhancement project from Master Planning List	SDC					$500,000	E	$2,000,000	C					$500,000	E&ROW	$2,000,000	C		
	Stormwater outfall retrofit to provide treatment prior to discharge to creek.	SDC							$300,000	ROW	$300,000	E	$2,000,000	C			$300,000	ROW	$300,000	E
	Installation of pre-treatment faculties prior to selected stormwater treatment facilities and/or correct deficient maintenance access situation	M&R			$ 200,000	E&C	$ 200,000	E&C	$ 200,000	E&C	$ 200,000	E&C	$ 200,000	E&C	$ 200,000	E&C	$ 200,000	E&C	$ 200,000	E&C
		TOTAL	$ 1,960,000		$ 1,660,000		$ 3,110,000		$ 3,700,000		$ 1,750,000		$ 3,360,000		$ 2,410,000		$ 3,700,000		$ 2,180,000	

PHASE	
P	Planning
E	Engineering
ROW	Right of Way
C	Construction

Civic CIP Projects
FY 2020-21 Through FY 2028-29
Overall Map



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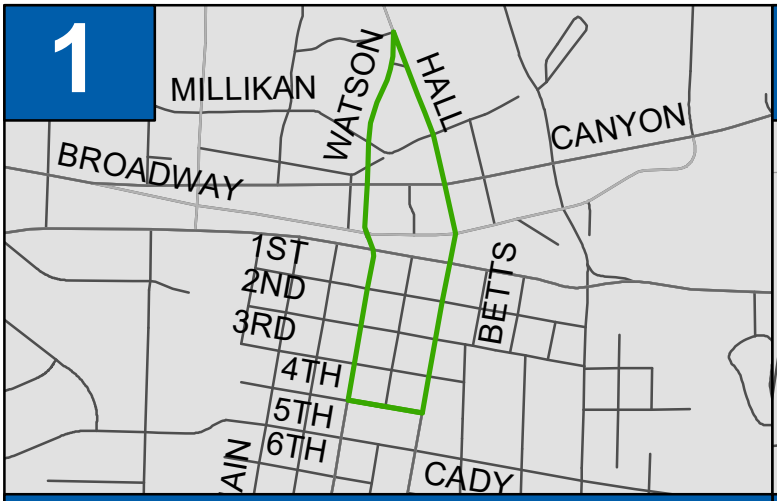
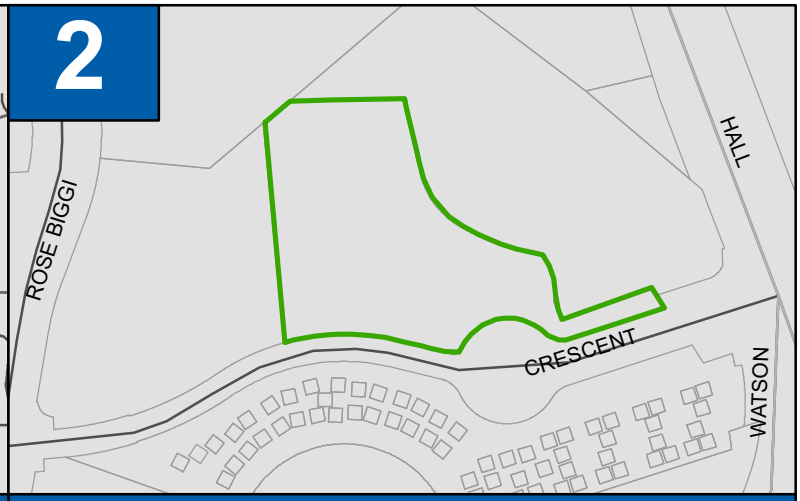
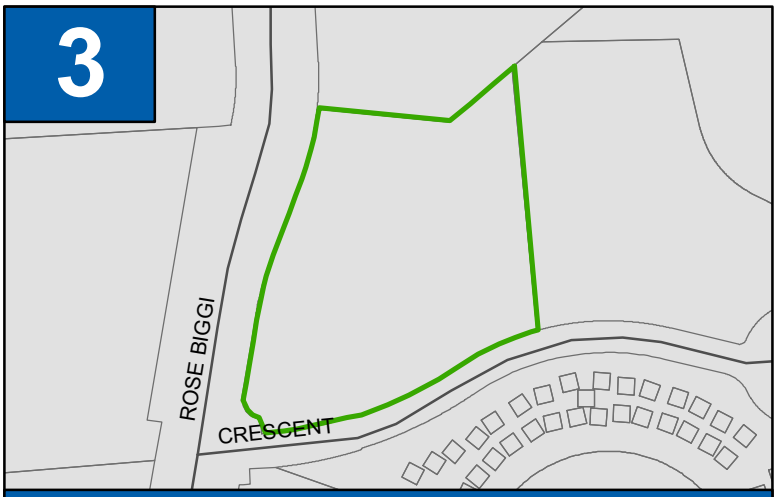
Civic CIP Projects Outyears



Hall-Watson Loop
Improvements (Phase 1) - CIP 5120

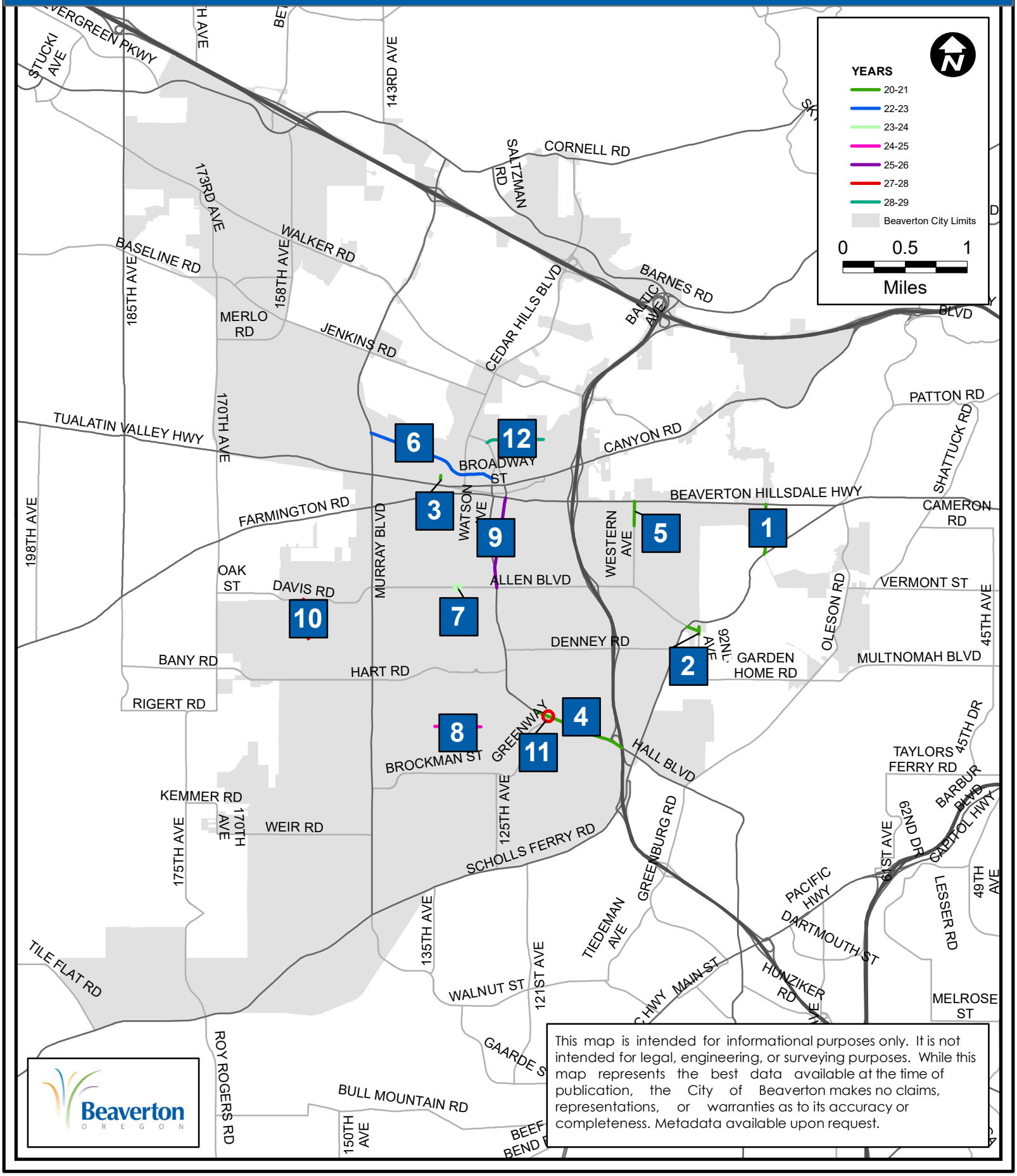


Patricia Reser Center
for the Arts - CIP 3521



Lot 2
Parking Garage - CIP 5099

Transportation CIP Projects
FY 2020-21 Through FY 2028-29
Overall Map



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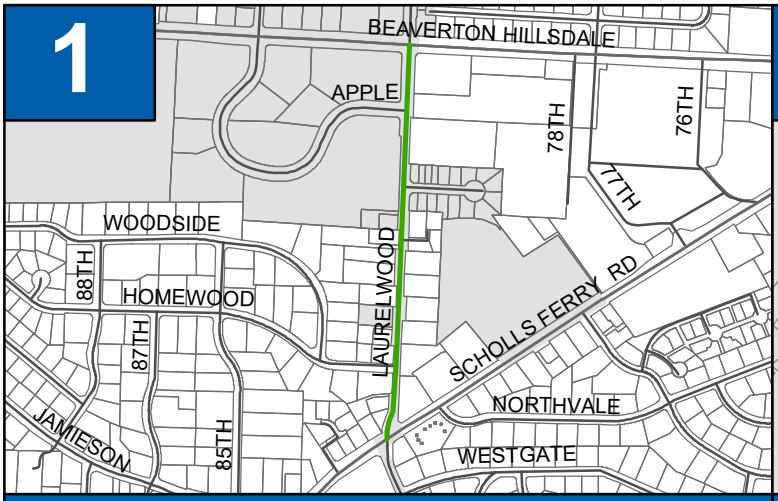
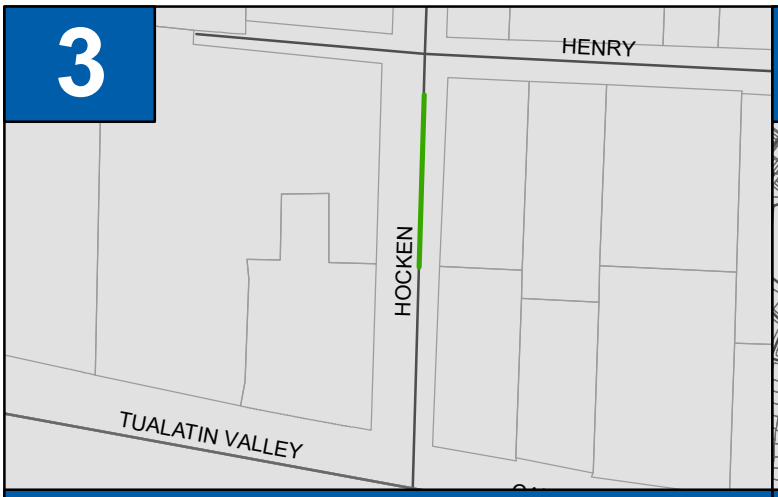
Transportation CIP Projects Outyears

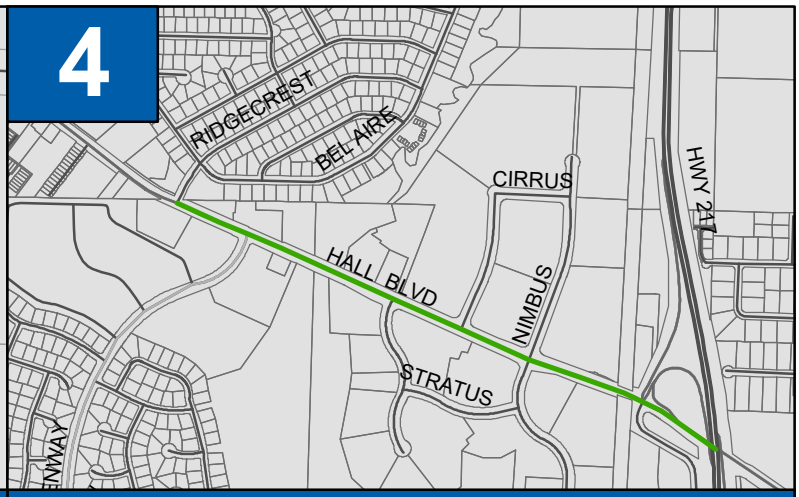


Laurelwood Ave (Scholls Ferry Rd-Apple Wy)
Sidewalks - CIP 3113

Allen Blvd/92nd Ave Shared
Use Path Connection - CIP 3112

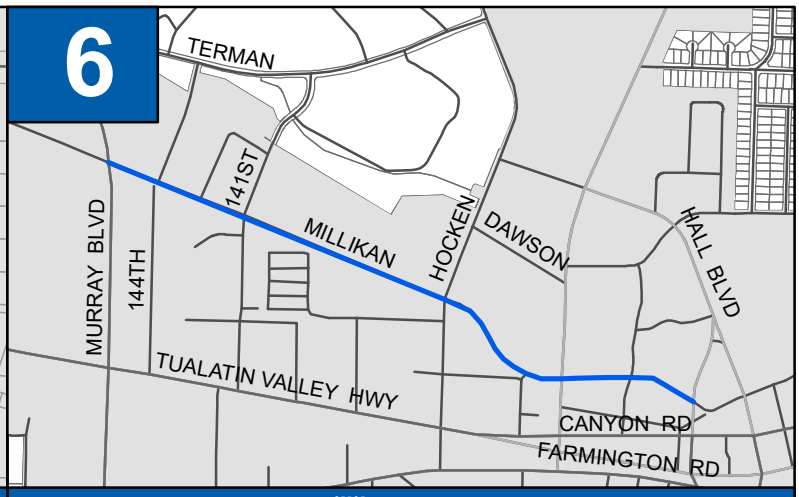


Hocken Ave (RR - TV Hwy) Widening
CIP 3408



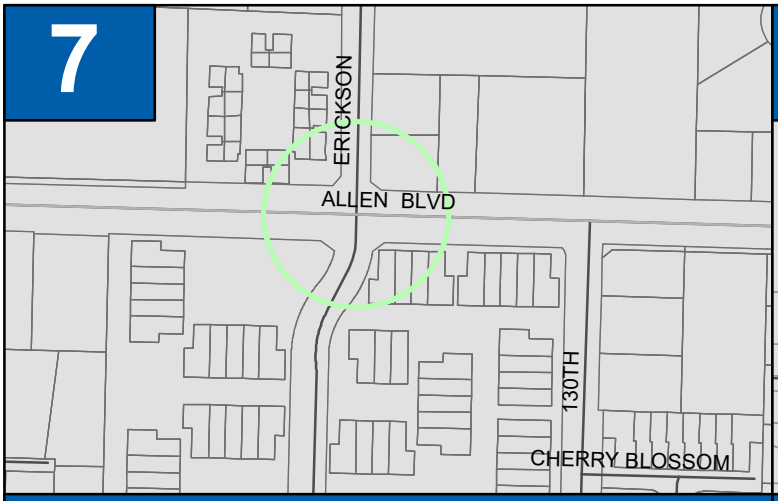
Hall Blvd (Ridgecrest - Hwy 217) Overlay
CIP 3416

