

Monthly Report
April 2016



MONTHLY REPORT

April 2016 ISSUE 8

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FROM THE DIRECTOR

The Capital Improvement Program remains focused on sewer infrastructure with three major projects currently in construction and four more queuing up to begin in Summer 2016. One of the largest projects scheduled to begin this summer is the 27th Street Sewerline project. To get an understanding of the size and complexity of this project, take a look at page 14 of this report.

The 27th Street Sewerline is identified as Segment 2S&3 of the Southeast Interceptor project and runs approximately two miles down 27th Street between Medical Center Drive and Reed Market Road. Because of the size of this project, please plan for significant disruptions in the immediate area when construction begins in July. In addition to the regular project website updates, this May the City will embark on a public education campaign that details the project as well as the impacts to the community.

Every detour, road closure and traffic control change creates an inconvenience somewhere in the community. With many competing interests, my primary goals is to find a balance between the needs of all stakeholders. Every project is different and finding the balance can be extremely challenging at times. Staff is working hard to mitigate impacts as much as possible and we appreciate your patience during this time of busy construction.

Tom Hickmann PE EIPD Director 541 317-3029

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.

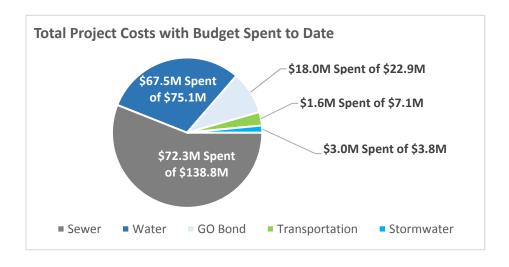
Executive Summary

CIP Numbers Snapshot

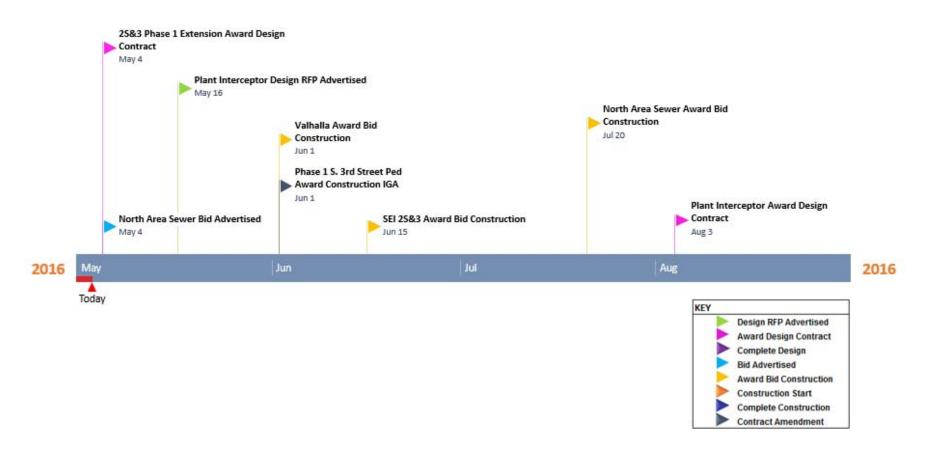
The table below shows the status of projects in the current CIP Plan as of March 31, 2016.

Status	CIP	R&R
Open (Active): In planning, design or construction phase	23	1
Substantially Complete (Active): Asset transferred to Operations and City has beneficial use	5	0
Closed (Not Active): Completed 1-2 yr. warranty; Cancelled; Transferred project to Ops	8	3
Pending (Not Active): Scheduled to start within 5-Year CIP Plan	26	41
Total	62	45

The graph below shows the total value of the active projects in the 5-year CIP Plan and total budgets spent to date. Repair and Replacement projects are not included.



