

**Monthly Report** 

Fiscal Year 2017-2018 October 2017



# MONTHLY REPORT

October 2017 ISSUE 25

### **Table of Contents**

Capital Improvement Program in Brief	1
EIPD Procurement Timeline	2
City of Bend 2018 – 2022 Capital Improvement Program Project List	3
Phase 2 - S. 3 <sup>rd</sup> Street Improvements	5
Citywide Accessibility Improvements	6
Galveston Corridor Improvements	7
Citywide Safety Improvements	8
14 <sup>th</sup> Street Reconstruction	9
Water Master Plan Update	10
Egypt Waterline Project	11
South Awbrey Butte Drainage Study	12
Southeast Interceptor Phase I	13
North Area Sewer Capacity Improvements	14
Southeast Bend Septic to Sewer Solutions	15
Plant Interceptor Rehabilitation	16
North Interceptor Project	17
East Interceptor Project	18
Capacity Improvements Project	19
Pump Station Decommissions Projects	20
South Mirror Pond Parking Lot	21
Collection System Master Plan Post Acknowledgement Plan Amendment	22

**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.

The focus this month was on getting projects to completion, both in construction and design. The SEI took a huge step forward completing nearly \$3 million in work and the South Awbrey Butte Drainage Study is actually wrapping up next month. Both projects are trending under budget and the SEI is significantly ahead of schedule.

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

	Baseline	Now
TOTAL PROJECTS	75	77
ACTIVE PROJECTS	45	48
BUDGET	\$57.4 M	\$57.5 M

Two Synergy Projects were added. The funds containing the budgets on these projects are maintained by other departments so no changes were made to the CIP Budget.

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

We've spent

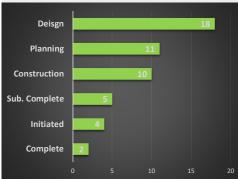
\$7.1 Million

12%

of the total amount budgeted this FY.

Spending was strong in September
We saw as much spending this month as we
did the prior two months combined

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



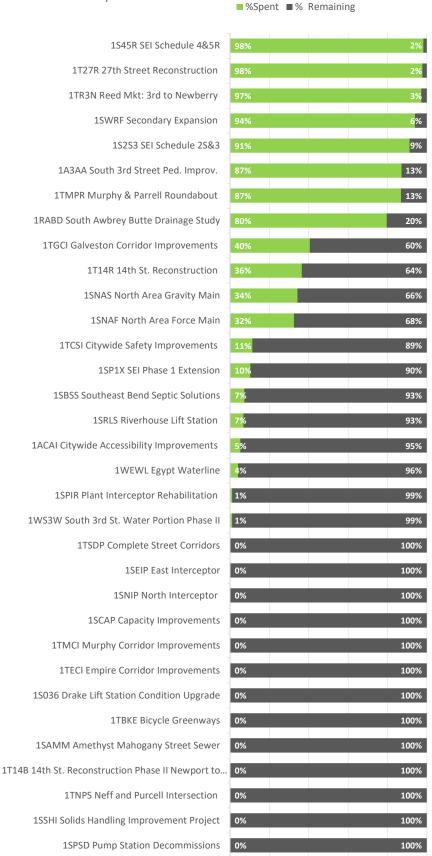
Eleven projects had phases change: Three projects were initiated, three moved to design, three to construction and two were completed. Be sure to check out the new project sheets at the end of this report.

Reporting Period:

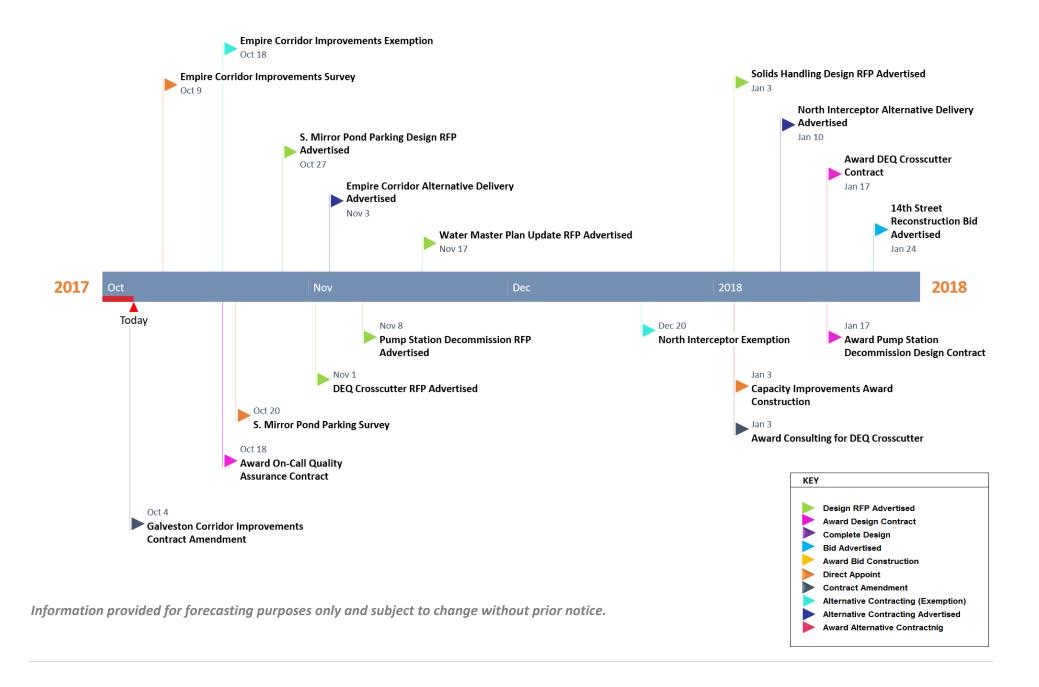
Sept. 1-30

### 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**



	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	Sub. Complete	815,000	749,461	15,000	-	-	_	_	15,000		92%
1XCAI Citywide Accessibility Improvement Program	27.01.12	Janny Jann		34. 2017	July complete	010,000	, 13,102	23,000					25,000		32,0
1ACAI Citywide Accessibility Improvements	1XCAI	Rowan	2016	Sep 2018	Construction	1,156,000	200,921	850,000					850,000		
Dean Swift Road Corridor	1XCAI	Rowan	2018	Sep 2018	Design	150,000	-	,	150,000				150,000		
NE Division Street Corridor	1XCAI	Rowan	2018	Sep 2018	Design	500,000	-		500,000				500,000		
Lodge Pole Drive Corridor	1XCAI	Rowan	2019	Dec 2019	Design	315,000	-			315,000			315,000		
Poplar Street Corridor	1XCAI	Rowan	2019	Jun 2020	Design	250,000	-			250,000			250,000		
SW Truman Hill Taft Silver Lake Corridor	1XCAI	Rowan	2020	Jun 2020	Design	440,000	-			22,222	440,000		440,000		
SW Cleveland Avenue Corridor	1XCAI	Rowan	2020	Jun 2021	Design	190,000	-				190,000		190,000		
NW Delaware Avenue Corridor	1XCAI	Rowan	2021	Dec 2021	Design	500,000	-				250,000	500,000	500,000		
NW Hill Street Corridor	1XCAI	Rowan	2021	Jun 2022	Design	250,000	-					250,000	250,000		
NW Seismore Street Corridor	1XCAI	Rowan	2021	Jun 2022	Design	125,000	_					125,000	125,000		
1ACAI Citywide Accessibility Improvements	1/(6/11	1.0 Wall	2021	3411 2022	Design	3,876,000	200,921	850,000	650,000	565,000	630,000	875,000	3,570,000		5%
1T14R 14th St. Reconstruction †	1XGOB	Sabourin, Burr	2016	Oct 2017	Design	6,195,000	869,186	4,206,369	150,000	-	-	-	4,356,369		14%
1T14B 14th St. Reconstruction Schedule B Newport to Galveston †	IAGOB	Sabourin, Burr	2017	Oct 2018	Design	2,600,000	-		1,300,000	1,300,000	_	_	2,600,000		0%
1TCSI Citywide Safety Improvements		Rowan	2016	Sep 2018	Construction	3,535,000	396,663	2,219,000	775,000	-	_	_	2,994,000		11%
1TGCI Galveston Corridor Improvements †		Sabourin	2010	Oct 2017	Design	950,000	384,649	520,000	-	_	_	_	520,000		40%
1TBKE Bicycle Greenways		Rowan	2011	May 2018	Pending	900,000	364,049	225,000	225,000	225,000	225,000	_	900,000		0%
1TMPR Murphy & Parrell Roundabout		Sabourin	2018	May 2018	Sub. Complete	2,952,600	2,562,595	50,000	5,000	5,000	223,000	-	60,000	1	87%
1TNPS Neff and Purcell Intersection		Rowan	2013	May 2020	Pending		2,302,393	50,000	350,000	300,000	2 200 000	_	,	1	0%
1TPWP Powers & Brookswood Roundabout Phase II	1XGOB	Sabourin	2010	Oct 2017	Complete	4,000,000 50,000	-	50,000	-	-	3,300,000	_	4,000,000 50,000		0%
1TECI Empire Corridor Improvements	INGOR	Forster	2017	Mar 2018	Initiated	15,630,000	-			5,665,000		3,000,000	15,630,000		0%
· · ·			2018	Mar 2018	Pending	, , , l		500,000	3,465,000 1,500,000	2,000,000	3,000,000 3,000,000	, ,	10,000,000		0%
1TMCI Murphy Corridor Improvements		Forster	2018	Oct 2020		10,000,000	- 005	500,000		2,000,000	3,000,000	3,000,000			
1TSDP Complete Street Corridors  1TR3N Reed Mkt: 3rd to Newberry	17000	Rowan Sabourin			Pending	801,000 13,804,664	965 13,406,963	200,000 160,000	600,000 16,000	-	-	-	800,000 176,000		0% 97%
	1XGOB	Sabouriii	2012	Oct 2018	Sub. Complete				-	10.000.000	10.155.000	- C 07F 000	·		97%
Total Transportation Projects Stormwater	_			<u> </u>		69,985,264	18,772,323	9,545,369	9,036,000	10,060,000	10,155,000	6,875,000	45,671,369		
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	Planning	285,000	226,818	10,000	500,000	_	_	_	10,000		80%
1RNPR Newport Pipe Replacement Design		Sabourin	2018	Jun 2019	Pending	442,000	-	-	442,000	_	_	_	442,000		0%
1RFGU Franklin & Greenwood Underpass		Sabourin	2018	Jun 2022	Pending	5,620,000	-	-	442,000	_	120,000	600,000	720,000		0%
1RRMC Roosevelt & McKinley		Martin	2021	Jun 2022	Pending	579,000	-	-	_	- -	104,000	475,000	579,000		0%
Total Stormwater Projects		IVIAI LIII	2020	Juli 2022	Pending	6,926,000	226,818	10,000	942,000		224,000	1,075,000	2,251,000		0%
	_		<del>                                     </del>		-	6,926,000	220,616	10,000	942,000		224,000	1,075,000	2,231,000		
Water		Martin	2020	Jun 2010	Danding	2 024 760				2.024.760			2.024.760		00/
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	30,828	590,000	-	-	-	-	590,000		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	Initiated	550,000	-	550,000	-	-	-	-	550,000		0%
1WRBO Parallel Piping Rock Bluff to Brookswood		Martin	2022	Jun 2022	Pending	2,940,000	- 6 427	-	-	-	-	2,940,000	2,940,000		0%
1WS3W South 3rd St. Water Portion Phase 2	1X3RD	Suhr	2016	Jun 2018	Design	632,000	6,437	550,000	-	-	-	-	550,000		1%
1WSDC Water SDC Methodology Study		Ockner	2017	Dec 2017	Complete	60,578	578	60,000	-	-	-	-	60,000		1%
1WSPP Parallel Piping Brookswood 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						15,824,202	37,843	1,750,000		3,566,160	4,504,864	5,739,600	15,560,624		