Western Ave
(5th Ave - Beaverton Hillsdale Hwy)

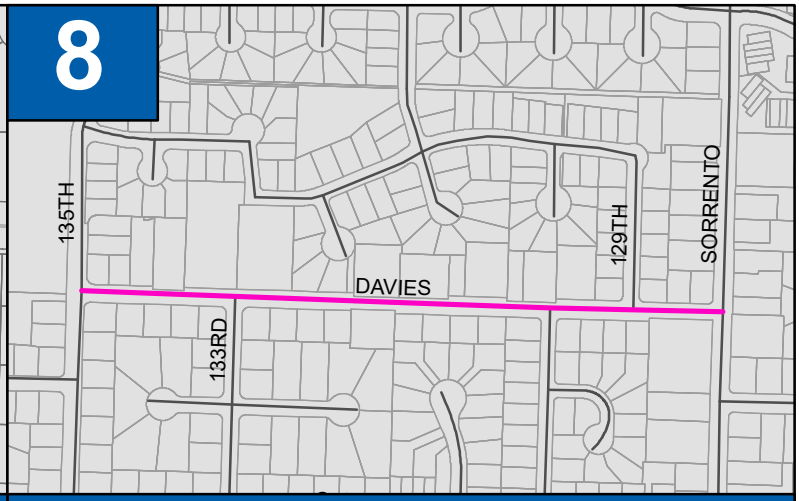


Millikan Way
(Murray - Watson) Overlay

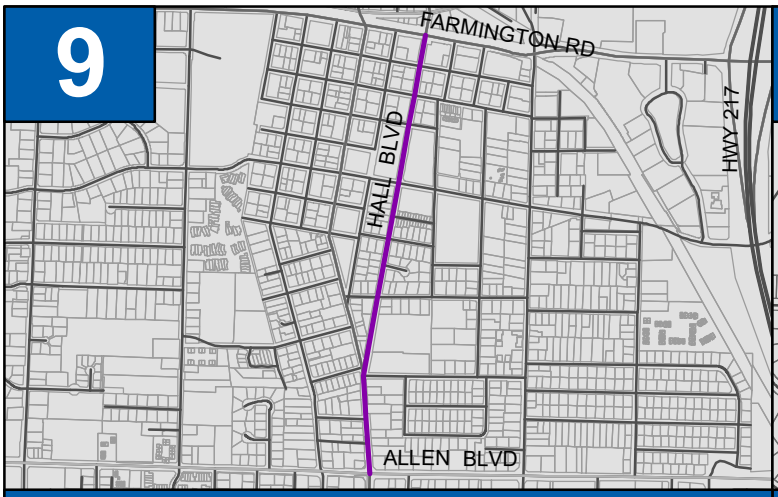
Transportation CIP Projects Outyears



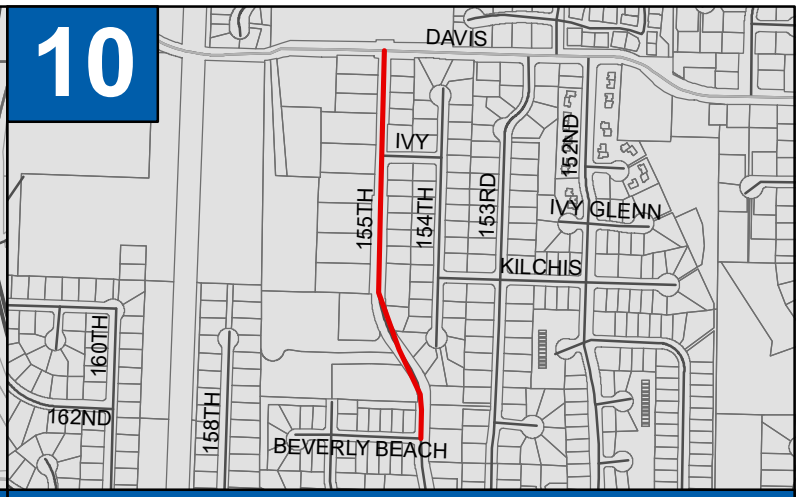
Allen Boulevard/Erickson Avenue
Intersection Improvement



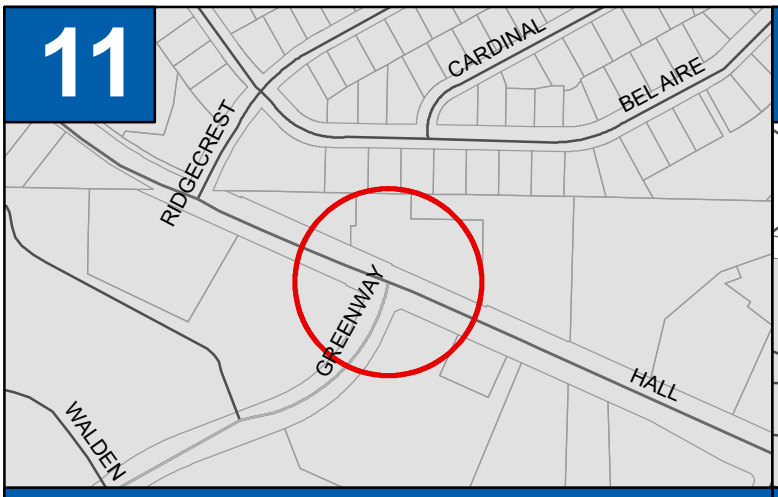
Davies Road
(135th Ave - Sorrento Rd) Sidewalk



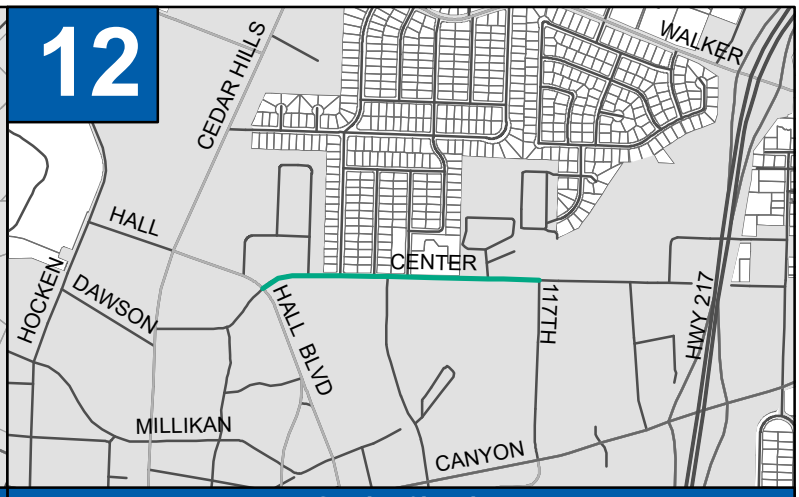
Hall Boulevard
(Farmington Rd - Allen Blvd) Overlay



155th Avenue
(Davis Rd - Beverly Beach Ct)

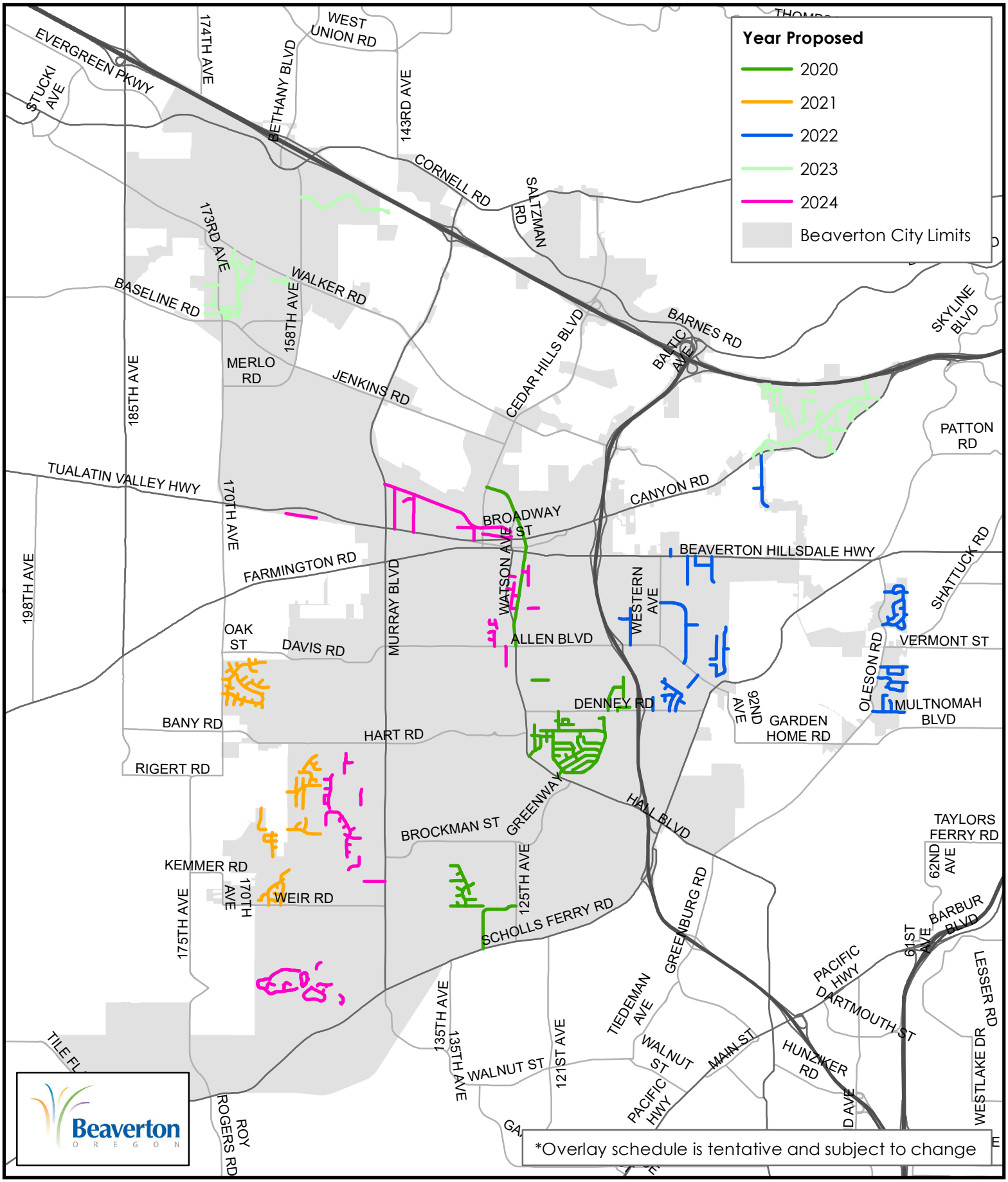


Hall Boulevard/Greenway
Intersection Improvements



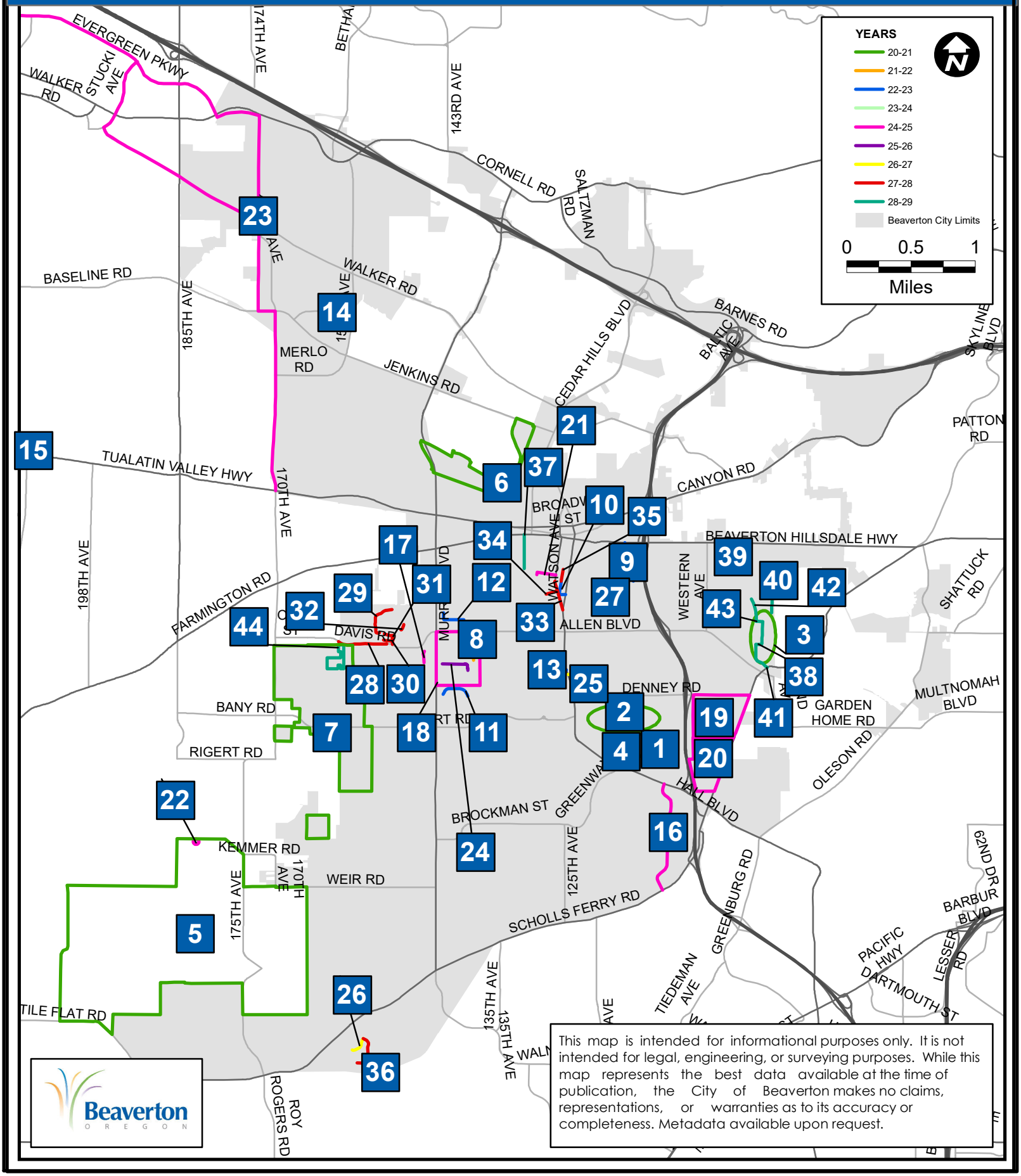
Center Street
(117th St - Hall Blvd) Overlay

