



ENGINEERING

Monthly Report

Fiscal Year 2017-2018

September 2017



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 rd Street Improvements	5
Citywide Accessibility Improvements	6
Galveston Corridor Improvements	7
Citywide Safety Improvements.....	8
14 th Street Reconstruction	9
Powers & Brookwood Roundabout Phase II	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

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.

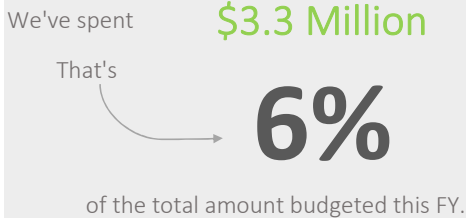
We are just starting to process the fiscal year end budget rollovers for projects that need them. By November we should see close to a \$3 million increase in the budget due to rollovers.

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

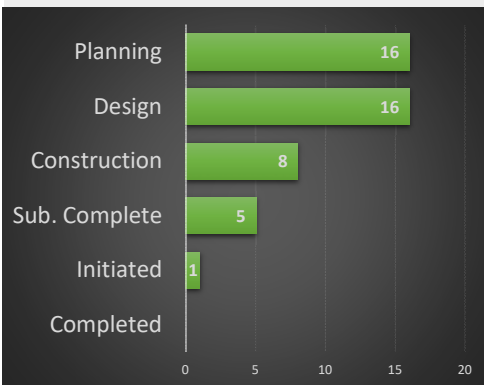
	Baseline	Now
TOTAL PROJECTS	75	75
ACTIVE PROJECTS	45	46
BUDGET	\$57.4 M	\$57.5 M

Fiscal year end rollovers increased the overall budget \$40,000 or 0.07%

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



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

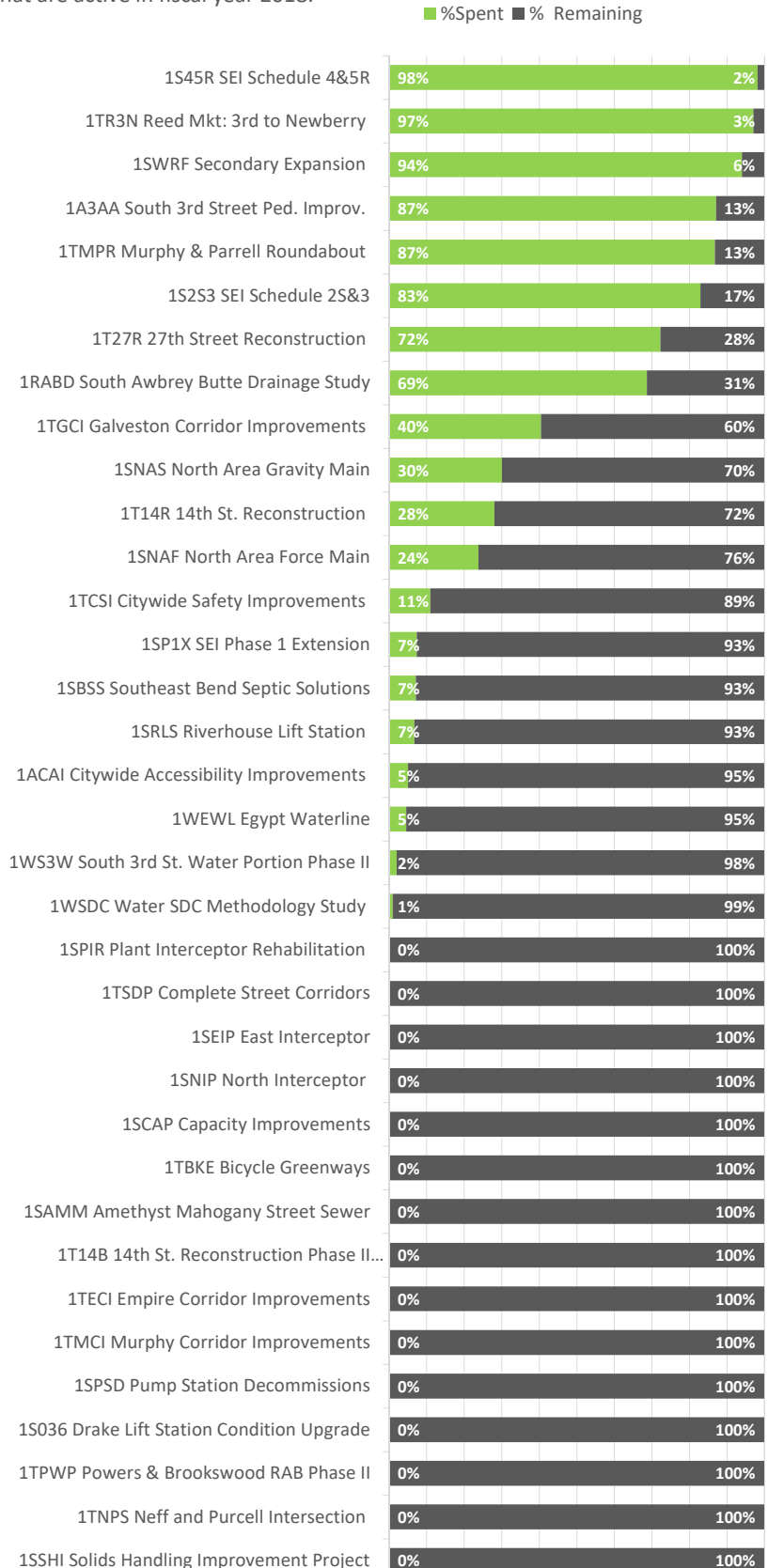


Despite it being late in the construction season, we saw several projects shift from Design to Construction. As the weather cools and construction slows we should see more projects being initiated. Look for new project sheets in next month's report.

