



ENGINEERING

Monthly Report

Fiscal Year 2017-2018

March 2018



Contents

Capital Improvement Program in Brief.....	1
EIPD Procurement Timeline.....	2
City of Bend 2018 – 2022 Capital Improvement Program Project List.....	3
Citywide Accessibility Improvements.....	5
Empire Corridor Improvements.....	6
Dean Swift Corridor Citywide Accessibility.....	7
Galveston Corridor Improvements.....	8
Citywide Safety Improvements.....	9
14 th Street Reconstruction.....	10
Egypt Waterline Project.....	11
Southeast Interceptor.....	12
North Area Sewer Capacity Improvements.....	13
Southeast Bend Septic to Sewer Solutions.....	14
Plant Interceptor Rehabilitation.....	15
North Interceptor Project.....	16
Capacity Improvements Project.....	17
Pump Station Decommissions Projects.....	18
South Mirror Pond Parking Lot.....	19
Collection System Master Plan Post Acknowledgement Plan Amendment.....	20

Financial Impact Review: Review by Finance Director, Sharon Wojda, 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.

CAPITAL IMPROVEMENT PROGRAM in BRIEF

For a quick summary of the 2018 fiscal year take a look below...

Construction season is off to a strong start with nearly **\$7 million** in construction contracts going to Council in March and an estimated **\$30 million** more seeking Council approval by the end of the fiscal year in June.

How have the numbers **changed** since the CIP was adopted in June?

	Baseline	Now
TOTAL PROJECTS	75	83
ACTIVE PROJECTS	45	49
BUDGET	\$57.4 M	\$64.4 M

How much of the 2018 fiscal year budgets have been **spent** so far?

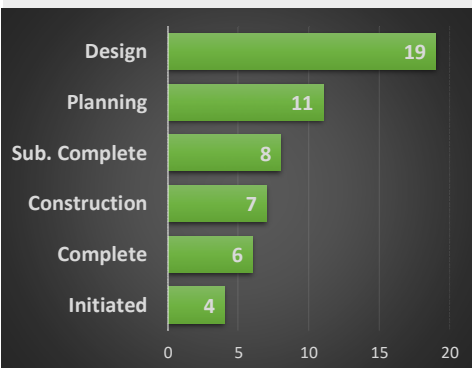
\$19.1 Million

- OR -

30% of the total adjusted budgeted

February was a short month, and as expected, spending was slower than in prior months. We can attribute this to a handful of projects nearing substantial completion.

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

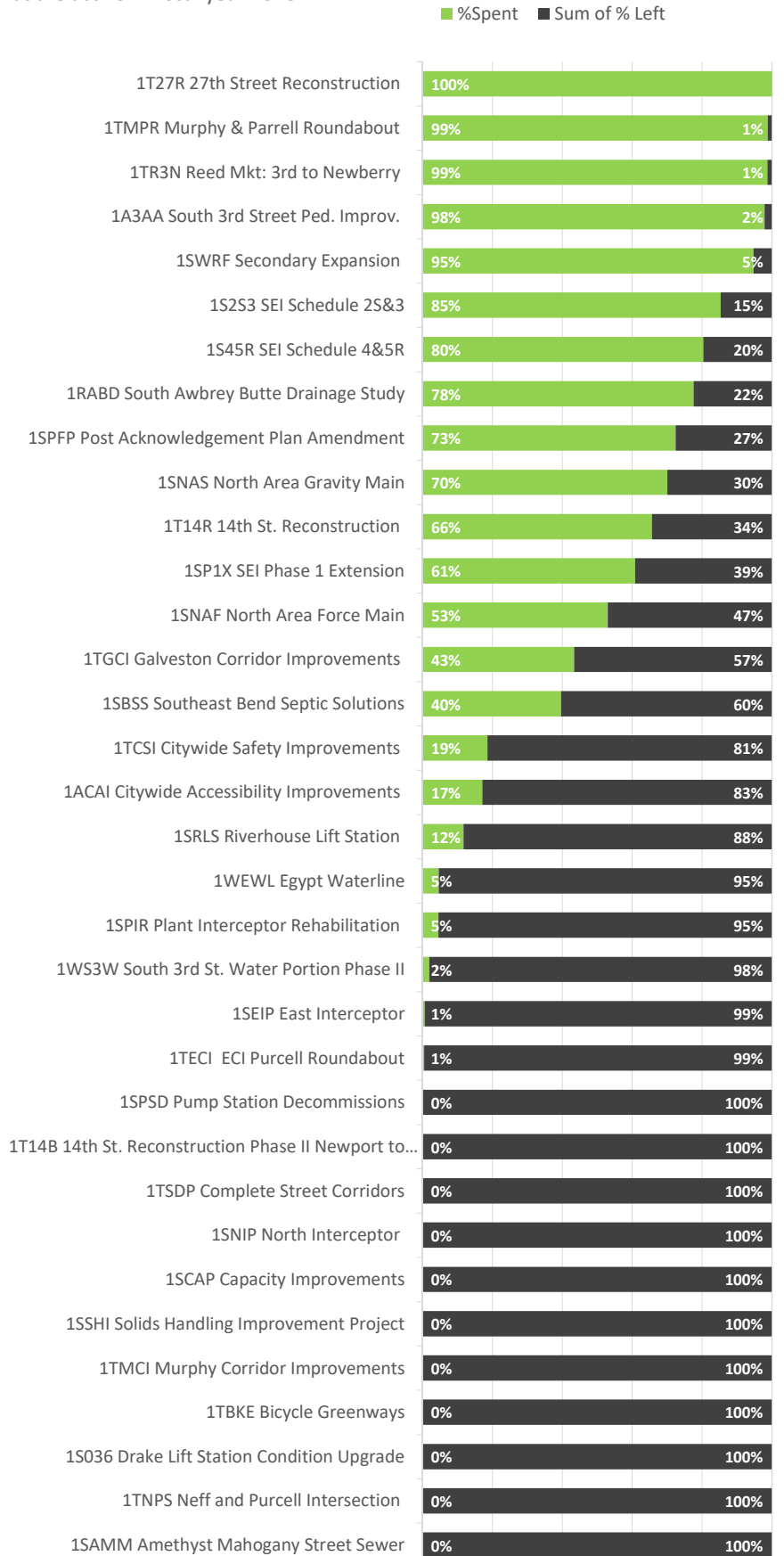


The North Area Sewer Capacity Improvements Projects were responsible for the big change in status this month. See page 13 for the final status update on this group of projects.

Reporting Period: Feb 1 - 28

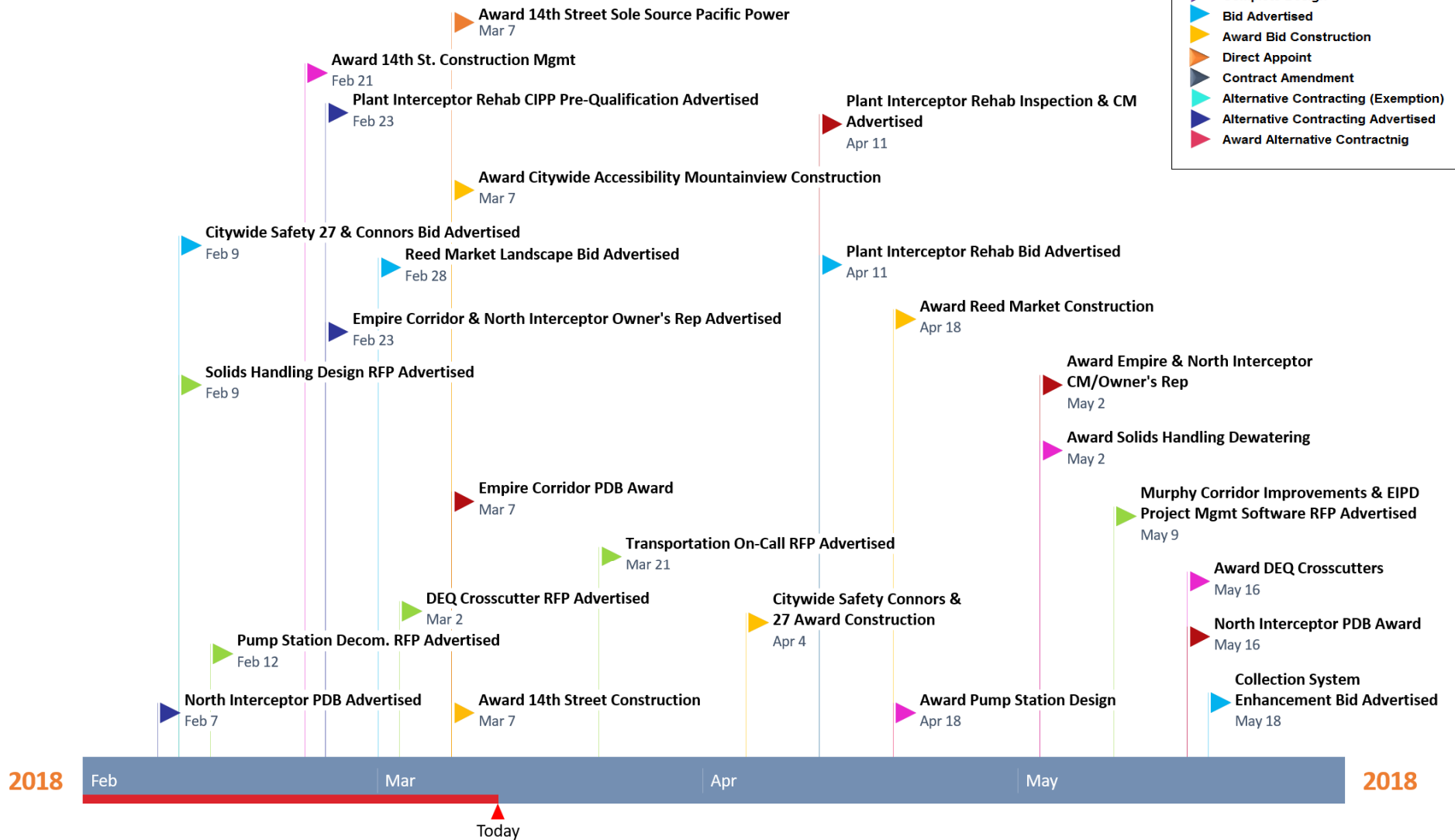
SPENDING ON ACTIVE PROJECTS

Total percentage of budgets spent over the lifespan of the project for projects that are active in fiscal year 2018.