EIPD Procurement Timeline



City of Bend 2016 - 2020 Capital Improvement Program Project List dget **Project Name & Number Estimated** Cost Total 2015-16 2016-17 2017-18 2018-19 2019-20 **Current 5-Year** Percent Budget **Project Total Project CIP Planned** Project Start Substantial Estimate Project Adopted Adopted **Proposed** Proposed **Proposed** Stage Spent to Date Spent Completion Classification **Budgeted** Budget **Budget** Budget **Budgets Budget Budget ADA Construction** 435.309 157,953 355,000 355,000 36% AA11FA South 3rd Street Pedestrian Improvements 2011 3/31/17 Design 3 AA14DA Summit Drive Curb Ramps 2015 10/9/15 Sub.Complete 1 910,000 900,320 393,000 393,000 99% 2016 250,000 0% AA16AA Citywide Accessibility Improvements 2017 Pending 5 350,000 100,000 350,000 4 **Total ADA Construction Projects** 1,695,309 1,058,273 848,000 250,000 1,098,000 **BURA - Murphy Crossing Construction** ST15MA Murphy & Parrell Roundabout 2015 7/29/16 Construction 1 1,800,038 210,540 1,755,022 - | -1,755,022 2 12% **Total BURA Projects** 1,800,038 210,540 1,755,022 1,755,022 **Transportation Construction** ST11GA Galveston Corridor Improvements 2011 2017 626,099 231,188 250,000 50,000 300,000 37% Design 5 ST14CA Sidewalk Design and Projects 2014 2018 1,396,097 32,306 350,000 970,000 20,000 1,340,000 2% Pending 5 ST14DA Neff and Purcell Sidewalks 2016 5 300,000 500,000 800,000 0% 2017 Pending 800,000 ST14EA Citywide Safety Improvements 2016 9/30/18 5 3.344.000 108.714 360.000 360.000 3% Design 2016 6/30/16 5 0% ST15NA Phase 2 South 3rd Street Striping Design 30,000 30,000 30,000 ST16AA Colorado Arizona Paving Project 2016 4/20/16 Construction 220,000 372,207 **Total Transportation Projects** 6,196,196 1,290,000 1,520,000 20,000 2,830,000 **GO Bond** ST12CB Empire/18th Roundabout 2012 10/15/15 Complete 1 2,647,809 2,645,834 10,200 10,200 100% 2012 20,000 100% ST12CC Simpson/Mt. Washington Roundabout 10/15/15 Complete 1 2,181,647 2,181,659 20,000 ST12CD Powers/Brookswood Roundabout 2012 10/15/15 Complete 1 2,147,600 2,147,703 1,000 1,000 100% ST12CE Reed Mkt: Newberry to 27th 2012 10/15/15 Sub.Complete 1 4,841,330 4,841,413 20,000 20,000 100% ST12CJ Reed Mkt: 3rd to Newberry 2012 11/13/15 Sub.Complete 1 14,145,450 13,128,438 4,234,610 4,234,610 93% 1,049,300 ST12CH 27th Street Reconstruction 2017 2017 Pending 5 1,049,300 1,049,300 0% 6,280 ST12CK 14th St. Reconstruction 2016 5 3,888,950 2,732,050 1,149,300 3,881,350 0.16% 2017 Design 30,902,086 24,951,327 7,017,860 2,198,600 **Total GO Bond Projects** 9,216,460 Water WA0902 Bridge Creek Intake and Pipeline 2008 73,954,698 67,549,360 6/30/16 1 17,713,500 17,713,500 3 91% Construction WA12AA 18th Street Waterline Extension (JR) 2012 460.000 460,000 5% 4/30/16 Pending 2 485,063 25,063 2016 6/30/16 N/A 60,000 578 60,000 1% WA15BA Water SDC Methodology Study Pending 60,000 WA15FA Firerock Bridge & Waterline Transferred 450,000 5 0% WA15GA South 3rd Street Pedestrian - Water portion 2017 3/31/17 70.000 70.000 70.000 0% Design

