



PUBLIC WORKS DEPARTMENT July 2020 UPDATE

Metrics

		2019							2020						
		JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	
WWTP	WWTP Total Flow (millions of gallons)	42.55	42.96	43.69	47.22	48.63	47.31	57.85	69.53	73.81	52.45	50.01	48.47	53.04	
	Average Daily flow (Millions of gallons)	1.42	1.39	1.41	1.57	1.57	1.58	1.87	2.24	2.55	1.69	1.67	1.56	1.77	
	Peak Daily Flow (millions of gallons)	1.55	1.60	1.63	2.16	2.19	2.09	3.81	2.62	5.04	2.28	2.12	2.08	1.77	
	Removal Rate	97%	98%	98%	98%	98%	98%	98%	99%	99%	98%	97%	97%	98%	
	Biosolids transported to BUF (wet tons)	218	191	147	214	243	219	249	223	198	286	268	234	216	
D&C	Private Development (hours)	185	159	198	151	346	374	435	402	416	231	403	304	288	
	Capital Projects (hours)	792	639	579	554	656	397	292	459	450	676	521	666	837	
O&M	Street Sweeping/ Brush Cutting (lane miles/hours)	68/86	64/59	117/108	281/35	680/0	721/0	127/0	134/0	344/0	261/0	29/0	421/124	427/28	
	Utility Locates	210	226	222	207	231	150	164	250	240	220	156	250	201	
	Water sold (millions of gallons) (15th to 15th)	68.8	73.1	87	79.9	52.9	51.4	49	50.1	50.1	48.1	52.4	54.2	58.1	

DESIGN & CONSTRUCTION DIVISION

CHAIN LAKE ROAD SHARED PATH EXTENSION

Background

The City of Monroe received a federal grant through Puget Sound Regional Council (PSRC) to design and purchase additional right-of-way for extending the shared sidewalk/path north along Chain Lake Road and end at Brown Road. The sidewalk will match to the existing sidewalk in the vicinity of Rainier View Road.

The original cost estimate for this project is \$3,952,752 through the Streets 318 Fund. To help offset the cost, \$2,429,219 will be reimbursed by secured federal grants, leaving \$1,523,533 for the local match. 2019 revised cost estimation has the project tracking at \$3,500,000, reflecting an increase in right-of-way acquisition trends and additional efforts in design. However, the construction phase is tracking to be lower than originally anticipated, resulting in an overall anticipated lower cost to the project.

The project's portion of the approved 2019 and 2020 Street CIP 318 Fund is shown below. The design and right-of-way phases have been delayed due to continued negotiations with the adjacent property owners. As such, anticipated budget revenues and expenditures did not materialize in 2019 and have carried over into 2020:

	2019 Project Budget	2019 Spent	Remaining
Design	35,000	88,582	(53,582)*
R/W	582,000	220,294	361,706
R/W Assistance**	120,000	109,994	10,006

	2020 Project Budget	2020 Spent	Remaining
Design	0	6,385	(9,320)*
R/W	0	198,901	(162,805)**
R/W Assistance**	0	40,773	(2,578)***
Construction	3,241,350	0	2,150,000****

*Right-of-way acquisition efforts have delayed finalizing the design.

**Right-of-way negotiations and delays in actual closing of the sales have pushed several acquisitions into 2020. Expenses and corresponding grant reimbursements have rolled over into the current budget cycle.

***The City utilizes a right-of-way consultant to help navigate the complexities of acquiring property from adjacent landowners. This follows the City's Right-of-Way Procedures, which is required as part of federally funded projects.

****Project construction cost estimate is tracking to be significantly lower than originally estimated.

Update

All parcel acquisitions have been successfully negotiated. Council purchase authorization of the remaining four parcels is scheduled for July 14th, after which the city will seek right-of-way certification with WSDOT. PSRC (grant source) has extended the deadline for completing the design and right-of-way acquisition to December 31, 2020.