Street Paving Years 2020-24*



*Overlay schedule is tentative and subject to change

Water CIP Projects
FY 2020-21 Through FY 2028-29
Overall Map



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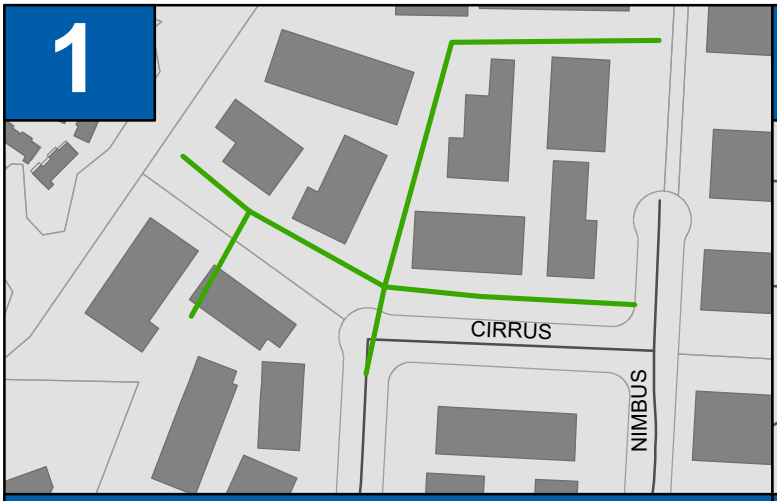
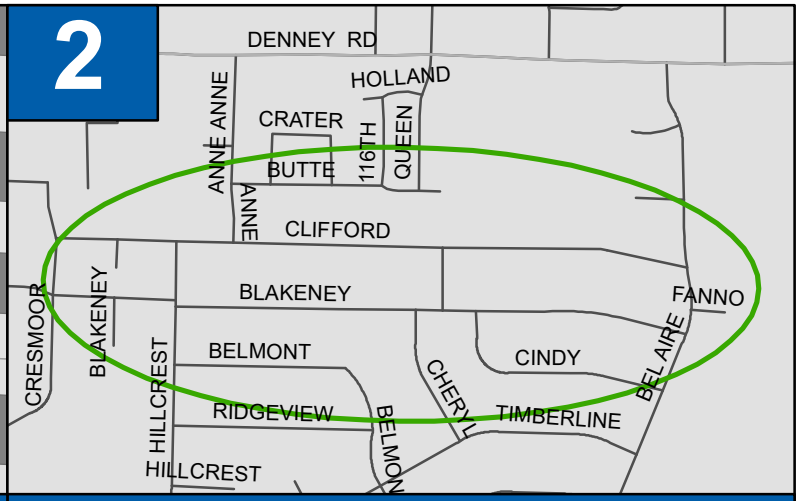
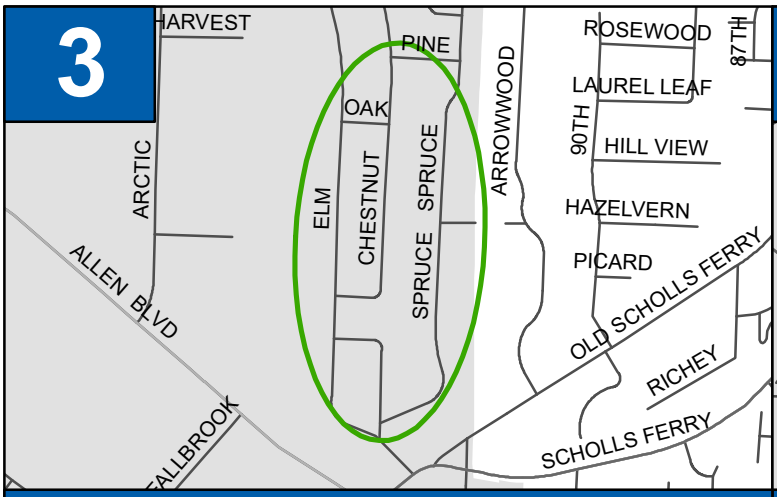
Water CIP Projects Outyears



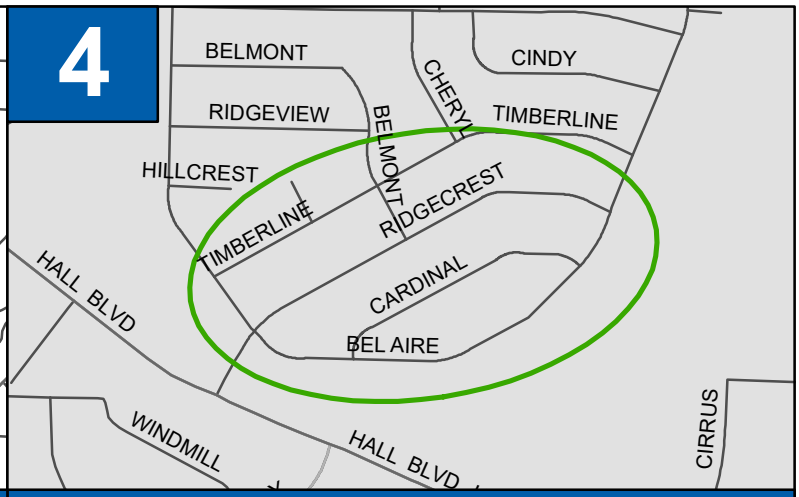
Nimbus North - Hall to Denney Commerce Center
System Upgrade - CIP 4169C



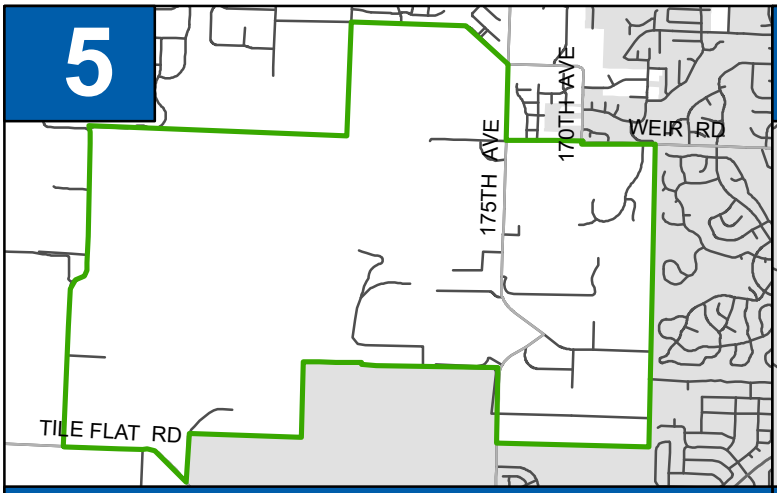
BelAire Subdivision Utility Improvements
Phase 2 - CIP 6092



Royal Woodlands South/Pine Hills
Subdivision Utility Repacement - CIP 6093



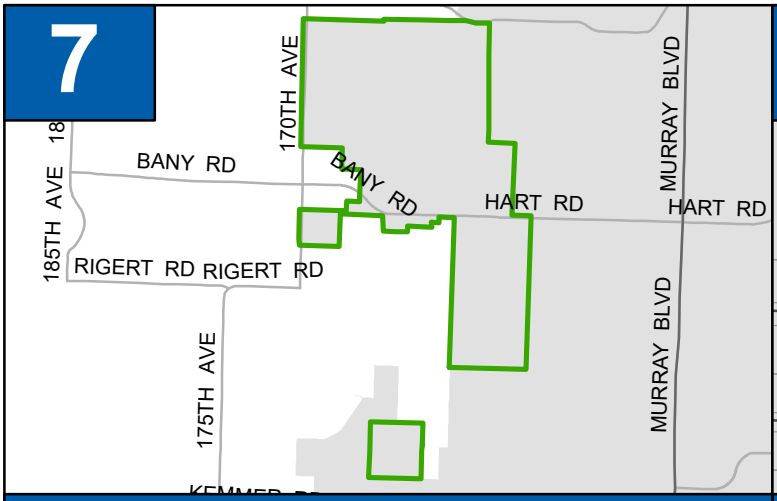
BelAire Subdivision Utility Improvements
Phase 3 - CIP 6094



Urban Reserve Infrastructure Analysis
(6B) - POTABLE - CIP 4154

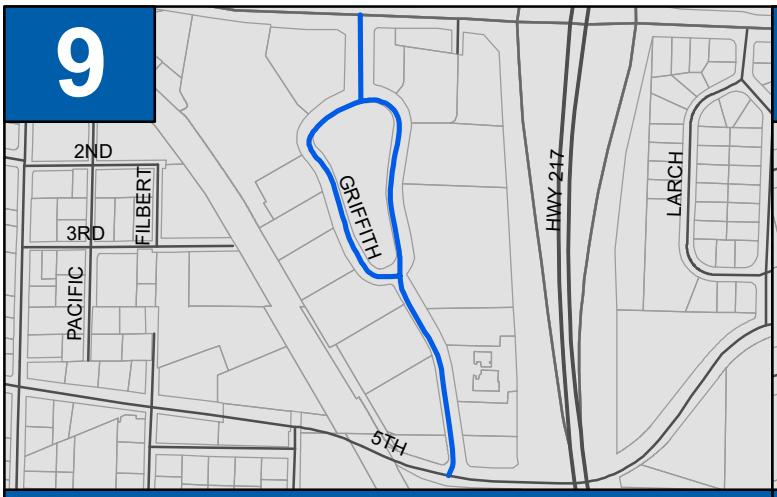
Millikan Way/Urban Renewal,
TVWD Withdrawal Area 2 - CIP 4128E

Water CIP Projects Outyears



Southwest Beaverton (Burntwood) TVWD Withdrawal Area 3 - CIP 4128F

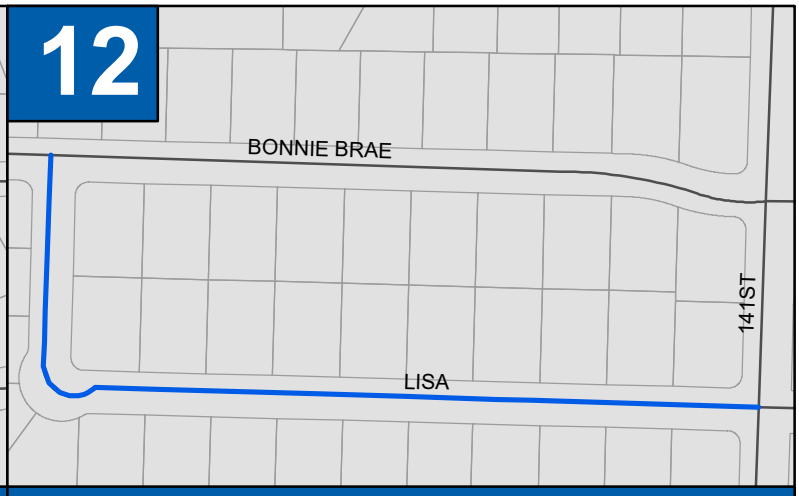
Spirea and Cherryhill Drive CIP 4144



Griffith Drive Waterline Replacement CIP 4135

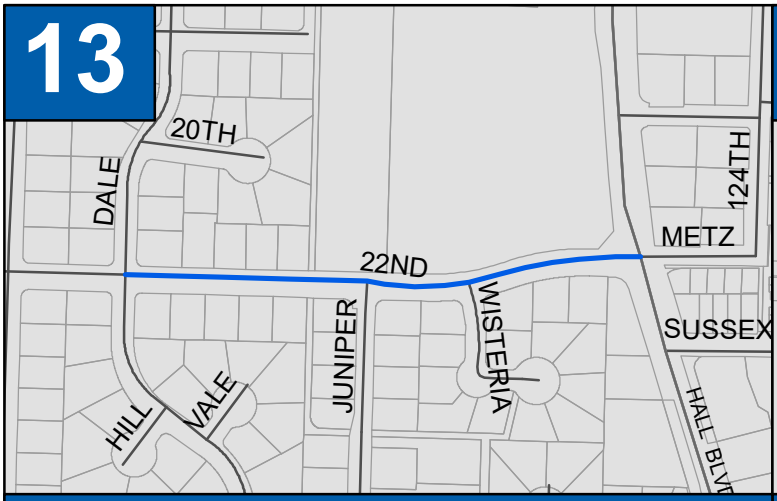
Washington-7th to 9th St, 9th St-Washington to Hall - CIP 4117