Reporting Period: August 1 - 31

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
	Construction Start
	Complete Construction
	Contract Amendment



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															
1ACAI Citywide Accessibility Improvements	1XCAI	Rowan	2016	Sep 2018	Construction	1,156,000	196,176	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	-				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	-					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						3,876,000	196,176	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	688,693	4,206,369	150,000	-	-	-	4,356,369		11%
1T14B 14th St. Reconstruction Schedule B Newport to Galveston †		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	389,373	2,219,000	775,000	-	-	-	2,994,000		11%
1TGCI Galveston Corridor Improvements †		Sabourin	2011	Oct 2017	Design	950,000	384,649	520,000	-	-	-	-	520,000		40%
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	2,562,595	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	Design	50,000	-	50,000	-	-	-	-	50,000		0%
1TECI Empire Corridor Improvements		Forster	2018	Mar 2018	Initiated	15,630,000	-	500,000	3,465,000	5,665,000	3,000,000	3,000,000	15,630,000		0%
1TMCI Murphy Corridor Improvements		Forster	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%
1TR3N Reed Mkt: 3rd to Newberry	1XGOB	Sabourin	2012	Oct 2018	Sub. Complete	13,804,664	13,402,345	160,000	16,000	-	-	-	176,000		97%
Total Transportation Projects						69,985,264	18,570,433	9,545,369	9,036,000	10,060,000	10,155,000	6,875,000	45,671,369		
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	Planning	285,000	195,873	10,000	-	-	-	-	10,000		69%
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	195,873	10,000	942,000	-	224,000	1,075,000	2,251,000		
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	35,696	590,000	-	-	-	-	590,000		5%
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	550,000	-	550,000	-	-	-	-	550,000		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	632,000	12,875	550,000	-	-	-	-	550,000		2%
1WSDC Water SDC Methodology Study		Ockner	2017	Dec 2017	Pending	60,578	578	60,000	-	-	-	-	60,000		1%
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						15,824,202	49,149	1,750,000	-	3,566,160	4,504,864	5,739,600	15,560,624		

Phase 2 - S. 3rd 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: 6/30/2018 Final Closeout: 6/30/19 <ul style="list-style-type: none"> Stormwater portion complete Streets portion complete 	Total Estimated: \$667,000 Spent to Date: \$35,129 % Spent to Estimated: 5% <table border="1"> <thead> <tr> <th>Sub-Projects:</th> <th>Est.</th> <th>Spent</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td>\$632,000</td> <td>\$12,875</td> </tr> <tr> <td>Stormwater</td> <td>\$5,000</td> <td>\$6,150</td> </tr> <tr> <td>Streets</td> <td>\$30,000</td> <td>\$16,104</td> </tr> </tbody> </table>	Sub-Projects:	Est.	Spent	Water	\$632,000	\$12,875	Stormwater	\$5,000	\$6,150	Streets	\$30,000	\$16,104
Sub-Projects:	Est.	Spent												
Water	\$632,000	\$12,875												
Stormwater	\$5,000	\$6,150												
Streets	\$30,000	\$16,104												
Status: On Scope	Status: Behind Schedule	Status: On Budget												
Adjustments: No change from prior month	Adjustments: Staffing constraints put project on hold until further notice	Adjustments: No change from prior month												

Status Update: Reviewed project status and timelines with Utilities Department. Design proceeds until further notice.

Cost Estimate Classification: 4



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.



Project Engineer: Rory Rowan | rrowan@bendoregon.gov

Scope

Survey, design, and construction of accessibility improvements, as funding allows, in the Wells Acres, Bear Creek, Division, Downtown & Old Mill and Brookwood/Southwest neighborhoods.

Schedule

Start Date: 3/1/16
 Substantial Completion: 11/17/2017
 Final Closeout: 11/17/2018

Cost

Total Estimated: \$1,156,000
 Spent to Date: \$196,176
 % Spent to Estimated: 17%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