	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
Water Reclamation															
1XSEI Southeast Interceptor Projects															
1SP1X SEI Phase 1 Extension	1XSEI	Forster, MacClanahan	2016	Dec 2017	Construction	10,500,000	1,067,927	8,000,000	-	-	-	-	8,000,000		10%
1S2S3 SEI Schedule 2S&3*	1XSEI	Forster, MacClanahan	2017	Dec 2017	Construction	31,466,250	28,742,332	11,715,000	-	-	-	-	11,715,000		91%
1S45R SEI Schedule 4&5R	1XSEI	Forster	2014	Dec 2016	Sub. Complete	12,500,000	12,277,365	3,000,000	-	-	-	-	3,000,000		
1XSEI Southeast Interceptor						54,466,250	42,087,624	22,715,000	-	-	-	-	22,715,000		77%
1XNAS North Area Sewer Projects															
	1XNAS	Franklet, Burr, Murray	2017	Jun 2018	Construction	4,450,000	1,426,164	1,700,000	-	-	-	-	1,700,000		32%
		Franklet, Burr, Murray	2017	Jun 2018	Construction	3,855,000	1,319,556	1,100,000	_	-	-	-	1,100,000		34%
		Franklet, Burr, Murray	2016	Jun 2017	Construction	555,000	37,637	400,000	_	-	_	_	400,000		7%
1XNAS North Area Sewer Projects	17(17)(5	Trainice, Barr, Warray	2010	3411 2017	Construction	8,860,000	2,783,357	3,200,000	_	_	_	_	3,200,000		31%
1XWRF Water Reclamation Facility Projects						3,333,333	2,703,337	3,200,000					3,200,000		31/0
	1XWRF	Robertson	2017	Jun 2018	Planning	8,000,000	214	7,998,000	-	-			7,998,000		0%
The state of the s		Robertson	2017	Jun 2022	Initiated	5,500,000	-	250,000	250,000	2,500,000	2,500,000	_	5,500,000		0%
		Robertson	2013	Jun 2019	Pending	1,000,000	_	250,000	1,000,000	2,300,000	-	_	1,000,000		0%
		Robertson	2018	Jun 2019	Pending	500,000		-	-	500,000	-	_	500,000		0%
			2019	Jun 2013	Pending	2,500,000					1,250,000	_	2,500,000		0%
11	TVANKL	Robertson	2019	Juli 2021	Pending		214			1,250,000		-			
1XWRF Water Reclamation Facility Projects						17,500,000	214	8,248,000	1,250,000	4,250,000	3,750,000	-	17,498,000		0%
1SPSD Pump Station Decommissions Program	46060	Marrow Facility	2047	L. 2010	Diamina	250,000		20.000	220.000				350,000		00/
		Murray, England	2017	Jun 2019	Planning	250,000	-	30,000	220,000	-	-	-	250,000		0%
	1SPSD	Murray, England	2017	Jun 2019	Planning	200,000	-	20,000	180,000	-	-	-	200,000		0%
	1SPSD	Murray, England	2017	Jun 2019	Planning	200,000	-	20,000	180,000	-	-	-	200,000		0%
	1SPSD	Murray, England	2017	Jun 2019	Design	150,000	-	15,000	135,000	-	-	-	150,000		0%
	1SPSD	Murray, England	2017	Jun 2019	Planning	100,000	-	10,000	90,000	-	-	-	100,000		0%
-		Murray, England	2017	Jun 2018	Construction	100,000	-	100,000	-	-	-	-	100,000		100%
	1SPSD	Murray, England	2017	Jun 2018	Construction	100,000	-	100,000	-	-	-	-	100,000		100%
ū.		Murray, England	2017	Jun 2019	Planning	200,000	-	20,000	180,000	-	-	-	200,000		0%
		Murray, England	2017	Jun 2019	Design	100,000	-	10,000	90,000	-	-	-	100,000		0%
#90A+B Quail Ridge #1	1SPSD	Murray, England	2017	Jun 2019	Planning	100,000	-	10,000	90,000	-	-	-	100,000		0%
C .	1SPSD	Murray, England	2017	Jun 2019	Planning	15,000	-	15,000	-	-	-	-	15,000		0%
1SPSD Pump Station Decommissions Projects						1,515,000	-	350,000	1,165,000	-	-	-	1,515,000		0%
1SWRF Secondary Expansion		England, Robertson	2008	Jun 2019	Sub. Complete	43,798,454	41,172,407	1,500,000	1,000,000	-	-	-	2,500,000		94%
1SPIR Plant Interceptor Rehabilitation		Suhr, Martin	2015	Dec 2018	Design	10,700,000	112,240	5,150,000	5,515,000	-	-	-	10,665,000		1%
1SBSS Southeast Bend Septic Solutions		Martin	2017	Jun 2019	Design	2,800,000	201,332	1,150,000	800,000	-	-	-	1,950,000		7%
1SEIP East Interceptor		Franklet	2017	Jun 2019	Planning	21,000,000	13,770	1,000,000	1,000,000	-	-	-	2,000,000		0%
1SNIP North Interceptor		Franklet	2017	Dec 2021	Planning	23,000,000	13,770	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	Pending	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	-	605,000	-	-	-	-	605,000		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%
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						193,904,704	86,384,715	46,168,000	13,730,000	15,860,000	10,950,000	7,200,000	93,908,000		
Total 2017-2020 Capital Improvement Program							105,421,700	57,473,369		29,486,160	25,833,864	20,889,600			
Total 2017-2020 Capital Improvement Program						286,640,170	105,421,700	57,473,369	23,708,000	29,486,160	25,833,864	20,889,600	157,390,993		