Barlow Ct. - Barlow Road to Barlow Road - CIP 4123

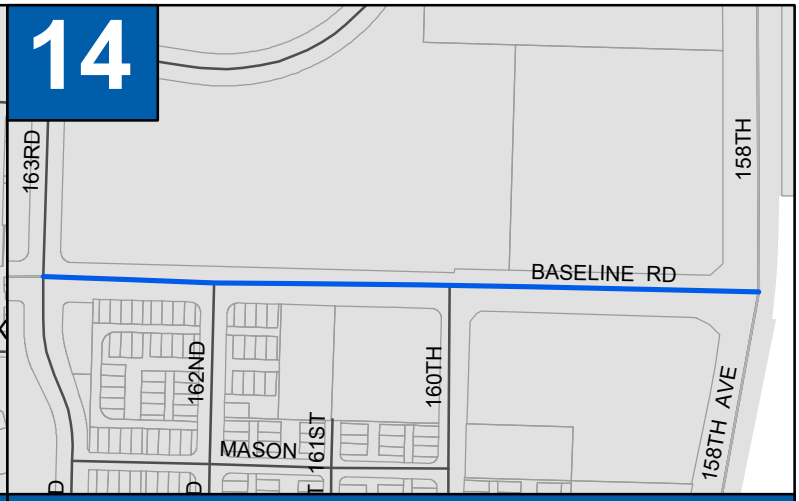


Lisa Lane - 141st Ave to Bonnie Brae - CIP 4124

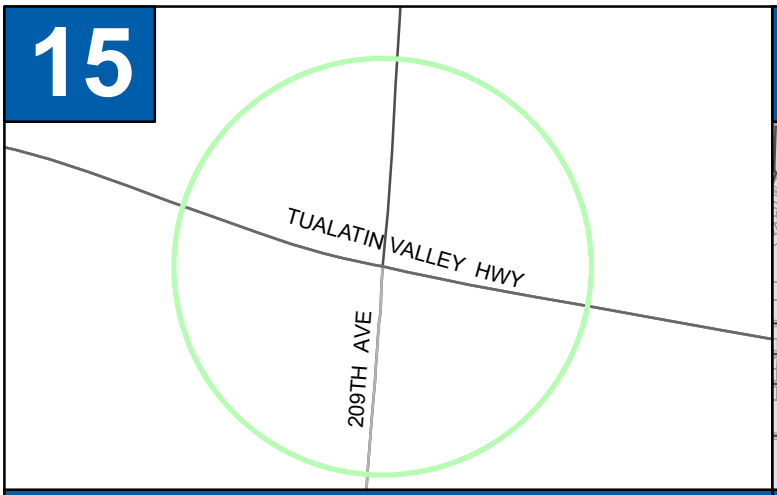
Water CIP Projects Outyears



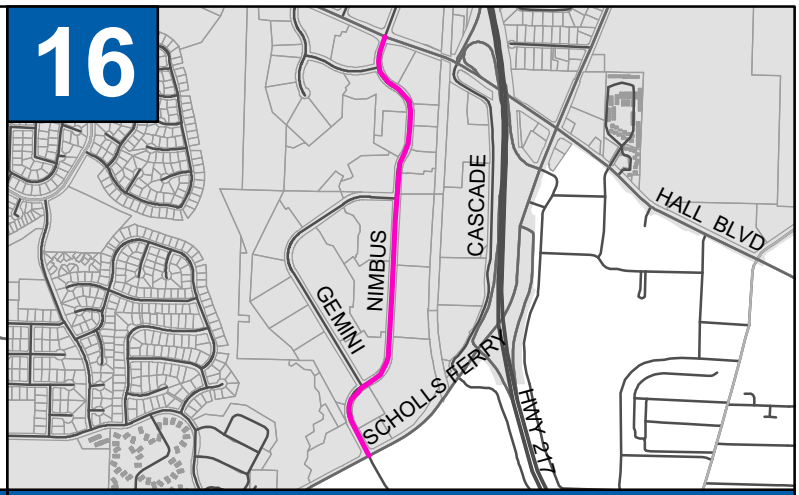
22nd Ave (Dale Ave - Hall Blvd)
CIP 4136



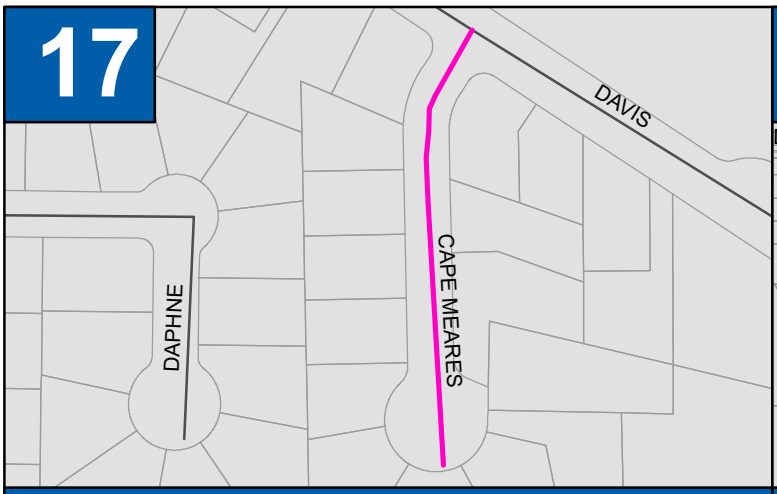
West Baseline (158th - 163rd)
CIP 4149



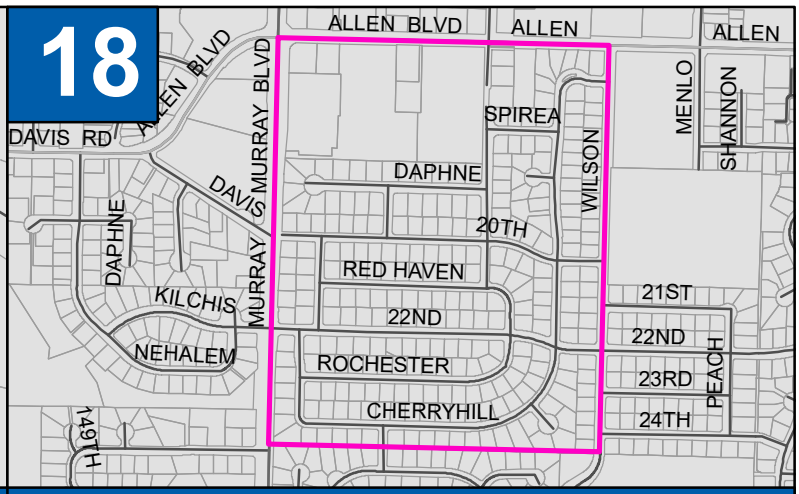
SW 209th Ave/TV Hwy Pump Station
CIP 3614



Nimbus South - Hall to Scholls
(System Upgrade) - CIP 4170

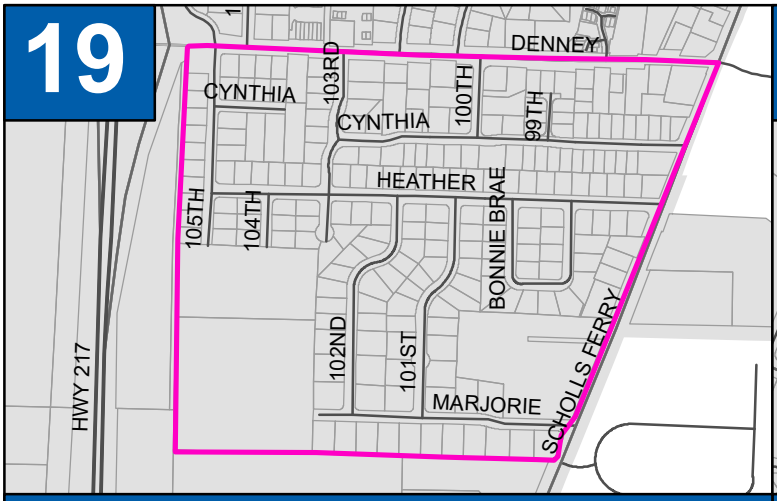


Cape Meares Ct. (Davis Road to end)
CIP 4137

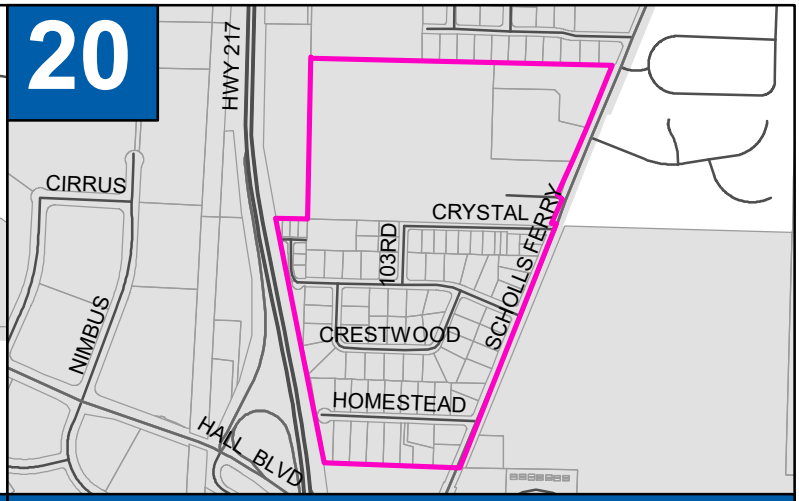


Area within Murray/Wilson/Allen/Cherryhill
in Quarter Section 3715

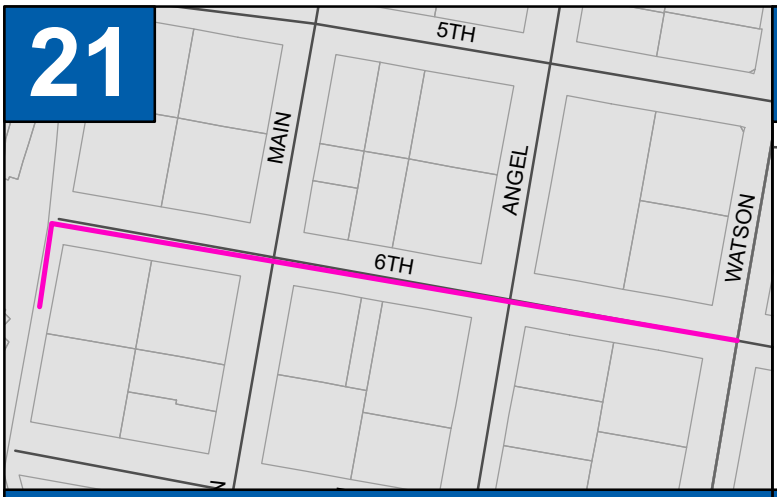
Water CIP Projects Outyears



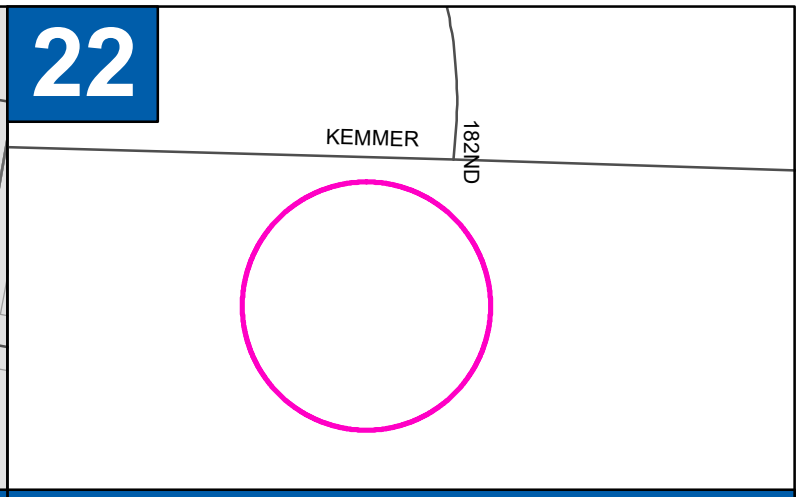
McKay Subdivision Phase 2
Waterline Replacements - CIP 6097



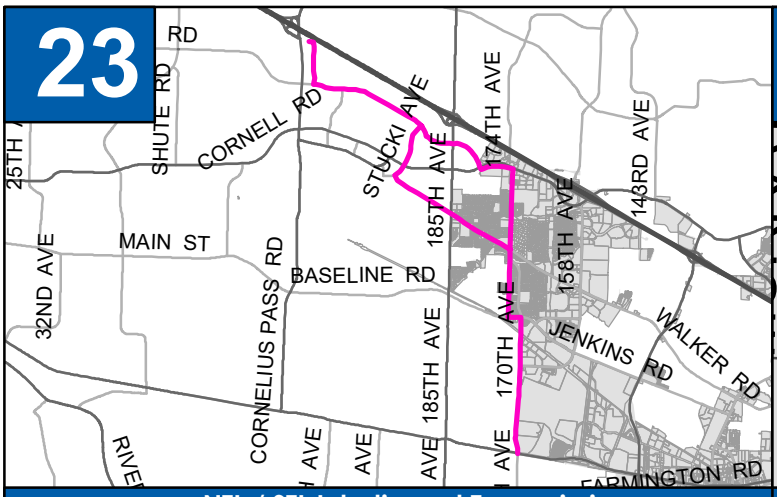
McKay Subdivision Phase 3
Waterline Replacements - CIP 6100



6th - Watson - Stott
CIP 4116



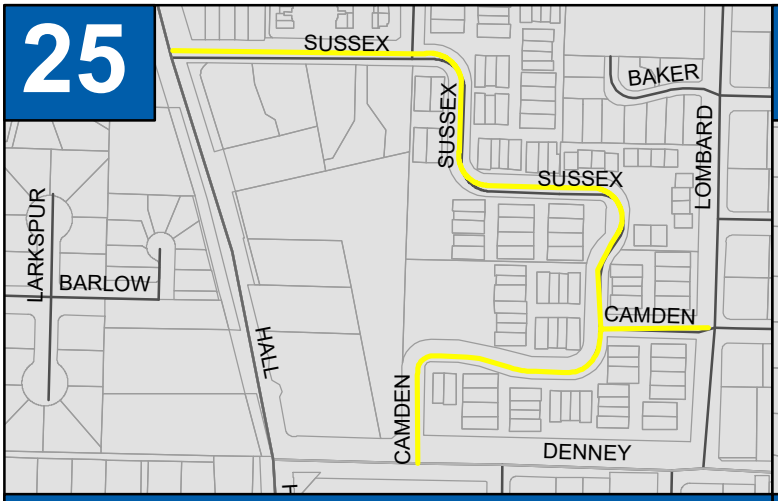
ASR Well No. 7a (Cooper Mt. ASR,
well maintenance/testing) - CIP 4021H