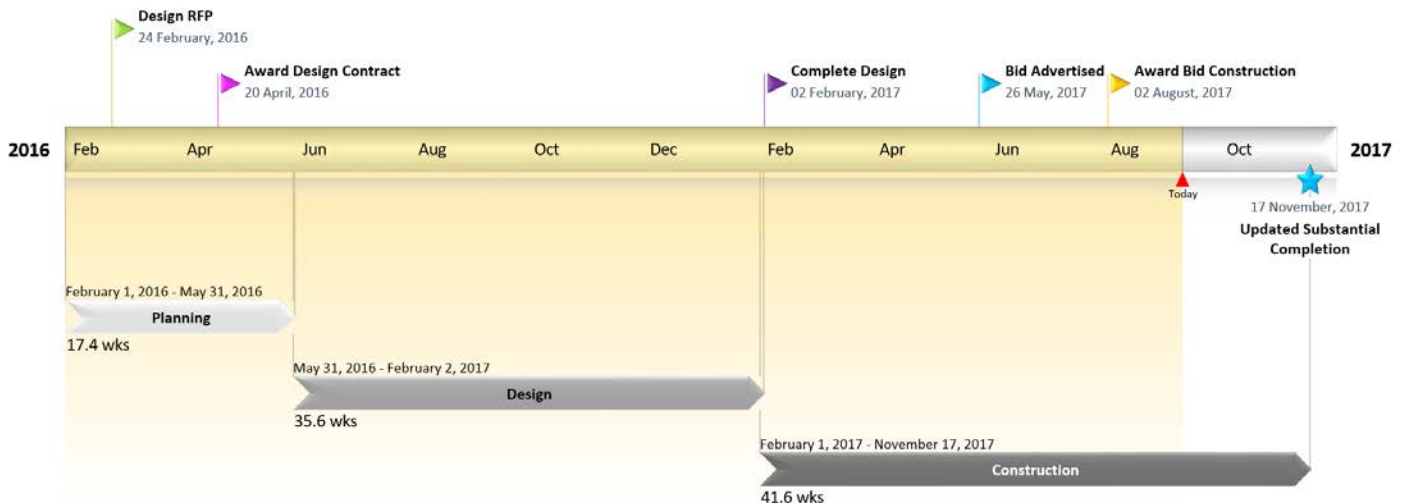
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

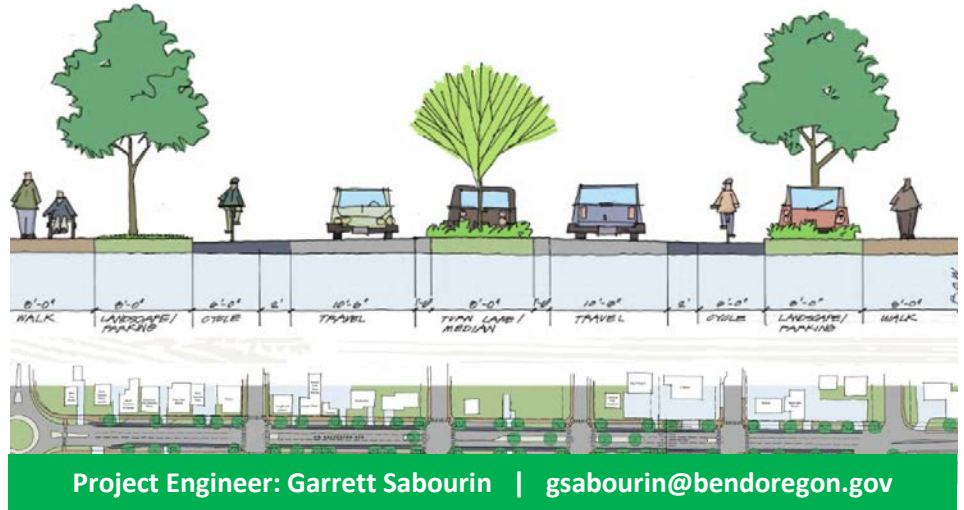
Status Update: Construction contracts awarded for NE Kearney Ave and NE Wells Acres Road Corridors. Construction to begin in September and conclude in November.

Cost Estimate Classification: 2



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

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.

Schedule

Start Date: 06/01/2011
 Substantial Completion: TBD
 Final Closeout: TBD

Cost

Total Estimated: \$950,000[†]
 Spent to Date: \$384,649*
 % Spent to Estimated: 8%

[†] Total cost estimate for 30% design
 * Includes planning

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: Narrative updated. Project only received authority for 30% design. Once City Council goal setting complete and 2018-2022 Capital Improvement Program approved future of project direction will be determined. No update will be provided until then.

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.



Project Engineer: 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.

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: \$389,373
 % Spent to Estimated: 11%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

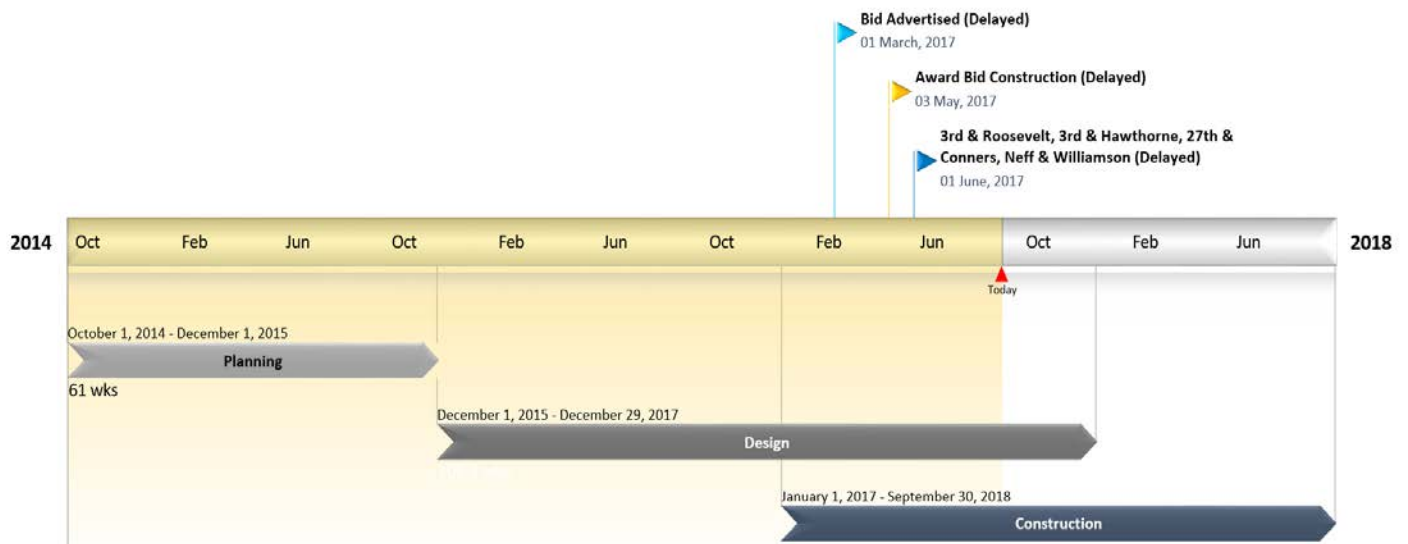
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: Construction of 3rd & Roosevelt is complete. Other locations will be put out to bid in January 2018.