Timeline

2018-2020	Design Process
2018-2020	Right-of-Way Acquisition
2020	Design/Right-of-Way Complete
2021	Construction begins
2021	Construction ends



TJERNE PLACE PHASE III STREET IMPROVEMENTS

Background

Tjerne Place Phase III (a.k.a. Oaks Street) is located between Woods Creek Road and Old Owen Road, behind the Monroe Plaza where Albertson's used to be. This private road sees increasing traffic as drivers look to other routes to avoid traffic on US2. The City is interested in converting the road to public right-of-way and making improvements to become similar to other segments of Tjerne Place SE. Additionally, a signalized intersection would be proposed where Tjerne Place SE connects to Old Owen Road. The City utilizes a right-of-way consultant to help navigate the complexities of acquiring property from adjacent landowners. This follows the City's Right-of-Way Procedures, which is required as part of projects that may wish to seek federal funds. Estimated Project Cost: \$6,999,000 Street CIP Fund

	Cost Estimate	Committed Costs	Spent To-Date	Remaining
R/W	1,100,000	0	1,156	1,098,844
R/W Assistance	100,000	97,794*	48,440	49,354

*Contract Land Services right-of-way consultant contract awarded for \$90,450. Remaining R/W budget represents estimated cost to acquire public right-of-way.

*Survey task order with KPG for \$7,343.74 to delineate easement area onsite, and prepare easement legal descriptions and exhibits.

Update

Negotiations continue with the property owners. A tentative agreement with one property owner is currently being reviewed.



Potential Timeline

2020+	Design process
2018 - 2020	Right-of-Way Acquisition
unknown	Construction Begins
unknown	Project Completion

GRADEN WATER MAIN PROJECT

Background

This project replaces aging water main infrastructure within an established neighborhood locally known as the Graden neighborhood and includes 133rd Street SE, 134th Street SE, 208th Avenue SE, 209th Avenue SE, and 210th Avenue SE. Together, the project anticipates replacing over 3,000 lf of aging water main, upgrading fire hydrants and connecting the residences to the new main. The project is located outside of the city limits in the County, but is within our water service district. It is anticipated that the impacted streets will require new roadway surfacing as part of the restoration efforts. The design phase is to occur in 2018 followed by construction in 2019, and is paid through existing water rate revenues.

Estimated Project Cost: \$1,170,000 Water CIP Fund

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	120,000	75,698*	43,558	32,140
R/W	0	3,702	3,702	0
Construction	1,050,000	775,236**	643,455	131,781

*Design contract awarded to Harmsen & Associates for \$75,698.

**Construction contract (\$629,363), 20% contingency allowance (\$125,873), inspection costs (\$20,000)

Update

The project is complete. The City will resurface the neighborhood streets in 2020 to satisfy the permit conditions with Snohomish County.

Timeline

2018	Design process
February 2019	Bid Phase
June - Sept 2020	Streets Overlay



BLUEBERRY LANE STORMWATER IMPROVEMENTS

Background

Blueberry Lane experiences street flooding during the wet winter months. The existing storm drainage system collects and conveys the stormwater runoff to an infiltration facility. This project would rehabilitate or replace the system with a new infiltration system designed to today's stormwater regulations.

The City is the recipient of a stormwater grant from the Department of Ecology. The proposed award consists of a \$2,633,250 grant and a low interest loan of \$877,750 with the intent to fully fund the project.

Estimated Project Cost: \$3,511,000 Storm CIP Fund

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	467,460	456,856	176,788	280,068
R/W	0	0	0	0
Construction	0	0	0	0

Update

The original project timeline was to begin construction in 2020, but with archeological requirements and the COVID-19 health crisis, the project will not be ready in time for this year's drier summer months. Summer 2021 is now the targeted season for construction. BHC Consultants continue to develop the design.