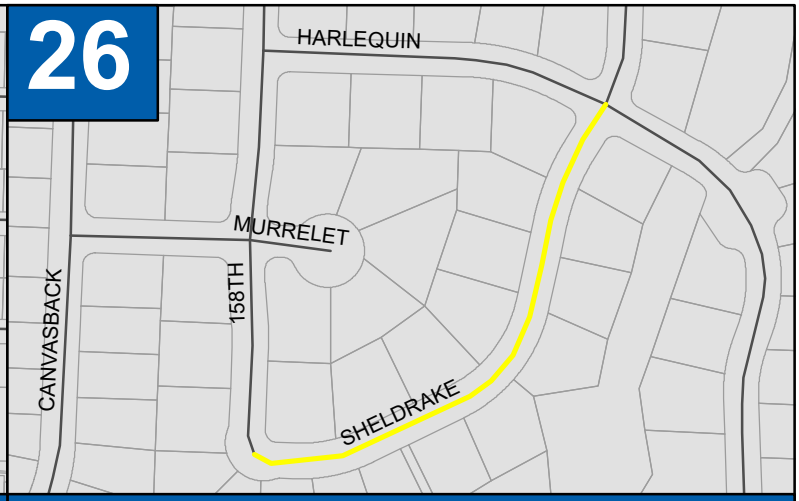
NTL / STL Intertie and Transmission
Line Phase 4 - CIP 4143

Red Haven Drive (Cherryhill Dr. to 22nd Ave.)
CIP 4147

Water CIP Projects Outyears

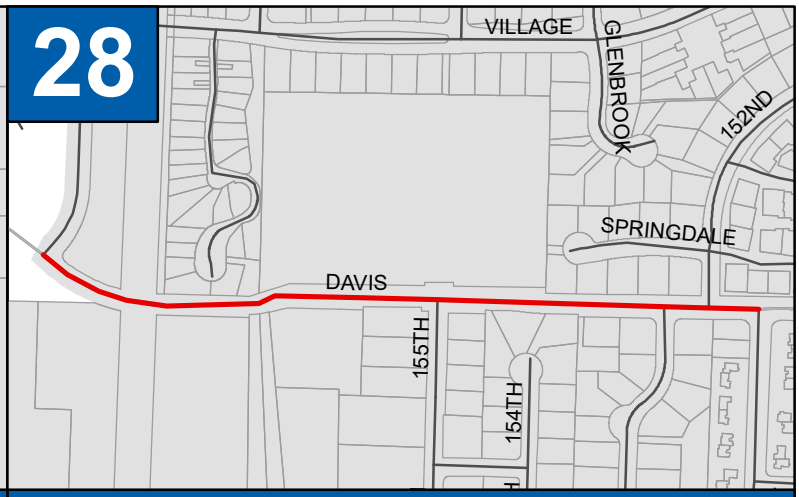


Sussex Street (Hall to Camden)
CIP 4130

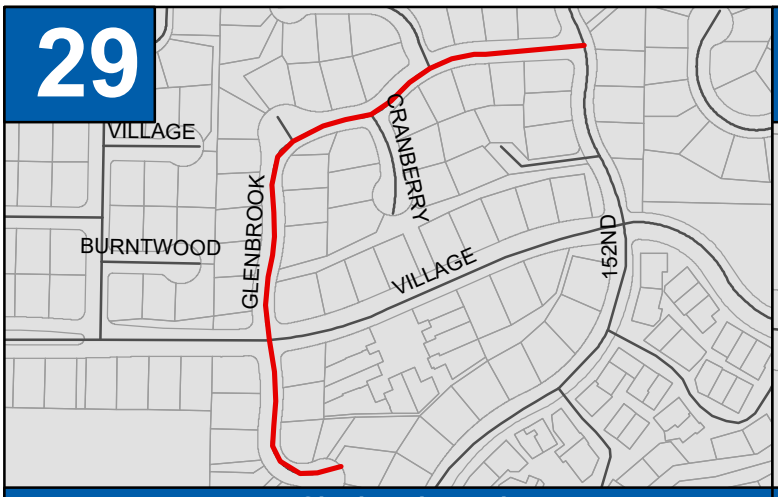


Shelldrake Way (158th Ave. to Harlequin Dr.)
CIP 4146

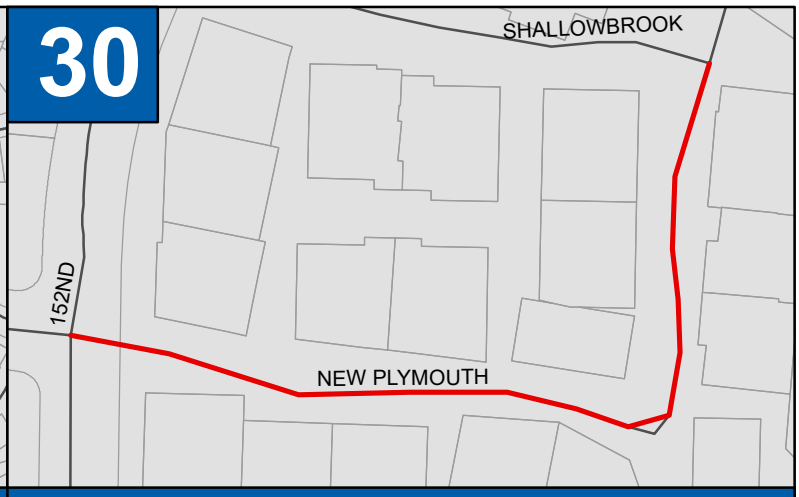
9th Street
(Lombard to Alger)



152nd Avenue
City limits to Davis

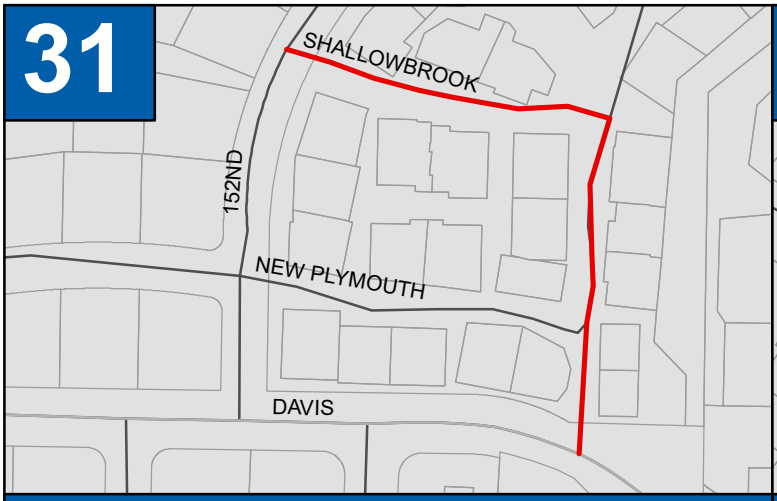


Glenbrook Road
(152nd to End)

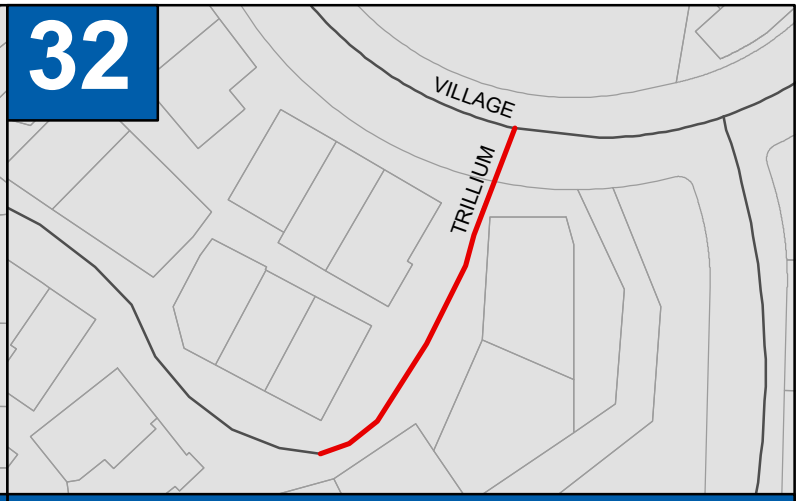


New Plymouth Lane
(152nd to Shallowbrook)

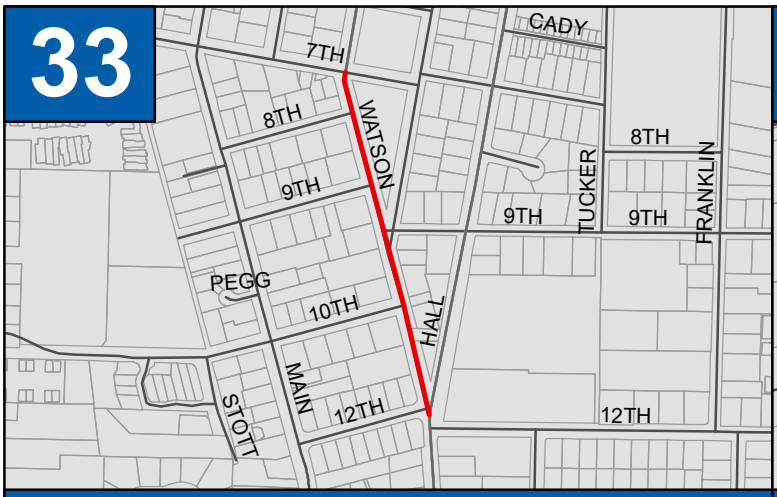
Water CIP Projects Outyears



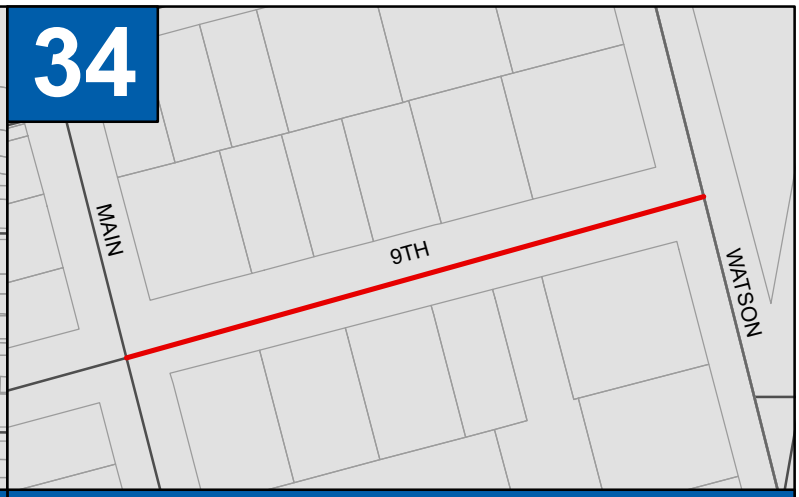
Shallowbrook Lane
(David to 152nd)



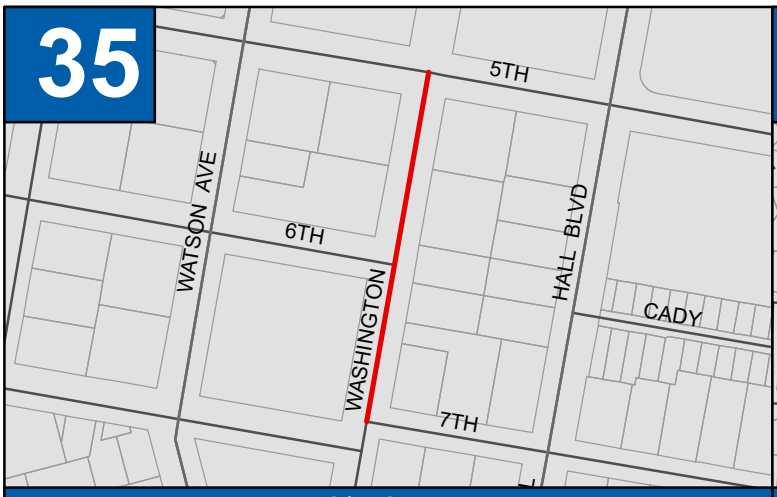
Trillium Lane
(Shallowbrook Lane to Village Lane)



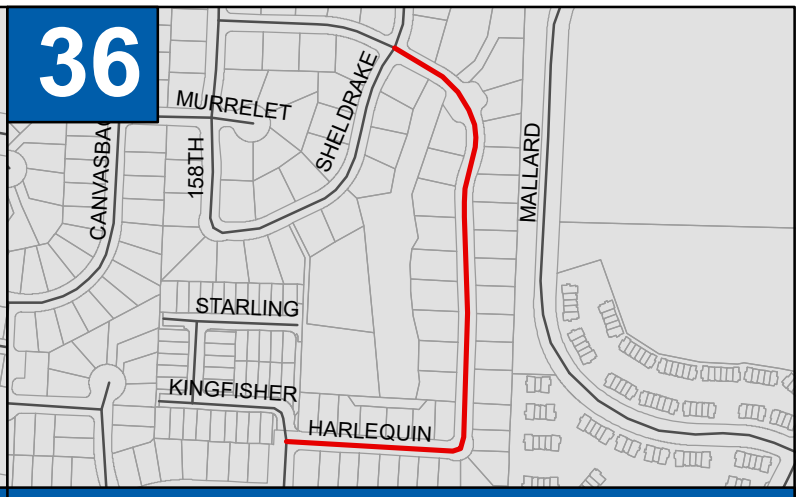
Watson Avenue
(7th to 12th)



9th Street
(Main to Watson)



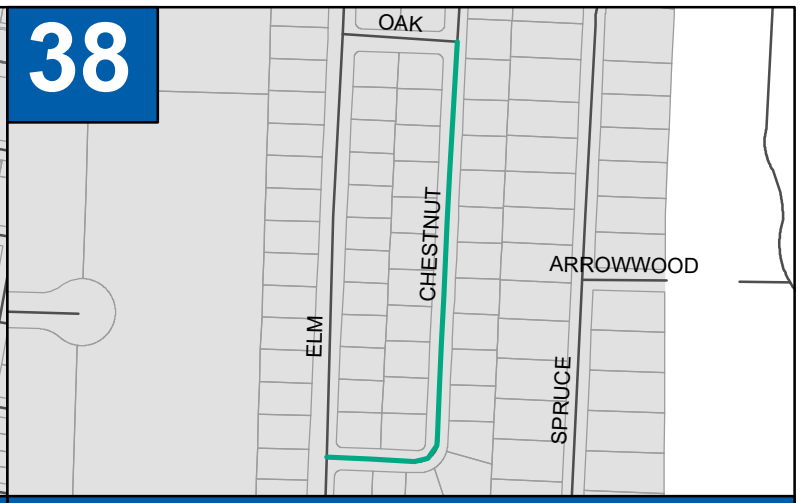
Washington Avenue
(5th to 7th)