Cost Estimate Classification: 4



14th 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.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

Scope

Upgrade to City standard to include but not limited to: roadway, surface, curbs, sidewalks, and striping. Includes safety improvements for bicycles, pedestrians and vehicles.

Schedule

Start Date: 06/30/2014
 Substantial Completion: TBD
 Final Closeout: TBD

Cost

Total Estimated: \$6,195,000
 Spent to Date: \$688,693
 % Spent to Estimated: 11%

Sub-Projects:	Est.	Spent
GO Bond	\$4,893,612	\$440,409
Trans Con.	\$1,299,630	\$248,284

Status: On Scope

Status: On Schedule

Status: On Budget

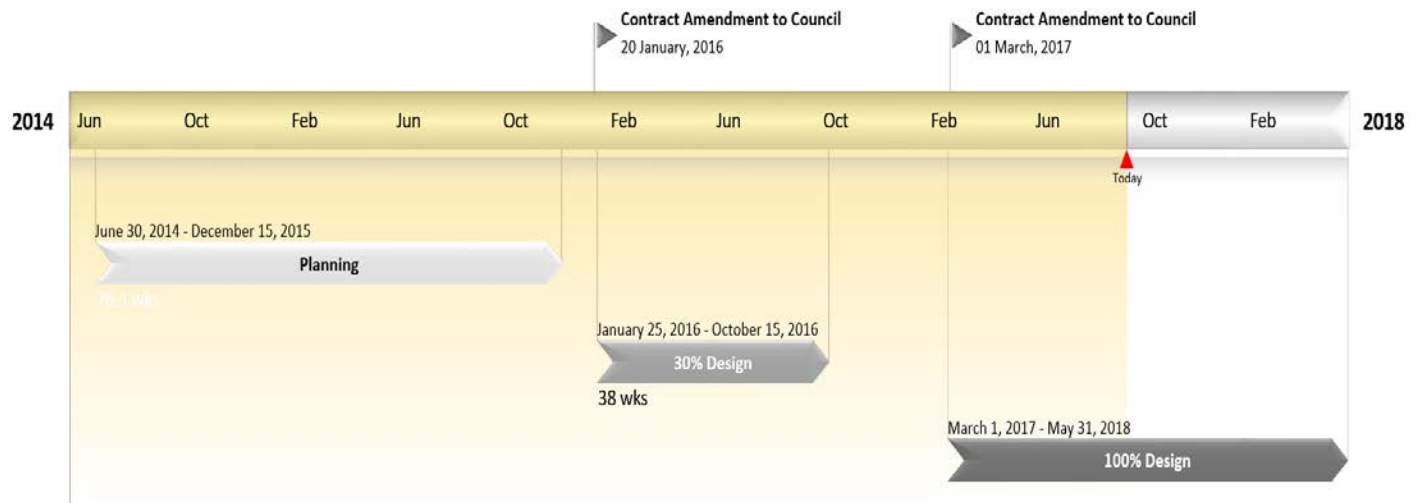
Adjustments: No change from prior month

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.

Cost Estimate Classification: 3



Powers & Brookwood Roundabout Phase II

The stormwater from the newly constructed roundabout on Brookwood and Powers is conveyed to and drains into stormwater structures through a swale to the northeast of the roundabout. The Powers & Brookwood Roundabout Phase II Project intent is to rehabilitate this swale. This will be done by cleaning out the storm structures and re-constructing the check dams to convert the swale into a series of retention ponds. This will ensure proper erosion control and sediment collection.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

Scope	Schedule	Cost
Re-construct check dams to convey water at appropriate velocity and location. Check dam height will also convert swale into retention ponds for increased retention capacity and sediment collection.	Start Date: 07/01/2016 Substantial Completion: 05/30/17 Final Closeout: 05/30/2018	Total Estimated: \$50,000 Spent to Date: \$0 % Spent to Estimated: 0%
Status: On Scope	Status: Behind Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month

Status Update: Street Operations Division assisted with establishing vegetation and addressing bank stabilization issues. Stormwater utility determined minor repairs will be self-performed. Project is complete and will be removed from the CIP. This is the last month this project will be included in the monthly report.