### Budget Notes and Revisions

† Tied to other projects

1-Budget Adjustment \$40,000 FYE Rollover

\* Budget includes Street Preservation Work

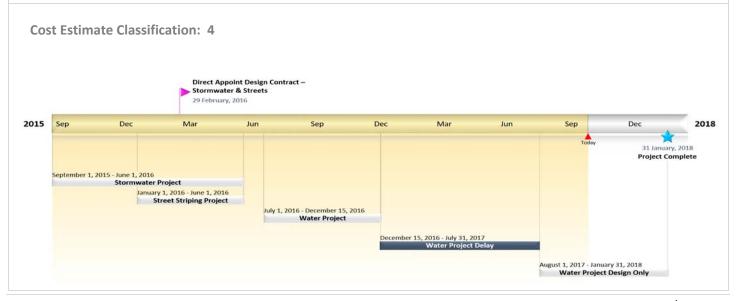
# Phase 2 - S. 3<sup>rd</sup> Street Improvements

Phase 2 projects are capital improvement projects and address maintenance issues. The timing is being driven to occur in advance of the street preservation work within 3rd Street that is planned for the summer of 2017. Due to the impacts to the 3rd Street roadway, it is imperative that they occur prior to the grind and inlay preservation work.



Scope	Schedule	Cost			
Includes design and construction for streets, water, and stormwater. This work will include an analysis of the drainage basin to assess the condition of the existing stormwater facilities; creation of a striping and paving plan; replace existing 2-inch sub-standard waterlines with 8-inch pipelines.	Start Date: 10/1/2015 Substantial Completion: 1/31/2018 Final Closeout: 1/31/2018  • Stormwater portion complete • Streets portion complete	Total Estimated:  Spent to Date:  Spent to Estimated:  Sub-Projects: Est.  Water \$632,000 Stormwater \$5,000 Streets \$30,000	\$667,000 \$28,961 4% <u>Spent</u> \$6,437 \$6,150 \$16,104		
Status: Potential Scope Reduction	Status: Baseline Schedule Revision	Status: Potential Budget Reduction			
Adjustments: Construction portion of this project is under review	Adjustments: Schedule updated with Utility Operations staff	Adjustments: Cost will be lower if the water portion is not constructed			

**Status Update:** 100% design of the waterline portion will be complete in December. Utility Operations staff will assist in determining priority at that time. There is a potential to deprioritize project until a future date. Current timeline reflects only the design phase. If the project moves to construction, the timeline will be updated in December or January.



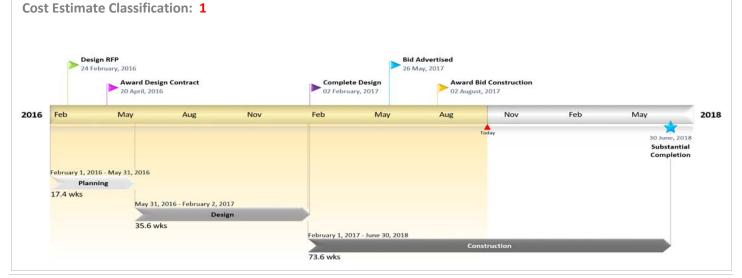
# Citywide Accessibility Improvements

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.



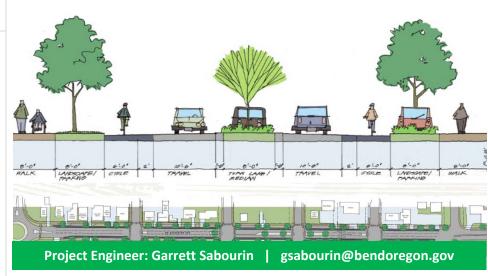
Scope	Schedule	Cost
Survey, design, and construction of accessibility improvements in the Mountain View Neighborhood, NE Kearney Avenue, NE Wells Acres Road, and Broadway and Delaware locations. Construction of all locations except the Mountain View Neighborhood in 2017. Construction of Mountain View in 2018.	Start Date: 3/1/16 Substantial Completion: 06/30/2018 Final Closeout: 06/30/19	Total Estimated: \$1,156,000  Spent to Date: \$200,921  % Spent to Estimated: 17%  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	Status: Ahead of Schedule	Status: On Budget
Adjustments: Scope adjusted to better reflect that future corridors were established as separate subprojects in the CIP	Adjustments: Trending approximately 17 days ahead on all locations currently in construction	Adjustments: No impact to budget due to Scope and Schedule updates

**Status Update:** Sidewalk, curb ramps and driveways being constructed. Construction should be complete by end of October. Cost estimate classification moved from Class 2 to 1.



