

Monthly Report

Fiscal Year 2018-2019 April 2019



MONTHLY REPORT

April 2019 ISSUE 42

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Financial Impact Review: Review by the Finance Department determined no significant change to previously published financial information at this time. Future budget adjustments may be needed for projects with significant changes in scope and schedule, but estimates are unknown at this time.

Operational Impact Review: Review by Utility Director, Paul Rheault, determined operational impacts are in line with achieving greater efficiency in our systems.

City of Bend 2019-2023 Capital Improvement Program Project List												
Project Name & Number	Project Manager	Current Phase	Project Cost Estimate	Spent to Date	2018-19 Budget	2019-20 Projected	2020-21 Projected	2021-22 Projected	2022-23 Projected	Total 2019-2023	Budget Notes	Percent Total Cost Est. Spent
Water Reclamation												
1XSEI Southeast Interceptor Projects												
1SP1X SEI Phase 1 Extension	J. MacClanahan	Sub. Complete	6,800,000	6,749,933	100,000	-	-	-	-	100,000		99%
1S2S3 SEI Schedule 2S&3	E. Forster	Sub. Complete	30,585,000	30,304,550	275,000	-	-	-	-	275,000	1	99%
1XSEI Southeast Interceptor			37,385,000	37,054,483	375,000	-	-	-	-	375,000		99%
1XNAS North Area Sewer Projects		-										
1SNAF North Area Force Main	G. Franklet	Sub. Complete	2,730,000	2,729,320	100,000	-	-	-	-	100,000		100%
1SNAS North Area Gravity Main	G. Franklet	Sub. Complete	2,900,000	2,890,869	100,000	-	-	-	-	100,000		100%
1XNAS North Area Sewer Projects			5,630,000	5,620,189	200,000	-	-	-	-	200,000		100%
North Interceptor Projects											-	
1SNI1 North Interceptor Phase I	J. MacClanahan	Design	40,000,000	3,608,244	11,000,000	12,000,000	-	-	-	23,000,000	Τ	9%
1SNI2 North Interceptor Phase II & III	Unassigned	Pending	40,200,000	-	-	-	_	6,700,000	6,700,000	13,400,000		0%
North Interceptor Projects			80,200,000	3,608,244	11,000,000	12,000,000	-	6,700,000	6,700,000	36,400,000	_	4%
1XWRF Water Reclamation Facility Projects			55,255,555	0,000,000	,	,_,_,		2,1 2 2,2 2 2	2,1 2 2,2 2 2	20,100,000		
1SCAP WRF Capacity Improvements	J. Robertson	Construction	8,000,000	5,716,780	6,465,000	_	_	_	-	6,465,000	1	71%
1SSHI Solids Handling Improvement Project	J. Robertson	Construction	5,500,000	199,430	1,450,000	2,500,000	1,500,000	_	_	5,450,000		4%
1SFPU Facilities Plan Update	J. Robertson	Pending	500,000	133,130	- 1,130,000	500,000		_	_	500,000		0%
1SHWK Headworks	J. Robertson	Pending	2,000,000	_	_	500,000	_	1,000,000	_	1,000,000		0%
1SSFU Support Facilities Upgrade	J. Robertson	Pending	2,500,000	_	_	_	_	1,250,000	1,250,000	2,500,000		0%
1XWRF Water Reclamation Facility Projects	J. Nobel (3011	rending	18,500,000	5,916,210	7,915,000	3,000,000	1,500,000	2,250,000	1,250,000	15,915,000	_	32%
1SCSE Collection System Enhancement Program	O. Murray	Construction	11,800,000	160,691	2,360,000	2,360,000	2,360,000	2,360,000	2,360,000	11,800,000		1%
1SPSD Pump Station Decommissions Program	O. Murray	Construction	8,000,000	417,040	1,465,000	3,000,000	2,300,000	2,300,000	2,300,000	4,465,000		5%
1SBSS Bend Septic Solutions	S. Martin	Design	2,800,000	2,094,261	1,500,000	3,000,000	_			1,500,000		75%
1S036 Drake Lift Station Condition Upgrade	J. Robertson		3,000,000	43,864	1,000,000	2,000,000	_	_	-	3,000,000		1%
		Design		45,604	1,000,000		470,000	1,470,000	-			0%
1SAMM Amethyst Mahogany Street Sewer	E. Forster E. Forster	Pending	2,440,000	197 560	E00.000	500,000		1,470,000	-	2,440,000		
1SMTI Amethyst Mahogany Diversion		Design	3,900,379	187,569	500,000	2,400,000	1,000,000	-	-	3,900,000		5% 97%
1SWRF Secondary Expansion	J. Robertson	Sub. Complete	43,800,000	42,605,289	3,640,000	-	-	-	-	3,640,000		
1SPIR Plant Interceptor Rehabilitation	J. Suhr	Sub. Complete	7,600,000	6,948,475	7,735,000	-	-	-	-	7,735,000		91%
1SPSO Parallel Sewer on Olney Avenue	Unassigned	Pending	600,000	-	-	600,000	-	4 455 000	-	600,000		0%
1SOC1 Odor Control Master Plan	Unassigned	Pending	1,155,000	-	-	-	-	1,155,000	-	1,155,000		0%
1SSLA Sewer Storage - Land Acquisition	Unassigned	Pending	730,000	-	-	750.000	-	730,000	-	730,000		0%
1SMP1 Collection System Master Plan (Years 6-10)	Unassigned	Pending	750,000	-	-	750,000	-	-	-	750,000		0%
1SGPA Gravity Pipe Condition Assessment	Unassigned	Pending	2,000,000	-	-	-	200,000	200,000	200,000	600,000		0%
Total Water Reclamation Projects			230,290,379	104,656,313	37,690,000	26,610,000	5,530,000	14,865,000	10,510,000	95,205,000		
Stormwater												
1RNPR Newport Pipe Replacement Design	Unassigned	Planning	442,000	-	442,000	-	-	-	-	442,000		0%
1RMP1 Stormwater Master Plan Update	Unassigned	Pending	500,000	-	500,000	-	-	-	-	500,000	1	0%
1RRMC Roosevelt & McKinley	Unassigned	Pending	579,000	-	-	-	104,000	475,000	-	579,000		0%
1RFGU Franklin & Greenwood Underpass	Unassigned	Pending	3,300,000	-	-	-	1,200,000	600,000	1,500,000	3,300,000		0%
1RMNW Minnesota & Wall Stormwater	Unassigned	Pending	250,000	-	-	-	-	-	250,000	250,000		0%
Total Stormwater Projects			5,071,000	-	942,000	-	1,304,000	1,075,000	1,750,000	5,071,000		