N/A

5

5

5

N/A

N/A

500,000

345,000

241,000

75,000

1,100,000

1,944,000

1,169,000

80,393,761

2016

2016

2020

2020

2020

2020

WA15HA Water Master Plan Update

WA15JA Phase 2 South 3rd St. - Water portion

WA16AA Westwood Reservoir Maintenance

WA20AX Awbrey Well Supply Expansion

WA20DX Valves Operational System Study

WA20BX Lafayette Pipe Enlargement

WA20CX College Parallel Pipe Study

Total Water Projects

6/30/16

6/30/16

2020

2020

2020

2020

Pending

Pending

Pending

Pending

Pending

Transferred

Design

67,575,000

500,000

1,100,000

19,903,500

0%

0%

0%

0%

0%

0%

0%

500,000

1,100,000

1,944,000

1,169,000

23,332,500

241,000

75,000

1,944,000

241,000

1,169,000

3.429.000

75,000

City of Bend 2016 - 2020 Capital Improvement Program Project List dget **Project Name & Number Estimated** Cost Total 2015-16 2016-17 2017-18 2018-19 2019-20 **Current 5-Year Project Total Project** Percent Budget **CIP Planned** Project Start Substantial Estimate Project Adopted Adopted **Proposed** Proposed **Proposed** Stage Spent to Date Spent Completion Classification **Budgeted** Budget **Budget Budget Budget Budget Budgets Sewer - Water Reclamation** 2009 12/30/17 49,835,881 39,304,965 6,148,000 1,102,000 7,250,000 SW0802 Secondary Expansion Construction 1 79% 10% SW14CA Headworks Upgrade 2016 10/1/17 Pending 1,720,492 176,018 1,000,000 1,000,000 1 2017 250,000 1,750,000 1,000,000 1,000,000 0% SW16AA Solids Handling (Secondary Expansion) 2020 Pending 1 4,000,000 4,000,000 2007 21,727,582 SW0707 Southeast Interceptor Phase 1 12/31/17 Construction 3 57,000,000 16,163,000 7,925,000 7,185,000 31,273,000 38% SW0707 SEI Phase II North 2020 2025 Pending 5 16,500,000 5,737,000 5,737,000 0% SW11BA Valhalla Sewer Relocation 2011 10/16/16 2 1,860,370 259,695 1,746,000 1,746,000 14% Design 104% 2012 12/30/14 Sub.Complete 5 3,791,557 3,939,647 506,000 SW12AA Collection System Master Plan Update 506,000 13% SW13DA North Area Sewer Capacity Improvements 2013 11/1/16 Design 2 6,547,522 828,160 5,909,300 5,909,300 45% SW13EA Colorado Pump Station and Sewer Mains 2013 1/10/17 13,620,132 6,140,469 11,321,400 11,321,400 Construction SW14BA Deschutes Brewery Sewer Cancelled 300,000 170,000 170,000 0% 2015 6/30/17 5 5,738,000 21.495 5,718,000 5,718,000 0.4% SW15AA Plant Interceptor Rehabilitation Planning SW15DA N.E. 2nd & Penn Sewer Line Realignment 2016 5/27/16 Design 2 300,000 20,854 100,000 200,000 300,000 7.0% 67% 2016 N/A 50,000 33,665 50,000 50,000 SW15GA Wood River Village Lift Station/Vacuum Evaluation 3/11/16 Design 2016 3/11/16 N/A 50.000 36.159 50.000 50.000 72% SW15IA Bend South Sewer Evaluation Design 2016 6/30/17 SW16DA Riverhouse Lift Station Hydraulic Upgrade **Planning** 5 SW15JA WRF Treatment Plant Upgrades 2016 Transferred 5 700,000 0% On-Going SW17AA WRF Facilities Plan Update 2018 2018 500,000 500,000 500,000 0% Pending 5 2018 581,000 581,000 0% 5 581,000 SW18BX Parallel Sewer on Olney Avenue 2018 Pending Pending 0% SW15KA WRF Evaporation Percolation Ponds 2019 2019 5 1,567,000 1,567,000 1,567,000 SW19AX Amethyst/Mahogany Street Sewer 2019 2019 Pending 5 679,000 679,000 679,000 0% 0% 2019 5 SW19BX Mahogany Street/Hwy 97 Sewer 2019 Pending 999,000 999,000 999,000 0% SW18AA WRF Support Facilities Upgrade 2020 2020 Pending 5 2,400,000 2,400,000 2,400,000 SW20AX Odor Control Master Plan 2020 2020 Pending 5 1,000,000 1,000,000 1,000,000 0% 2020 2020 5 700,000 700,000 0% SW20BX Sewer Storage - Land Acquisition Pending 700,000 2020 0% SW20EX Plant Interceptor Condition Assessment 2020 Pending 5 600,000 600,000 600,000 0% 2020 5 SW20FX Collection System Master Plan (Years 6-10) 2020 Pending 1,000,000 1,000,000 1,000,000 SW20GX Gravity Pipe Condition Assessment Improvements 2020 2020 Pending 5 200,000 200.000 200,000 0% **Total Water Reclamation (Sewer) Projects** 172,239,954 72,488,710 48,881,700 9,477,000 10,016,000 4,245,000 12,637,000 85,256,700 Stormwater SR0802 Drake and Dohema Pump Station 404.686 241.939 60% Transferred SR09AA Third Street Underpass 2009 10/30/15 Sub.Complete 2,999,008 2,964,938 55,000 55,000 99% 2016 6/30/16 Planning 5 400,000 400,000 400,000 0% SR14AA Phase 2 3rd Street - Stormwater portion 2016 12/26/16 5 250,000 518 150,000 100,000 250,000 0% SR15AA South Awbrey Butte Drainage Study Design 3 SR15BA South 3rd Street - Stormwater portion 2016 3/31/17 Design 150,000 150,000 150,000 0% SR15CA Newport Pipe Replacement Design 2018 2019 Pending 5 425,000 425.000 425,000 0%

Budget Revisions:

- 1 \$75,000 budget adjustment approved 11/18/2015
- 2 \$455,022 prior FY carryforward approved 11/18/2015
- 3 \$3,382,000 prior FY carryforward approved 11/18/2015
- 4 Project initiated early, moved \$100,000 to current FY 12/23/2015
- 5 -\$1,667,000 transferred to Utility Operations

Total Capital Improvement Program Projects

6 - \$360,000 Project Initiated

Total Stormwater Projects

3,207,395

169,863,451

755,000

80,451,082

100,000

10,036,000

13,545,600

425,000

4,670,000

16,066,000

1,280,000

124,768,682

4,628,694

297,856,038

Phase I - S. 3rd St. Pedestrian Improvements

Project is a collaboration with ODOT to provide continuous pedestrian facilities along the 3rd Street corridor between Wilson Avenue and Powers Road by repairing existing facilities that are either non-compliant or deteriorated. In addition, the project will also construct pedestrian facilities where none currently exist. The project is being coordinated with several other projects (water, stormwater, streets) within the corridor.



corridor.	,	
Scope	Schedule	Cost
Design, right of way acquisition, and construction of sidewalks, curb ramps that is coordinated with other infrastructure for water, stormwater, and streets. Stormwater scope increased to now include catch basin and drill hole vault replacement.	Start Date: 11/1/2011 Substantial Completion: 7/21/2017 Final Closeout: 7/21/2018	Total Estimated: \$655,309 Spent to Date: \$157,953 % Spent to Estimated: 24% Three Projects: ADA \$435,309, Water \$70,000, Stormwater \$150,000
Status: On Scope	Status: On Schedule	Status: Potential Cost Increase
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: Cost increase likely due to additional scope. Cost estimate will be updated upon design completion

Status Update: Contract with a construction management firm has been negotiated and submitted for authorization at ODOT. The final plan specification and estimates will be received on April 27.



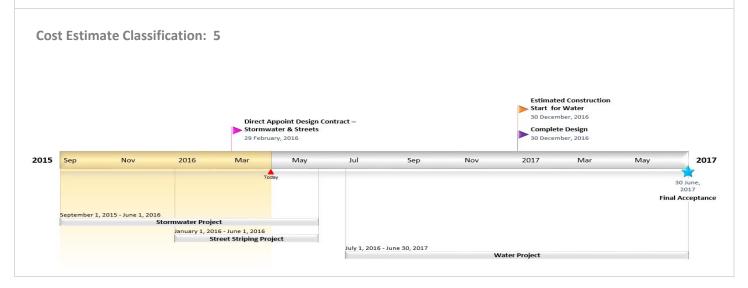
Phase 2 - S. 3rd Street Improvements

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: 6/30/2017 Final Closeout: 7/1/2018	Total Estimated: \$1,455,000 Spent to Date: \$0 % Spent to Estimated: 0% Three Projects: Water \$1,100,000, Stormwater \$325,000, Streets \$30,000
Status: On Scope	Status: On Schedule	Status: Cost Adjustment
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: Cost estimate decreased by \$75,000 due to reduction in scope

Status Update: Stormwater drill hole improvements are being made within the design plan set to replace all of the existing structures. Striping plans are being formulated and the base map survey data has been collected for the entire corridor.



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, as funding allows, in the Wells Acres, Bear Creek, Division, Downtown & Old Mill and Brookswood/Southwest neighborhoods.	Start Date: 3/1/16 Substantial Completion: 9/28/2018 Final Closeout: 09/28/2019	Total Estimated: Spent to Date: % Spent to Estimated:	\$750,000 \$0 0%
Status: On Scope	Status: On Schedule	Status: On Budget	
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No chan month	ge from prior

Status Update: Design contract going to Council April 20 for approval.

Cost Estimate Classification: 5 Design RFP 24 February, 2016 Award Design Contract Complete Design 20 April, 2016 31 May, 2017 2016 Feb Jun 2017 Jun 2018 2018 28 September, 2018 Substantial Completion February 1, 2016 - May 31, 2016 Planning 17.4 wks May 31, 2016 - May 31, 2017 52.4 wks June 1, 2017 - September 28, 2018 69.4 wks

Murphy & Parrell Roundabout

This project will finalize the extension of Murphy Road on the east side as a part of the Murphy Overcrossing Project and make the intersection safer for vehicles, pedestrians and bicycles.