Timeline

2019-2020	Design process
June 2020	Bid Phase
Summer 2021	Construction Phase



ADAMS LANE UTILITY REPLACEMENT

Background

This project replaces approximately 370 feet of aging 6 inch clay sewer main and approximately 620 feet of aging 6 inch and 4 inch asbestos cement water main under Adams Lane between Pike Street and Powell Street. The new 8 inch ductile iron water main will connect to existing asbestos cement pipe in the aforementioned streets, as well as connecting to an existing 8 inch polyvinyl chloride pipe located midblock.

Estimated Project Cost: \$442,969 Water & Sewer CIP Funds

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	72,780	11,463*	11,463	0
R/W	0	0	0	0
Construction	671,902	481,047**	139,870	341,177

*On-call survey contract authorized with KPG to collect site information.

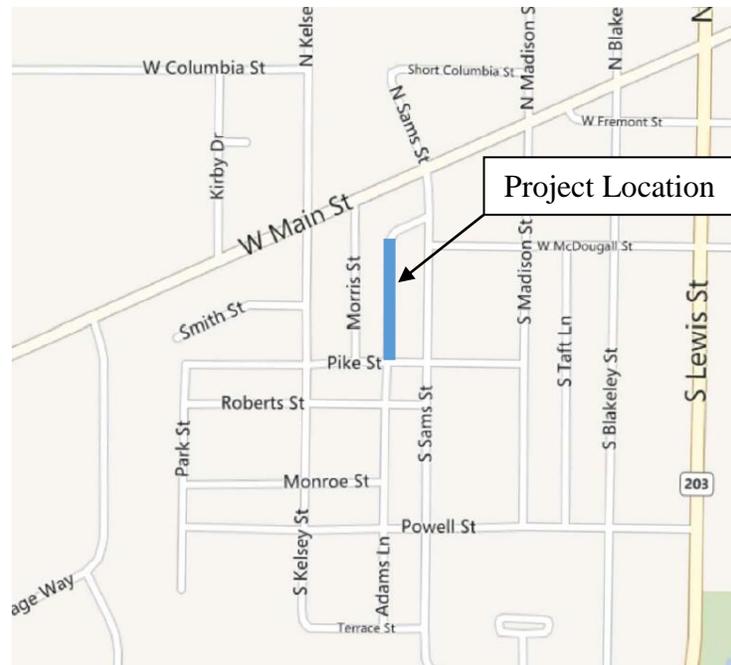
** Construction contract with Rodarte for \$480,415 + project administration expenses.

Update

After an approximate two month delay due to the COVID-19 pandemic, Rodarte Construction has resumed work on this project. The construction is anticipated to be substantially complete mid-July.

Timeline

2019	Design process
2020	Bid Phase
2020	Construction Phase



DOC SECOND RESERVOIR

Background

Construct 850,000 gallon domestic water reservoir on the hill adjacent to the Monroe Correctional complex. This project will increase fire flow capacity in the DOC water zone.

Estimated Project Cost: \$4,296,038 Water CIP Fund

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	485,333	458,145*	399,982	58,163
R/W	0	0	0	0
Construction	3,810,705	0	0	3,810,705

*Design contract with Murraysmith \$450,000. Environmental review on-call contract with Perteet \$3,328. Title Report \$1,049. Permitting fees \$3,768

Update

The consultant is working on finishing the design, having received comments from city staff at the 90% completion level. The design phase is anticipated to be completed in July 2020, after which the project will be advertised for contractor bids with an anticipated construction start around September 7th.