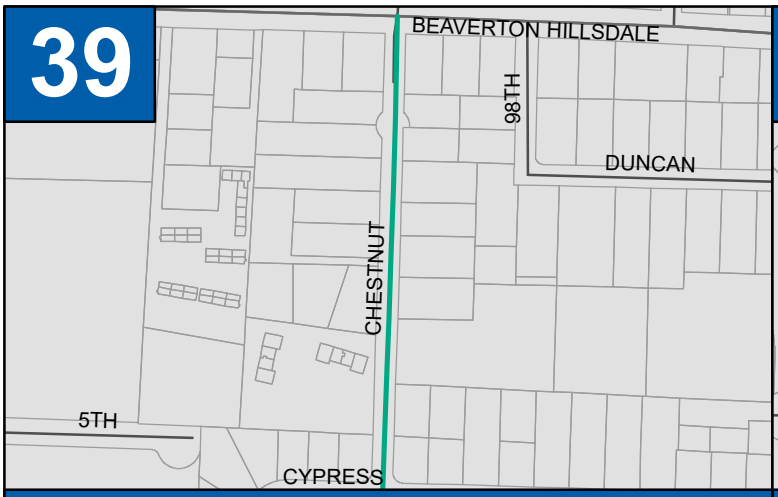
Harlequin Drive
South of Shelldrake Way

Water CIP Projects Outyears

Erickson Trunk Waterline Improvements
(6th to Farmington)

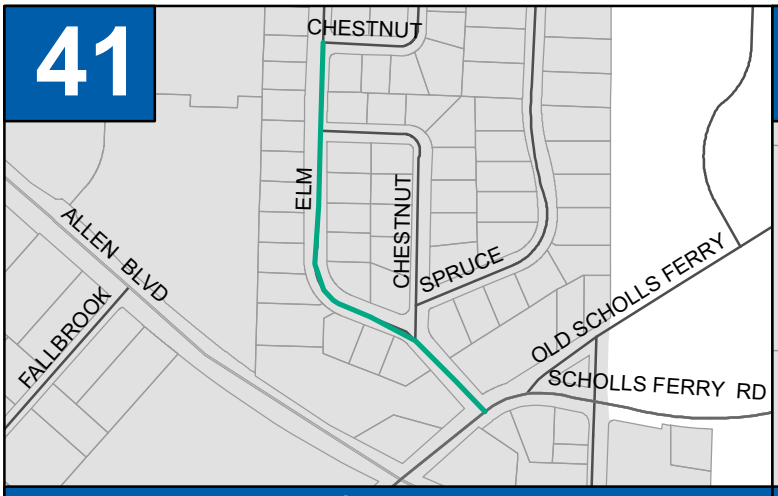


Chestnut Place
Oak to Elm

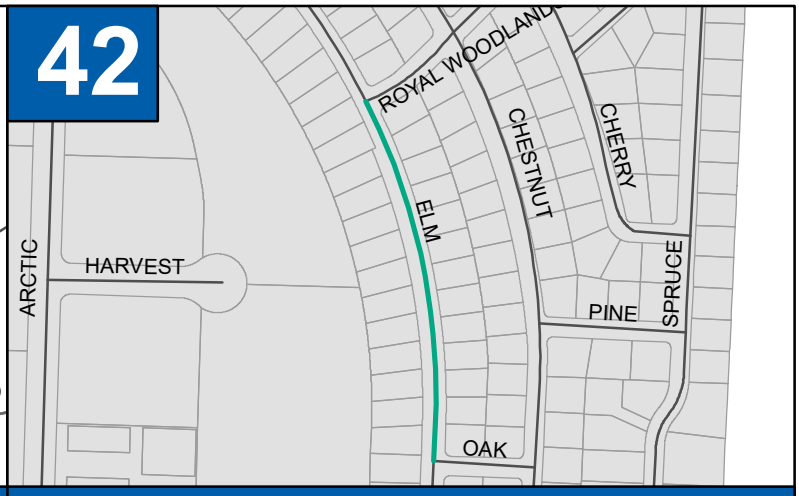


Chestnut Place
Cypress to Beaverton Hillsdale

Spruce Lane
Royal Woodlands to Pine

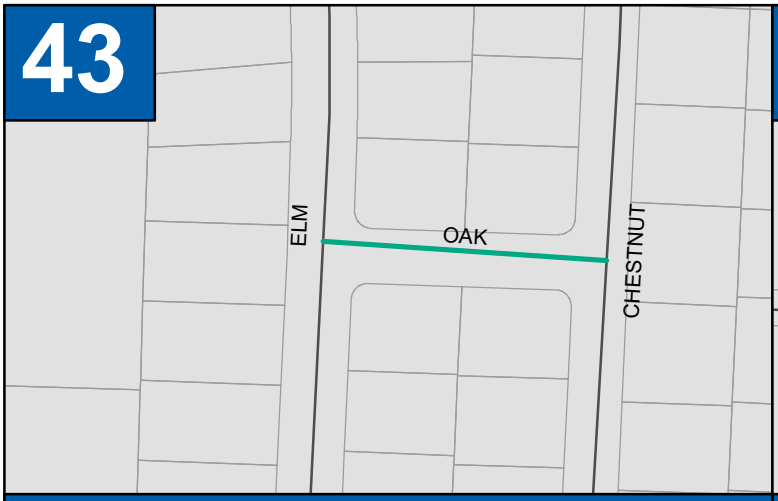


Elm Avenue
Chestnut to Old Scholls Ferry

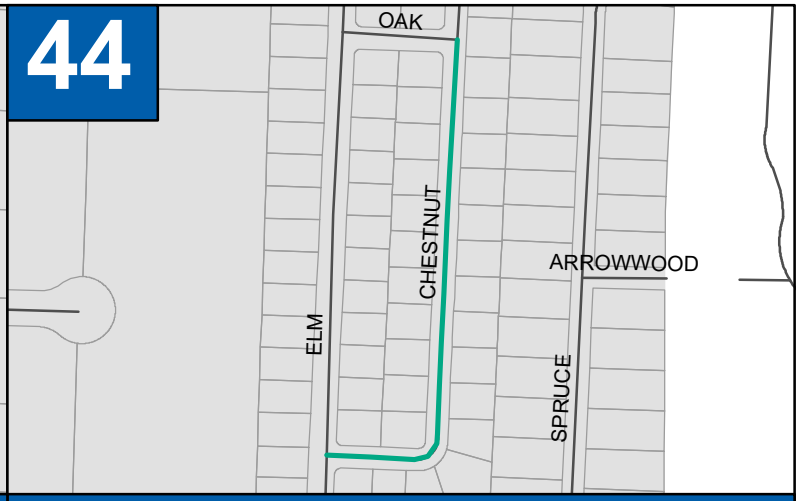


Elm Avenue
Royal Woodlands to Oak

Water CIP Projects Outyears

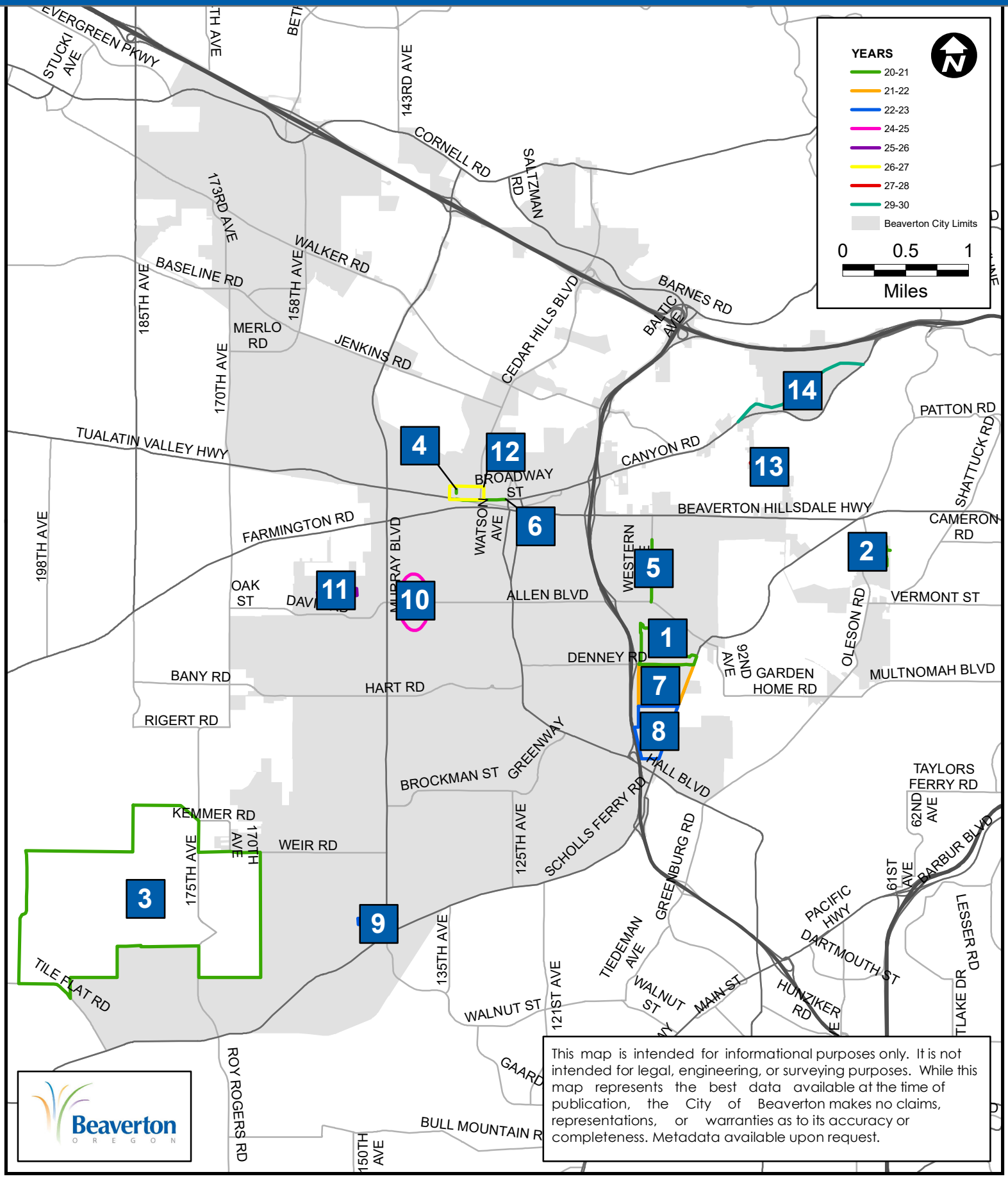


Oak Street
Chestnut to Elm



9th Street
Washington to Hall

Sanitary Sewer CIP Projects
FY 2020-21 Through FY 2028-29
Overall Map



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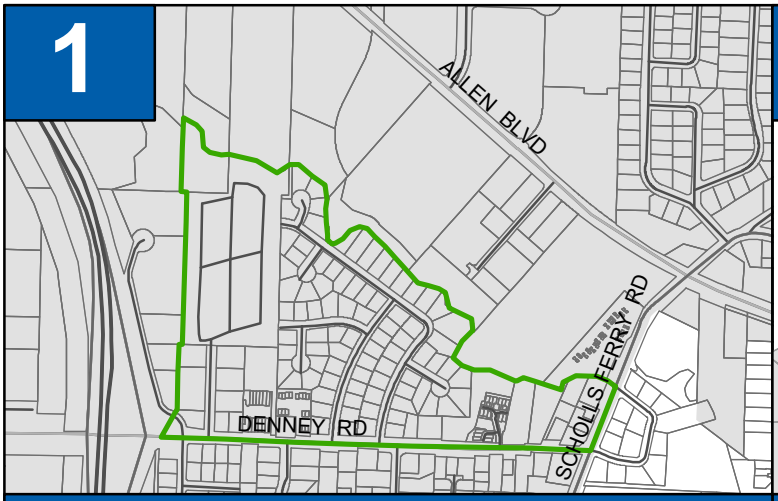
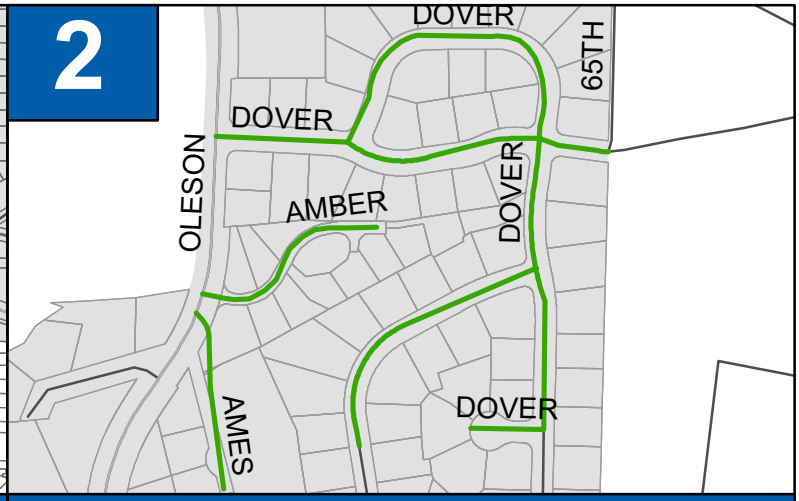
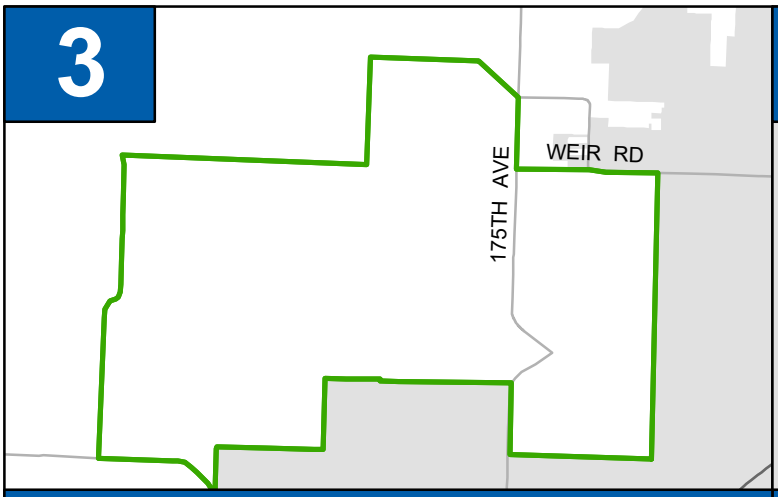
Sanitary Sewer CIP Projects Outyears