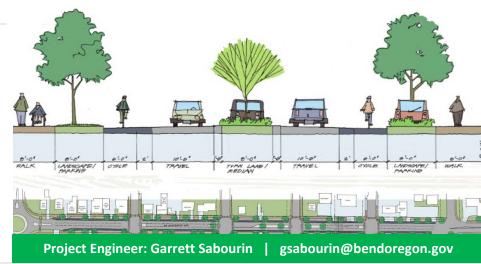
Scope	Schedule	Cost
Construct a portion of Segment 6 of the SE Interceptor. Construct a roundabout, landscaping, stormwater facilities, illumination, signs and striping to current City standards. Design was completed as part of the Murphy overpass and extension project.	Start Date: 5/1/2015 Substantial Completion: 7/29/2016 Final Closeout: 7/29/2019* * 1 Year warranty and 2 years additional for plant establishment	Total Estimated: \$2,000,000 Spent to Date: \$210,540 % 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: Sewerline installation complete in April. Ongoing franchise utility relocations. Stormwater infrastructure piping and inlets are starting to be installed. Intersection will be closed until substantial completion in July.

Cost Estimate Classification: 1 Award Bid Construction 03 November, 2015 Construction Start 11 January, 2016 2015 May Jul 2016 Sep Nov 2016 May 29 July, 2016 Substantial Completion May 1, 2015 - August 1, 2015 Planning 13.2 wks August 1, 2015 - October 31, 2015 13 wks November 1, 2015 - July 29, 2016 39 wks

Galveston Corridor Improvements

The project is the highest ranked Traffic Safety Advisory Committee (TSAC) arterial and collector street safety project to improve vehicle, bicycle, and pedestrian safety, access, and connectivity. It also continues the bike and pedestrian improvements on Galveston from 14th to Lindsey Ct. The project will improve bicycle and pedestrian safety, access, stormwater system, and parking.



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: \$2,700,000 Spent to Date: \$231,188* % Spent to Estimated: 9% * Includes planning. At 30% design cost estimates will be updated to account for water, stormwater and sewer utility projects.
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: Completed survey base mapping to show existing conditions on the project. Completed core sampling and deflection testing on the existing roadway surfaced.



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: \$3,344,000 Spent to Date: \$108,714 % Spent to Estimated: 3%
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: Neff and Williamson location is being designed now and will be constructed as part of Southeast Interceptor Phase 1 Extension project.

Cost Estimate Classification: 5



14th Street Reconstruction

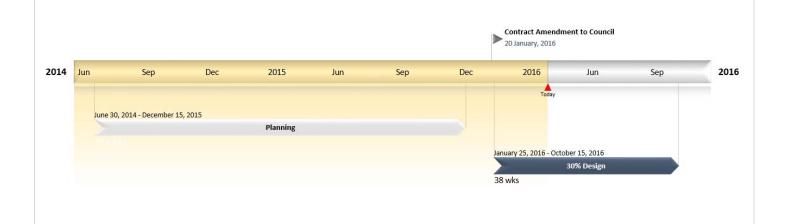
Improve safety of corridor from SW Colorado Avenue to NW Newport Avenue for all modes of transportation. Project is part of voter approved General Obligation Bond and will focus on an up updated roadway configuration to include surfacing, striping, bike lanes, sidewalks and streetscape. Design will attempt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



Scope	Schedule	Cost
Upgrade to City standard to include but not limited to: roadway, surface, curbs, sidewalks, and striping. Final scope to be determined at 30% concept level, but will include safety improvements for bicycles, pedestrians and vehicles.	Start Date: 06/30/2014 Substantial Completion: TBD Final Closeout: TBD	Total Estimated: \$3,888,950* Spent to Date: \$6,280 % Spent to Estimated: 0.16% *Corridor extension construction cost not included in Total Cost Estimate. At 30% design cost estimates will be updated to account for water, stormwater and sewer utility projects.
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: Completed survey base mapping to show existing conditions on the project. Completed core sampling and deflection testing on the existing roadway surfaced.





Bridge Creek Intake, Pipeline & Treatment

Replace pipeline to reduce risk of transmission main failure to secure a dual water supply source. Membrane treatment for surface water to meet federal treatment requirements to treat for Cryptosporidium will also protect Bend's surface water in the event of a fire in the watershed. Intake does not meet current building code, and lacks fish screens. New intake allows remote monitoring and operation of the facilities.

Cost Estimate Classification: 1



Scope	Schedule	Cost
Feasibility study of alternative water supplies; design and construction to replace transmission lines, intake, flow control, fish screens, membrane filtration, construction management, and inspection services. These costs also include all costs related to legal.	Start Date: 4/1/2008 Substantial Completion: 06/30/2016 Final Closeout: 06/30/2017	Total Estimated: \$73,954,698 Spent to Date: \$67,549,360 % Spent to Estimated: 91%
Status: On Scope	Status: Ahead of Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: Project completion estimated early May	Adjustments: No change from prior month

Status Update: Celebration for the Water Supply System completion on April 15.