Timeline

2019	Design process
2020	Bid Phase
2020/21	Construction Phase



ADA TRANSITION PLAN

Background

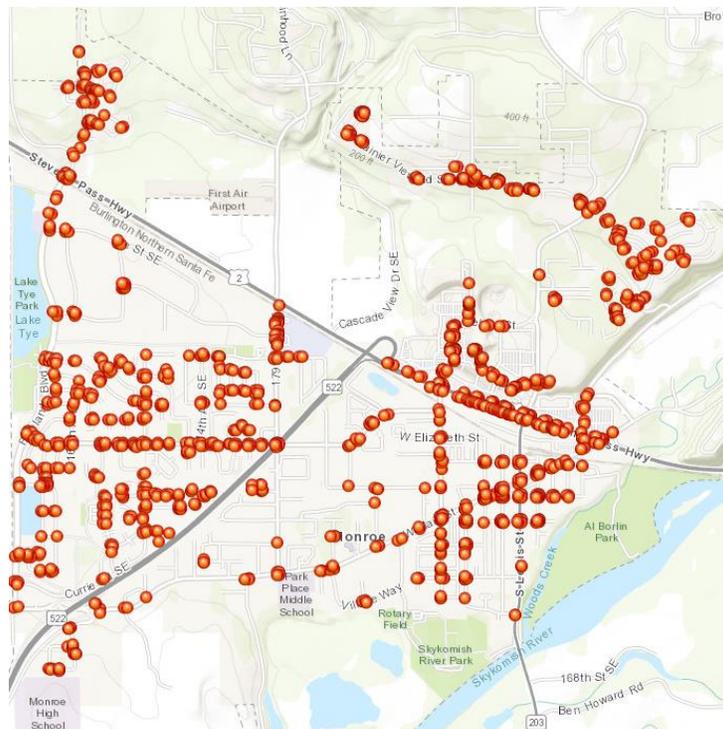
Federal law requires local agencies to identify the existing Americans with Disabilities Act (ADA) compliance issues on all City property, then develop a plan to bring those deficiencies up to current compliance standards. This project would hire a consultant to prepare an inventory and develop the ADA transition plan.

Estimated Project Cost: \$68,153 Street CIP Fund

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	68,153	85,000	14,106	70,894
R/W	0	0	0	0
Construction	0	0	0	0

Update

The Transpo Group has developed a webpage to solicit public input on existing barriers. This webpage is a tool used to inform the public of what an ADA Transition Plan is, as well as a way of receiving public input on what are their priorities for barrier removal. The website is www.monroeada.com. They have also created a database of our public right-of-way sidewalks, capitalizing on the data the City acquired in 2019 through the pavement rating study with StreetScan.



2020 STREET PRESERVATION PROGRAM

Background

The City has established a Transportation Benefit District (TBD) to help maintain existing streets. Maintenance efforts include practices such as overlaying with new asphalt, adding new aggregate to the road surface (chip sealing), replacing lost binder oils on the surface (fog seal), and filling in cracks with elastomeric material (crack sealing).

The City has a program that determines best use of TBD funds to maximize maintenance efforts toward our citywide street system. In years past the City has partnered with Snohomish County's Countywide Overlay Program. This program has become larger than intended and Snohomish County has requested Monroe and other cities not to participate for the next few years. As a result, engineering staff are making adjustments and will be performing the design and administering the construction contract this summer.

Existing sidewalk ramps adjacent to the project areas will be reviewed and reconstructed as necessary to be compliant with current ADA standards.

Update

The City received excellent pricing from Lakeside (low bidder) this year, such that an opportunity now exists to perform more street preservation under a separate contract. Engineering staff are currently soliciting bids for four blocks of 154th Street SE (167th to 171st) to receive new asphalt surfacing. Bid opening will be on July 13th.

The City will have contracted with The Blueline Group to assist with construction management.

On Street	From Street	To Street
CASCADE VIEW DR	US2	NE END
172 nd DR SE	S END	BEATON RD
BEATON RD	169 TH AVE SE	TYE ST
TYE ST	169 TH AVE SE	BEATON RD
177 TH AVE SE	W MAIN ST	CITY LIMITS
Village Way	West End	East End

318 Fund	Project Budget	Committed Costs	Spent To-Date	Anticipated Remaining
Design	30,000	6,850*	3,992	0
R/W	0	0	0	0
Construction	1,211,415	0	985	1,211,415

*on-call land surveying services contract in the amount of \$6,850. Construction administration costs of \$985 to-date.

