PUBLIC WORKS DEPARTMENT
JANUARY 2020 UPDATE

Metrics

		2018	2019											
		DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC
WWTP	WWTP Total Flow (millions of gallons)	53.13	55.71	48.78	49.57	49.50	46.00	42.55	42.96	43.69	47.22	48.63	47.31	57.85
	Average Daily flow (Millions of gallons)	1.77	1.80	1.74	1.60	1.65	1.48	1.42	1.39	1.41	1.57	1.57	1.58	1.87
	Peak Daily Flow (millions of gallons)	2.433	2.21	1.97	1.88	2.01	1.81	1.55	1.60	1.63	2.16	2.19	2.09	3.81
	Removal Rate	98%	98%	98%	98%	98%	96%	97%	98%	98%	98%	98%	98%	98%
	Biosolids transported to BUF (wet tons)	161	225	184	246	250	187	218	191	147	214	243	219	249
D&C	Private Development (hours)	241	406	258	257	261	165	185	159	198	151	346	374	435
	Capital Projects (hours)	369	544	431	861	1002	797	792	639	579	554	656	397	292
O&M	Street Sweeping/ Brush Cutting (lane miles/hours)	468/0	218/0	30/0	282/0	497/0	27/96	68/86	64/59	117/108	281/35	680/0	721/0	127/0
	Utility Locates	119	245	143	205	240	217	210	226	222	207	231	150	164
	Water sold (millions of gallons) (15th to 15th)	50.2	49.5	52.1	45.4	52.4	54.6	68.8	73.1	87	79.9	52.9	51.4	49

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 Street CIP 318 Fund is shown below:

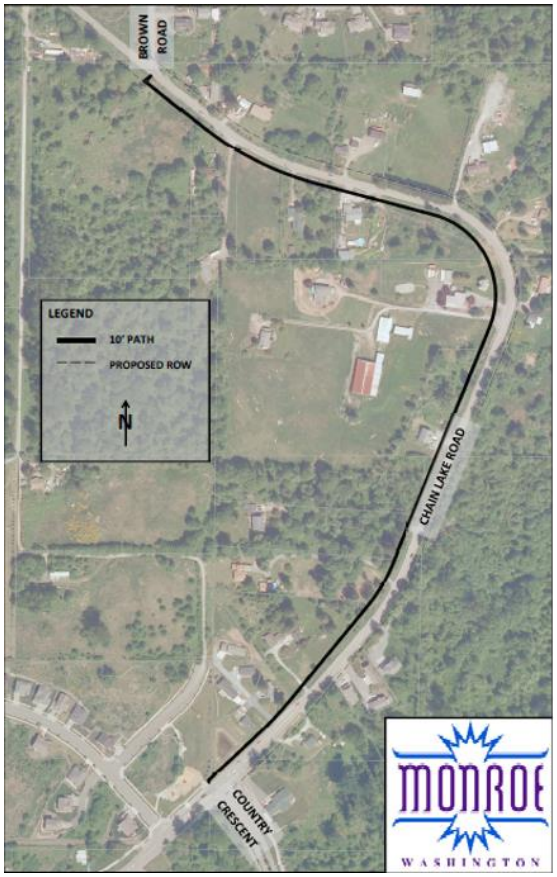
	2019 Project Budget	**2019 Spent**	**Remaining**
Design	35,000	88,582	(53,582)*
R/W	582,000	220,294	361,706
R/W Assistance**	120,000	109,994	10,006

*Some design costs were expected to occur during the 2018 fiscal cycle, but additional efforts were necessary and extended design work into the 2019 fiscal 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.

Update

City engineering staff have performed the final review of the project design and have provided comments to the consultant. Regarding property acquisition, the City is negotiating property purchases with the adjacent landowners. Fifteen of the nineteen parcels have reached agreements thus far. The remaining five parcels are still being negotiated.



Timeline

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

BLUEBERRY LANE / KELSEY STREET INTERSECTION IMPROVEMENTS

Background

This intersection has long been known as being problematic and congested at times. Improving the intersection is complicated due to the immediate proximity of Burlington Northern Santa Fe railroad and US2. The flow of traffic is sensitive to the tracks being clear and the US2 signal phasing. In December 2016 and January 2017 a series of council meetings were held to discuss potential design options. Additionally, an Open House was conducted in January 2017 to receive public input on design options. Staff are exploring a design that would create a second, northbound lane along Kelsey Street. This lane would begin at North Street and provide a turn pocket for vehicles wanting to turn onto Blueberry Lane, and also additional queuing capacity for left turns at US2.
Estimated Project Cost: $490,000 Street CIP
Construction Target: Unknown