Complete Construction - Pipeline 30 September, 2015 **Construction Start - Water Treatment** Complete Construction - Intake Facility 15 October, 2015 Complete 01 June, 2015 Complete Construction & Testing Construction Construction Start - Pipeli Construction Start - Intake Water Treatment Facility Intake 06 June, 2016 01 March, 2015 01 September, 2015 30 December, 2015 2015 Jan 2016 2016 May 31 December, 2015 06 June, 2016 WTF Final Acceptance **Substantial Completion** January 1, 2015 - October 31, 2015 < Delayed 2009 - 2015 Pipeline April 1, 2015 - November 30, 2015 July 1, 2015 - June 30, 2016 Intake

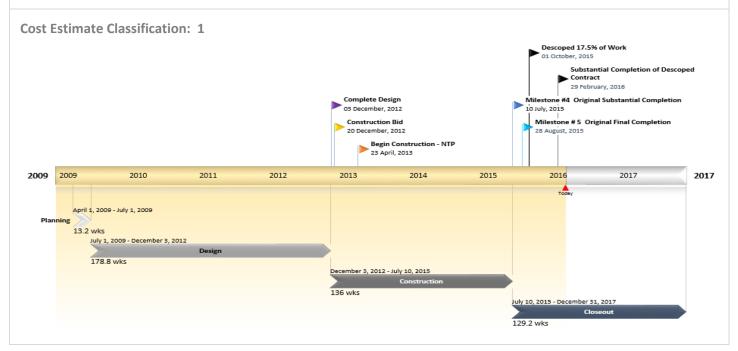
Water Rec. Facility Secondary Expansion

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 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
The project adds a primary clarifier, aeration basin, blower facilities, UV and sodium hypochlorite disinfection improvements, and various piping modifications.	Start Date: 4/1/2009 Substantial Completion: Feb. 2016* Final Closeout: Spring 2017* * Actual dates TBD	Total Estimated: \$60,000,000* Spent to Date: \$39,304,965 % Spent to Estimated: 66% *Includes Facilities Plan, pre-design, final design, services during construction, and construction.
Status: Reduced Scope	Status: Behind Schedule	Status: Potential Cost Increase
Adjustments: No change from prior month	Adjustments: Schedule revision is necessary due to change in scope and overall project delay.	Adjustments: Project cost increase likely. Cost estimate and budgets will be updated in Spring 2016.

Status Update: No change from prior month. Continue winding down on construction and demobilizing on-site contractors.



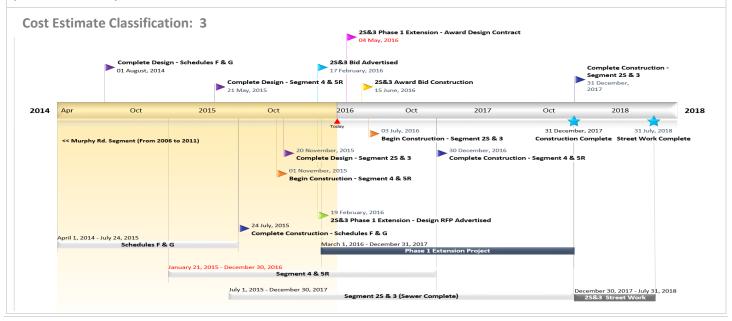
Southeast Interceptor Phase I

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.



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: 07/31/2018 Final Closeout: 7/30/2019	Total Estimated: \$68,000,000 Spent to Date: \$21,727,582 % Spent to Estimated: 36%
Status: Increased Scope	Status: On Schedule	Status: Cost Increase
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: Overall project cost estimates have increased \$8 million to include the Phase I Extension. Contract spending is within budget.

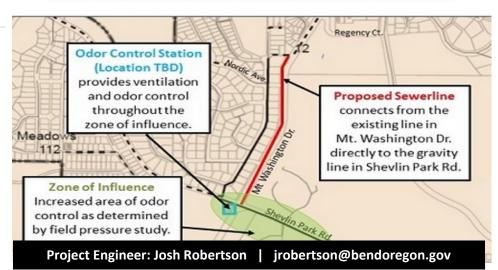
Status Update: Design contract for the Phase 1 Extension anticipated in early May and the 27th Street construction contract anticipated mid-June with construction on 27th Street is scheduled to begin in July. Informational video posted to the City of Bend Facebook website.