N. MADISON IMPROVEMENTS

Background

This project will reconstruct N. Madison Street, from Main Street to Elizabeth Street. Primary work elements include replacing the asphalt, curbing and sidewalk, replacing the aging sewer and water mains within the street, and constructing a new stormwater system that will separate stormwater runoff from entering the city’s sanitary sewer system. The Department of Ecology has awarded \$1,299,625 in a Stormwater Financial Assistance Program (SFAP) grant to help fund the new stormwater element.

Project funding will be shared among the Street 318, water 412 and Sewer 422 CIP funds.

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design (2020)	75,000	21,800*	19,072	55,928
R/W	0	0	0	0
Construction (2021)	3,068,715	0	0	3,068,715

*\$13,500 on-call survey contract authorized with Harmsen Inc to collect site information.

*\$8,300 on-call geotechnical contract with Robinson Noble to collect information on underlying soils.

Update

Site topographic information has been collected from the City’s roster of professional land surveyors. The city is also working with the Department of Ecology and Department of Archaeological and Historic Preservation in preparing a Cultural Resources Survey (CRS) and Inadvertent Discovery Plan (IDP). The design effort will continue throughout the remainder of 2020.

Timeline

2020	Design process
March 2021	Bid Phase
Summer 2021	Construction Phase



RAILROAD QUIET ZONE STUDY

Background

This planning effort is to collectively review the city's five at-grade railroad crossings (Fryelands Boulevard, 179th Avenue SE, Kelsey Street, Lewis Street and Main Street) for the potential to establish a Quiet Zone within the city limits. A Quiet Zone essentially means that train operators will not sound their horn in the established area unless they have a compelling reason to do so (safety issue). The study is expected to be lengthy and involve BNSF, Amtrak, the Utilities & Transportation Commission (UTC), the Federal Railways Administration (FRA), city engineering staff and hired consultants. Each crossing will be reviewed via a diagnostics meeting with the stakeholders, including what improvements are required. These improvements will need to be made before the City can establish the Quiet Zone.

The 2020 Budget included \$100,000 toward the study and is funded through the 318 Streets CIP Fund.

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design (2020)	100,000	87,282*	21,730	78,270
R/W	0	0	0	0
Construction (2021)	3,068,715	0	0	3,068,715

*Consultant Agreement with PH Consulting Inc. in the amount of \$87,135. Design solicitation ad \$147.

Update

The City solicited professional engineering firms to assist in the diagnostics effort for the crossings. PH Consulting Inc. was awarded the contract on February 28th, 2020. The consultant work is underway. Due to the number of agencies involved, the process is expected to take the remainder of 2020, and perhaps into the first months of 2021, before the study is complete.

PH Consulting Inc. prepared a Rail Safety Grant for the City and if successful would provide for additional improvements at the Kelsey Street crossing. The conservative planning level cost estimate is valued at \$433,000.



US HWY 2 NON-MOTORIZED SHARED PATH

Background

The purpose of this project is to provide a walking path along US 2 adjacent to the Monroe Fairgrounds. The sidewalk that currently ends at Cascade View Drive would be extended west approximately 1,200 feet to 179th Avenue SE. Extensive negotiations are anticipated with the Monroe Fairgrounds whose facilities currently occupy the area needed for the path, as well as WSDOT – the actual owner of the needed land.

City engineering staff successfully applied for two federal grants to help fund this project. The first grant is a for design efforts in the amount not to exceed \$90,250. The second grant is in the amount not to exceed \$432,500 and will help fund the construction phase.

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design (2020)	150,781	0	0	150,781
R/W	0	0	0	0
Construction (2021)	317,247	0	0	317,247

Update

WSDOT has obligated the design funds to the City. In the upcoming months, engineering staff will be soliciting for professional design services to assist with this project.

2020	Design process
March 2021	Bid Phase
Summer 2021	Construction Phase



RAINIER VIEW ROAD PRV STATION

Background

This project will increase water system reliability by installing a pressure reducing valve (PRV) between two of the City's pressure zones: Wagner 517 and The Farm 440. This PRV is proposed either along Rainier View Road or 199th Avenue SE, and will be determined after system analysis determines the optimal location.