McKay Subdivisison Utility Improvements Phase 1 - CIP 6096

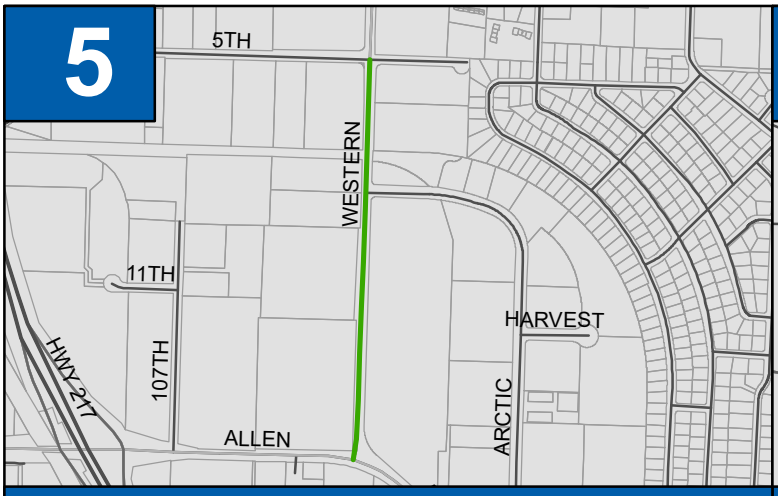


Storm Drain Realignment at Dover Ln (Dover North) - CIP 8098B

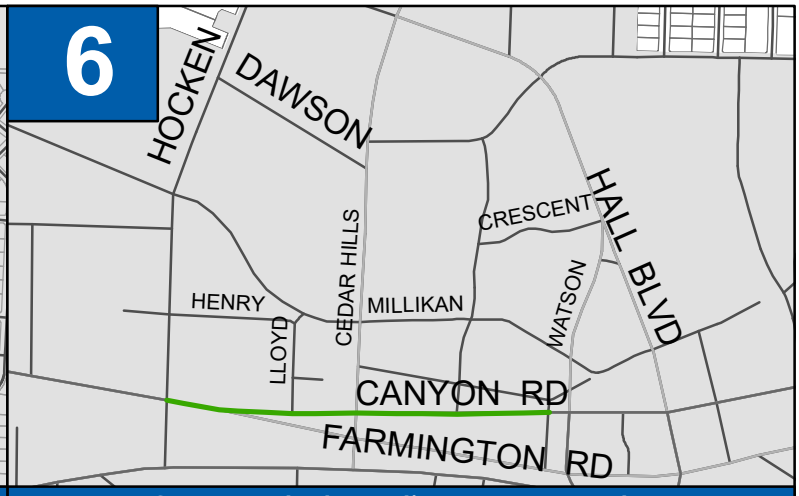


Cooper Mountain Infrastructure Analysis CIP 4154

Hocken Ave (RR - TV Hwy) Widening CIP 3408

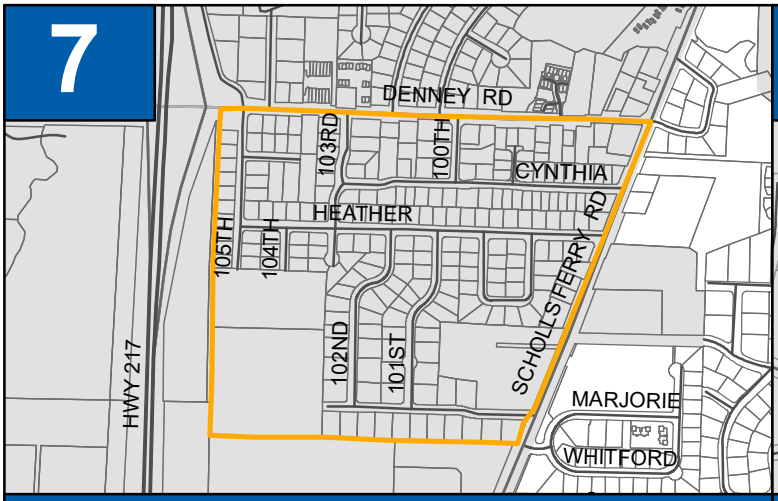


Western Ave (5th St - Allen Blvd) Improvement - CIP 3328

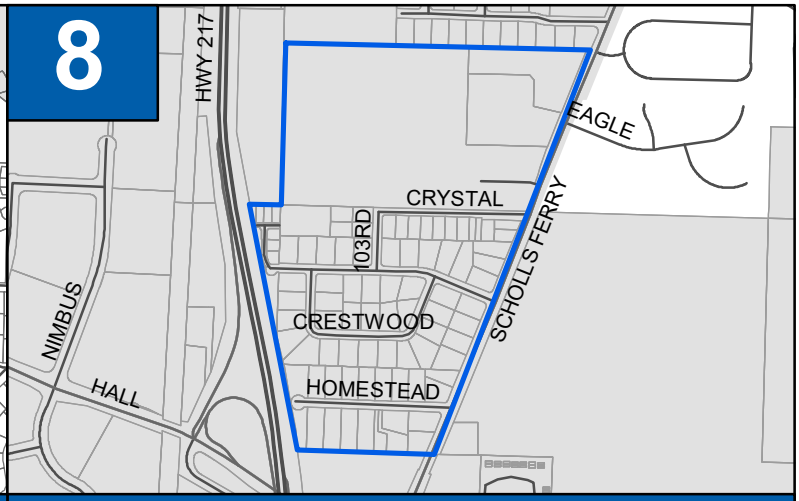


Canyon Rd Intersection Improvements CIP 3519A

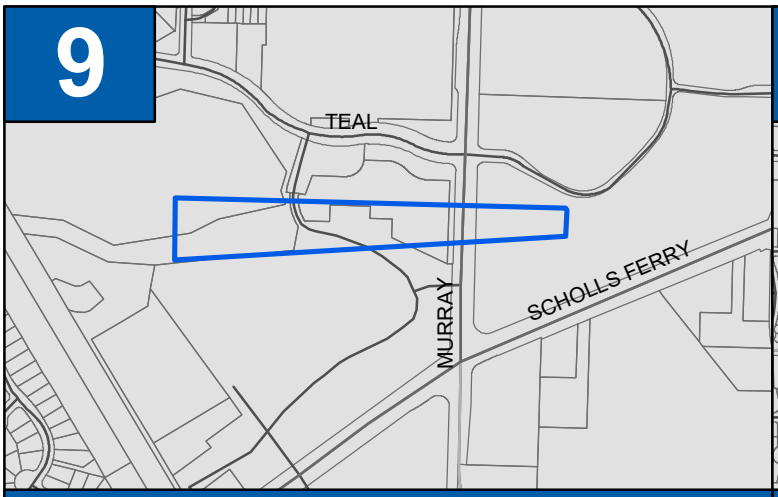
Sanitary Sewer CIP Projects Outyears



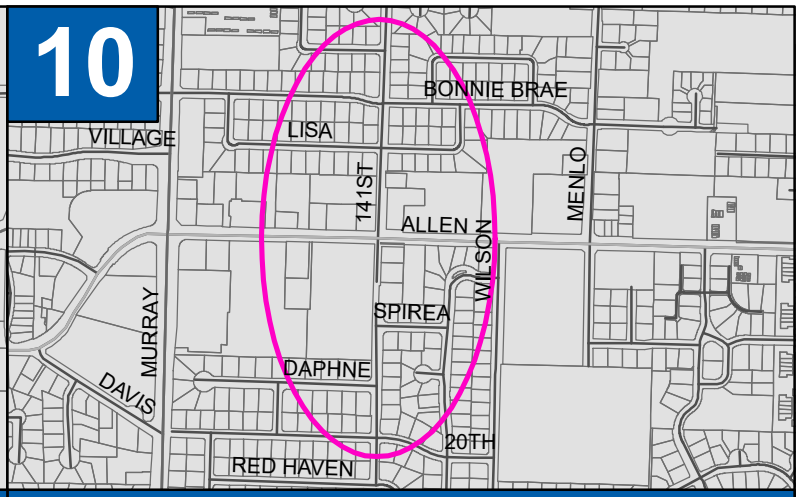
McKay Subdivisison Utility
Improvements Phase 2 - CIP 6097



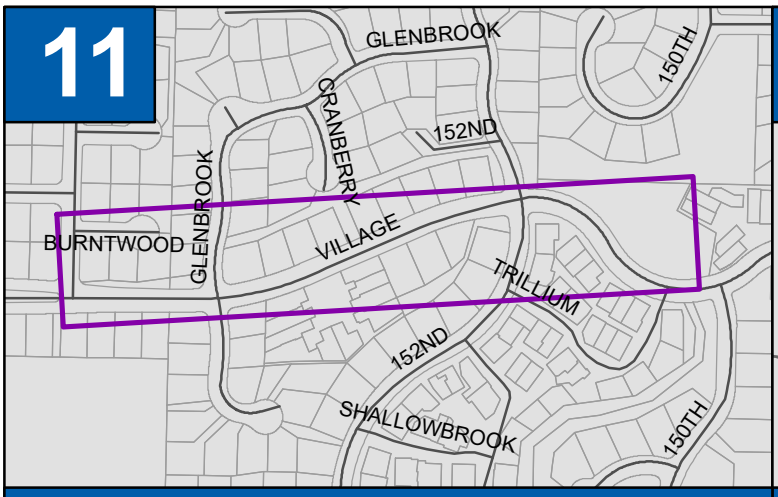
McKay Subdivisison Utility
Improvements Phase 3 - CIP 6100