City of Bend 2019-2023 Capital Improvement Program Project List											
Project Name & Number	Project Manager	Current Phase	Project Cost Estimate	Spent to Date	2018-19 Budget	2019-20 Projected	2020-21 Projected	2021-22 Projected	2022-23 Projected	Total 2019-2023	Percent Description of the Percent Total Cost Est. Spent
Transportation											·
1TR3N Reed Mkt: 3rd to Newberry	G. Sabourin	Sub. Complete	13,600,000	13,539,678	160,000	-	-	-	-	160,000	100%
1TGCI Galveston Corridor Improvements	G. Sabourin	Design	950,000	614,233	265,000	-	-	-	-	265,000	65%
1TBKE Bicycle Greenways	R. Rowan	Design	900,000	17,281	440,000	225,000	225,000	-	-	890,000	2%
1TMPR Murphy & Parrell Roundabout	G. Sabourin	Sub. Complete	2,580,000	2,580,059	5,000	5,000	-	-	-	10,000	100%
1TNPS Neff and Purcell Intersection Design	S. Burr	Design	950,000	2,428	200,000	600,000	-	-	-	800,000	0%
1TCSI Citywide Safety Improvements	R. Rowan	Construction	2,940,600	967,726	1,590,600	1,000,000	-	-	-	2,590,600	33%
14th Street Reconstruction Projects											
1T14R 14th St. Reconstruction	G. Sabourin	Sub. Complete	4,600,000	4,798,795	1,888,000	-	-	-	-	1,888,000	1 104%
1T14B 14th St. Reconstruction Phase II	G. Sabourin	Sub. Complete	6,100,000	5,359,218	4,443,660	-	-	-	-	4,443,660	1 88%
14th Street Reconstruction Projects			10,700,000	10,158,013	6,331,660	-	-	-	-	6,331,660	95%
1XECI Empire Corridor Improvement Projects											
1TECI Purcell Roundabout	S. Burr	Sub. Complete	2,000,000	1,790,767	2,000,000	-	-	-	-	2,000,000	90%
1TEC2 Empire Corridor Modernization	S. Burr	Sub. Complete	1,900,000	1,172,594	1,900,000	-	-	-	-	1,900,000	62%
1TEC3 Empire Extension	S. Burr	Design	10,800,000	182,221	1,600,000	8,500,000	700,000	-	-	10,800,000	2%
1TEC4 Empire & 27th Street Roundabout	S. Burr	Design	3,500,000	22,741	300,000	2,300,000	700,000	200,000	-	3,500,000	1%
1TEC5 Purcell Butler Market	S. Burr	Design	2,500,000	24,196	-	100,000	200,000	2,000,000	200,000	2,500,000	1%
1TEC6 Purcell Modernization	S. Burr	Design	2,700,000	93,449	-	100,000	800,000	1,600,000	200,000	2,700,000	3%
1XECI Empire Corridor Improvements Program			23,400,000	3,285,968	5,800,000	11,000,000	2,400,000	3,800,000	400,000	23,400,000	14%
1TMCI Murphy Corridor Improvement Projects											
1TMC1 Murphy Railway Overcrossing	G. Sabourin	Design	6,739,000	57,475	842,400	5,896,600	-	-	-	6,739,000	1%
1TMC2 Murphy Brosterhous to 15	G. Sabourin	Design	6,781,200	154,914	673,900	3,706,500	2,400,800	-	-	6,781,200	2%
1TMC3 Murphy & Brosterhous Roundabout	G. Sabourin	Design	2,948,300	44,692	505,400	252,700	2,190,200	-	-	2,948,300	2%
1TMC4 Murphy & 15th Roundabout	G. Sabourin	Design	2,948,300	70,557	-	505,400	252,700	2,190,200	-	2,948,300	2%
1TMC5 Murphy & Country Club Design	G. Sabourin	Design	2,948,300	9,985	-	-	505,400	252,700	2,190,200	2,948,300	0%
1TMC6 Murphy Corridor Improvements Parrell to Brosterhous	G. Sabourin	Design	9,634,900	37,513	-	-	-	1,493,800	2,431,700	3,925,500	0%
1TMCI Murphy Corridor Improvements			32,000,000	375,136	2,021,700	10,361,200	5,349,100	3,936,700	4,621,900	26,290,600	1%
1XCAI Citywide Accessibility Improvement Projects											
1ACAI Citywide Accessibility Improvements	R. Rowan	Sub. Complete	1,111,000	1,140,293	220,000	-	-	-	-	220,000	1 103%
1ADSC Dean Swift Road Corridor	R. Rowan	Sub. Complete	60,495	113,982	150,000	-	-	-	-	150,000	188%
1ADIV NE Division Street Corridor	R. Rowan	Sub. Complete	500,000	200	500,000	-	-	-	-	500,000	0%
1ACA2 Lodge Pole Drive Corridor	R. Rowan	Pending	315,000	-	-	315,000	-	-	-	315,000	0%
1ACA3 Poplar Street Corridor	R. Rowan	Pending	250,000	-	-	250,000	-	-	-	250,000	0%
1ACA4 SW Truman Hill Taft Silver Lake Corridor	R. Rowan	Pending	440,000	-	-	-	440,000	-	-	440,000	0%
1ACA5 SW Cleveland Avenue Corridor	R. Rowan	Pending	190,000	-	-	-	190,000	-	-	190,000	0%
1ACA6 NW Delaware Avenue Corridor	R. Rowan	Pending	500,000	-	-	-	-	500,000	-	500,000	0%
1ACA7 NW Hill Street Corridor	R. Rowan	Pending	250,000	-	-	-	-	250,000	-	250,000	0%
1ACA8 NW Seismore Street Corridor	R. Rowan	Pending	125,000	-	-	-	-	125,000	-	125,000	0%
1ACA9 Riverwest Neighborhood	R. Rowan	Pending	350,000	-	-	-	-	-	350,000	350,000	0%
1A1CA Riverside Neighborhood	R. Rowan	Pending	350,000	-	-	-	-	-	350,000	350,000	0%
1ACAI Citywide Accessibility Improvements			4,441,495	1,254,475	870,000	565,000	630,000	875,000	700,000	3,640,000	28%
Total Transportation Projects			92,462,095	31,827,270	17,683,960	23,756,200	8,604,100	8,611,700	5,721,900	64,377,860	

City of Bend 2019-2023 Capital Improvement Program Project List												
Project Name & Number	Project Manager	Current Phase	Project Cost Estimate	Spent to Date	2018-19 Budget	2019-20 Projected	2020-21 Projected	2021-22 Projected	2022-23 Projected	Total 2019-2023	Budget Notes	Percent Total Cost Est. Spent
Water												
1WEWL Egypt Waterline	E. Forster	Sub. Complete	771,000	510,877	400,000	-	-	-	-	400,000		66%
1WMP1 Water Master Plan Update	Unassigned	Planning	800,000	45,915	750,000	-	-	-	-	750,000		6%
1WAWP Awbrey Well Supply Expansion	Unassigned	Pending	2,021,760	-	-	2,021,760	-	-	-	2,021,760		0%
1WCPS College Parallel Pipe Study	Unassigned	Pending	1,215,760	-	-	1,215,760	-	-	-	1,215,760		0%
1WLPE Lafayette Pipe Enlargement	Unassigned	Pending	250,640	-	-	250,640	-	-	-	250,640		0%
1WVSS Valves Operational System Study	Unassigned	Pending	234,000	-	-	78,000	78,000	78,000	-	234,000		0%
1WSPP Parallel Piping Brookswood to Brosterhaus	Unassigned	Pending	1,596,400	-	-	-	1,596,400	-	-	1,596,400		0%
1WSSC New Water Well Near NE Shirley Court	Unassigned	Pending	2,830,464	-	-	-	2,830,464	-	-	2,830,464		0%
1WRBO Parallel Piping Rock Bluff to Brookswood	Unassigned	Pending	2,940,000	-	-	-	-	2,940,000	-	2,940,000		0%
1WSWO New Water Well Shiloh Site	Unassigned	Pending	2,721,600	-	-	-	-	2,721,600	-	2,721,600		0%
1WBRM Parallel Mains Brosterhous/Reed Mkt	Unassigned	Pending	1,742,000	-	-	-	-	-	1,742,000	1,742,000		0%
Total Water Projects			17,123,624	556,792	1,150,000	3,566,160	4,504,864	5,739,600	1,742,000	16,702,624		
Total 2019-2023 Capital Improvement Program			344,947,098	137,040,376	57,465,960	53,932,360	19,942,964	30,291,300	19,723,900	181,356,484		

Budget Notes & Revisions

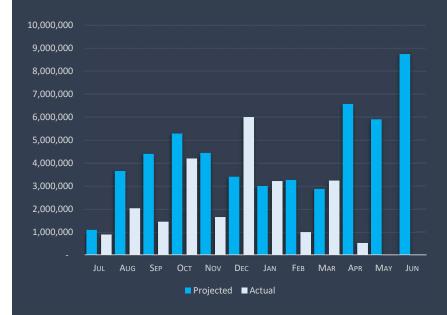
- * Capital R&R Program performed by EIPD but not included in the CIP budget documents.