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	70,000	94,350*	90,550	3,800
R/W	0	0	0	0
Construction	420,000	423,230**	292,200	131,030

*Design contract awarded to Century West Engineering for $92,500.
*Additional surveying needs performed by Harmsen LLC for $1,000.
*Additional surveying needs performed by Harmsen LLC for $850.
**Construction contract awarded to Kamins for $322,093
**Construction inspection services awarded to Blueline not to exceed $98,400.
**Construction material testing on-call task to Robinson Noble for $2,737

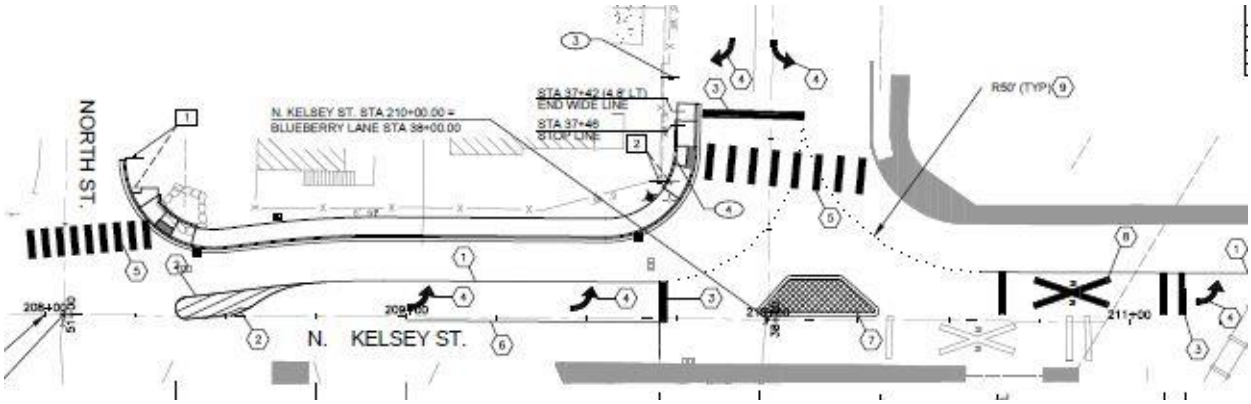
Staff originally expected the project to come in under the original cost estimation. However, unanticipated staff turnover required outsourcing project inspection work to a consultant, resulting in costing that is now slightly over.

Update

The project is complete except for installing the permanent centerline curb. There was some difficulty in locating a precast manufacturer to make the centerline curb. Manufacturing is now underway, with an anticipated delivery timeline of early February 2020.

Updated Timeline

July 2018	Begin Design Phase
May 2019	Begin Bid Phase
Sept. 2019	Begin Construction
Feb. 2020	End Construction



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

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	675,000	0	0	675,000
R/W	1,100,000	0	1,156	1,098,844
R/W Assistance	100,000	97,794*	44,153	53,641
Construction	5,124,000	0	0	5,124,000

*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

The property appraisals are complete. Offers have been presented to the property owners and the City is awaiting their responses.

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 as part of the permit conditions with Snohomish County.

Timeline

2018	Design process
February 2019	Bid Phase
March - June 2019	Construction Phase

182ND AVENUE WATER MAIN PROJECT

Background

This project will replace aging water main under 182nd Avenue SE, beginning at the 154th Street SE intersection and extending north to the SR522 right-of-way. This project includes replacing the 4" water main, replacing two hydrants and connecting approximately 35 existing residences to the new main. The design phase is to occur in 2018 followed by construction in 2019, and is paid through existing water rate revenues.

Estimated Project Cost: $814,825 Water CIP Fund

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	30,000	8,244*	8,147	97
R/W	0	0	3,961**	0
Construction	784,825	349,533***	282,339	67,194

*KPG on-call contract for land surveying services in the amount of $7,462. Geotest geotechnical design support for $781.80

**Utility permitting costs with WSDOT

***Construction contract ($287,422), 20% contingency allowance ($57,484), publishing expenses ($450)

***Construction material testing on-call task to Geotest for $4,177.

Update

This project construction is complete. The project will go before council for acceptance on January 14, 2020.

Timeline

2018	Design process
August 2019	Bid Phase
Sept. to Nov. 2019	Construction Phase

132ND STREET WATER MAIN PROJECT

Background

This water utility project replaces approximately 3,200' of aging water main under 132nd Street SE in unincorporated Snohomish County, upgrading associated fire hydrants and connecting existing residences to the new water main. It is anticipated that 132nd Street SE will require new roadway surfacing as part of Snohomish County's right-of-way disturbance permit approval. The design phase is to occur in 2018 followed by construction in 2019, and is paid through existing water rate revenues.