EIPD Procurement Timeline

KEY	
	Design RFP Advertised
	Award Design Contract
	Complete Design
	Bid Advertised
	Award Bid Construction
	Direct Appoint
	Contract Amendment
	Alternative Contracting (Exemption)
	Alternative Contracting Advertised
	Award Alternative Contracting



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

City of Bend 2018 - 2022 Capital Improvement Program Project List															
Project Name & Number	Major Project	Project Manager & Team Member(s)	Projected Start	Estimated Completion	Current Phase	Total Project Cost Estimate	Spent to Date	2017-18 Budgeted	2018-19 Budgeted	2019-20 Projected	2020-21 Projected	2021-22 Projected	Total 2018-22 CIP Budgeted	Budget Notes & Revisions	Percent Total Cost Est. Spent
Transportation															
1A3AA South 3rd Street Pedestrian Improvements	1X3RD	Suhr, Burr	2011	Jul 2017	Complete	815,000	749,519	15,000	-	-	-	-	15,000		92%
1XCAI Citywide Accessibility Improvement Program															
1ACAI Citywide Accessibility Improvements	1XCAI	Rowan	2016	Sep 2018	Construction	1,156,000	637,251	957,000	-	-	-	-	957,000		55%
1ADSC Dean Swift Road Corridor	1XCAI	Rowan	2018	Sep 2018	Initiated	150,000	-	-	150,000	-	-	-	150,000		0%
NE Division Street Corridor	1XCAI	Rowan	2018	Sep 2018	Design	500,000	-	-	500,000	-	-	-	500,000		0%
Lodge Pole Drive Corridor	1XCAI	Rowan	2019	Dec 2019	Design	315,000	-	-	-	315,000	-	-	315,000		0%
Poplar Street Corridor	1XCAI	Rowan	2019	Jun 2020	Design	250,000	-	-	-	250,000	-	-	250,000		0%
SW Truman Hill Taft Silver Lake Corridor	1XCAI	Rowan	2020	Jun 2020	Design	440,000	-	-	-	-	440,000	-	440,000		0%
SW Cleveland Avenue Corridor	1XCAI	Rowan	2020	Jun 2021	Design	190,000	-	-	-	-	190,000	-	190,000		0%
NW Delaware Avenue Corridor	1XCAI	Rowan	2021	Dec 2021	Design	500,000	-	-	-	-	-	500,000	500,000		0%
NW Hill Street Corridor	1XCAI	Rowan	2021	Jun 2022	Design	250,000	-	-	-	-	-	250,000	250,000		0%
NW Seismore Street Corridor	1XCAI	Rowan	2021	Jun 2022	Design	125,000	-	-	-	-	-	125,000	125,000		0%
1ACAI Citywide Accessibility Improvements						3,876,000	637,251	957,000	650,000	565,000	630,000	875,000	3,677,000	6	16%
1T14R 14th St. Reconstruction †	1XGOB	Sabourin	2016	Oct 2017	Design	6,195,000	1,463,207	4,795,873	150,000	-	-	-	4,945,873	2‡	24%
1T14B 14th St. Reconstruction Phase I (Newport to Galveston) †		Sabourin	2017	Oct 2018	Design	2,600,000	3,600	-	1,300,000	1,300,000	-	-	2,600,000		0%
1TCSI Citywide Safety Improvements		Rowan	2016	Sep 2018	Construction	3,535,000	658,462	2,340,600	775,000	-	-	-	3,115,600	3	19%
1TGCI Galveston Corridor Improvements †		Sabourin	2011	Oct 2017	Design	950,000	412,186	565,000	-	-	-	-	565,000	4	43%
1TBKE Bicycle Greenways		Rowan	2018	May 2018	Pending	900,000	-	225,000	225,000	225,000	225,000	-	900,000		0%
1TMPR Murphy & Parrell Roundabout		Sabourin	2015	May 2020	Sub. Complete	2,952,600	2,570,774	50,000	5,000	5,000	-	-	60,000	1	87%
1TNPS Neff and Purcell Intersection		Rowan	2016	May 2021	Pending	4,000,000	-	50,000	350,000	300,000	3,300,000	-	4,000,000		0%
1TPWP Powers & Brookwood Roundabout Phase II	1XGOB	Sabourin	2017	Oct 2017	Complete	-	-	-	-	-	-	-	-	‡	0%
1XECI Empire Corridor Improvements Program															
1TECI Purcell Roundabout						4,000,000	78,847	500,000	3,465,000	5,665,000	3,000,000	3,000,000	15,630,000		
1TPBM Purcell Butler Market						1,000,000	-	-	-	-	-	-	-		
1TEMD Empire Corridor Modernization						1,000,000	-	-	-	-	-	-	-		
1TPMD Purcell Modernization						1,000,000	-	-	-	-	-	-	-		
1TEEX Empire Extension						3,630,000	-	-	-	-	-	-	-		
1TE27 Empire & 27th Street Roundabout						5,000,000	-	-	-	-	-	-	-		
1XECI Empire Corridor Improvements Program		Franklet, Burr	2018	Mar 2018	Initiated	15,630,000	78,847	500,000	3,465,000	5,665,000	3,000,000	3,000,000	15,630,000		1%
1TMCI Murphy Corridor Improvements		Franklet	2018	Mar 2018	Pending	10,000,000	-	500,000	1,500,000	2,000,000	3,000,000	3,000,000	10,000,000		0%
1TSDP Complete Street Corridors		Rowan	2017	Oct 2020	Pending	801,000	965	200,000	600,000	-	-	-	800,000		0%
1T27R 27th Street Reconstruction	1XGOB	Sabourin	2017	Dec 2017	Sub. Complete	1,000,000	1,000,000	379,598	-	-	-	-	379,598	13	100%
1TR3N Reed Mkt: 3rd to Newberry	1XGOB	Sabourin	2012	Oct 2018	Sub. Complete	13,600,000	13,431,054	180,000	16,000	-	-	-	196,000	5	99%
Total Transportation Projects						66,854,600	21,005,864	10,758,071	9,036,000	10,060,000	10,155,000	6,875,000	46,884,071		
Stormwater															
1RMP1 Stormwater Master Plan Update		Martin	2020	Jun 2018	Pending	500,000	-	-	500,000	-	-	-	500,000		0%
1RABD South Awbrey Butte Drainage Study		Sabourin	2016	Oct 2017	Complete	285,000	237,100	109,700	-	-	-	-	109,700	12	83%
1RNPR Newport Pipe Replacement Design		Sabourin	2018	Jun 2019	Pending	442,000	-	-	442,000	-	-	-	442,000		0%
1RFGU Franklin & Greenwood Underpass		Sabourin	2021	Jun 2022	Pending	5,620,000	-	-	-	-	120,000	600,000	720,000		0%
1RRMC Roosevelt & McKinley		Martin	2020	Jun 2022	Pending	579,000	-	-	-	-	104,000	475,000	579,000		0%
Total Stormwater Projects						6,926,000	237,100	109,700	942,000	-	224,000	1,075,000	2,350,700		
Water															
1WAWP Awbrey Well Supply Expansion		Martin	2020	Jun 2019	Pending	2,021,760	-	-	-	2,021,760	-	-	2,021,760		0%
1WCPS College Parallel Pipe Study		Martin	2020	Jun 2019	Pending	1,215,760	-	-	-	1,215,760	-	-	1,215,760		0%
1WEWL Egypt Waterline		Forster, Webster	2012	Dec 2017	Construction	771,000	31,814	648,000	-	-	-	-	648,000	14	4%
1WLPE Lafayette Pipe Enlargement		Martin	2020	Jun 2019	Pending	250,640	-	-	-	250,640	-	-	250,640		0%
1WMP1 Water Master Plan Update		Martin	2017	Dec 2017	Pending	750,000	-	610,000	-	-	-	-	610,000	‡	0%
1WRBO Parallel Piping Rock Bluff to Brookwood		Martin	2022	Jun 2022	Pending	2,940,000	-	-	-	-	-	2,940,000	2,940,000		0%
1WS3W South 3rd St. Water Portion Phase 2	1X3RD	Suhr	2016	Jun 2018	Design	6,500	6,437	314,000	-	-	-	-	314,000	‡	99%
1WSDC Water SDC Methodology Study		Ockner	2017	Dec 2017	Complete	600	578	-	-	-	-	-	-	‡	96%
1WSPP Parallel Piping Brookwood to Brosterhaus		Martin	2021	Jun 2021	Pending	1,596,400	-	-	-	-	1,596,400	-	1,596,400		0%
1WSSC New Water Well Near NE Shirley Court		Martin	2021	Jun 2021	Pending	2,830,464	-	-	-	-	2,830,464	-	2,830,464		0%
1WSWO New Water Well Shiloh Site		Martin	2022	Jun 2022	Pending	2,721,600	-	-	-	-	-	2,721,600	2,721,600		0%
1WVSS Valves Operational System Study		Martin	2020	Jun 2022	Pending	234,000	-	-	-	78,000	78,000	78,000	234,000		0%
Total Water Projects						15,338,724	38,829	1,572,000	-	3,566,160	4,504,864	5,739,600	15,382,624		