Cost Estimate Classification: 2



Egypt Waterline Project

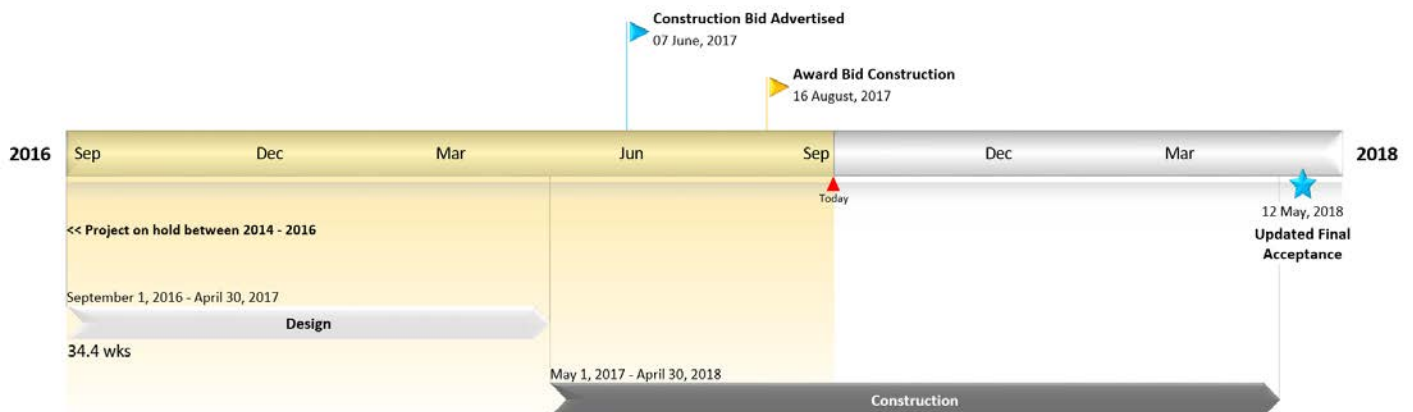
The Egypt Waterline seeks to create a redundant water source for Juniper Ridge. This project became a Capital Improvement Project after it was identified in the 2011 Water master Plan Optimization study by Murray and Smith Associates. A redundant connection for Juniper Ridge is necessary to provide an 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: \$35,376 % Spent to Estimated: 5% 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

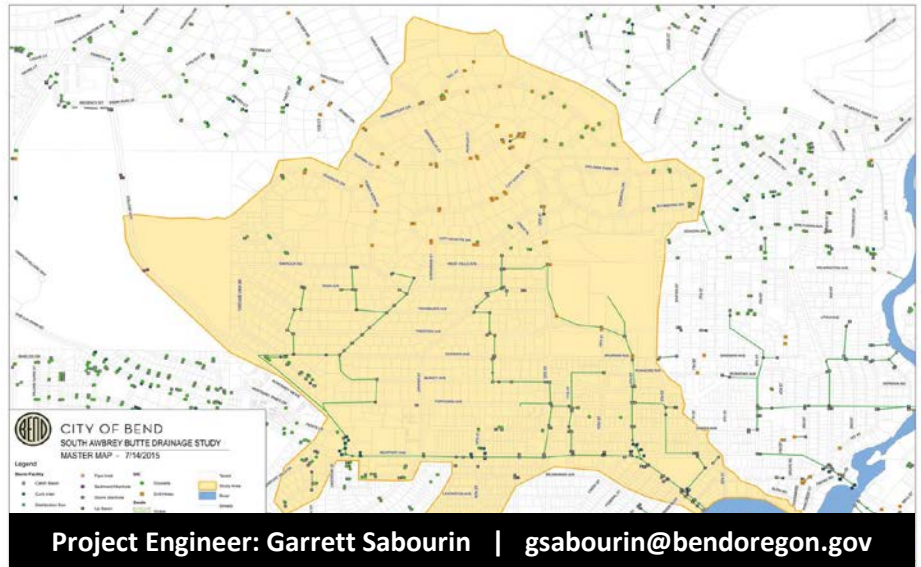
Status Update: Weather permitting, contractor planning to begin construction in December 2017 during the Bend La Pine School District winter break.

Cost Estimate Classification: 1



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

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.

Schedule

Start Date: 7/1/15
Substantial Completion: 05/26/2017
Final Closeout: 09/01/2017

Cost

Total Estimated: \$285,000
Spent to Date: \$195,873
% Spent to Estimated: 69%

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: Consultant submitted the draft improvement plan. The City will perform an internal review and incorporate comments.

Cost Estimate Classification: N/A



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 27th street between Neff and Reed Market Rd.