Estimated Project Cost: $1,591,090 Water CIP Fund

	Project Budget	Committed Costs	Spent To-Date	Remaining
Design	40,000	35,093*	30,980	4,113
R/W	0	2,761**	2,761	0
Construction	1,591,090	1,105,027***	1,050,638	54,389

*Harmsen on-call contract for land surveying services in the amount of $13,260.
*Perteet on-call contract for wetland determination/delineation in the amount of $13,183 and biological assessment for $8,650.
**Snohomish County permitting fees.
***Construction contract and change order ($904,189), 20% contingency allowance ($180,838), inspection costs ($20,000), asphalt overlay of 132nd Street

Update

The waterline construction has been completed. The roadway has been overlaid with new asphalt as part of the permit conditions with Snohomish County. The project will go before council for acceptance on January 14, 2020.

Timeline

2018	Design process
Jan 2019	Bid Phase
March to June 2019	Water Main Construction
Sept 2019	Asphalt Resurfacing

CASCADE VIEW DRIVE WATER MAIN PROJECT

Background

This project increases system capacity through a combination of replacing and adding approximately 1,650 lf of new 12” diameter water main. The design phase is to occur in 2018 followed by construction in 2019, and will be funded through existing water rate revenues and connection fees.

	2019 Project Budget	Committed Costs	Spent To-Date	Anticipated Remaining
Design	0	0	0	0
R/W	0	4,925	4,925	0
Construction	1,050,000	644,456**	519,476	0

**Construction contract ($533,542), 20% contingency allowance ($106,708), publishing costs ($653), Construction material testing on-call task to Robinson Noble for $3,553.

Update

The construction is finished. The project will go before council for acceptance on January 14, 2020.

Timeline

2018	Design process
July 2019	Bid Phase
Sept. - Oct. 2019	Construction Phase

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

	2019 Project Budget	Committed Costs	2019 Spent To-Date	Remaining
Design	467,460	456,856	51,603	405,253
R/W	0	0	0	0
Construction	0	0	0	0

Update

As part of the grant conditions, the project had to undergo an archaeological assessment before any design explorations could begin. This has caused unexpected delays in the design phase. The updated timeline to complete the design is now anticipated for June 2020.

Timeline

2019-2020	Design process
June 2020	Bid Phase
Aug to Nov. 2020	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	390,189	0	0	390,189

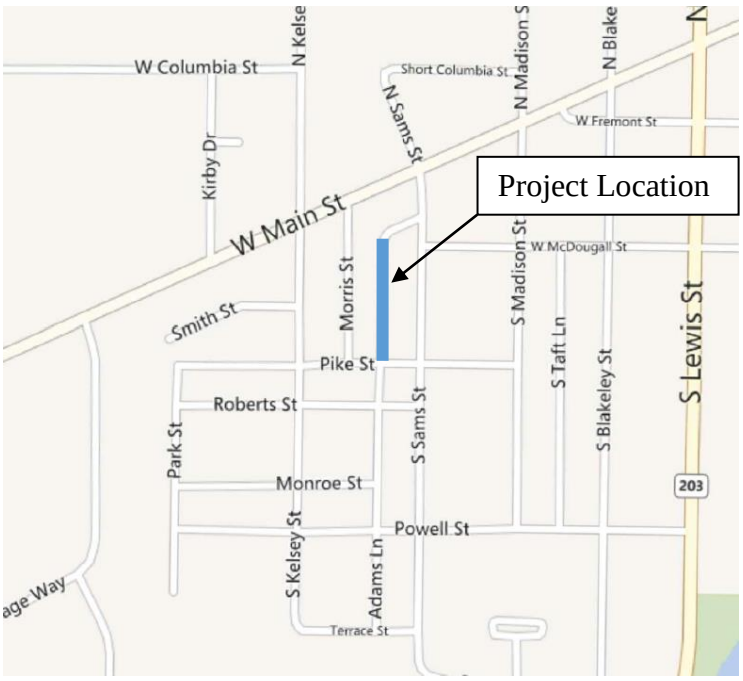
*On-call survey contract authorized with KPG to collect site information.

Update

The design phase is complete. The project will solicit contractor bids later this month, with an anticipated construction start in late March 2020.

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	453,328*	101,031	352,297
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.

Update

Murraysmith Inc is under contract to design for this project. The design is heading toward 60%, which will be submitted to the engineering staff for review in mid-February. The design phase is anticipated to continue into summer 2020.