City of Bend 2018 - 2022 Capital Improvement Program Project List															
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Water Reclamation															
1XSEI Southeast Interceptor Projects															
1SP1X SEI Phase 1 Extension	1XSEI	Forster, MacClanahan	2016	Dec 2017	Construction	10,500,000	6,390,845	9,749,560	-	-	-	-	9,749,560	9	61%
1S2S3 SEI Schedule 2S&3*	1XSEI	Forster, MacClanahan	2017	Dec 2017	Sub. Complete	31,466,250	30,277,123	11,715,000	-	-	-	-	11,715,000		96%
1S45R SEI Schedule 4&5R	1XSEI	Forster	2014	Dec 2016	Complete	12,500,000	12,279,897	3,000,000	-	-	-	-	3,000,000		
1XSEI Southeast Interceptor						54,466,250	48,947,864	24,464,560	-	-	-	-	24,464,560		90%
1XNAS North Area Sewer Projects															
1SNAF North Area Force Main*	1XNAS	Franklet, Burr, Murray	2017	Jun 2018	Sub. Complete	4,450,000	2,615,605	3,419,433	-	-	-	-	3,419,433	7	59%
1SNAS North Area Gravity Main	1XNAS	Franklet, Burr, Murray	2017	Jun 2018	Sub. Complete	3,855,000	2,698,101	2,740,672	-	-	-	-	2,740,672	8	70%
1SRLS Riverhouse Lift Station Hydraulic Upgrade	1XNAS	Franklet, Burr, Murray	2016	Jun 2017	Complete	555,000	65,439	516,870	-	-	-	-	516,870	10	12%
1XNAS North Area Sewer Projects						8,860,000	5,379,145	6,676,975	-	-	-	-	6,676,975		61%
1XWRF Water Reclamation Facility Projects															
1SCAP WRF Capacity Improvements	1XWRF	Robertson	2017	Jun 2018	Initiated	8,000,000	320	7,998,000	-	-	-	-	7,998,000		0%
1SSHI Solids Handling Improvement Project	1XWRF	Robertson	2019	Jun 2022	Construction	5,500,000	455	250,000	250,000	2,500,000	2,500,000	-	5,500,000		0%
1SHWK Headworks	1XWRF	Robertson	2018	Jun 2019	Pending	1,000,000	-	-	1,000,000	-	-	-	1,000,000		0%
1SFPU Facilities Plan Update	1XWRF	Robertson	2018	Jun 2019	Pending	500,000	-	-	-	500,000	-	-	500,000		0%
1SSFU Support Facilities Upgrade	1XWRF	Robertson	2019	Jun 2021	Pending	2,500,000	-	-	-	1,250,000	1,250,000	-	2,500,000		0%
1XWRF Water Reclamation Facility Projects						17,500,000	775	8,248,000	1,250,000	4,250,000	3,750,000	-	17,498,000		0%
1SPSD Pump Station Decommissions Program															
#6A Tri-Peaks	1SPSD	Murray, Forster	2017	Jun 2019	Planning	250,000	-	30,000	220,000	-	-	-	250,000		0%
#13A+B Crown Villa #1	1SPSD	Murray, Forster	2017	Jun 2019	Planning	200,000	-	20,000	180,000	-	-	-	200,000		0%
#14A+B Crown Villa #2	1SPSD	Murray, Forster	2017	Jun 2019	Planning	200,000	-	20,000	180,000	-	-	-	200,000		0%
#15 Murphy	1SPSD	Murray, Forster	2017	Jun 2019	Design	150,000	-	15,000	135,000	-	-	-	150,000		0%
#16A+B Quail Ridge #2	1SPSD	Murray, Forster	2017	Jun 2019	Planning	100,000	-	10,000	90,000	-	-	-	100,000		0%
#17A+B Ridgewater #1	1SPSD	Murray, Forster	2017	Jun 2018	Construction	100,000	-	100,000	-	-	-	-	100,000		0%
#18A+B Bridges at Shadow Glen	1SPSD	Murray, Forster	2017	Jun 2018	Construction	100,000	-	100,000	-	-	-	-	100,000		0%
#19A+B South Village	1SPSD	Murray, Forster	2017	Jun 2019	Planning	200,000	-	20,000	180,000	-	-	-	200,000		0%
#20A+B Sun Meadow	1SPSD	Murray, Forster	2017	Jun 2019	Design	100,000	-	10,000	90,000	-	-	-	100,000		0%
#90A+B Quail Ridge #1	1SPSD	Murray, Forster	2017	Jun 2019	Planning	100,000	-	10,000	90,000	-	-	-	100,000		0%
Nottingham PS Connection to SEI	1SPSD	Murray, Forster	2017	Jun 2019	Planning	15,000	-	15,000	-	-	-	-	15,000		0%
1SPSD Pump Station Decommissions Projects						1,515,000	2,586	350,000	1,165,000	-	-	-	1,515,000		0%
1SWRF Secondary Expansion		Robertson	2008	Jun 2019	Sub. Complete	43,798,454	41,493,893	1,744,331	1,000,000	-	-	-	2,744,331	11	95%
1SPIR Plant Interceptor Rehabilitation		Suhr, Martin	2015	Dec 2018	Design	10,700,000	487,478	5,150,000	5,515,000	-	-	-	10,665,000		5%
1SBSS Southeast Bend Septic Solutions		Martin	2017	Jun 2019	Design	2,800,000	879,981	1,150,000	800,000	-	-	-	1,950,000		31%
1SEIP East Interceptor		Franklet	2017	Jun 2019	Pending	21,000,000	13,770	1,000,000	1,000,000	-	-	-	2,000,000		0%
1SNIP North Interceptor		Franklet	2017	Dec 2021	Design	23,000,000	14,620	1,000,000	1,000,000	7,000,000	7,000,000	7,000,000	23,000,000		0%
1S036 Drake Lift Station Condition Upgrade		Robertson	2017	Dec 2018	Initiated	2,000,000	-	1,000,000	1,000,000	-	-	-	2,000,000		0%
1SPSO Parallel Sewer on Olney Avenue		Robertson	2018	Jun 2018	Pending	605,000	-	513,000	-	-	-	-	513,000	‡	0%
1SAMM Amethyst Mahogany Street Sewer		Forster	2019	Dec 2019	Pending	2,500,000	-	250,000	1,000,000	1,250,000	-	-	2,500,000		0%
1SPFP Collection System Master Plan Post Acknowledgement Plan Amendment		Martin	2018	Apr 2018	Planning	92,000	66,701	92,000	-	-	-	-	92,000	‡	73%
1SOC1 Odor Control Master Plan		Martin	2019	Jun 2020	Pending	1,050,000	-	-	-	1,050,000	-	-	1,050,000		0%
1SSLA Sewer Storage - Land Acquisition		Forster	2019	Jun 2020	Pending	730,000	-	-	-	730,000	-	-	730,000		0%
1SPIC Plant Interceptor Condition Assessment		Forster	2019	Jun 2020	Pending	630,000	-	-	-	630,000	-	-	630,000		0%
1SMP1 Collection System Master Plan (Years 6-10)		Franklet	2019	Jun 2020	Pending	750,000	-	-	-	750,000	-	-	750,000		0%
1SGPA Gravity Pipe Condition Assessment		Forster	2020	Jun 2021	Pending	2,000,000	-	-	-	200,000	200,000	200,000	600,000		0%
Total Water Reclamation Projects						193,996,704	97,286,813	51,638,866	13,730,000	15,860,000	10,950,000	7,200,000	99,378,866		
Total 2017-2020 Capital Improvement Program						283,116,028	118,568,606	64,078,637	23,708,000	29,486,160	25,833,864	20,889,600	163,996,261		
Budget Notes and Revisions															
† Tied to other projects		1- \$40,000 FYE Rollover		4- \$45,000 FYE Rollover		7- \$1,719,433 FYE Rollover		10- \$116,870 FYE Rollover		13- \$379,598 FYE Rollover					
* Budget includes Street Preservation Work		2- \$539,504 FYE Rollover		5- \$20,000 FYE Rollover		8- \$1,640,672 FYE Rollover		11- \$244,331 FYE Rollover		14 - \$58,000 Parks & Rec					
‡ Adjustments between projects in the same fund		3- \$121,600 FYE Rollover		6- \$107,000 FYE Rollover		9- \$1,749,560 FYE Rollover		12- \$99,700 FYE Rollover							

Citywide Accessibility Improvements

Through the help of dedicated volunteers on the City of Bend Accessibility Advisory Committee (COBAAC) and the Central Oregon Coalition for Access (COCA), key corridors and neighborhoods across the city have been prioritized for accessibility improvements. This project will design, construct, or repair these curb ramps and sidewalks including those identified through the City's Barrier Removal Request process.