The 2020 Budget included \$277,830 for this project and is funded through the 412 Water CIP Fund.

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design (2020)	50,000	2,000*	2,000	48,000
R/W	0	0	0	0
Construction (2021)	227,830	0	0	227,830

*BHC water system modeling not to exceed \$2,000.

Update

Design efforts are about to begin by conducting a topographic survey of the project area.

Timeline

April - July	Design process
Aug. – Sept.	Bid Phase
October	Construction Phase



WOODS CREEK ROAD WATER MAIN REPLACEMENT

Background

This project replaces approximately 750 feet of aging water main located under Woods Creek Road, between US 2 and Tjerne Place SE. Once the replacement is complete, this street segment will receive new asphalt surfacing and upgrade the sidewalk ramps to current federal standards.

Paid through existing water rate revenues (Water 412 CIP Fund).

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design (2020)	297,596	12,878	12,878	284,718
R/W	0	0	0	0
Construction (2021)	1,249,905	0	0	1,249,905

Update

Engineering staff have received the site topographic data from our on-call surveyor, and are working on the design. The design process will be ongoing throughout 2020.

Timeline

2020	Design process
Feb. 2021	Bid Phase
Apr. – July 2021	Construction Phase



S. TAFT SEWER REPLACEMENT

Background

This project replaces aging sewer main, beginning at McDougall Street and ending at a newer manhole located approximately 300 feet north in Taft Lane.

Paid through existing sewer rate revenues (Sewer 432 CIP Fund).

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design (2020)	16,800	5,550*	4,956	11,844
R/W	0	0	0	0
Construction (2021)	64,999	0	0	64,999

*On-call survey contract with Harmsen Inc for \$5,550.

Update

The project design phase is underway. The design will continue through the remainder of 2020.

Timeline

2020	Design process
Feb. 2021	Bid Phase
Apr. – July 2021	Construction Phase



LAKE TYE STORMWATER IMPROVEMENTS

Background

The existing stormwater treatment bioswale and treatment pond located at the southeast corner of Lake Tye no longer function as originally intended. In 2019, BHC Consultants Inc. prepared a stormwater alternatives report for the city, in which four viable alternatives were identified to improve the water quality of stormwater entering Lake Tye, using current stormwater regulations to develop the alternatives. This project advances the effort by selecting the preferred conceptual design, preparing the plans and specifications for project, and then proceeding with actual construction of the improvements.

Paid through existing storm rate revenues (Storm 432 CIP Fund).

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design (2020)	277,493	0	0	277,493
R/W	0	0	0	0
Construction (2021)	559,133	0	0	599,133

Update

The city has received a cost proposal from the design consultant (BHC). This project will delay the design until 2021 to prioritize funding toward the Blueberry Infiltration project (see page 6).



147th SIGNAL

Background

In 2018 city staff applied for a federal grant through the Puget Sound Regional Council (PSRC) to fund the design and construction phases of the 147th Signal. If successful, the grant funds would become available for the 2020/2021 biennium. PSRC informed the City on May 29th of a grant award in the amount of \$116,813 to help support the design phase, with the condition that the project be ready to begin design by July 15th, 2020. Council authorized the project during the June 23, 2020, council meeting.

The project will prepare plans, specifications and cost estimates for a signal at the intersection of 147th Street SE and 179th Street SE. Additional work elements include widening the turning radius at the northwest corner to better accommodate freight trucks when accessing the Fryelands industrial area. A dedicated left/through turn lane will be provided on 147th Street SE, along with adjacent sidewalk and crosswalk improvements. The widening will require some right-of-way acquisition from adjacent property owners. This effort will be conducted in 2021 and 2022.

The design funding will be provided through a federal grant of \$116,813 and the City's 318 Street Fund.