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.

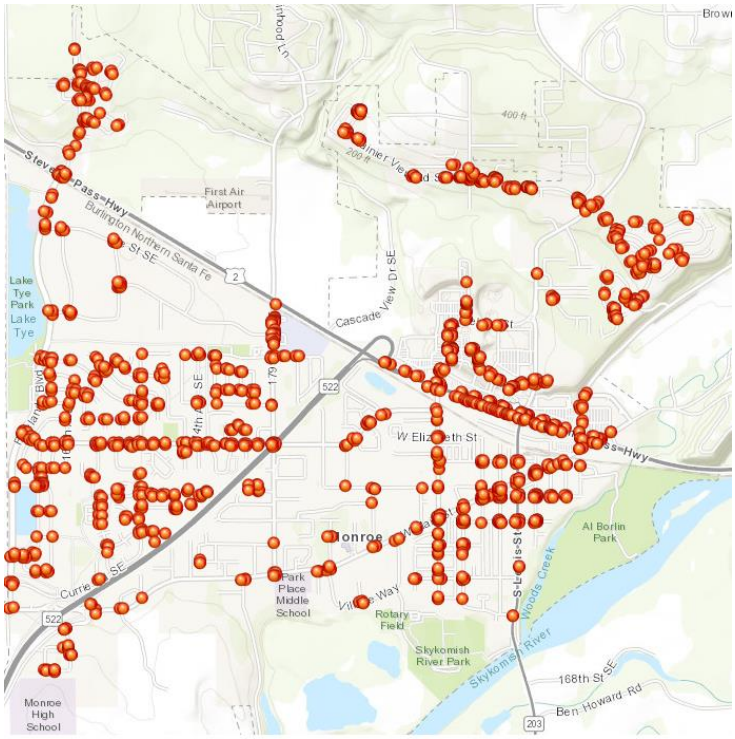
Estimated Project Cost: $108,225 Street CIP Fund

	Project Budget		Committed Costs	Spent To-Date	Remaining
Design	108,225		0	0	108,225
R/W	0		0	0	0
Construction	0		0	0	0

Update

As part of the City's pavement rating study this year, information on the city's sidewalk network will also be collected. This data will be used to develop the ADA Transition Plan. We anticipate the inventory to be completed in December, followed by developing the actual plan during the first half of 2020.

The City has selected the Transpo Group to develop the ADA Transition Plan. Staff is currently negotiating scope and fee with this consultant ahead of beginning the work.



PAVEMENT RATING STUDY

Background

Re-rate the condition of the streets City-wide, providing a platform on which to base the street preservation efforts for the next several years. Additionally, inventory the sidewalk network city-wide for condition and ADA compliance assessment. This sidewalk information will be used as part of the ADA Transition Plan development.

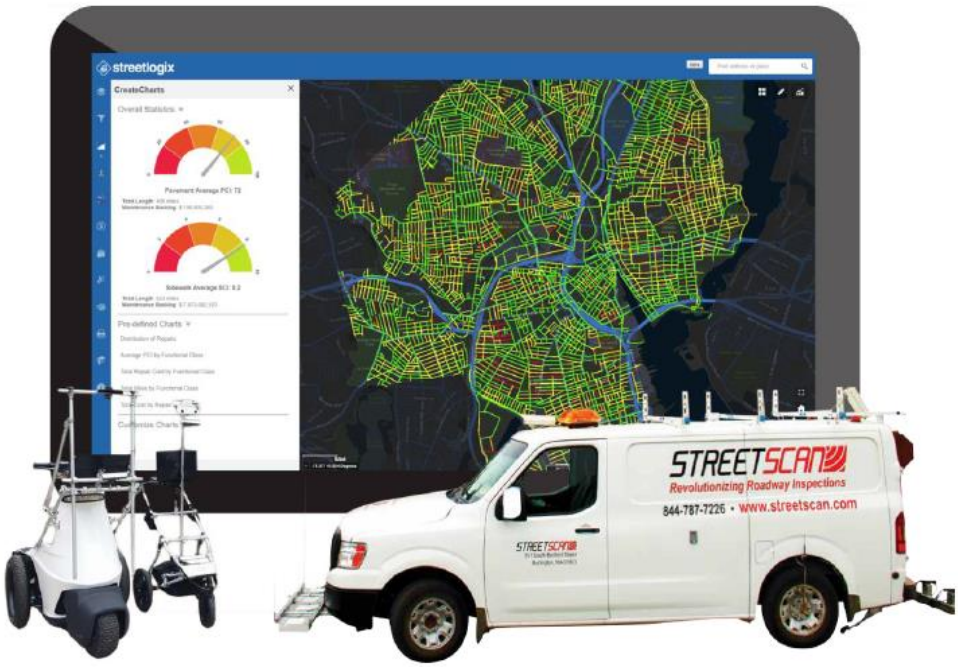
Estimated Project Cost: $41,000 Street CIP Fund