Primary Contact: Rory Rowan | rrowan@bendoregon.gov

Scope

Survey, design, and construction of accessibility improvements in the Mountain View Neighborhood, NE Kearney Avenue, NE Wells Acres Road, and Broadway and Delaware locations. Construction of all locations except the Mountain View Neighborhood in 2017. Construction of Mountain View in 2018.

Schedule

Start Date: 3/1/16
 Substantial Completion: 06/30/2018
 Final Closeout: 06/30/19

Completed Projects:

- NE Kearney Ave
- NE Wells Acres Rd
- Broadway & Delaware

Cost

Total Estimated: \$1,156,000
 Spent to Date: \$637,251
 % Spent to Estimated: 55%

Design = \$250,000
Construction = \$906,000

- Mountain View \$466,000
- NE Kearney Ave \$235,000
- NE Wells Acres Rd \$140,000
- Broadway & Delaware \$65,000

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

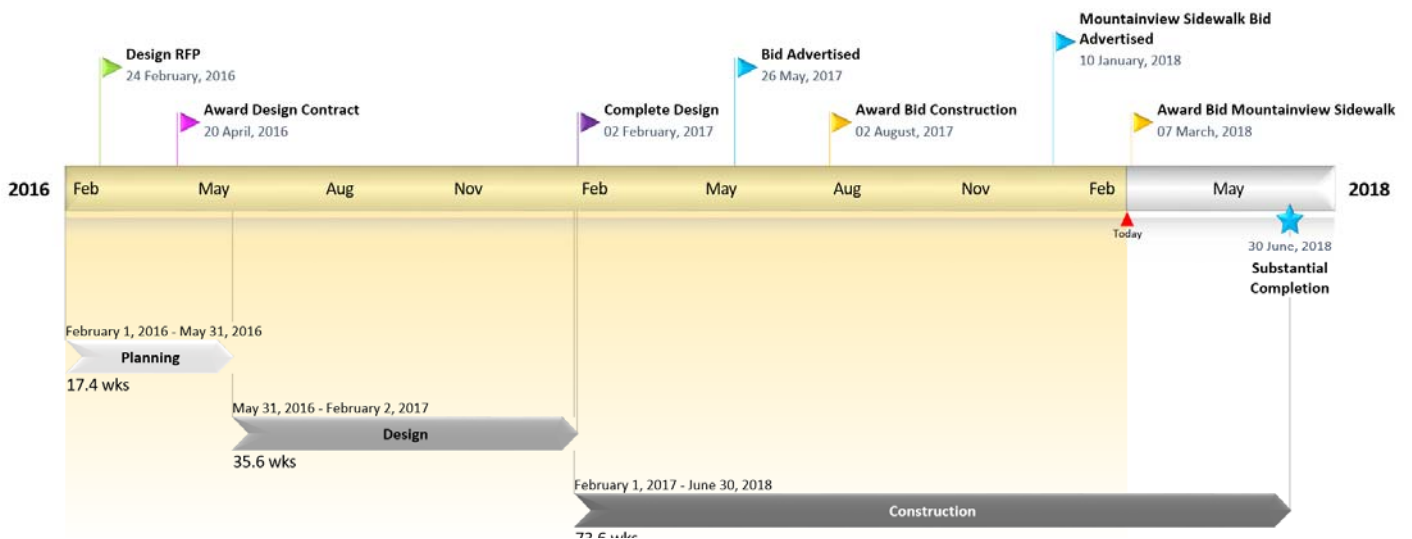
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: Construction bids received February 6 with construction to start immediately after Council approval.

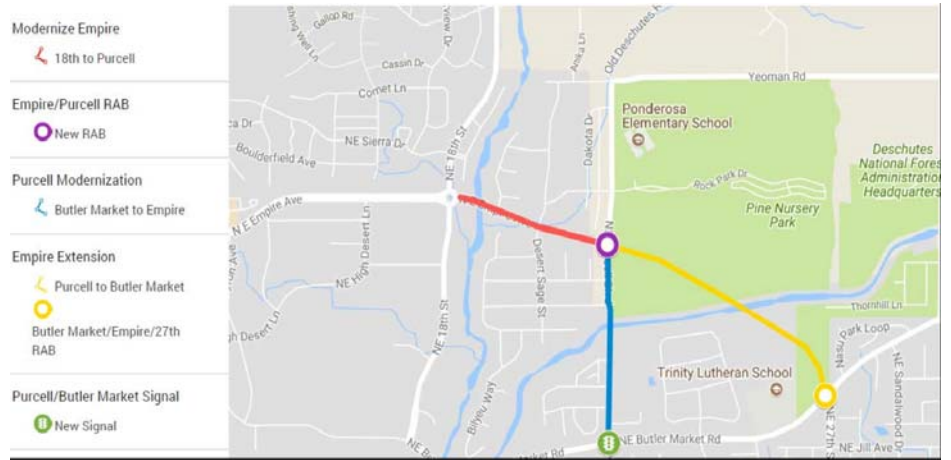
Cost Estimate Classification: 1



Empire Corridor Improvements

Primary Contact: George Franklet | gfranklet@bendoregon.gov

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.



Scope

Six distinct but interrelated sub-projects are included: Empire/Purcell Roundabout, Empire Avenue Modernization, Purcell Boulevard Modernization, Empire Avenue Extension, Purcell/Butler Market Signal Modernization and 27th Street Roundabout. Due to the complexity of implementing all the related components of the project, a Progressive Design-Build project delivery method will be used.

Schedule

Start Date: 08/1/2017
 Substantial Completion: TBD*
 Final Closeout: TBD*
 * Dependent upon funding

Cost

Total Estimated:	\$15,630,000	
Spent to Date:	\$78,847	
% Spent to Estimated:	.05%	
Sub-Projects:	Est.	Spent
Purcell RAB	\$4,000,000	\$78,847
Empire Mod	\$1,000,000	\$0
Purcell Mod	\$1,000,000	\$0
Emp Extension	\$3,630,000	\$0
Butler Mkt Sig	\$1,000,000	\$0
Emp/27 RAB	\$5,000,000	\$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: Four proposals were received on January 31, 2018 in response to the RFP for selecting a progressive design-build team. Proposal scoring, team selection, and price negotiation will continue. Advertisement for selecting a construction management/owner's representative is anticipated for February 2018. Right-of-way coordination with Deschutes County and Bend Park and Recreation District continued, with additional discussions and preparation of an IGA with BPRD regarding the right-of-way needed for the roundabout at the Empire/Purcell intersection.

Cost Estimate Classification: 5



Dean Swift Corridor Citywide Accessibility

This project will design and construct accessibility improvements along Dean Swift Road. It was prioritized by the City of Bend Accessibility Advisory Committee (COBAAC) and the Central Oregon Coalition for Access (COCA). It is part of the Citywide Accessibility Improvements.



Project Engineer: Rory Rowan | rrowan@bendoregon.gov

Scope

Survey, design, and construction of sidewalk, curb ramps, driveways, and other accessibility improvements on Dean Swift Road between Greenwood Avenue (US Highway 20) and Bear Creek Road.

Schedule

Start Date: 11/01/2017
Substantial Completion: 06/01/2019
Final Closeout: 06/01/2020

Cost

Total Estimated: \$150,000
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

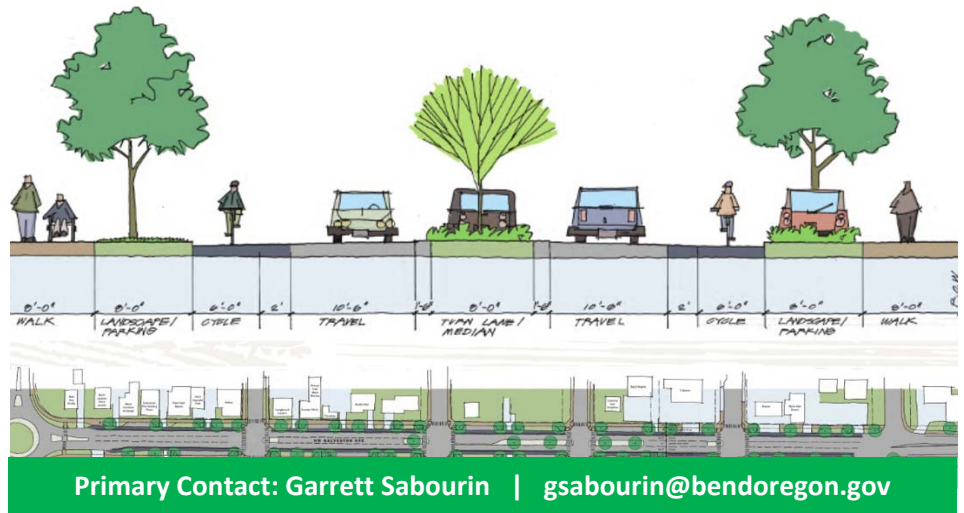
Status Update: Right of way has not been obtained but currently working with landowner to resolve. Once resolved will move to construction.

Cost Estimate Classification: 4



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

Scope includes the design of the three-lane hybrid option, Deschutes River Bridge to 14th 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.

Schedule

Start Date: 06/01/2011
 Substantial Completion: TBD
 Final Closeout: 09/30/2018**

** Construction not funded. Final closeout indicates 100% design.

Cost

Total Estimated: \$950,000[†]
 Spent to Date: \$412,186*
 % Spent to Estimated: 43%

† Total cost estimate for design
 * Includes planning prior to CIP

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: Design of the improvements to final design continued and a public open house is scheduled for February 27, 2018.

Cost Estimate Classification: 4



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.