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design (2020)	135,044	0	0	135,044

Update

Engineering staff have turned in the design fund obligation package to WSDOT. Once WSDOT obligates (releases) the design funds, staff will solicit for professional engineering services to perform the design effort.



GRANTS

The City actively pursues other sources of project funding through grants. Grants sources include State and Federal resources and help defray the cost of maintaining and improving the City of Monroe's infrastructure. The following is a summary of grant activity that Public Works has received.

<u>Active Grants:</u>	<u>Grant Amount</u>	<u>Description</u>
Sidewalk Railroad Crossing	\$244,500	Fryelands Blvd & 179 th Ave SE sidewalks
Chain Lake Rd Shared Path		Extend the concrete sidewalk to Brown Rd.
	\$173,000	Design
	\$488,725	Right-of-Way Acquisition
	\$1,515,692	Construction
US-2 Shared Use Path	\$90,250	Add US2 sidewalk alongside Fairgrounds
N. Madison St.	\$1,299,625	Separate stormwater from the sewer
Blueberry Lane Stormwater	\$2,633,250 +	Repair aging stormwater infiltration system
	\$877,750 (Loan)	
147 th St / 179 th Ave Signal	\$482,352	Federal grant application to signalize intx.
147 th St / 179 th Ave Signal	\$116,813	Federal grant award for design phase only
Kelsey Street RR Crossing	\$433,300	Additional crossing safety improvements

Grants										
Status	Project	Agency	Program	Ask	Date	Recommended	Date	Awarded	Date	
Awarded	US2 Sidewalk Extension	PSRC	CMAQ	\$ 90,250	4/26/2016	\$ 90,250	12/27/2016	\$ 90,250	12/27/2016	
Recommended	US2 Sidewalk Extension	PSRC	CMAQ	\$ 432,500	5/11/2018	\$ 432,500	6/8/2018	\$ 432,500	10/31/2018	
Encumbered	Chain Lake Rd Trail Extension	PSRC	CMAQ	\$ 2,432,867	4/22/2016	\$ 1,515,692	11/4/2016	\$ 1,515,692	12/27/2016	
Encumbered	Chain Lake Rd Trail Extension	PSRC	CMAQ	\$ 661,725	4/23/2014	\$ 583,527	1/15/2016	\$ 583,527	1/15/2016	
Closed	2018 LED Lighting upgrades	TIB	Reight Washington	\$ 11,345	3/1/2018	\$ 11,345	3/2/2018	\$ 11,345.00	4/17/2018	
Closed	Main Street Grind/Overlay	TIB	APP	\$ 518,000	8/18/2017	\$ 440,000	11/22/2017	\$ 440,000	1/18/2018	
Closed	Fryelands Blvd Grind/Overlay	TIB	APP	\$ 444,800	8/13/2018	\$ 444,800	12/11/2018	\$ 444,800	12/11/2018	
Awarded	N. Madison Street Combined Sewer Separation	DOE	SFAP	\$ 1,290,108	10/20/2016	\$ 1,299,625	3/6/2018	\$ 1,299,625	6/25/2019	
Awarded	Blueberry Lane Stormwater Repair	DOE	SFAP	\$ 2,633,250	10/12/2018	\$ 2,633,250	1/18/2019	\$ 3,511,000	6/28/2019	
Awarded	179th Ave Sidewalks	PSRC	CMAQ	\$ 634,650	5/11/2018	\$ 634,650	6/8/2018	\$ 634,650	10/31/2018	
Applied	147th St / 179th Ave Signalized Intersection	PSRC	STP	\$ 482,352	3/26/2020					
Pass	Road Preservation	PSRC	STP APP							
Recommended	147th St / 179th Ave Signalized Intersection	PSRC	STP	\$ 420,000	5/18/2018	\$ 116,813	5/29/2020			
Applied	Kelsey Street Rail Crossing	WSDOT	Railway-Highway Crossing Programs	\$ 433,000	5/29/2020					

GRANT SUMMARY