Valhalla Odor Control & Sewer Relocation

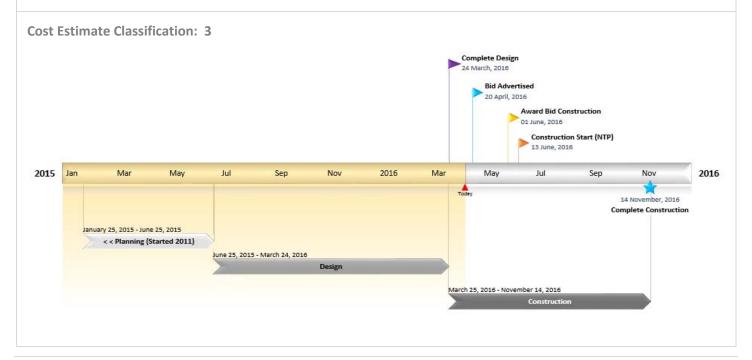
The Awbrey Glen lift station currently pumps into the sewage collections system located within the Valhalla neighborhood. A large wet well and long force main causes odorous air discharge. The project will mitigate odor and capacity issues in the neighborhood. This will eliminate neighborhood complaints and allow for the sewage pump station to run more efficiently reducing staff time and operating costs.

PROPOSED SEWER IMPROVEMENT PROJECT MAP



Scope	Schedule	Cost
Design and construction of a sewer main to direct sewage around the Valhalla neighborhood and install new odor control systems. Project includes paving restoration.	Start Date: 1/24/11 Substantial Completion: 11/14/2016 Final Closeout: 11/14/2017	Total Estimated: \$1,860,370 Spent to Date: \$259,695 % Spent to Estimated: 14%
Status: On Scope	Status: On Schedule	Status: Potential Cost Increase
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: Project cost increase likely due to changes in scope and schedule. Cost estimate and budgets will be updated after bid closes.

Status Update: Construction bid advertised April 20 with construction scheduled to begin June 13.



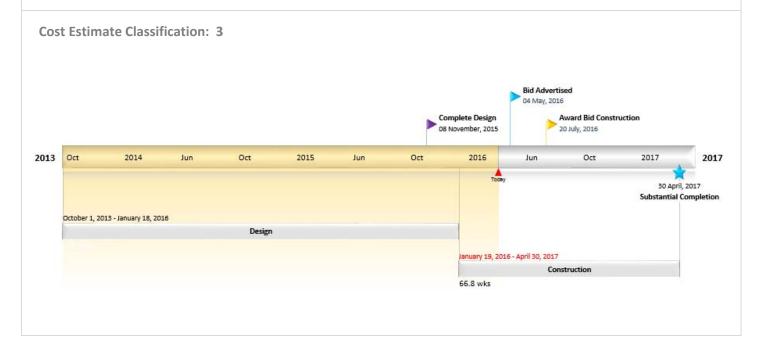
North Area Sewer Capacity Improvements

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: 4/30/2017 Final Closeout: 4/30/2018	Total Estimated: \$6,547,522 Spent to Date: \$828,160 % Spent to Estimated: 13%
Status: On Scope	Status: Behind Schedule	Status: Potential Budget Adjustment
Adjustments: No change from prior month	Adjustments: Substantial completion date adjusted, see update below.	Adjustments: No change from prior month

Status Update: Schedule to advertise for bid on May 4 provided easement negotiations and irrigation district permits are complete. Construction timeline extended to accommodate paving in March and April 2017 due to seasonal restrictions.



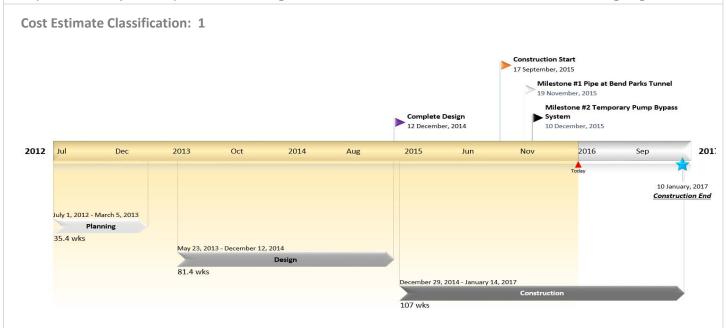
Colorado Pump Station and Sewer Mains

This project includes the design and construction of a new lift station and new gravity and force mains to divert flows from the existing Columbia Street sewer line to an existing trunk line east of the Deschutes River. This new lift station will provide service to future developments on the City's west side, allows decommissioning of an aging sewer lift station with access, capacity, and odor issue, and defer capacity-related improvements at Westside Lift Station.