Primary Contact: Rory Rowan | rrowan@bendoregon.gov

Scope

Survey, design, traffic analysis, public involvement, and construction of safety improvements at the following locations: 3rd St at Hawthorne, Franklin, Roosevelt, and Reed Market, Colorado Ave & Bend Pkwy (US Hwy 97) interchange, Neff Rd at Williamson Blvd, 27th St at Conners Ave, Brosterhous Road railroad underpass, Pinebrook and Canal.

Schedule

Start Date: 10/1/2014
 Substantial Completion: 9/30/2018
 Final Closeout: 9/30/2019

Cost

Total Estimated: \$3,535,000
 Spent to Date: \$658,462
 % Spent to Estimated: 19%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

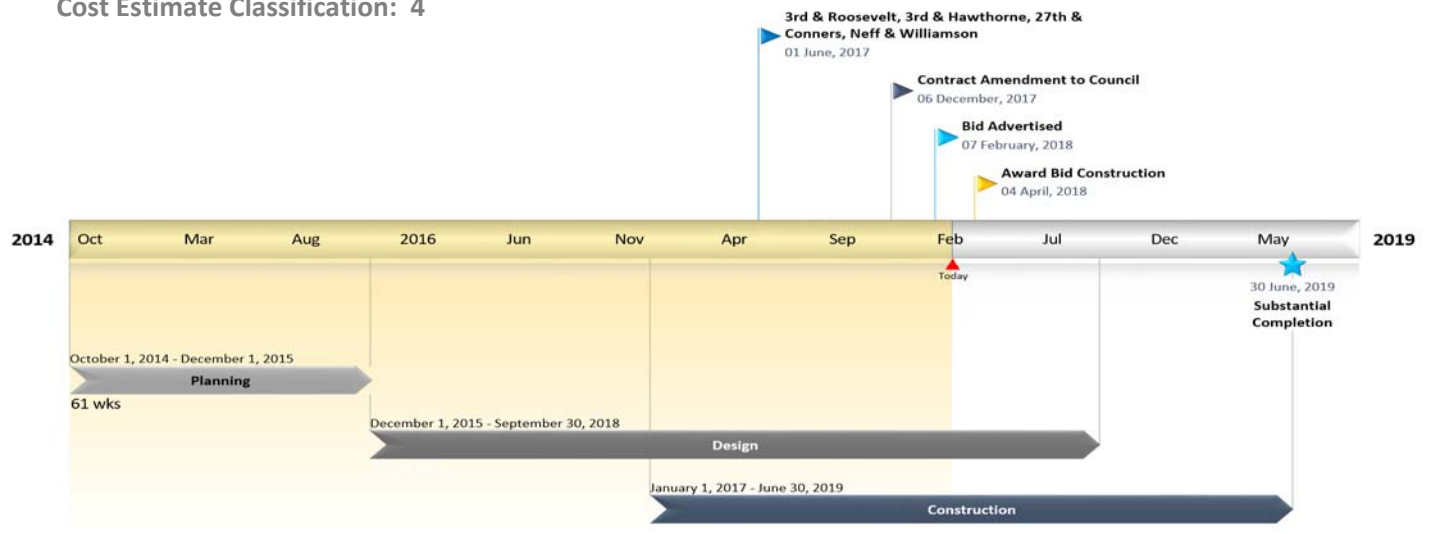
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: Conners and 27th construction bid closes March 7 with contract going to for Council approval April 4.

Cost Estimate Classification: 4



14th Street Reconstruction

Improve safety of corridor between SW Colorado Avenue to NW Newport Avenue for all modes of transportation. Project is part of voter approved General Obligation Bond and will focus on an up updated roadway configuration to include surfacing, striping, bike lanes, sidewalks and streetscape. Design will attempt to tie-in with suggested changes being made to the Galveston Corridor Improvements.

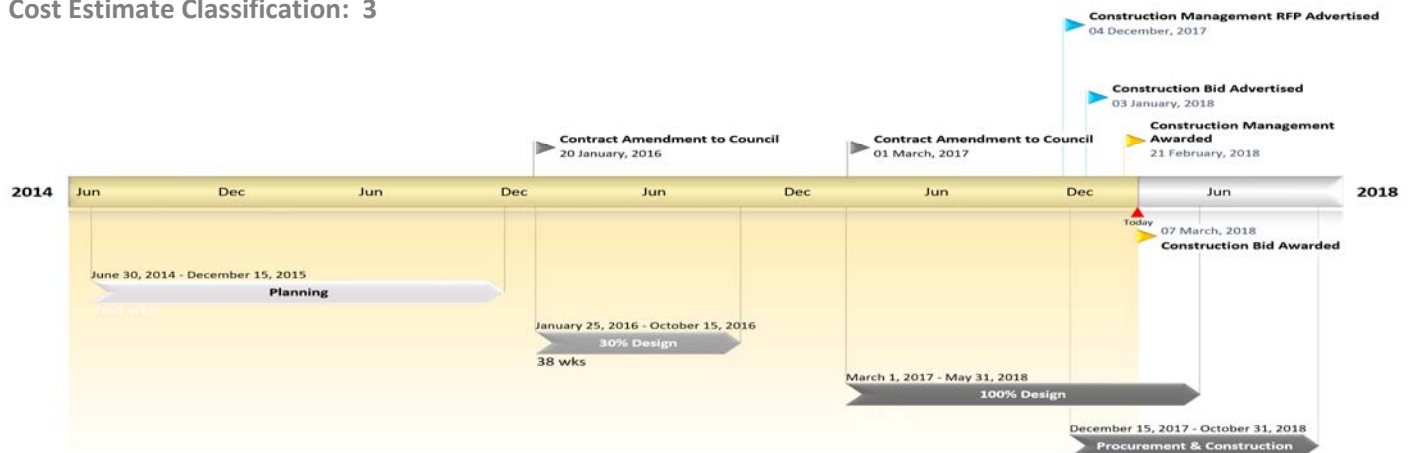


Primary Contact: Garrett Sabourin | gsabourin@bendoregon.gov

Scope	Schedule	Cost												
Upgrade to City standard to include but not limited to: roadway, surface, curbs, sidewalks, and striping. Includes safety improvements for bicycles, pedestrians and vehicles. The project will be constructed in two phases. Phase I: Simpson to Albany & Galveston to Newport; Phase II: Donovan to Simpson & Albany to Galveston.	Start Date: 06/30/2014 Substantial Completion: TBD Final Closeout: TBD	Total Estimated: \$8,795,000 Spent to Date: \$1,466,807 % Spent to Estimated: 17%												
		<table border="1"> <thead> <tr> <th>Sub-Projects:</th> <th>Est.</th> <th>Spent</th> </tr> </thead> <tbody> <tr> <td>PI: GO Bond</td> <td>\$4,893,612</td> <td>\$869,660</td> </tr> <tr> <td>PI: Trans Con.</td> <td>\$1,299,630</td> <td>\$593,548</td> </tr> <tr> <td>PII: Trans Con.</td> <td>\$2,600,000</td> <td>\$3,600</td> </tr> </tbody> </table>	Sub-Projects:	Est.	Spent	PI: GO Bond	\$4,893,612	\$869,660	PI: Trans Con.	\$1,299,630	\$593,548	PII: Trans Con.	\$2,600,000	\$3,600
Sub-Projects:	Est.	Spent												
PI: GO Bond	\$4,893,612	\$869,660												
PI: Trans Con.	\$1,299,630	\$593,548												
PII: Trans Con.	\$2,600,000	\$3,600												
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: Scope and fee negotiations with the selected consultant for construction management services were initiated and are anticipated to be complete in February 2018. The advertisement of the RFP for selecting a construction contractor using a best-value procurement method was extended to a due date of February 14, 2018 to coordinate with other public works procurements out for bid in the Central Oregon region. Relocation activities by franchise utility companies began.

Cost Estimate Classification: 3



Egypt Waterline Project

Primary Contact: Brad Tower | btower@bendoregon.gov

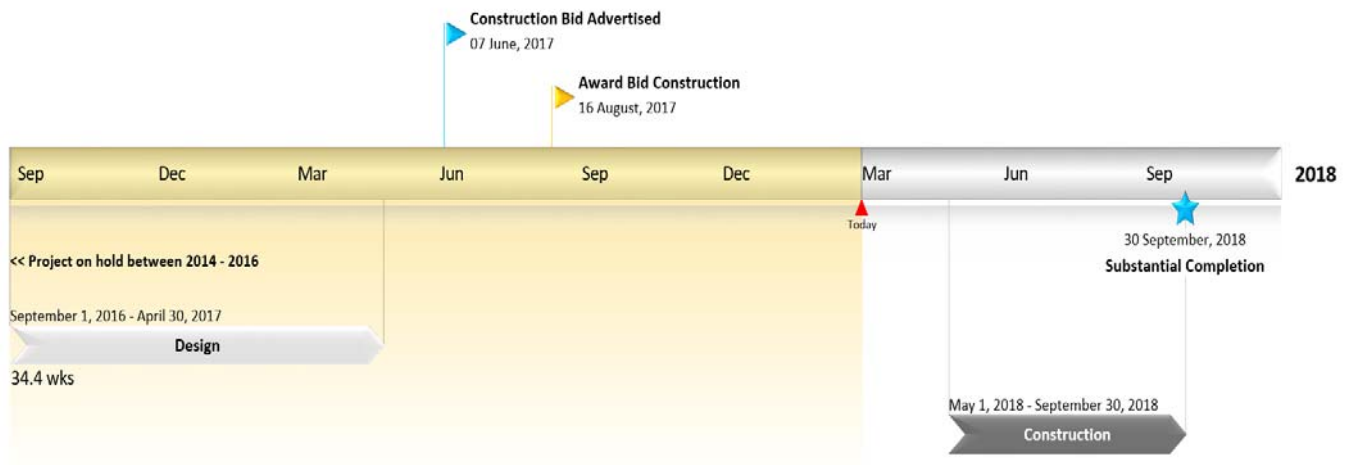
The Egypt Waterline seeks to create a redundant water source for Juniper Ridge. This project became a Capital Improvement Project after it was identified in the 2011 Water master Plan Optimization study by Murray and Smith Associates. A redundant connection for Juniper Ridge is necessary to provide an adequate water supply during system disruptions due to maintenance activities, public emergencies, or catastrophic events.