### 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
Study to improve safety, access, and connectivity for vehicles, bicycles, and pedestrians. Also to improve the streetscape along a newly emerging mixed use corridor. A collaborative process has formed between City staff and property/business owners with a taskforce to devise project concepts and designs. At 30% design project will be brought to council to decide the Stormwater and other elements to be carried forward.	Start Date: 06/01/2011 Substantial Completion: TBD Final Closeout: TBD	Total Estimated: \$950,000†  Spent to Date: \$384,649*  % Spent to Estimated: 8%  † Total cost estimate for 30% design  * Includes planning prior to CIP
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:** Contract amendment #6 will be presented to Council on October 4. Amendment will include scope and fee to carry design from 30% to final. Timeline will be updated next month.



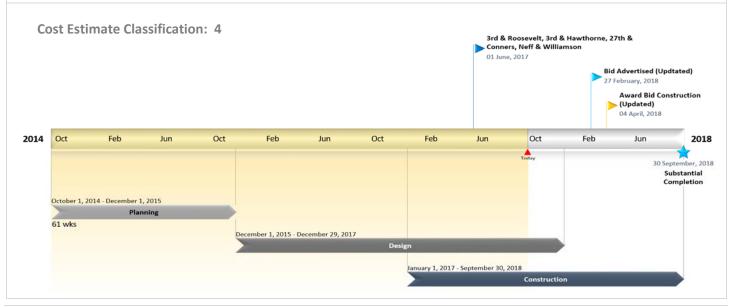
# **Citywide Safety Improvements**

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.



Scope	Schedule	Cost
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.	Start Date: 10/1/2014 Substantial Completion: 9/30/2018 Final Closeout: 9/30/2019	Total Estimated: \$3,535,000  Spent to Date: \$396,663  % Spent to Estimated: 11%
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:** Ribbon cutting & celebration for 3<sup>rd</sup> Street Pedestrian Improvements project acknowledged the enhanced crossing of Third Street at Roosevelt Avenue. Enhancements include flashing beacons and a safety island. This is one of the City's Safer by Design projects.



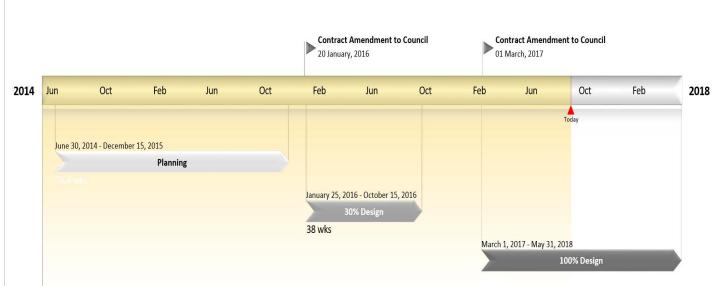
### 14<sup>th</sup> Street Reconstruction

Improve safety of corridor from 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.



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.	Start Date: 06/30/2014 Substantial Completion: TBD Final Closeout: TBD	Total Estimated: \$6,195,000  Spent to Date: \$869,186  % Spent to Estimated: 14%  Sub-Projects: Est. Spent  GO Bond \$4,893,612 \$539,253  Trans Con. \$1,299,630 \$329,933		
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 is on schedule and anticipating advertising for Phase I construction in spring 2018.



### Water Master Plan **Update**

The existing Water Master Plan was completed in 2011 and is due to be updated in order to more accurately reflect current system conditions. The update will address current operational parameter efficiencies, needed capital improvements, and the full integration of the Water Management and Conservation Plan. All of this information will be used to update the SDC methodology and rate forecasting.

Alignment of master planning, rate

for unity between future water

system operational needs and the required water system funding.

analysis and SDC development allows

Scope

# **Water System Master Plan Update Optimization Study**

City of Bend, Oregon, Project No. WA09FA

# **Final Report**

Project Engineer: Skip Martin | smartin@bendoregon.gov

Start Date: 3/1/2017 Total Estimated: Substantial Completion: 06/30/2019

Final Closeout: 06/30/2020

Spent to Date: \$578

% Spent to Estimated: 0.05%

\$1,110,578

Status: On Schedule Status: On Scope **Status: On Budget** 

Adjustments: Project initiated Adjustments: Project initiated Adjustments: Project initiated

Status Update: Project initiated. This project scope changed to include the Water SDC Methodology Study. Project budget increased by savings from the South 3rd St. Water Portion Phase II project (see page 5 of this report).



### **Egypt Waterline Project**

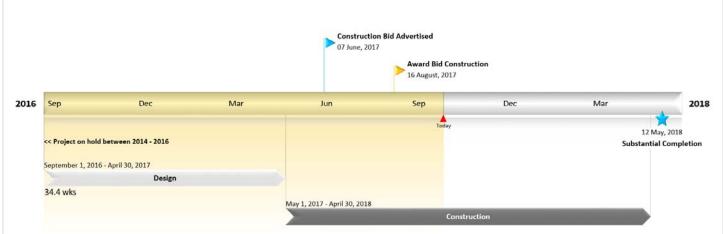
The Egypt Waterline seeks to create a redundant water source for Juniper Ridge. This project became a Capital Improvement Project after it was identified in the 2011 Water master Plan Optimization study by Murray and Smith Associates. A redundant connection for Juniper Ridge is necessary to provide an 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: 04/30/18 Final Closeout: 04/30/18	Total Estimated: \$771,000  Spent to Date: \$30,828  % 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

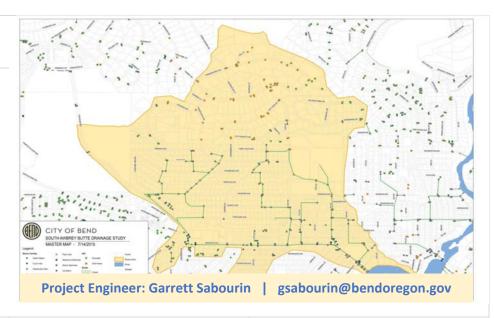
**Status Update:** Trending on schedule to begin construction in December 2017 during the Bend La Pine School District winter break, weather permitting.