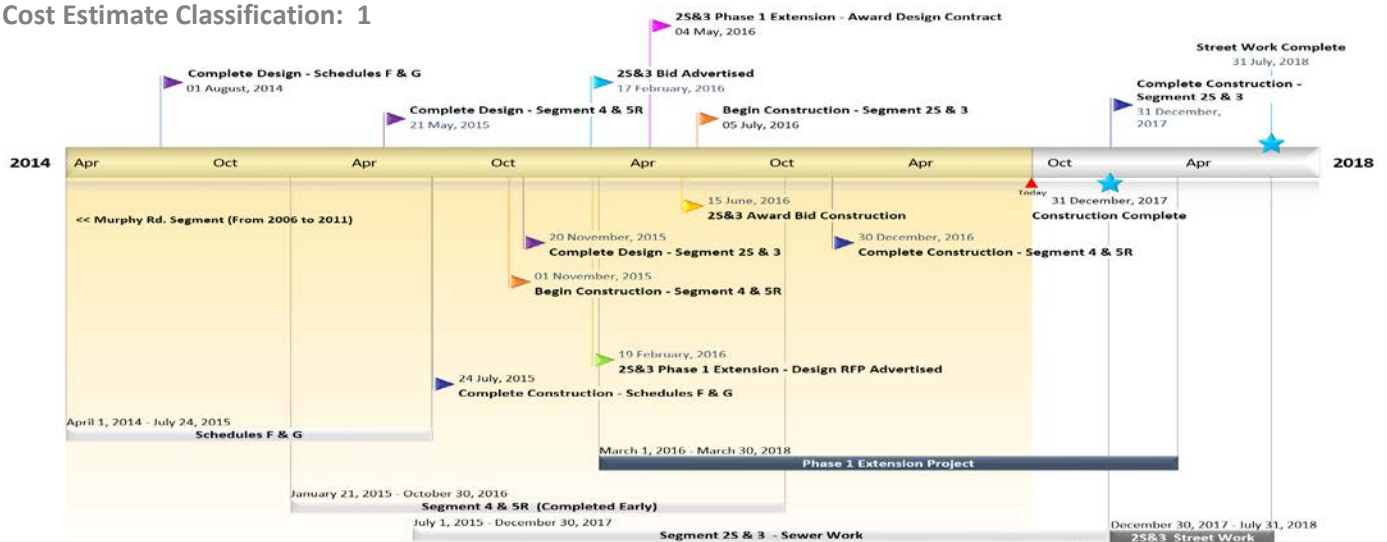


Project Engineer: Eric Forster | eforster@bendoregon.gov

Scope	Schedule	Cost															
Design and construction of gravity sewer, from South 3rd street to the Neff Road interim connection. Phase 1 Extension Project, approved in January 2016, adds approximately 3,000 feet of sewer main work.	Start Date: 7/1/2006 Sewer Completion: 12/31/2017 Street Completion: 7/31/2018 Final Closeout: 7/30/2019 <ul style="list-style-type: none"> Previous segments, as well as 4&5R, are complete. 	Total Estimated: \$72,000,000 Spent to Date: \$56,129,448 % Spent to Estimated: 78% <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>\$12,277,365</td> </tr> <tr> <td>2S&3</td> <td>\$31,500,000</td> <td>\$26,307,469</td> </tr> <tr> <td>P1EX</td> <td>\$10,500,000</td> <td>\$779,360</td> </tr> </tbody> </table>	Sub-Projects:	Est.	Spent	Previous	\$17,500,000	\$16,765,255	4&5R	\$12,500,000	\$12,277,365	2S&3	\$31,500,000	\$26,307,469	P1EX	\$10,500,000	\$779,360
Sub-Projects:	Est.	Spent															
Previous	\$17,500,000	\$16,765,255															
4&5R	\$12,500,000	\$12,277,365															
2S&3	\$31,500,000	\$26,307,469															
P1EX	\$10,500,000	\$779,360															
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: The 27th Street Sewer segment will be complete approximately 9 months ahead of schedule and currently trending under budget. Phase I Extension work has started. Expect road closures on Neff and Purcell in the coming months.

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.



Project Engineer: 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: 12/31/17
 Final Closeout: 12/31/18

Cost

Total Estimated: \$8,860,000*
 Spent to Date: \$2,220,506
 % Spent to Estimated: 25%
 * Includes street preservation work

Sub-Projects:	Est.	Spent
Force Main	\$4,450,000	\$1,048,284
Gravity	\$3,855,000	\$1,159,347
Lift Station	\$555,000	\$12,875