	Project Budget	Committed Costs	Spent To-Date	Anticipated Remaining
Design	41,000	80,260*	76,920	0
R/W	0	0	0	0
Construction	0	0	0	0

*StreetScan contract to rate the city streets $42,800. Amended contract to include sidewalk rating ($37,460) as part of budgeted ADA Transition Plan.

Update

The City has received the street condition data and staff are utilizing the information to formulate next year's street preservation efforts. The sidewalk network's information has been collected and made available, which will be used to prepare the ADA Transition Plan.



2019 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 2019 preservation work on the street segments listed below are finished.

On Street	From Street	To Street
149TH ST SE	179TH AVE SE	182ND AVE SE
KING ST	W COLUMBIA ST	BLUEBERRY LN
PARK ST	SOUTH END	MONROE ST
PIKE ST	PARK ST	S KELSEY ST
179TH AVE SE	149TH ST SE	SR 2
FRYELANDS BLVD	MAIN ST	152ND ST SE
MONROE ST	S KELSEY ST	ACCESS RD
TESTER RD	167TH AVE SE	MAIN ST
ALDEN AVE	LAWRENCE ST	JOHNSON LN
ALLEY	N KELSEY ST	POLK LN
POLK LN	W HILL ST	ACCESS RD
KIRBY DR	W MAIN ST	W COLUMBIA ST
LAWRENCE ST	WEST END	ALDEN AVE
149TH ST SE	173RD AVE SE	175TH AVE SE
174TH AVE SE	152ND ST SE	149TH ST SE
TYE ST SE	FRYELANDS BLVD SE	169TH DR SE

318 Fund	Project Budget	Committed Costs	Spent To-Date	Anticipated Remaining
Design	30,000	3,830*	3,830	0
R/W	0	0	0	0
Construction	1,532,500	1,772,954**	1,389,751	0

*Harmsen on-call land surveying services contract in the amount of $3,830.
**Construction contract ($1,377,462), plus 20% contingency allowance ($275,492)
**Construction material testing on-call task to Geotest for $21,000.
**Inspection services contract to Exeltech for $99,000

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.

Active Grants:	Grant Amount	Description
Sidewalk Railroad Crossing	$244,500	Fryelands Blvd & 179th 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 + $877,750 (Loan)	Repair aging stormwater infiltration system

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	WSDOT	Ped-Bike Program	$ 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	Relight 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

GRANT SUMMARY TABLE

Monroe Emergency Management Office

Initiatives

- Updating Monroe's Hazard Mitigation Plan as part of a multi-jurisdictional effort heading by the Snohomish County Department of Emergency Management.
- Working with the Tri-County Violence Prevention and Response Program to participate in a series of drills and exercises regarding a complex coordinated terrorist attack.
- Developing Continuity of Government/Continuity of Operations Plan.

Incidents

- MonCC -2020-001 Minor flooding on the Skykomish River 01/03/2020
- MonCC-2020-002 Snowfall 01/13/2020
- MonCC-2020-003 Minor flooding on the Skykomish River 01/21/2020
- MonCC-2020-004 novel Coronavirus 2019 ongoing
- MonCC-2020-005 Major flooding on the Skykomish River 01/27/2020

Training/Meetings Attended

- Chaired Snohomish County Hazard Mitigation Plan Steering Committee meeting #4
- 01/08/2020 Attending CCTA Tabletop Player Briefing
- 01/09/2020 NWS Briefing regarding upcoming winter weather
- 01/11/2020 NWS Briefing regarding upcoming winter weather
- 01/12/2020 NWS Briefing regarding upcoming winter weather
- 01/13/2020 NWS Briefing regarding winter weather
- 01/14/2020 NWS Briefing regarding winter weather
- 01/14/2020 Snohomish County Emergency Managers meeting cancelled due to weather
- 01/15/2020 CCTA Tabletop Exercise postponed due to weather
- 01/15/2020 NWS Briefing regarding winter weather
- 01/23/2020 Tri-County CCTA Tabletop exercise: 10 attendees from City of Monroe
- 01/29/2020 NWS Briefing regarding flooding
- 01/30/2020 NWS Briefing regarding flooding
- 01/31/2020 NWS Briefing regarding flooding