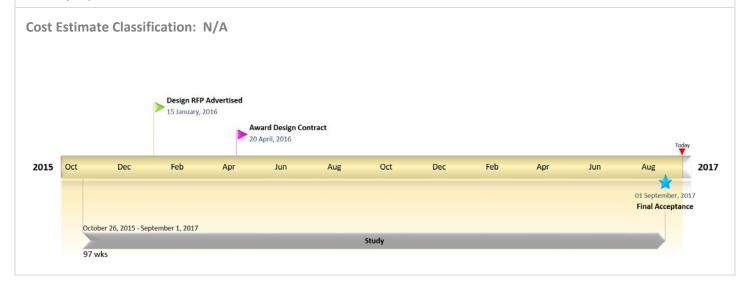
## South Awbrey Butte Drainage Study

An evaluation will be completed in order to identify areas with run-off problems and complete a modeling effort in order to estimate run-off volumes. This will be the basis for future stormwater system improvements on Awbrey Butte and downstream areas.



Scope	Schedule	Cost
Complete a drainage system analysis for the southern hillside of Awbrey Butte. The intent is to identify and provide recommendations for drainage problem areas, as well as provide design peak flow rates at critical design locations along the Newport Avenue drainage.	Start Date: 7/1/15 Substantial Completion: 05/26/2017 Final Closeout: 10/1/2017	Total Estimated: \$285,000 Spent to Date: \$226,818 % Spent to Estimated: 80%
Status: On Scope	Status: Behind Schedule	Status: Under Budget
Adjustments: No change from prior month	Adjustments: Timeline extended by consultant resulted in savings on project	Adjustments: Project will closeout approximately 16% under budget

**Status Update:** Consultant addressing City comments on final improvement plan and will submit final draft of the Final Improvement Plan and project will begin closeout. This is the last month this project will be included in the monthly report.



# Southeast Interceptor Phase I

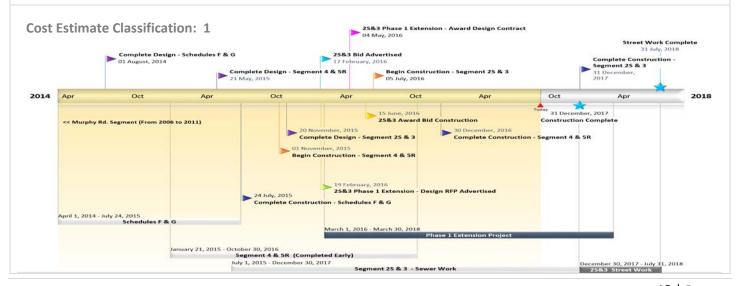
Large diameter gravity sewer pipeline extending from the southwest quadrant to the northeast quadrant of the City, approximately 4 ½ miles in length. This project reroutes or intercepts a significant volume of sewage away from the downtown and central sewer systems to the east side of the City in accordance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



Project Engineer: Eric Forster | eforster@bendoregon.gov

Scope	Schedule	Cost			
Design and construction of gravity	Start Date: 7/1/2006	Total Estimated: \$72,000,000			
sewer, from South 3rd street to the	Sewer Completion: 12/31/2017	Spent to Date: \$58,852,879			
Neff Road interim connection. Phase 1 Extension Project, approved in	Street Completion: 7/31/2018	% Spent to Estimated: 96%			
January 2016, adds approximately	Final Closeout: 7/30/2019	Sub-Projects: Est. Spent			
3,000 feet of sewer main work.		Previous \$17,500,000 \$16,765,255			
	<ul> <li>Previous segments, as well as</li> </ul>	4&5R \$12,500,000 \$12,277,365			
	4&5R, are complete.	2S&3 \$31,500,00 \$28,742,332			
		P1EX \$10,500,000 \$1,067,927			
Status: On Scope	Status: Potential Schedule Revision	Status: Increased Budget			
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month			

**Status Update:** Contractor estimates substantial completion on the 27<sup>th</sup> Street project (2S&3) in October. Contract completion date is July 2018; consequently, the project is finishing significantly ahead of schedule. Find Phase I Extension information at https://www.bendoregon.gov/city-projects/city-infrastructure-projects/se-interceptor-project/neff-road-sewer-line-segment



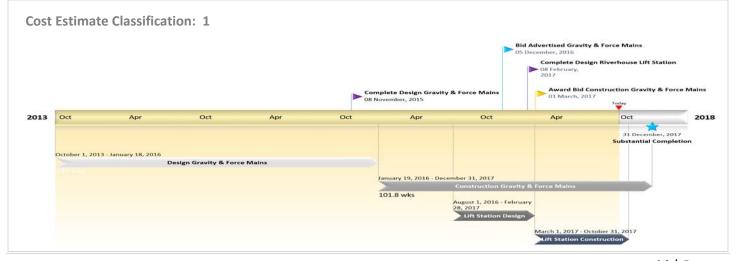
# North Area Sewer Capacity Improvements

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.