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

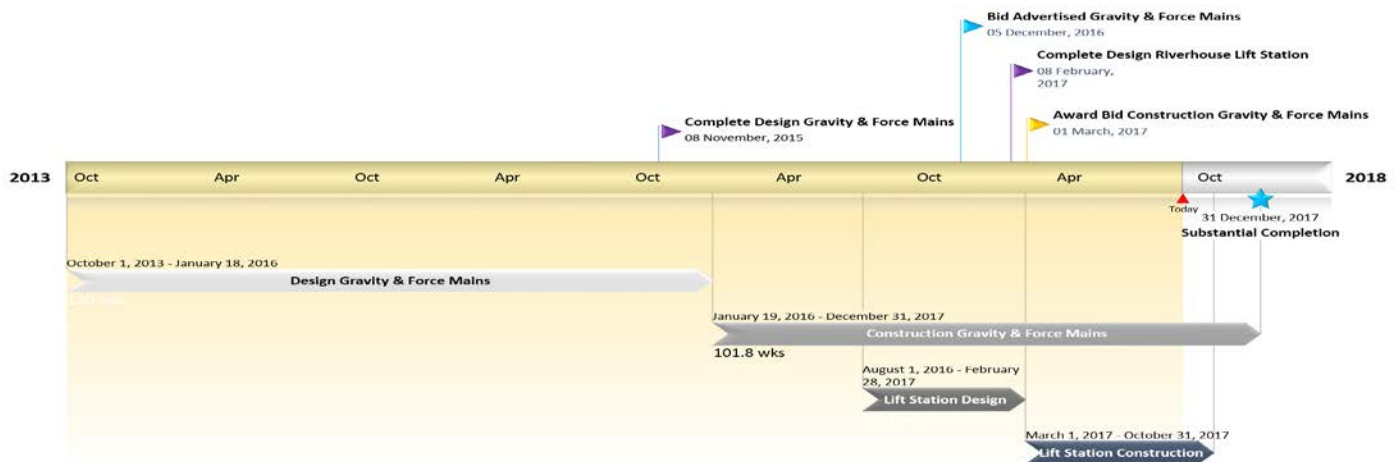
Adjustments: No change from prior month

Status: Potential Cost Increase

Adjustments: Fractured rock and rubble under Highway 97

Status Update: Construction of the Force Main is nearly complete with the crossing over the NUID canal completed and the crossing under the COID canal scheduled in October after irrigation flows are shut off for the year. Paving and striping of Butler Market Road is scheduled for completion in September. Construction of the Gravity Main continues with the advancement of the bore under Highway 97 and construction of the main on Nels Anderson Road.

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.



Project Engineer: 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: \$201,332 % Spent to Estimated: 7%
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: Project underway. Topographic survey 60% 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.

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 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.



Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

Scope

Rehabilitate all pipe segments and manholes with a Cured-In-Place Pipe (CIPP) liner, and replace the existing siphon junction box.

Schedule

Start Date: 3/1/2015
 Substantial Completion: 11/30/18
 Final Closeout: 11/30/19

Cost

Total Estimated: \$10,700,000
 Spent to Date: \$29,750
 % Spent to Estimated: 0.28%

Status: On Scope

Status: On Schedule

Status: On Budget

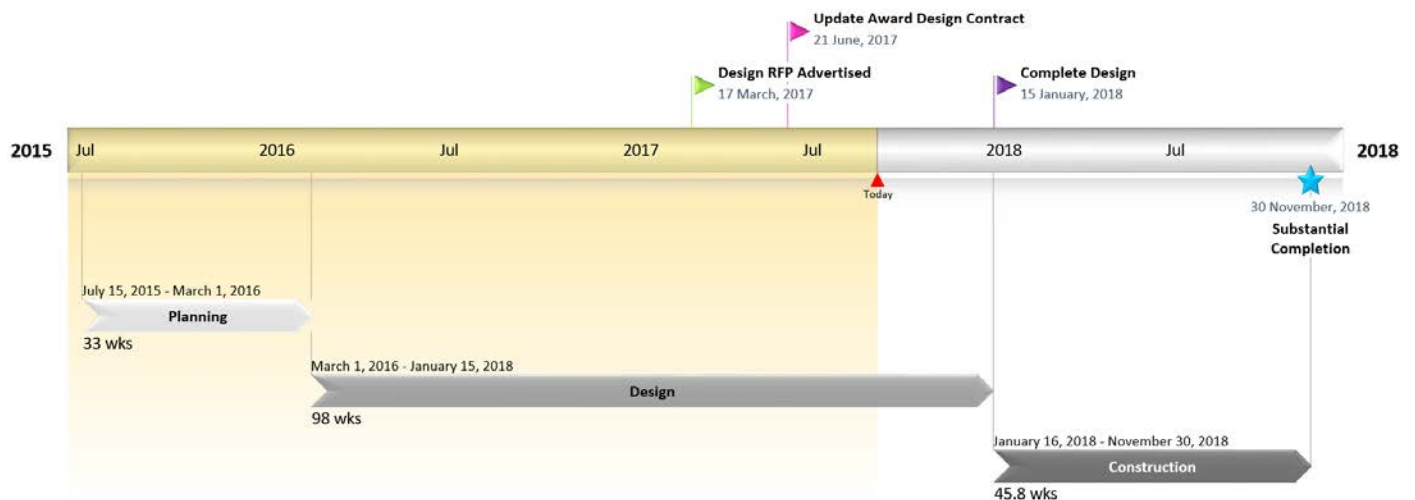
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

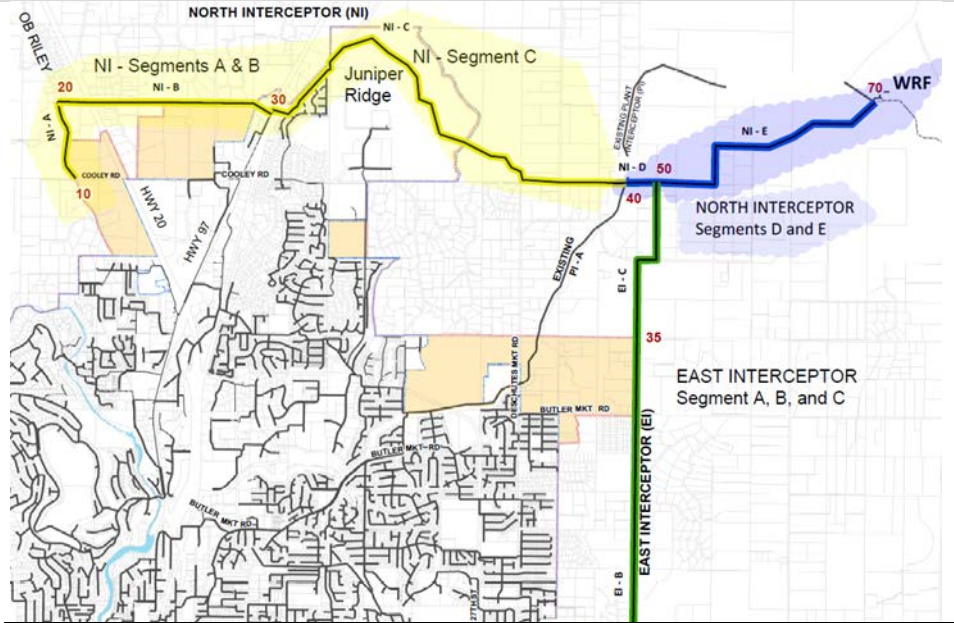
Status Update: Special Use permits have been applied for and are in review with the Bureau of Reclamation, Bureau of Land Management, and United States Forest Service. Field condition assessment was performed on the manholes to determine the structural condition. Design is progressing towards the 30% submittal.