 1- Budget increased/project funded with 2018 fiscal year-end rollover total adjustement \$342,072

CAPITAL IMPROVEMENT PROGRAM budget & spending

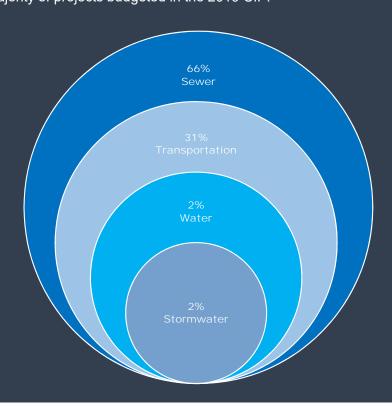
2019 PROJECTED MONTHLY SPENDING

The forecasted spending is based on current contract encumbrances and established project budgets. Projections are updated as projects contract throughout the year.



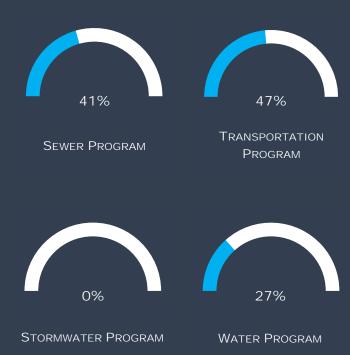
2019 BUDGETS BY PROGRAM

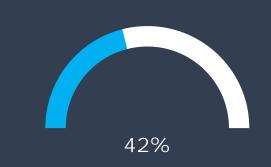
Sewer and Transportation, including Transportation Construction, Accessibility and General Obligation Bond projects, represent the majority of projects budgeted in the 2019 CIP.



BUDGETS SPENT by program

Total percent budget spent FY 2019 for each program.

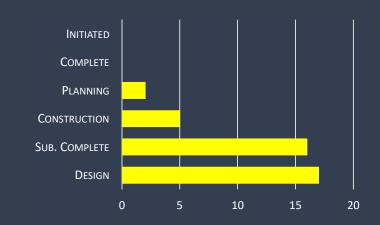




CAPITAL IMPROVEMENT PROGRAM

PROJECT PHASE

Of the projects that are active this fiscal year, what phase are they in now in the overall project life cycle?



SPENDING ON ACTIVE PROJECTS

Total percentage of budgets spent over the lifespan of the project for CIP projects that are active in fiscal vear 2019.

■ Total % Estimate Spent	al %	S Unspent
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1T14R 14TH ST. RECONSTRUCTION	100%	0%
1TR3N REED MKT: 3RD TO NEWBERRY	100%	0%
1SP1X SEI PHASE 1 EXTENSION	99%	1%
1TMPR MURPHY & PARRELL RAB	99%	1%
1S2S3 SEI SCHEDULE 2S&3	99%	1%
1SWRF SECONDARY EXPANSION	97%	3%
1SNAS North Area Gravity Main	97%	3%
1SNAF NORTH AREA FORCE MAIN	96%	4%
1TECI Purcell Roundabout	90%	10%
1T14B 14TH ST. PHASE II	88%	12%
1SBSS SOUTHEAST BEND SEPTIC SOLUTIONS	75%	25%
1ACAI CITYWIDE ACCESSIBILITY	74%	26%
1SCAP CAPACITY IMPROVEMENTS	72%	28%
1WEWL EGYPT WATERLINE	66%	34%
1SPIR PLANT INTERCEPTOR REHABILITATION	65%	35%
1TGCI GALVESTON CORRIDOR	65%	35%
1TEC2 EMPIRE CORRIDOR MODERNIZATION	62%	38%
1TCSI CITYWIDE SAFETY IMPROVEMENTS	28%	72%
1SRLS RIVERHOUSE LIFT STATION	19%	81%
1SNIP NORTH INTERCEPTOR	16%	84%
1SPSD PUMP STATION DECOMMISSIONS	9%	91%
1WMP1 WATER MASTER PLAN UPDATE	<mark>6</mark> %	94%
1SMTI AMETHYST MAHOGANY DIVERSION	5 %	95%
1SSHI Solids Handling	4%	96%
1TMC2 Brosterhous to 15	2%	98%
1TBKE BICYCLE GREENWAYS	2%	98%
1TEC3 EMPIRE EXTENSION	2%	98%
1TMC3 Brosterhous RAB	2%	98%
1S036 Drake Lift Station	1%	99%
1TMCI RR Crossing	1%	99%
1TEC4 EMPIRE & 27 RAB	1%	99%
1TNPS NEFF AND PURCELL DESIGN	0%	100%
1SCSE COLLECTION SYSTEM ENHANCEMENT	0%	100%
1ADIV NE DIVISION STREET CORRIDOR	0%	100%
1RNPR NEWPORT PIPE	0%	100%
1RMP1 STORMWATER MPU	0%	100%

CLEAN WATER



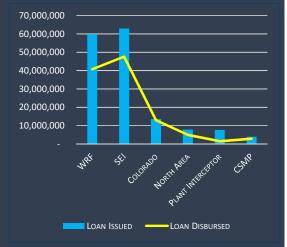
EIPD has participated in the Clean Water State Revolving Fund (CWSRF) loan program since 2011.

The program, administered by the State of Oregon Department of Environmental Quality, provides below market rate loans for the planning, design and construction of various water pollution control activities.

The of Bend has received significant assistance from the CWSRF program. We have over \$150 million in loans issued to date and in December 2018 we applied for an additional \$19.5 million in funding.

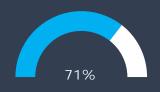
LOANS BY PROJECT

Information is grouped by major project over the life of the program.

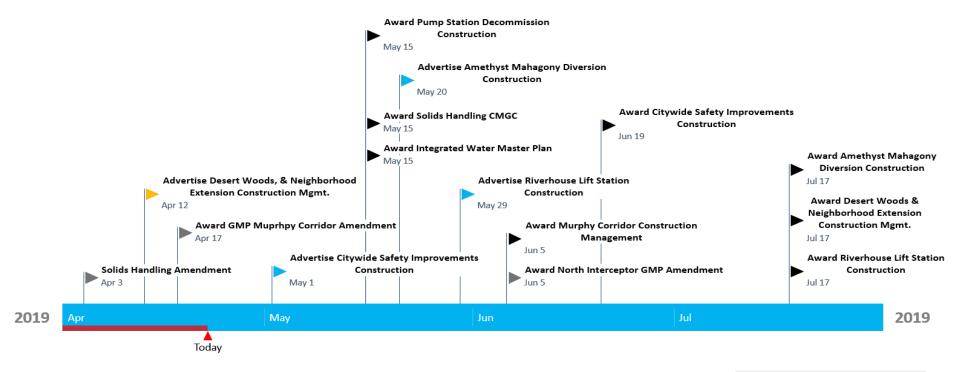


TOTAL AMOUNT DISBURSED

Disbursements are processed monthly for projects active in construction.