Scope	Schedule	Cost
Design a waterline connection between Ranch Village Dr. and 18th Street. This work will include a pressure zone change to Juniper Ridge to match that of the neighborhood to the southwest.	Start Date: 7/1/2012 Substantial Completion: 09/30/18 Final Closeout: 09/30/18	Total Estimated: \$771,000 Spent to Date: \$31,814 % Spent to Estimated: 4% Additional Funding Sources: Parks & Rec: \$51,995 COB Street Ops: \$83,033 School District: \$6,000
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: Adjusted the construction schedule in coordination with Parks and School Districts to time construction during the summer school closure.

Cost Estimate Classification: 1



Southeast Interceptor

Large diameter gravity sewer pipeline extending from the southwest quadrant to the northeast quadrant of the City, approximately 4 ½ miles in length. This project reroutes or intercepts a significant volume of sewage away from the downtown and central sewer systems to the east side of the City in accordance with the Collection System Master Plan completed in 2014. Segment 2S&3 indicates the 2.5 mile stretch of 27th street between Neff and Reed Market Rd.

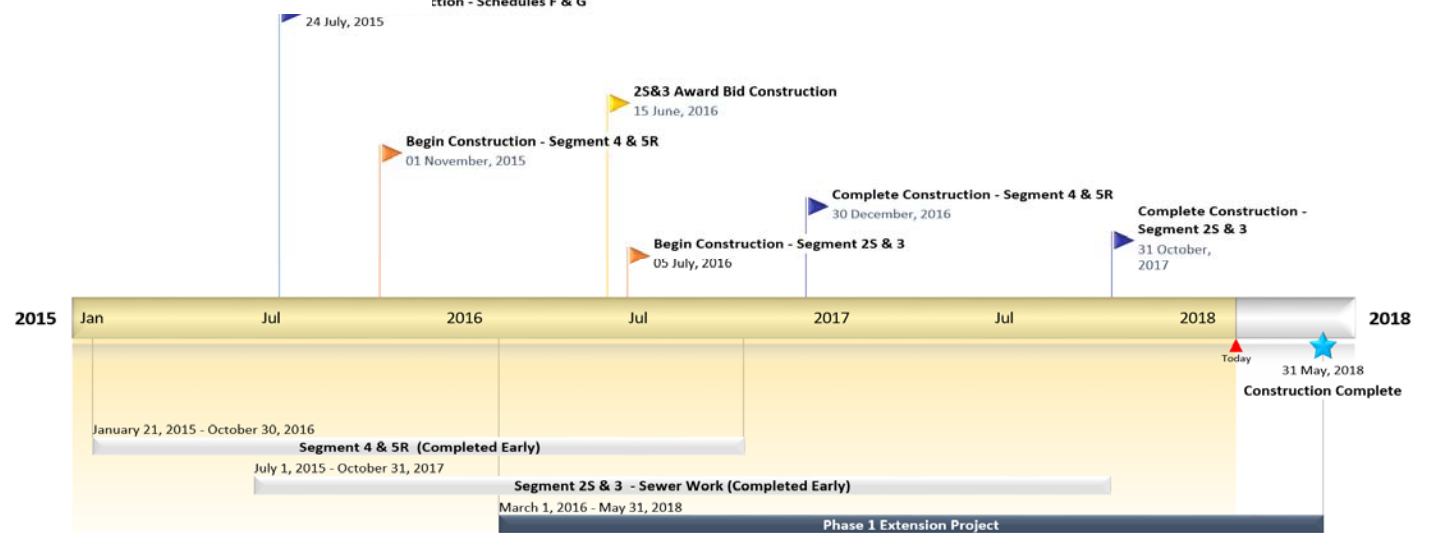


Primary Contact: Eric Forster | eforster@bendoregon.gov

Scope	Schedule	Cost															
Design and construction of gravity sewer, from South 3rd street to the Neff Road connection. Phase 1 Extension Project, approved in January 2016, adds approximately 4,300 feet of sewer main work.	Start Date: 7/1/2006 Sewer Completion: 12/31/2017 Street Completion: 10/31/2017 Phase I Ext. Completion: 5/31/2018 Final Closeout: 5/31/2019	Total Estimated: \$72,000,000 Spent to Date: \$65,713,119 % Spent to Estimated: 91% <table border="1"> <thead> <tr> <th>Sub-Projects:</th> <th>Est.</th> <th>Spent</th> </tr> </thead> <tbody> <tr> <td>Previous</td> <td>\$17,500,000</td> <td>\$16,765,255</td> </tr> <tr> <td>4&5R</td> <td>\$12,500,000</td> <td>\$12,279,897</td> </tr> <tr> <td>2S&3</td> <td>\$31,500,000</td> <td>\$30,277,123</td> </tr> <tr> <td>P1EX</td> <td>\$10,500,000</td> <td>\$6,390,845</td> </tr> </tbody> </table>	Sub-Projects:	Est.	Spent	Previous	\$17,500,000	\$16,765,255	4&5R	\$12,500,000	\$12,279,897	2S&3	\$31,500,000	\$30,277,123	P1EX	\$10,500,000	\$6,390,845
Sub-Projects:	Est.	Spent															
Previous	\$17,500,000	\$16,765,255															
4&5R	\$12,500,000	\$12,279,897															
2S&3	\$31,500,000	\$30,277,123															
P1EX	\$10,500,000	\$6,390,845															
Status: On Scope	Status: Ahead of Schedule	Status: On budget															
Adjustments: No change from prior month	Adjustments: Project is ahead of schedule	Adjustments: No change from prior month															

Status Update: Pipe installation of the entire project is complete. Remaining work includes all surface restoration and is expected to be complete in April. Public recognition celebration held February 1.

Cost Estimate Classification: 1



North Area Sewer Capacity Improvements

This project will increase the capacity of the gravity main downstream of the multiple force main discharge point at manhole 3157 and reroute the force main discharge from several lift stations and the NE 3rd Street pressure sewer. It will also reconfigure the structure at Mervin Sampels Bypass and include modifications to both the Sawyer and Riverhouse lift stations.



Primary Contact: George Franklet | gfranklet@bendoregon.gov

Scope

Analysis of alternatives for pipeline route and construction methods for crossing of irrigation canals and railroad tracks; design and construction of gravity and force mains, pump station modifications, and flow bypass optimization.

Schedule

Start Date: 10/1/2013
 Substantial Completion: **12/31/2017**
 Final Closeout: **12/31/2018**

Cost

Total Estimated: **\$7,730,428***
 Spent to Date: \$5,320,143
 % Spent to Estimated: 64%
 * Includes street preservation work

Sub-Projects:	Est.	Spent
Force Main	\$4,450,000	\$2,615,605
Gravity	\$3,855,000	\$2,698,101
Lift Station	\$10,000	\$6,437

Status: Decreased Scope

Status: Schedule Revision

Status: Budget Reduced

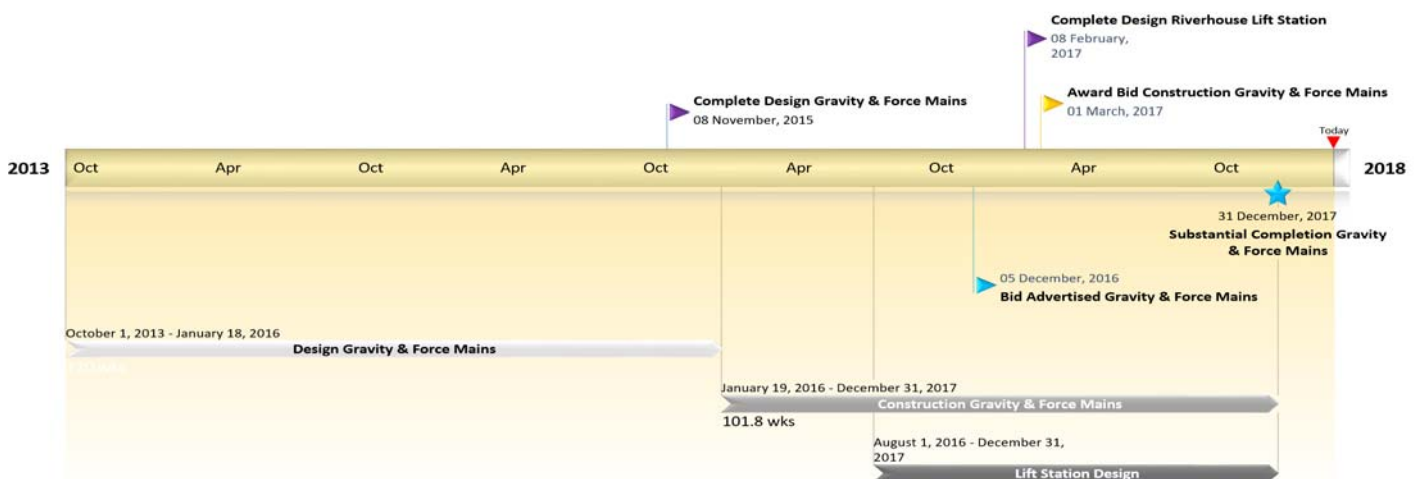
Adjustments: Removed Riverhouse Lift Station

Adjustments: Revision in schedule reflects removal of Riverhouse LS

Adjustments: Reduction in budget to reflect removal of Riverhouse LS

Status Update: The new force mains and gravity mains are in operation with several punchlist items remaining to be completed in Spring 2018 dependent upon the weather and seasonal operation of asphalt facilities. Riverhouse Lift Station removed from project scope. Project substantially complete. This is the last month this project will be included in the monthly report.