Cost Estimate Classification: 5



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).



Project Engineer: Skip Martin | smartin@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: \$13,770
 % Spent to Estimated: 0.06%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

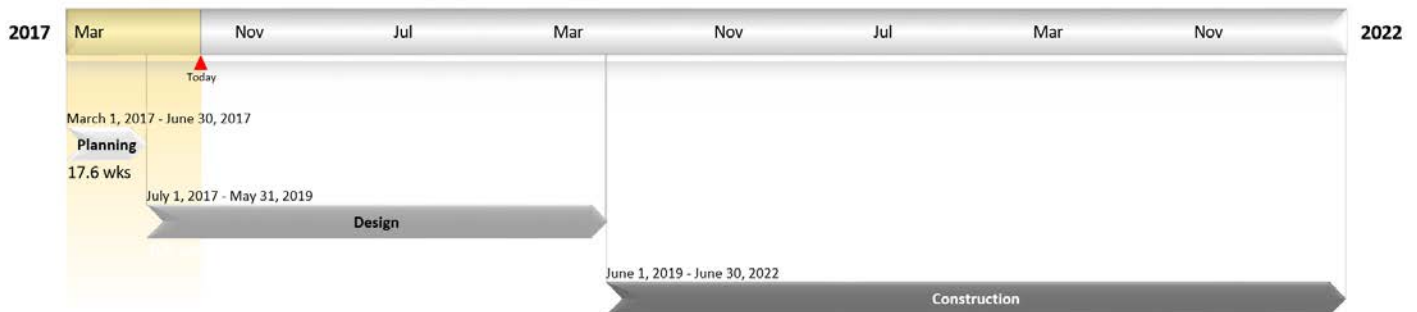
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

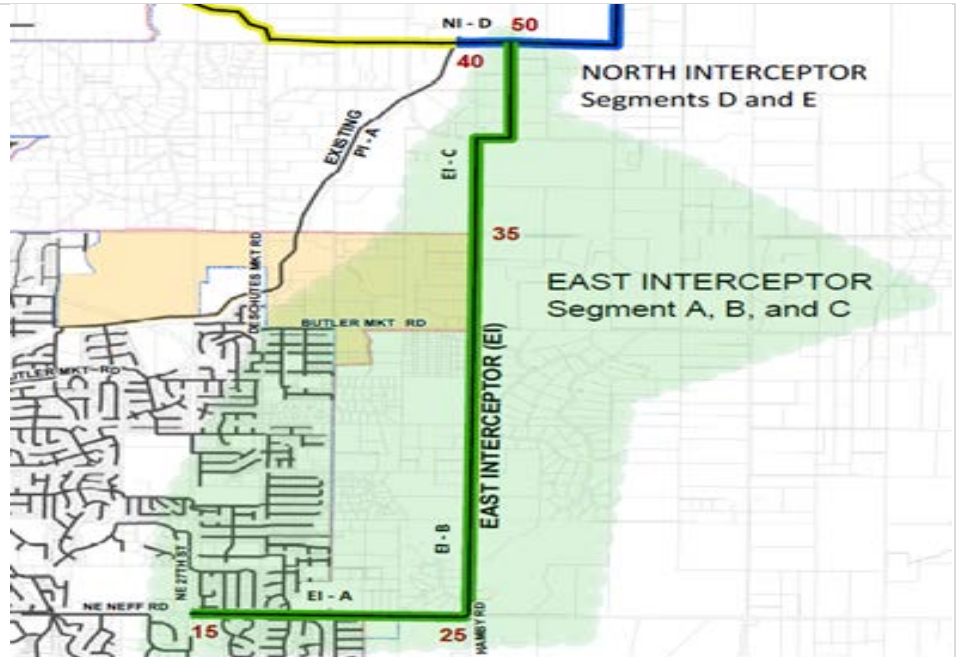
Status Update: Received ground survey and digital terrain model (DTM) for both North and East Interceptor alignments. Added it to Geographical Information System (GIS) data. Preparing State of Oregon Department of Environmental Quality (DEQ) Clean Water State Revolving Fund (CWSRF) loan application.

Cost Estimate Classification: 5



East Interceptor Project

Future Sewer Interceptor connecting with the SEI at Neff Rd and 27th 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.



Project Engineer: Skip Martin | smartin@bendoregon.gov

Scope

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

Schedule

Start Date: 3/1/17
 Substantial Completion: 12/31/2025
 Final Closeout: 12/31/2026

Cost

Total Estimated: \$21,000,000
 Spent to Date: \$13,770
 % Spent to Estimated: 0.07%

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: 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.

Cost Estimate Classification: 5