EIPD Procurement Timeline



Information provided for forecasting purposes only and subject to change without prior notice.



Collection System Enhancement Program

This program includes approximately 100 capital repair and replacement projects identified in the Collection System Master Plan. The total work scheduled for all projects over the next 25 years is about \$120 million.	,	Design	In Co. mplete	uction	Close Compi	Out Complete
Project Manager: Oliver Murray omurray@bendoregon.gov	Plansi	O esting	0 W	Const		53
#97B The Shire Lift Station Decommission						
#53 Underwood Lift Station Condition Upgrade	•	•	•			
#27 Pioneer Lift Station Condition Upgrade	•					
#45 Renwick Lift Station Condition Upgrade	•	•	•			
#65A Nottingham #1 Lift Station Decommission - Gravity Sewer Diversion	•					
Riverhouse Lift Station	•	•				
#35 Deschutes Business Lift Station Condition Upgrade	•					
#26 Canal View Lift Station Upgrade	•					
#41 Pacific Lift Station Condition Upgrade	•					
#46 Rimrock #1 Lift Station Condition Upgrade	•					
#47 Rimrock #2 Lift Station Condition Upgrade	•					
#48 Rimrock #4 Lift Station Condition Upgrade	•					
#49 Rimrock #5 Lift Station Condition Upgrade	•					
#42 Poplar Park Lift Station Capacity and Condition						
#62B Camden Lift Station Decommission						
#67A Ridgewater #2 Lift Station Decommission - Gravity Sewer Diversion						
#67B Ridgewater #2 Lift Station Decommission						
#65A Nottingham #1 Lift Station Decommission - Gravity Sewer Diversion						
#66B Nottingham #2 Lift Station Decommission						
#71A&B Old Mill Lift Station Hydraulic Upgrade						
#123 Renaissance Lift Station Condition Upgrade						

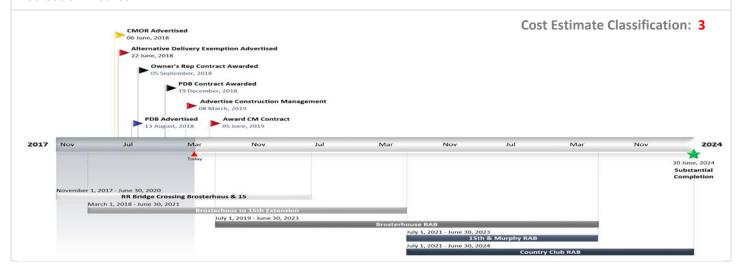
Murphy Corridor Improvements Project

Murphy Road is a collector route located in the SE corner of Bend. The Corridor has undergone several transportation network upgrades over the previous decade and remaining upgrades will be seen between the intersections of Parrell and 15th. Additional improvements shall improve safety, efficiency, connectivity and reliability of the transportation system in SE Bend.



Scope	Schedule	Cost
Progressive design build delivery method will be utilized to complete several subprojects, including the Brosterhouse to 15 th Roadway Extension, including Bridge at BNSF Railway Crossing, a roundabouts at Brosterhous, Country Club, 15th and widening and complete street upgrades at Parrell to Brosterhouse.	Start Date: 11/1/2018 Substantial Completion: 10/31/2022 Final Closeout: 12/31/2022	Total Estimated: \$32,000,000 Spent to Date: \$375,136 % Spent to Estimated: 1% Sub-Projects: Est. Spent RR/Bridge \$6,739,000 \$57,475 Extension \$6,781,200 \$154,914 B-haus RAB \$2,948,300 \$44,692 15 th RAB \$2,948,300 \$70,557 C. Club RAB \$2,948,300 \$9,985
Status: On Scope	Status: On Schedule	Corridor Imp. \$9,634,900 \$27,513
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month

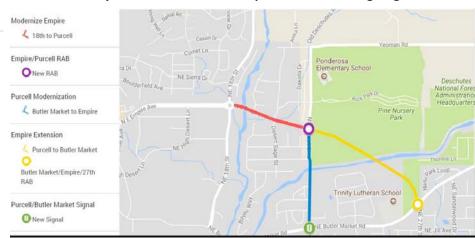
Status Update: Initiated first Guaranteed Maximum Price (GMP) contract for early work associated with the Modernization and Corridor Improvements in coordination with the Bend La Pine School District and Parks and Recreation District.



Empire Corridor Improvements

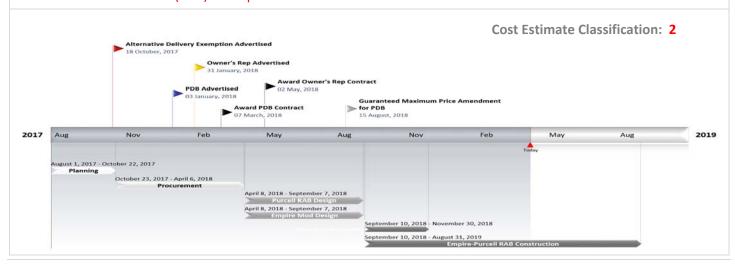
Planning and preliminary design for Empire Avenue began in 2005. In 2017 Council designated it as a high priority for improving the safety, efficiency, and reliability of transportation in northeast Bend. Council identified the design and construction of a roundabout at the Empire/Purcell intersection as the highest priority component of the project.

Primary Contact: Sinclair Burr | sburr@bendoregon.gov



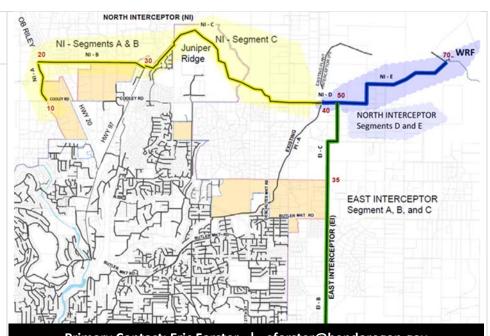
Schedule Scope Cost Six distinct but interrelated sub-Start Date: 08/1/2017 Total Estimated: \$23,400,000 projects are included: Empire/Purcell Substantial Completion: 8/31/19 Spent to Date: \$3,285,968 Roundabout, Empire Avenue Final Closeout: 8/31/20* % Spent to Estimated: 14% Modernization, Purcell Boulevard Modernization, Empire Avenue Sub-Projects: Est. Spent Extension, Purcell/Butler Market * Current schedule for Empire Ave. Purcell RAB \$2,000,000 \$1,790,767 Signal Modernization and 27th Street Modernization and Empire-Purcell **Empire Mod** \$1,900,000 \$1,172,594 Roundabout. Due to the complexity RAB only. Other projects will be Purcell Mod \$2,700,000 \$93,449 of implementing all the related added to the timeline at a future **Emp Extension** \$10,800,000 \$182,221 components of the project, a date. Butler Mkt Sig \$2,500,000 \$24,196 Progressive Design-Build project Emp/27 RAB \$3,500,000 \$22.741 delivery method will be used. **Status: Baseline Scope Modification Status: Baseline Schedule** Status: On Budget **Adjustment** Adjustments: Scope transferred Adjustments: Project shut down in Adjustments: No impact to budget between sub-projects. February/March due to snow for scope or schedule modifications. conditions and scope modification

Status Update: Work on Purcell RAB restarted March 18 after winter weather event. Scope from Empire Extension transferred to Purcell RAB to time road closure for after school year ends. Alternatives analysis on Empire & 27 determined a roundabout (RAB) is the preferred and lowest cost solution for the intersection.