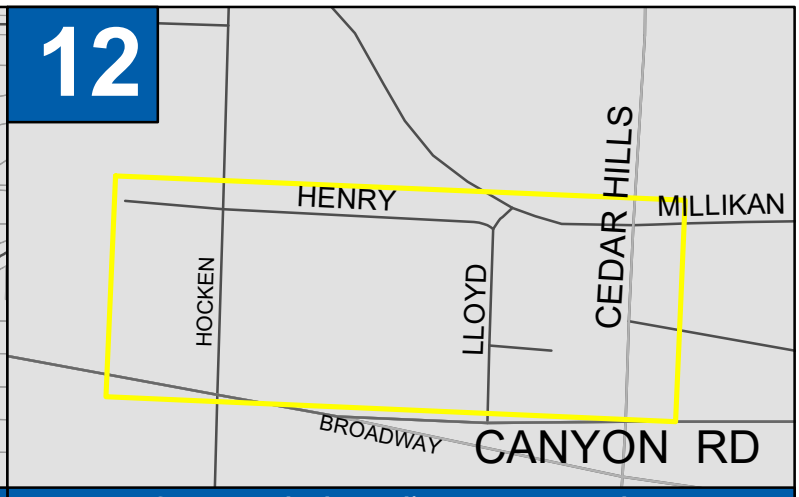
Murrayhill Trunk
Upsizing



Hocken Ave (RR - TV Hwy) Widening
CIP 3408

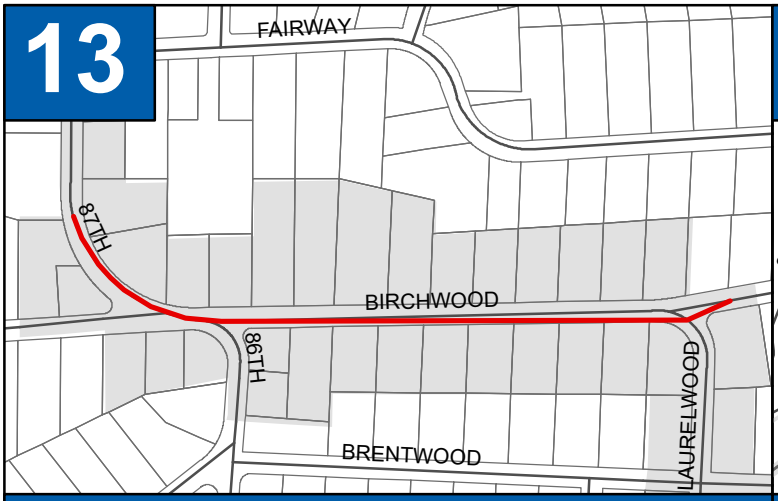


Village/Burntwood
Utility Improvements

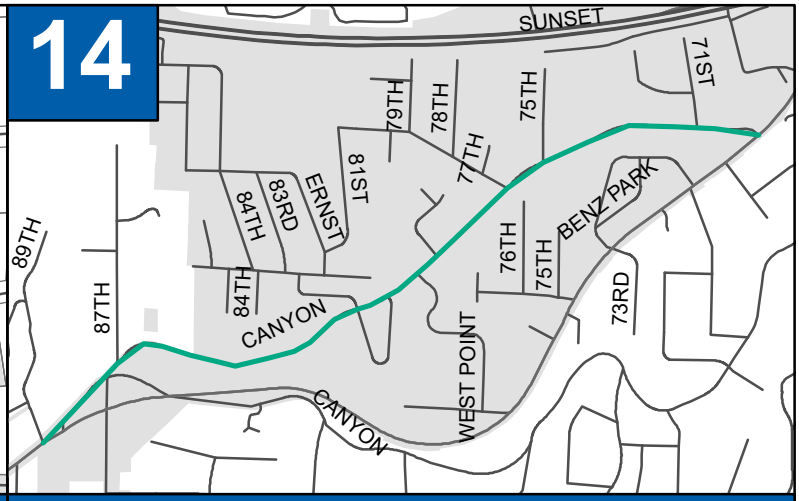


Canyon Rd Intersection Improvements
CIP 3519A

Sanitary Sewer CIP Projects Outyears

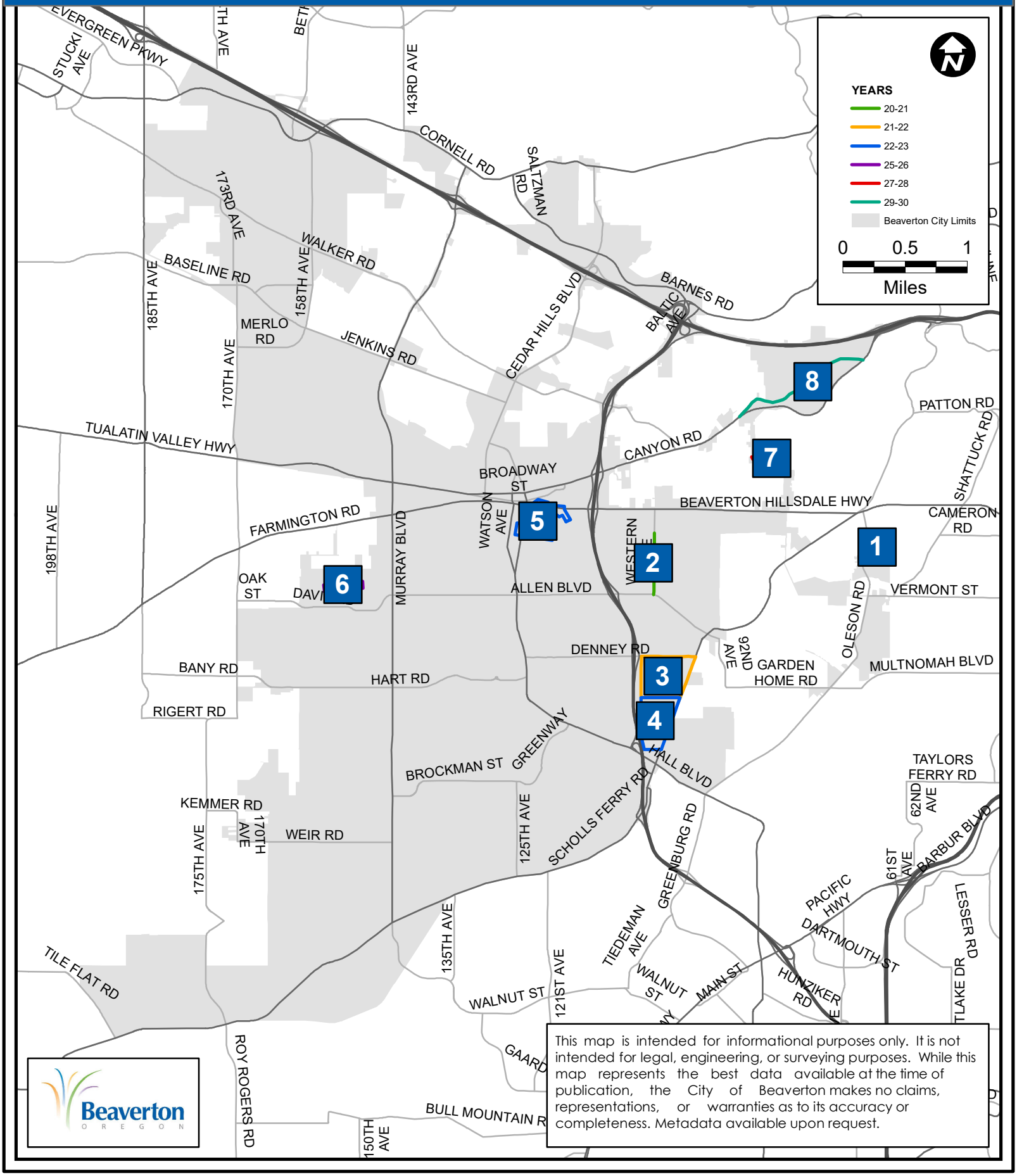


Birchwood Utility Improvements



Canyon Lane Utility Improvements

Storm CIP Projects
FY 2020-21 Through FY 2028-29
Overall Map



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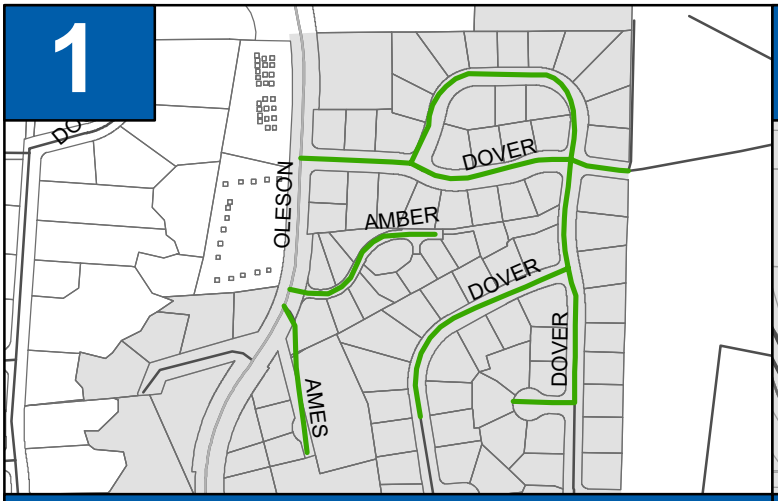
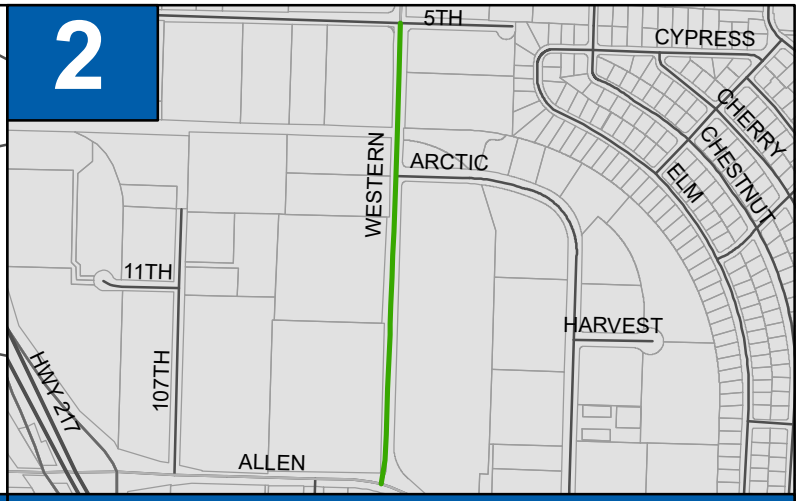
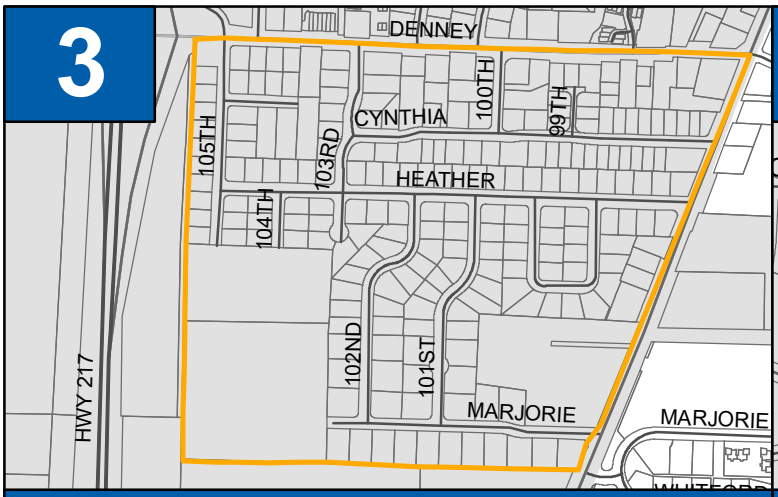
Storm CIP Projects Outyears



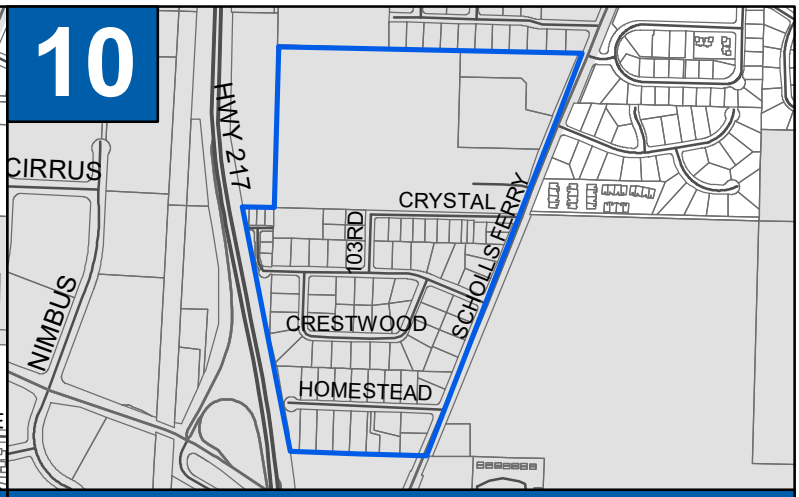
Storm Drain Realignment
at Dover Lane (Dover North) - CIP 8098B



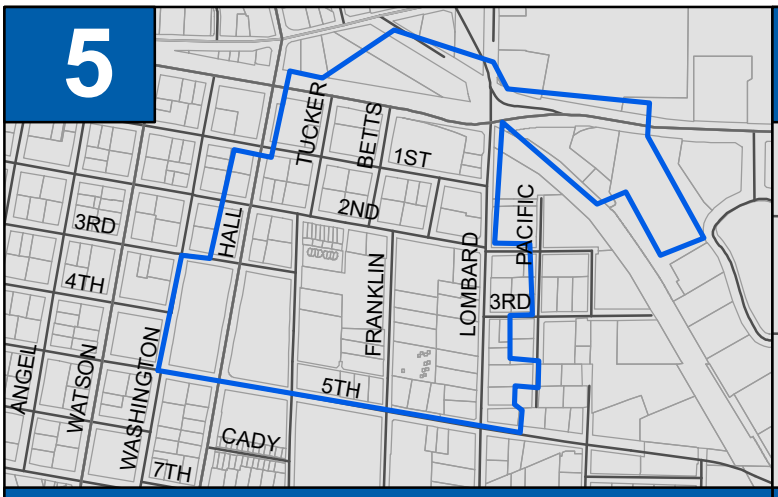
Western Ave (5th St - Allen Blvd)
Improvement - CIP 3328



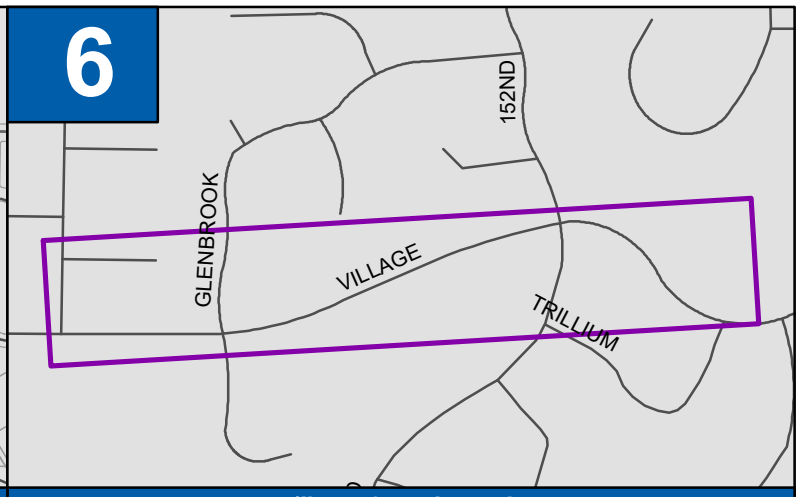
McKay Subdivision Utility
Improvements Phase 2 - CIP 6097



McKay Subdivision Utility
Improvements Phase 3 - CIP 6100

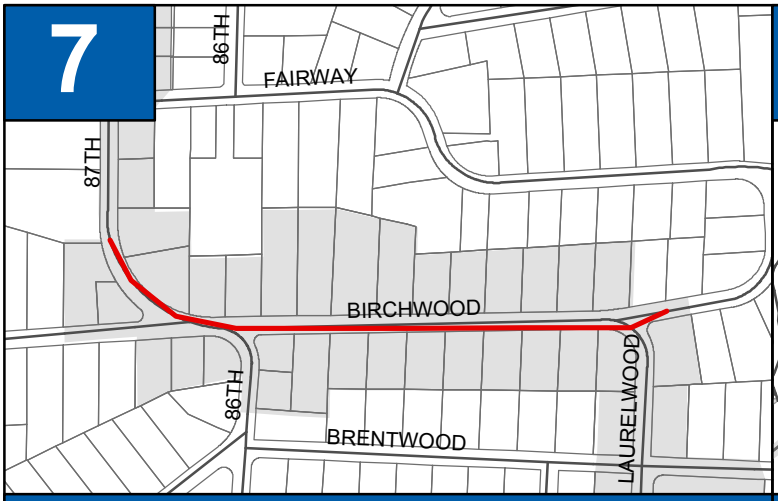


11750 SW Beaverton Hillsdale Hwy Stormwater
Outfall to Beaverton Creek Retrofit - CIP 8135A

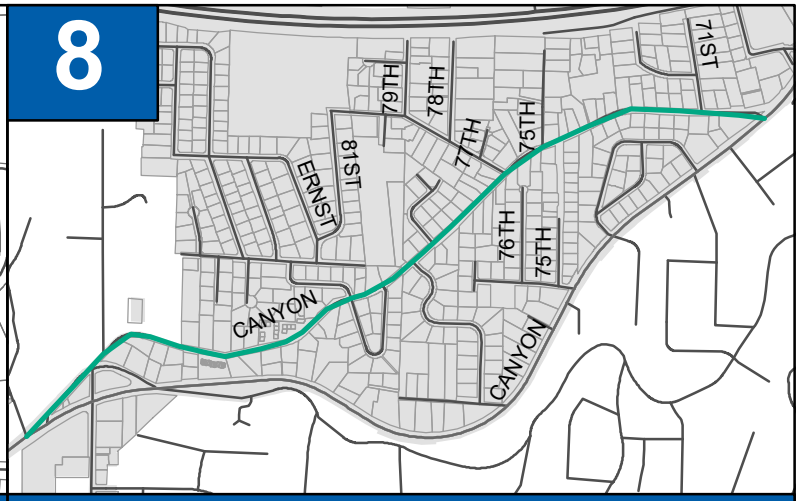


Village/Burntwood
Utility Improvements

Storm CIP Projects Outyears



Birchwood Utiility Improvements



Canyon Lane Utility Improvements