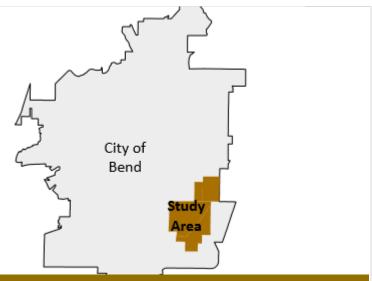
Scope	Schedule	Cost
Analysis of alternatives for pipeline route and construction methods for crossing of irrigation canals and railroad tracks; design and construction of gravity and force mains, pump station modifications, and flow bypass optimization.	Start Date: 10/1/2013 Substantial Completion: 12/31/17 Final Closeout: 12/31/18	Total Estimated: \$8,860,000*  Spent to Date: \$2,758,596  % Spent to Estimated: 31%  * Includes street preservation work  Sub-Projects: Est. Spent  Force Main \$4,450,000 \$1,426,164  Gravity \$3,855,000 \$1,319,556  Lift Station \$555,000 \$12,875
Status: Scope Increase	Status: Schedule Delay	Status: Potential Cost Increase
Adjustments: Scope added due to unknown ODOT drainage facilities	Adjustments: Hwy 97 bore delayed due to unknown ODOT drainage facilities	Adjustments: Additional costs anticipated due to unforeseen subsurface conditions

**Status Update:** Paving and striping of Butler Market Road were completed in September. Construction of the Gravity Main continues with the construction of the main on Nels Anderson Road. Advancement of the bore under Highway 97 stopped due to encountering unknown ODOT drainage facilities and unforeseen subsurface conditions and is scheduled to continue in mid-October. Paving of Nels Anderson Road is scheduled to be completed by mid-November. The overall project remains on schedule for substantial completion by the end of 2017.



### Southeast Bend Septic to Sewer Solutions

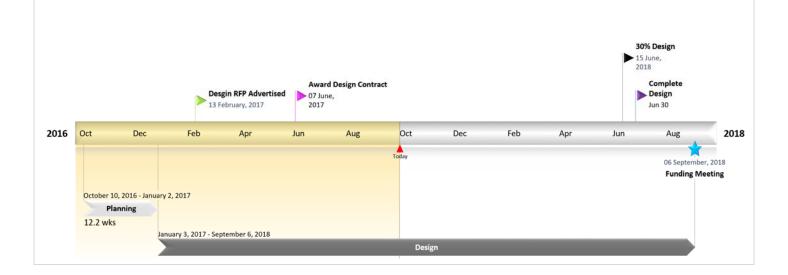
When constructed, existing residences, currently on septic systems, will eventually and systematically connect to the recently constructed South East Interceptor (SEI). This project will require phases to meet constructability limitations and to better meet community involvement requirements.



Pro	iect Eng	zineer: Ski	p Martin	smartin@	bendoregon.gov
		,	O LUIGH GILL		, well do longeringer

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: \$201,332  % Spent to Estimated: 7%  * City is currently only planning to design this project.
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.



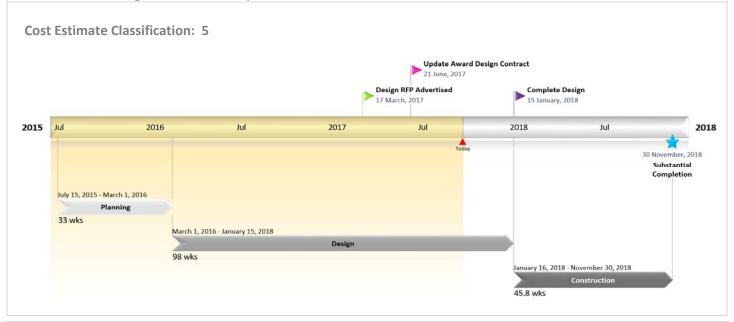
# Plant Interceptor Rehabilitation

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 on the pipe segments in the worst structural condition 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.



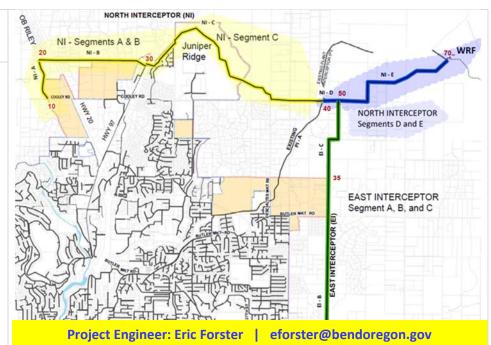
Scope	Schedule	Cost
Rehabilitate all pipe segments and manholes with a Cured-In-Place Pipe (CIPP) liner, and replace the existing siphon junction box.	Start Date: 3/1/2015 Substantial Completion: 11/30/18 Final Closeout: 11/30/19	Total Estimated: \$10,700,000  Spent to Date: \$112,240  % Spent to Estimated: 1%
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:** Working with Bureau of Reclamation, Bureau of Land Management, and United States Forest Service on the special use application. Historical and cultural resource survey was performed along the alignment. Public involvement meeting scheduled in early October.