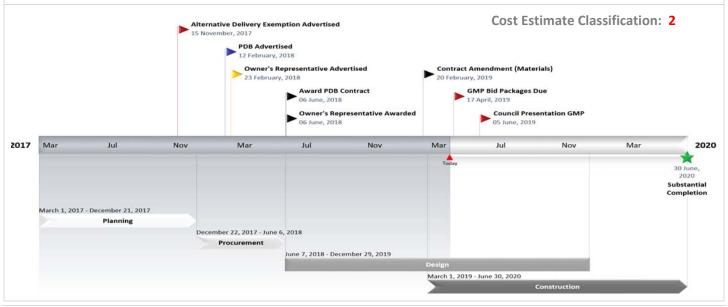
North Interceptor Project Phase I

Sewer Interceptor running east to west on the Northern Edge of Bend's UGB, beginning at Cooley Road and OB Riley Road and running east past the Juniper Ridge development, connecting with existing Plant Interceptor, connecting with the East Interceptor, and continuing further east to deliver untreated waste water to the WRF. Segments NI-D and NI-E are designated as Priority 1 (10,300 feet). Segments NI-A, NI-B, and NI-C are designated a Priority 2 (26,300 feet).



	Primary Contact: Eric Forster	eforster@bendoregon.gov
Scope	Schedule	Cost
Design, bid, contract, and build approximately 10,500 feet of gravity sewer, various diameters running along the Northern edge of Bend's UGB. Connects to the WRF.	Start Date: 3/1/17 Substantial Completion: 12/31/2020 Final Closeout: 12/31/2021	Total Estimated: \$40,000,000 Spent to Date: \$3,608,244 % Spent to Estimated: 9%
Status: Scope Increase	Status: On Schedule	Status: Budget Increase
Adjustments: Original project did not include canal work. Results of the alternatives analysis indicate the need for a pump station.	Adjustments: No impact to schedule due to scope increase.	Adjustments: Additional budget will be requested during 2019-2021 budget development to cover scope increase.

Status Update: Project Plans and Specs are complete. The Progressive Design Builder has advertised all bid packages. Bids are due to be received on April 17th. Final GMP costs will be generated from these bids. Final GMP presentation to council is scheduled for June 5th.



Newport Pipe Replacement

The South Awbrey Butte Drainage Study completed in 2017 determined that the existing stormwater and conveyance system on Newport Avenue is in need of replacement. This study identified the replacement of the Newport Avenue trunk line as the highest priority project in the drainage basin and also prioritized fifteen associated projects that would directly benefit the trunk line project or mitigate flooding and/or improve water quality in the basin.



Partially collaped storm pipe under Newport Ave.

Primary Contact: Drew Wells | awells@bendoregon.gov

Scope	Schedule	Cost
Reconstruct existing drainage collection and conveyance system along Newport and Nashville Avenues. Synergy projects include water, sewer, accessibility and transportation elements.	Start Date: 3/6/2019 Substantial Completion: 10/31/2023 Final Closeout: 10/31/2024	Total Estimated: \$13,779,000 Spent to Date: \$0 % Spent to Estimated: 0%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month

Status Update: Completion of the Project Charter expected early May. Anticipated advertisement of the RFP for Design expected mid-May.

Cost Estimate Classification: 5



Drake Lift Station Upgrade

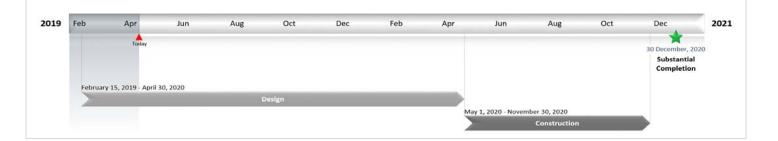
The existing lift station is at the end of its useful life. Replacement is necessary to address existing condition issues, long-term capacity constraints, and present-day site limitations. In order to accommodate increased flows to the station from the build-out of the drainage basin, the project will replace the existing station, upsizing gravity mains, and installing a new discharge force main from the station to the Colorado Lift Station Force Mains.



Scope	Schedule	Cost
Project includes pumps, piping, electrical and control equipment, standby generator for back-up power, odor control equipment, wet or dry wells, liquid level monitoring, pressure monitoring, flow monitoring, bypass pumping port, and telemetry equipment within a new station, as well as gravity and force main construction.	Start Date: 2/15/2019 Substantial Completion: 11/30/2020 Final Closeout: 11/30/2021	Total Estimated: \$7,500,000 Spent to Date: \$43,864 % Spent to Estimated: 1% Sewer Project \$7,500,000 Accessibility \$150,000 Water Project \$120,000
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month

Status Update: Held Project Definition workshop to finalize alternatives analysis and select proposed pump station site and pipeline alignments. Proceeding with 30% design development with selected options.

Cost Estimate Classification: 5



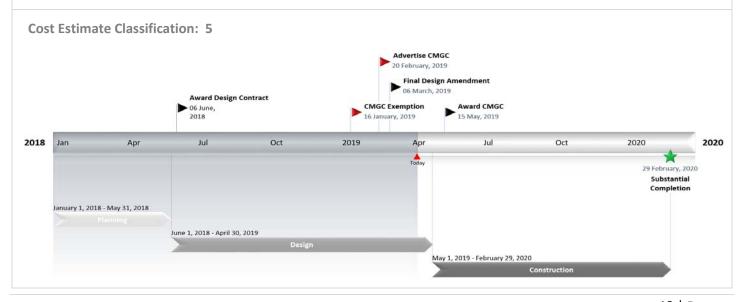
Solids Handling Improvements

The City of Bend's Water Reclamation Facility (WRF) solids handling dewatering process has maintenance, redundancy, and operational challenges. The system is nearing capacity and there is heavy corrosion in both the building and on equipment resulting in deterioration of assets.



Scope Schedule Cost Start Date: 6/1/2018 Total Estimated: \$5,500,000 The objective of the project is to upgrade the solids dewatering Substantial Completion: 2/29/2020 Spent to Date: \$199,430 process to ensure (1) increase in Final Closeout: 3/1/2021 % Spent to Estimated: 4% dewatering performance while continuing to produce Class A biosolids, (2) increase capacity, (3) increase asset lifespan, and (4) provide safe work environment for staff. Status: On Scope Status: On Schedule **Status: Potential Budget Adjustment** Adjustments: No impact to scope for Adjustments: No impact to schedule Adjustments: Preliminary estimates potential budget adjustment for potential budget adjustment coming in higher than original

Status Update: Final design contract approved and CMGC proposals due April 11.



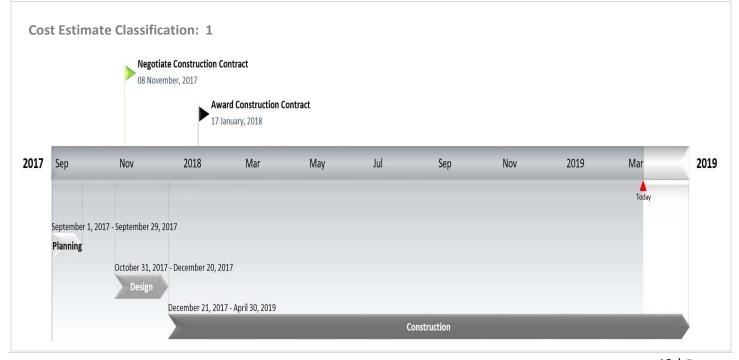
Capacity Improvements Project

Provides additional treatment capacity at the Water Reclamation Facility (WRF) in order to ensure the City continues to meet the needs of the community and Department of Environmental Quality (DEQ) permit requirements. Treatment capacity increases from 6.5 MGD to 8.5 MGD when complete with greater flexibility in the future to increase capacity at a much lower cost.