Cost Estimate Classification: 1



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.

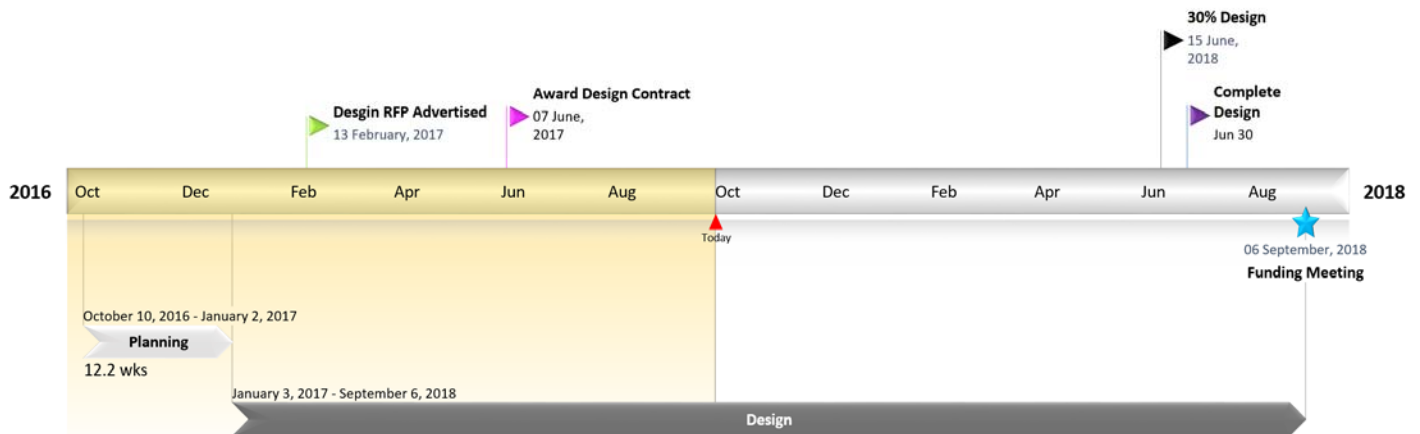


Primary Contact: Skip Martin | smartin@bendoregon.gov

Scope	Schedule	Cost
Design 70,000 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*	Total Estimated: \$2,800,000* Spent to Date: \$879,981 % Spent to Estimated: 44%
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: Topographic survey is 80% complete, and scheduled to be completed by December 2018. Citizen's Advisory meetings are on schedule. Approximately 90% of the 550 homeowners have been contacted. All meetings were postponed until March 2018 to allow for financial analysis.

Cost Estimate Classification: 5



Plant Interceptor Rehabilitation

The existing plant interceptor conveys all of the City's sewage to the WRF. The concrete pipeline is deteriorating due to age as well as the sulfides breaking down the concrete wall. This project will rehabilitate the plant interceptor by designing and constructing a Cured-In-Place Pipe (CIPP) liner to lengthen the operational life of the pipeline. All project aspects were previously identified in the Plant Interceptor Condition Assessment and incorporated into the CSMP projects list.



Primary Contact: Jason Suhr | jsuhr@bendoregon.gov

Scope

Rehabilitate all pipe segments and manholes from Purcell Blvd. to proposed tie in with the North Interceptor with a Cured-In-Place Pipe (CIPP) liner.

Schedule

Start Date: 3/1/2015
 Substantial Completion: 12/31/18
 Final Closeout: 12/31/19

Cost

Total Estimated: \$10,700,000
 Spent to Date: \$487,478
 % Spent to Estimated: 5%

Status: On Scope

Status: On Schedule

Status: On Budget

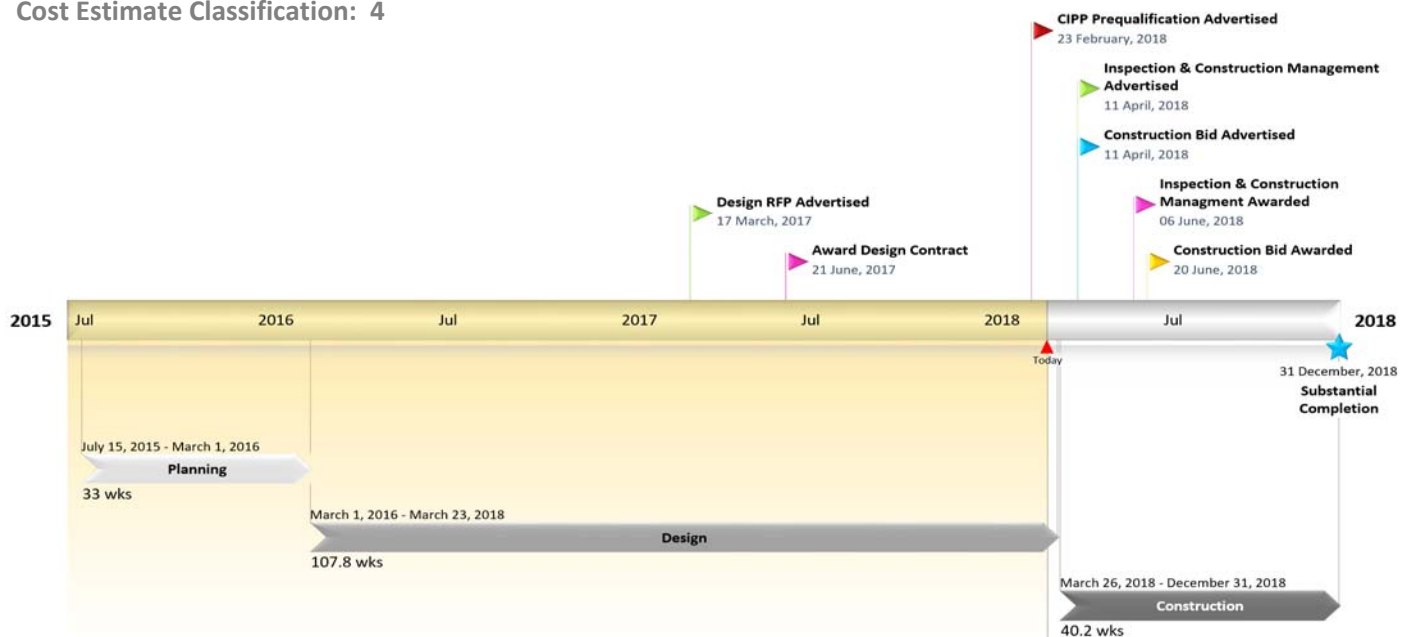
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

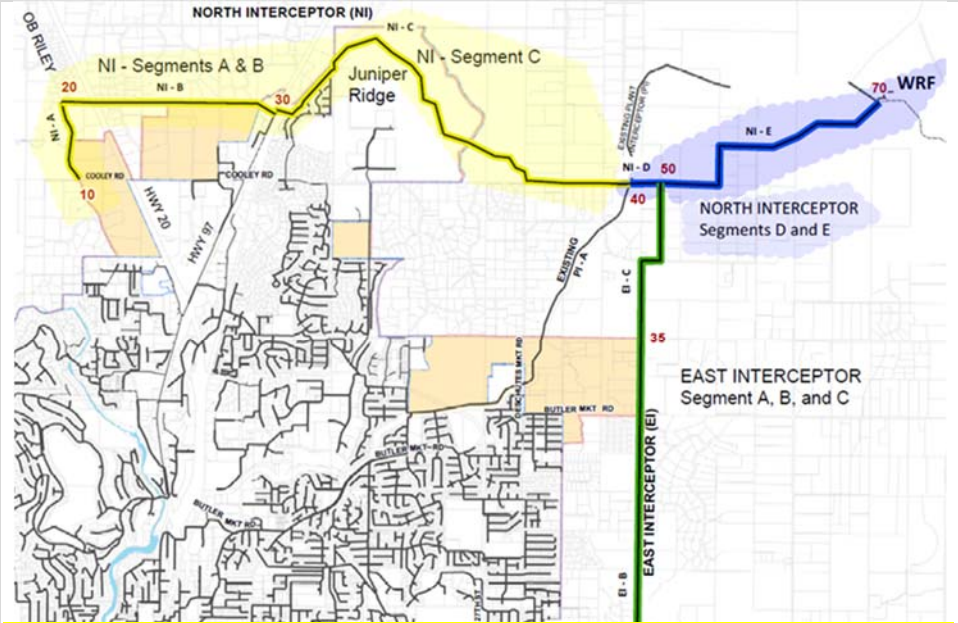
Status Update: Final construction documents are being prepared for advertisement. The pre-qualification for contractor services advertised February 23.