# 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).



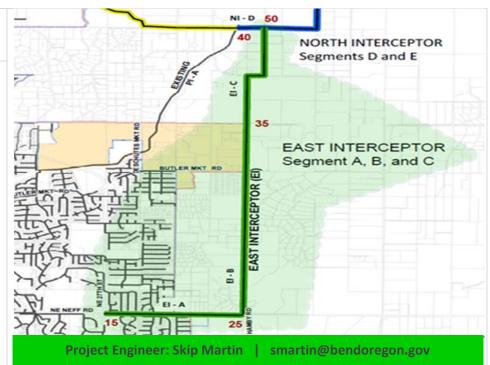
Scope	Schedule	Cost
Design, bid, contract, and build approximately 36,000 feet of gravity sewer, various diameters running along the Northern edge of Bend's UGB. Connects to the WRF.	Start Date: 3/1/17 Substantial Completion: 12/31/2022 Final Closeout: 12/31/2023	Total Estimated: \$23,000,000  Spent to Date: \$13,770  % 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:** Received ground survey and digital terrain model (DTM) for both North and East Interceptor alignments. Added it to Geographical Information System (GIS) data. Preparing State of Oregon Department of Environmental Quality (DEQ) Clean Water State Revolving Fund (CWSRF) loan application.

# Alternative Delivery Exemption 20 December, 2017 Alternative Delivery Advertised 10 January, 2018 2017 Mar Nov Jul Mar Nov Jul Mar Nov 2022 March 1, 2017 - January 9, 2018 Planning January 10, 2018 - May 31, 2019 Design Design June 1, 2019 - June 30, 2022 Construction

# East Interceptor Project

Future Sewer Interceptor connecting with the SEI at Neff Rd and 27<sup>th</sup> St, proceeding east on Neff Rd to Hamby Rd (5,300 feet), then turning north on Hamby and connecting to the North Interceptor (16,500 feet). Total length of East Interceptor is approximately 21,800 feet.



Scope	Schedule	Cost
Design, bid, contract, and build approximately 22,000 feet of gravity sewer, various diameters running along the Eastern edge of Bend's UGB. Connects to the North Interceptor	Start Date: 3/1/17 Substantial Completion: 12/31/2025 Final Closeout: 12/31/2026	Total Estimated: \$21,000,000  Spent to Date: \$13,770  % Spent to Estimated: 0.07%
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:** Current work on this project is limited to determining diameter and depth for future alignment to the North Interceptor Project and UGB Expansion modeling.



# 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: 7/31/19 Final Closeout: 7/31/2020	Total Estimated: \$8,000,000  Spent to Date: \$214  % Spent to Estimated: 0.00%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: Project Initiated	Adjustments: Project Initiated	Adjustments: Project Initiated

**Status Update:** Project initiated.

### **Cost Estimate Classification: 5 Design RPF Advertised** 08 November, 2017 Award Design Contract 17 January, 2018 2017 Sep 2020 Mar Sep Dec Mar Jun Sep Dec Mar Dec Jun September 1, 2017 - September 29, 2017 Planning October 31, 2017 - May 30, 2019 May 31, 2019 - May 31, 2020 Construction

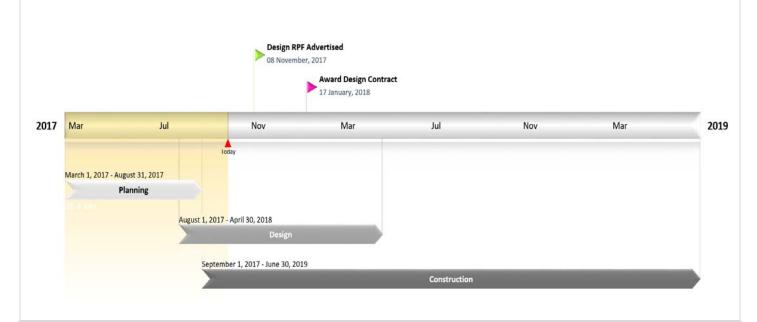
# Pump Station Decommissions Projects

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.



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: 06/30/2019 Final Closeout: 06/30/2020	Total Estimated: \$1,515,000  Spent to Date: \$0  % Spent to Estimated: 0.00%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: Project initiated	Adjustments: Project initiated	Adjustments: Project initiated

**Status Update:** Project initiated. Utility Operations vision performed the gravity diversion on #17A+B Ridgewater #1and #18A+B Bridges at Shadow Glen. Flows have been diverted to SEI and these stations are now offline and in the process of being removed.



# 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.



Project Engineer: Brad Tower| btower@bendoregon.gov

Scope	Schedule	Cost
This is a synergy project with the Economic Development Department and Bend Police Department.	Start Date: 9/1/2017 Substantial Completion: 08/31/2018 Final Closeout: 08/31/2019	Total Estimated: \$470,000  Spent to Date: \$0  % Spent to Estimated: 0.00%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: Project initiated	Adjustments: Project initiated	Adjustments: Project initiated

Status Update: Project initiated

### **Cost Estimate Classification: 5 Award Survey Contract** 20 October, 2017 **Award Bid Construction** Design RPF Advertised **Award Design Contract Bid Advertised** 27 October, 2017 20 December, 2017 18 April, 2018 06 June, 2018 2017 Sep Oct Nov Dec 2018 Feb Mar Apr May Jun Jul Aug 2018 September 1, 2017 - September 29, 2017 October 27, 2017 - April 18, 2018 April 19, 2018 - August 31, 2018 Construction

# 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

Project Engineer: Skip Martin| smartin@bendoregon.gov

Scope	Schedule	Cost
This is a synergy project with the Growth Management Department and is not included in the Capital Improvement Program.	Start Date: 3/1/2017 Substantial Completion: 12/30/2017 Final Closeout: 4/1/2018	Total Estimated: \$ Spent to Date: \$0 % Spent to Estimated: 0.00%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: Project initiated	Adjustments: Project initiated	Adjustments: Project initiated

Status Update: Project initiated