Scope	Schedule	Cost			
This project would add plant capacity by retrofitting existing aeration basins to Integrated Fixed-Film Activated Sludge (IFAS) operation, making hydraulic improvements to plant piping and starting up Ultra Violet disinfection systems to replace the current chlorine contact system.	Start Date: 4/1/2017 Substantial Completion: 5/27/19 Final Closeout: 5/27/2020	Total Estimated: \$8,000,000 Spent to Date: \$5,716,780 % Spent to Estimated: 71%			
Status: On Scope	Status: On Schedule	Status: On Budget			
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month			

Status Update: Started working on plant effluent ultraviolet (UV) system and performance testing will begin in May.



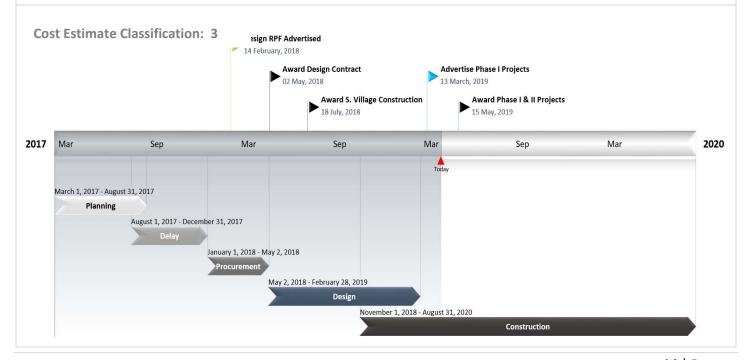
Pump Station Decommissions Program

The cost analysis in the Collection System Master Plan determined the following lift station decommissions: Nottingham Pump Station Connections to SEI, Ridgewater #1, Bridges at Shadow Glen, Tri-Peaks, Crown Villa #1 & #2, Murphy, Quail Ridge #1 & #2, South Village, and Sun Meadow.



Scope	Schedule	Cost
The project consists of decommissioning multiple sewer pump stations throughout the City where gravity sewer diversions have been determined to be viable.	Start Date: 3/1/2017 Substantial Completion: 08/31/2020 Final Closeout: 12/31/2020	Total Estimated: \$4,500,000 Spent to Date: \$417,040 % Spent to Estimated: 9%
Status: Potential Scope Increase	Status: Baseline Schedule Change	Status: Potential Budget Increase
Adjustments: Phase III work being evaluated as part of a private development project.	Adjustments: Phase I and Phase II work combined. Phase III work being evaluated.	Adjustments: If Phase III work is added, a budget increase is necessary.

Status Update: Phase I plans were repackaged with Phase II and have been advertised for construction bids. Bids are due April 23rd with a council presentation date of May 15th. Schedule was adjusted to accommodate additional work from Phase II.



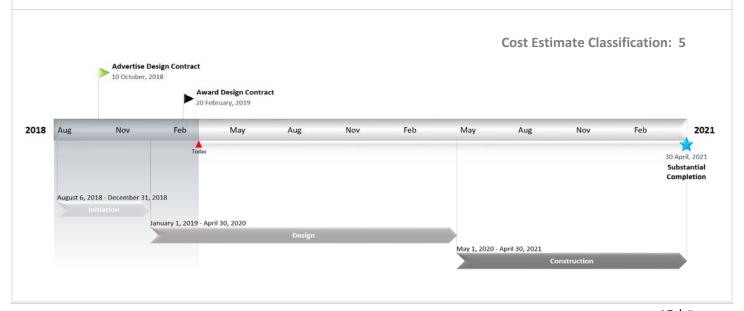
Neff & Purcell Intersection

This intersection and corridor has been highly prioritized by members of the community serving on the City of Bend Accessibility Advisory Committee and a previous safety study. The project will include the following tasks: public engagement, survey, design, and construction of missing sidewalks and a safer intersection for all users serving the surrounding medical, residential, and school properties.



Scope	Schedule	Cost
Improvements to the existing intersection of Neff Road and Purcell Boulevard for all modes of transportation. Improvements to the pedestrian infrastructure to the west of the signal. An alternatives analysis will determine the exact improvements implemented here.	Start Date: 8/6/2018 Substantial Completion: 06/30/2021 Final Closeout: 06/30/22	Total Estimated: \$4,000,000 Spent to Date: \$2,428 % Spent to Estimated: 0.06%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month

Status Update: Design kickoff meeting held and alternatives analysis underway.



Desert Woods Sewer Main Project

This project was broadly identified by the Sewer Infrastructure Advisory Group (SIAG) in 2012 as part of a plan to assist properties in SE Bend to transition from septic systems to City sewer. The need for this conversion program is discussed in the City's 2014 Public Facility Plan and Collection System Master Plan documents. In December 2018, Council approved the Septic to Sewer Program as recommended by the Septic to Sewer Conversion Committee.



Primary Contact: Katherina Barguil | kbarguil@bendoregon.gov

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Scope Construct new sewer main along

Desert Woods Drive and 15th Street to provide stub-outs to property owners in the public right of way for connecting to the SEI.

Schedule

Start Date: 7/1/2019
Substantial Completion: 10/31/2020

Final Closeout: 10/31/2021

Cost

Total Estimated: \$6,000,000

Spent to Date: \$0 % Spent to Estimated: 0%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior

month

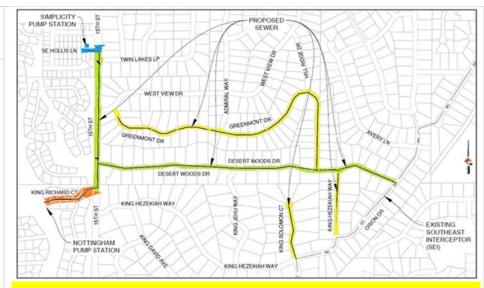
Status Update: Construction Management & Inspection Services RFP closes on May 15, 2019. Construction Services Best Value RFP set to post on May 16, 2019.

Cost Estimate Classification: 2



Bend Sewer Extension 1 Project

This project was broadly identified by the Sewer Infrastructure Advisory Group (SIAG) in 2012 as part of a plan to assist properties in SE Bend to transition from septic systems to City sewer. The need for this conversion is discussed in the City's 2014 Public Facility Plan and Collection System Master Plan. In December 2018, Council approved the Septic to Sewer Program as recommended by the Septic to Sewer Conversion Committee. This project is under the Neighborhood Extension Program.



Primary Contact: Katherina Barguil | kbarguil@bendoregon.gov

Schedule Cost Scope Construct new sewer main along Start Date: 7/1/2019 **Total Estimated:** \$5,000,000 Desert Woods Drive and 15th Street Substantial Completion: 6/30/2021 Spent to Date: \$0 to provide stub-outs to property Final Closeout: 6/30/2022 % Spent to Estimated: 0% owners in the public right of way for connecting to the SEI. **Status: On Scope Status: On Schedule Status: On Budget** Adjustments: No change from prior Adjustments: No change from prior Adjustments: No change from prior month month month

Status Update: Construction Management & Inspection Services RFP closes on May 15, 2019. Construction Services Best Value RFP set to post on May 16, 2019.