Cost Estimate Classification: 4



North Interceptor Project

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

Design, bid, contract, and build approximately 36,000 feet of gravity sewer, various diameters running along the Northern edge of Bend's UGB. Connects to the WRF.

Schedule

Start Date: 3/1/17
 Substantial Completion: 12/31/2022
 Final Closeout: 12/31/2023

Cost

Total Estimated: \$23,000,000
 Spent to Date: \$14,620
 % Spent to Estimated: 0.06%

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: Alternative delivery (Progressive Design Build) proposals due March 14 and scheduled for Council approval in June.

Cost Estimate Classification: 5



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.



Primary Contact: Josh Robertson | jrobertson@bendoregon.gov

Scope

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.

Schedule

Start Date: 4/1/2017
 Substantial Completion: 4/30/19
 Final Closeout: 4/30/2020

Cost

Total Estimated: \$8,000,000
 Spent to Date: \$320
 % Spent to Estimated: 0.00%

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: Issued Notice to Proceed and construction is underway. Aeration basin #3 is first priority.

Cost Estimate Classification: 5



Pump Station Decommissions Projects

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, Muphy, Quail Ridge #1 & #2, South Village, and Sun Meadow.



Primary Contact: Brittany Park | bpark@bendoregon.gov

Scope

The project consists of decommissioning multiple sewer pump stations throughout the City where gravity sewer diversions have been determined to be viable.

Schedule

Start Date: 3/1/2017
 Substantial Completion: 12/31/2019
 Final Closeout: 12/31/2020

Cost

Total Estimated: \$1,515,000
 Spent to Date: \$2,586
 % Spent to Estimated: 0.17%

Status: Increase Scope

Status: On Schedule

Status: Potential Budget Increase

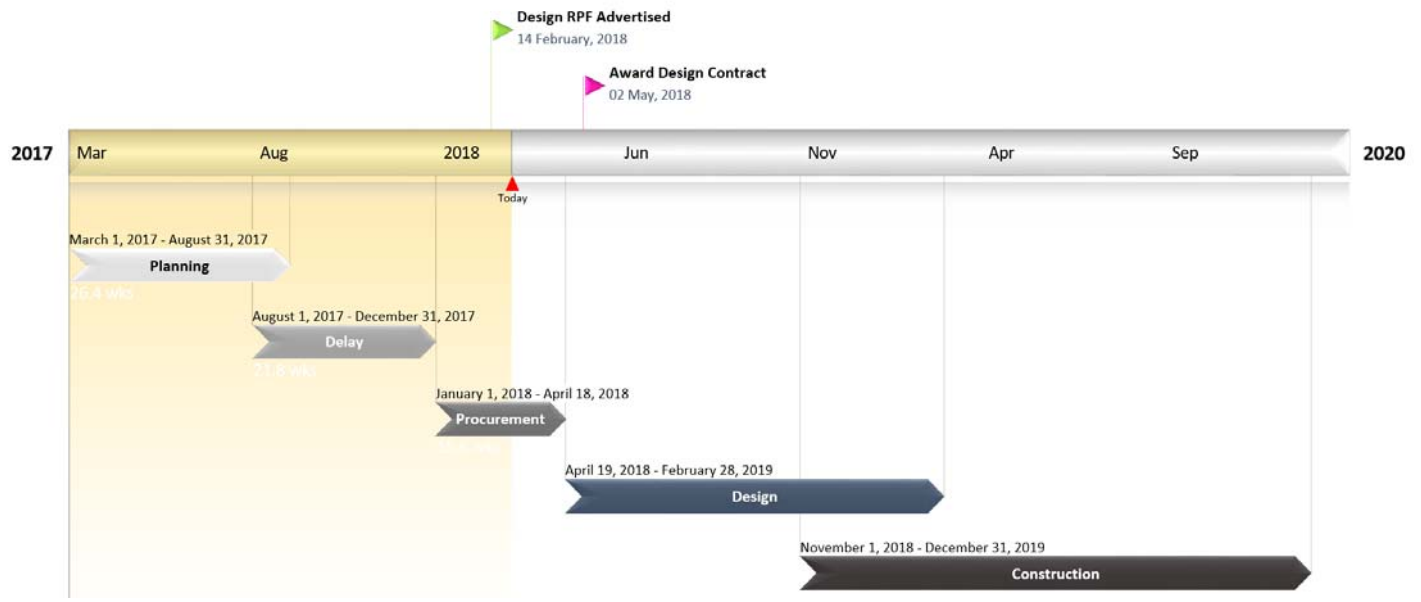
Adjustments: To include design of additional pump stations

Adjustments: No change from prior month

Adjustments: Potential increase in budget based on scope increase

Status Update: Consultant proposals due March 7 for design of the gravity mains.

Cost Estimate Classification: 5



South Mirror Pond Parking Lot

Current issues with the South Mirror Pond parking lot include a lack of parking for oversized vehicles and bicycle rentals and loitering. This project will update the parking lot to improve intended function and create greater parking diversity.



Primary Contact: Brad Tower | btower@bendoregon.gov

Scope

This is a synergy project with the Economic Development Department and Bend Police Department.

Schedule

Start Date: 9/1/2017
 Substantial Completion: 05/31/2019
 Final Closeout: 05/31/2020

Cost

Total Estimated: \$470,000
 Spent to Date: \$11,122
 % Spent to Estimated: 0.24%

Status: On Scope

Status: **Baseline Schedule Adjustment**

Status: On Budget

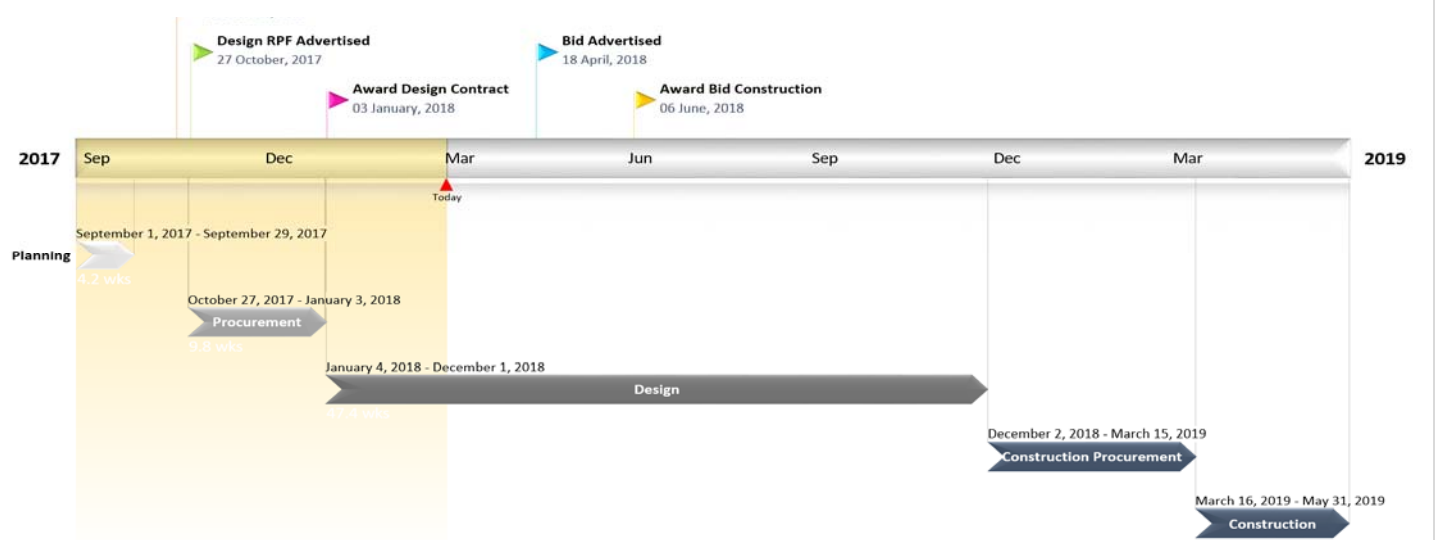
Adjustments: No change from prior month

Adjustments: **Schedule adjusted to reflect negotiated consultant contract timeline**

Adjustments: No change from prior month

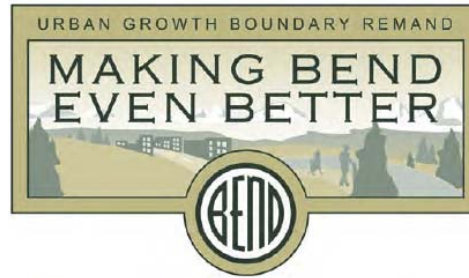
Status Update: Design is underway and will be complete December 2018 with construction scheduled for spring 2019.

Cost Estimate Classification: 5



Collection System Master Plan Post Acknowledgement Plan Amendment

This project is updated the 2014 CSMP to recognize the project elements that were identified as part of the UGB process. This work will identify the elements of the collection system that will be needed to serve the expansion areas and the costs associated with those improvements. This work is being done working closely with the Growth Management Department.



Bend Economic Opportunities Analysis

Bend's Growth to 2028

Primary Contact: Skip Martin | smartin@bendoregon.gov

Scope

This is a synergy project with the Growth Management Department and is not included in the Capital Improvement Program.

Schedule

Start Date: 3/1/2017
 Substantial Completion: 4/1/2018
 Final Closeout: 4/1/2018

Cost

Total Estimated: \$92,000
 Spent to Date: \$66,701
 % Spent to Estimated: 73%

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: Initial modeling results received and Public Facilities Plan being drafted.

Cost Estimate Classification: 5