Cost Estimate Classification: 2



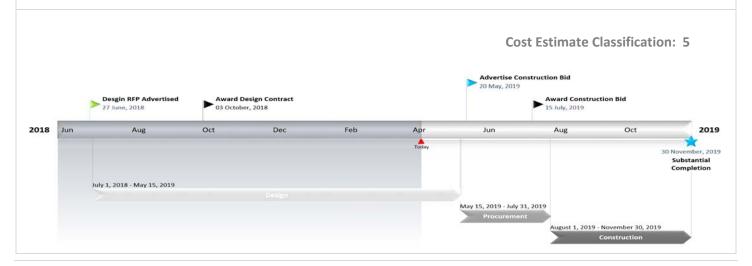
Amethyst Mahogany Diversion

This project is a sewer diversion structure and pipeline, approximately 1,200 lineal feet in length that will serve the Amethyst-Mahogany sewer collection basin and reroute flows into the recently completed Southeast Interceptor. This action will mitigate capacity constrained segments of the Central Interceptor.



Scope	Schedule	Cost
Design and construction of a diversion box and pipeline routing sewer flows to the Southeast Interceptor.	Start Date: 7/1/2018 Substantial Completion: 11/30/2019 Final Closeout: 11/30/2020	Total Estimated: \$3,900,000 Spent to Date: \$187,569 % Spent to Estimated: 5%
Status: On Scope	Status: Potential Schedule Change	Status: On Budget
Adjustments: No change from prior month	Adjustments: Coordination with private development in the project area may require a schedule adjustment.	Adjustments: Project costs are not impacted due to private development coronation.

Status Update: Final design is scheduled for April with advertisement for bidding expected in May. Evaluating impacts to project from the schedule change to determine best option for the project.



Southeast Bend Septic to Sewer Solutions

When constructed, existing residences, currently on septic systems, will eventually and systematically connect to the recently constructed South East Interceptor (SEI). This project will require phases to meet constructability limitations and to better meet community involvement requirements.



Primary	Contact: Skin Martin	smartin@bendoregon.gov
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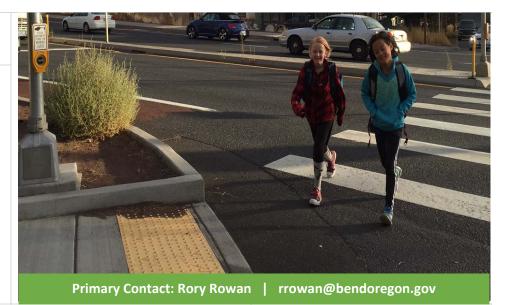
Scope	Schedule	Cost
Design 35,000 feet of gravity sewer through a portion of Southeast Bend area near King's Forest neighborhood.	Start Date: 10/10/2016 Substantial Completion: 12/31/2019 Final Closeout: 12/31/2019* * City is currently only planning to design this project.	Total Estimated: \$2,800,000* Spent to Date: \$2,094,261 % Spent to Estimated: 75%
Status: On Schedule	Status: On Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month

Status Update: Final Review for "Desert Woods and N01" bid-ready documents continue. "Best Value" Contract mechanism approved by City Council. RFP for Construction Management Services - Advertised on 12 April 2019, Closes on 15 May 2019. Draft RFP for Construction underway with "Best Value" guidelines. Target Mid-May 2019 to advertise. Open House in preparation for construction for the "Desert Woods and N01" scheduled for area homeowners on May 2, 2019. Monitor the NEP requests and assist homeowners as needed. Next date for receiving NEP applications is February 2020.



Citywide Safety Improvements

With the help of the community and a prior safety study, the city has identified multiple locations across the city where there have been a high number of crashes. Several treatments are proposed to make these locations safer for people walking, riding bicycles, and driving. This project will further develop the design of these treatments and construct them with additional community input.



•	
Survey, design, traffic analysis, publi	С
involvement, and construction of	
safety improvements at the following	g
locations: 3rd & Hawthorne, 3 rd &	
Franklin, 3 rd & COID Canal, 3 rd &	
Pinebrook, 3 rd & Roosevelt, Colorado	О
Interchange, Neff & Williamson, 27t	h

railroad underpass.

Schedule

Start Date: 10/1/2014

Substantial Completion: 6/30/2021

Final Closeout: 6/30/2022

Completed Projects:

• 3rd & Roosevelt

Neff & Williamson Blvd

• 27th & Conners Ave

Cost

Total Estimated: \$2,940,600

Spent to Date: \$967,726

% Spent to Estimated: 33%

Status: On Scope

Adjustments: No change from prior

& Conners, and Brosterhous Road

month

Scope

Status: Behind Schedule

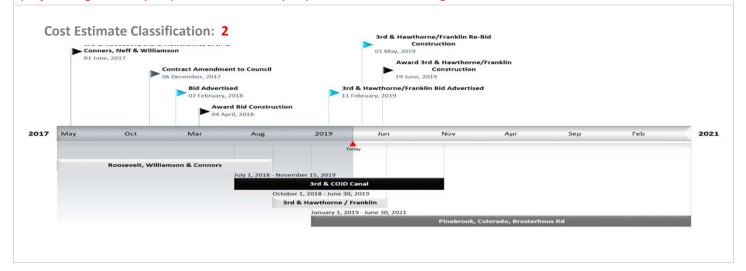
Adjustments: Project behind schedule due to no bids being received. Will adjust schedule after bid closes.

Status: On Budget

Adjustments: No change from prior

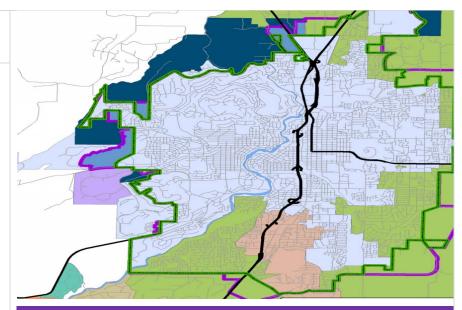
month

Status Update: No bids received for the 3rd Street at Hawthorne and at Franklin segments. Project will go out for rebid on May 1. Updated bid package will afford greater flexibility in project schedule to increase contractor interest in project. Right of Way acquisition is currently in process for the crossing on 3rd at the Canal.



Integrated Water System Master Plan Project

The purpose of this Integrated Water System Master Plan is to provide the City with information and guidance for the utility water system's operation, maintenance, and development, as well as incorporate integrated conservation, energy reduction, and water management practices into long-term planning. The plan will emphasize the optimization of Utility Water operations in an effort to decrease operational and energy costs, with the potential to reduce capital improvement replacements, while continuing to provide a safe and reliable water supply to the growing Bend community.



Primary Contact: Katherina Bargi	iil kharguil@hendoregon.gov
Timary contact: Ratherma Barg	an Rouigan@bendoregoingov

Scope	Schedule	Cost	
The Integrated Water System Master Plan will aim to identify system deficiencies and improvements over a regulatory compliance period of 20 years and will be guided by the requirements set forth by the State of Oregon Administrative Rules (OAR). Key deliverables include a phased Capital Improvement Program (CIP), an updated System Development Charge (SDC) strategy, a Water Management and Conservation Plan (WMCP), and a Water Public Facility Plan (PFP). Existing system condition assessments will also be produced for tanks, reservoirs, wells, and booster pumps to better inform the system model and capital improvement recommendations.	Start Date: 5/1/2019 Substantial Completion: N/A Final Closeout: 1/31/2021	Total Estimated: Spent to Date: % Spent to Estimated:	\$1,500,000 \$0 0%
Status: On Scope	Status: On Schedule	Status: On Budget	
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No chang month	ge from prior

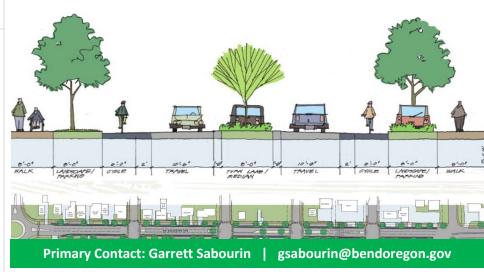
Status Update: Authorization to be requested at the May 15, 2019 Council Meeting.

Cost Estimate Classification: N/A

No timeline provided for planning documents.

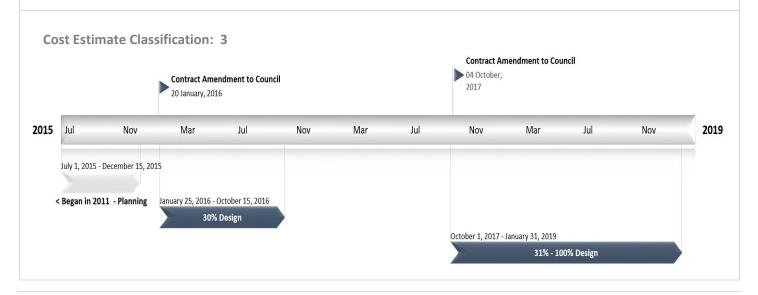
Galveston Corridor Improvements

The Galveston Corridor planning dates back to 2007 when the Traffic Safety Advisory Committee identified the project as the City of Bends 4th highest safety priority project, for existing arterials and collectors. Following initial identification of the project there was significant public interest and involvement from the adjacent community, resulting in the development of a local task force and subsequent council acceptance of a 'hybrid' streetscape concept. Design initiated in 2016.



Scope	Schedule	Cost
Scope includes the design of the three-lane hybrid option, Deschutes River Bridge to 14 th Street, from 30% to final design. The three-lane hybrid option is seen in the above exhibit and includes drainage improvements, pedestrian crossings, raised medians, buffered bike lanes, on-street parking and ADA compliant pedestrian facilities.	Start Date: 06/01/2011 Substantial Completion: TBD Final Closeout: 01/31/2019** ** Construction not funded. Final closeout indicates 100% design.	Total Estimated: \$950,000† Spent to Date: \$614,233* % Spent to Estimated: 65% † Total cost estimate for design * Includes planning prior to CIP
Status: On Scope	Status: Behind Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: Project behind schedule due to workload constraints	Adjustments: No change from prior month

Status Update: Additional traffic analysis regarding traffic calming in the adjacent neighborhood has been submitted and is under review. Results of the analysis are planned to be communicated to Council in April.



Bicycle Greenways Project

An initial network of neighborhood greenways across Bend will be created to make walking and biking a more comfortable and safe travel option. It will be implemented in phases and by corridor over multiple years. The proposed improvements will provide safer connections, reduce cut through traffic and speeds, help people cross busier streets, and link together housing, parks, schools, and businesses.



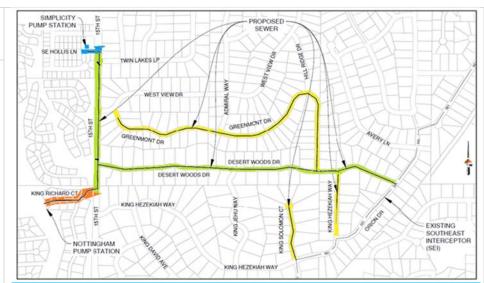
Scope	Schedule	Cost
Design, public outreach, and construction of signs, pavement markings, and traffic calming improvements across a 9-mile network of local streets. The initial phase currently underway includes: NE 6 th St (Greenwood to Butler Market) NW/SW 15 th St (Simpson to Galveston)	Start Date: 2/1/2018 Substantial Completion: 06/30/2021 Final Closeout: 06/30/2022	Total Estimated: \$900,000 Spent to Date: \$17,281 % Spent to Estimated: 2%
Status: On Scope	Status: Potential Schedule Change	Status: On Budget
Adjustments: No change from prior month	Adjustments: Paving in Street Operations Division may impact schedule	Adjustments: No change from prior month

Status Update: Phase 1 (NE 6th & NW 15th Streets) contract has been awarded and construction is scheduled to begin May 1. Utilizing on-call contract to scope Phase II work.



Simplicity Main & Pump Station Decommission

This project was broadly identified by the Sewer Infrastructure Advisory Group (SIAG) in 2012 as part of a plan to assist properties in SE Bend to transition from septic systems to City sewer. The need for this conversion program is discussed in the City's 2014 Public Facility Plan and Collection System Master Plan documents. In December 2018, Council approved the Septic to Sewer Program as recommended by the Septic to Sewer Conversion Committee.



Primary Contact: Katherina Barguil	kbarguil@bendoregon.gov
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month

Adjustments: No change from prior

Scope	Schedule	Cost	
Decommission the Simplicity Pump Station and construct a sewer main along SE Hollis Lane to 15 th Street; provides gravity connection to the SEI.	Start Date: Substantial Completion: Final Closeout:	Total Estimated: Spent to Date: % Spent to Estimated:	\$500,000 \$0 0%
Status: On Scope	Status: On Schedule	Status: On Budget	

Status Update: Construction Management & Inspection Services RFP closes on May 15, 2019. Construction Services Best Value RFP set to post on May 16, 2019.

Adjustments: No change from prior

month

Cost Estimate Classification: 2

Adjustments: No change from prior

month



Nottingham Main & Pump Station Decommission

This project was broadly identified by the Sewer Infrastructure Advisory Group (SIAG) in 2012 as part of a plan to assist properties in SE Bend to transition from septic systems to City sewer. The need for this conversion program is discussed in the City's 2014 Public Facility Plan and Collection System Master Plan documents. In December 2018, Council approved the Septic to Sewer Program as recommended by the Septic to Sewer Conversion Committee.



Scope	Schedule	Cost
Decommission the Simplicity Pump Station and construct a sewer main along SE Hollis Lane to 15 th Street; provides gravity connection to the SEI.	Start Date: Substantial Completion: Final Closeout:	Total Estimated: \$500,000 Spent to Date: \$0 % Spent to Estimated: 0%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month

Status Update: Construction Management & Inspection Services RFP closes on May 15, 2019. Construction Services Best Value RFP set to post on May 16, 2019.

Cost Estimate Classification: 2 2020 Jul Aug Sep Oct Nov 2021 Feb Mar May Jun 2021 30 June, 2021 Substantial Completion July 1, 2020 - June 30, 2021

Riverhouse Lift Station Improvements Project

As identified in the 2014 CSMP and recommended by the Infrastructure Advisory Committee (IAC), the Riverhouse Lift Station Improvements project includes projects 1, 5 and 6 identified in the North Area Sewer Upgrades project and concludes the work prepared under that project. The improvements will balance flows in this area and provide additional capacity to the north end of the collection system.

Primary Contact: George Franklet | gfranklet@bendoregon.gov

Scope	Schedule	Cost	
	Start Date:	Total Estimated:	\$500,000
	Substantial Completion:	Spent to Date:	\$0
	Final Closeout:	% Spent to Estimated:	0%
Status: On Scope	Status: On Schedule	Status: On Budget	
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No chang month	e from prior

Status Update:

Cost Estimate Classification: 2