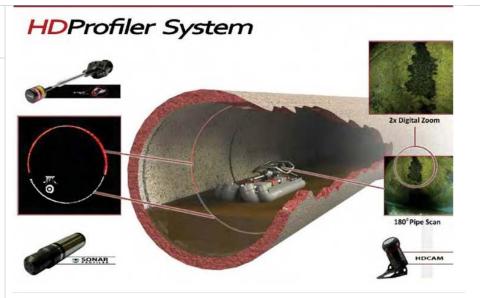
Scope	Schedule	Cost
Analysis of service area, flows, capacities, alternatives for pump station sizing, siting, and pipeline route; design and construction of pump station, odor control facility, and gravity and force mains; decommissioning pump station.	Start Date: 2/1/2013 Substantial Completion: 01/10/2017 Final Closeout: 01/10/2018	Total Estimated: \$13,620,132 Spent to Date: \$6,140,469 % Spent to Estimated: 45%
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: Concrete is complete for the sub-grade walls and installation of the force main pipeline is complete on Arizona Avenue with installation of cleanout structures proceeding in localized areas. Colorado Bridge work is nearly complete with only landscape work remaining. Work on the sewer mains on Shevlin Hixon Drive is ongoing.



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.

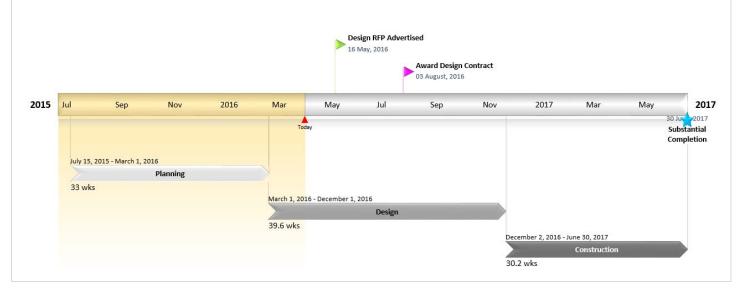


Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

Scope	Schedule	Cost
Rehabilitate all Pipeline Assessment Certification Program (PACP) graded 4 and 5 pipe segments with a Cured- In-Place Pipe (CIPP) liner, replace the existing siphon junction box, and clean the double barreled siphons.	Start Date: 3/1/2015 Substantial Completion: 6/30/2017 Final Closeout: 6/30/2018	Total Estimated: \$5,738,000 Spent to Date: \$21,495 % Spent to Estimated: 0.37%
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

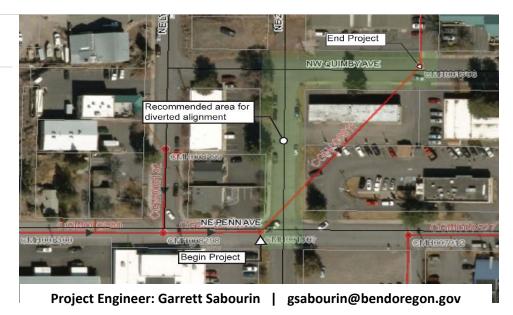
Status Update: Completing the archaeological impact statement (CWSRF loan requirements). Timeline for design and construction phases will be updated when design contract is awarded in June.

Cost Estimate Classification: 5



NE 2nd & Penn Sewer Line Realignment

The sewer main of interest currently intersects two (2) private property parcels and exceeds the hydraulic requirements for the serviced catchment area. The purpose of this project is to design an alternate route, within the City of Bend Right of Way which meets current standards.



month

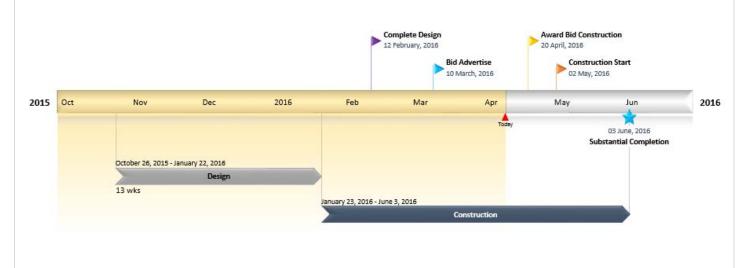
Scope	Schedule	Cost
Design and construct a section of gravity sewer main to provide an alternative conveyance route within the City of Bend Right of Way.	Start Date: 11/18/2015 Substantial Completion: 6/3/2016 Final Closeout: 6/3/2017	Total Estimated: \$300,000 Spent to Date: \$20,854 % Spent to Estimated: 7%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: No change from prior	Adjustments: No change from prior	Adjustments: No change from prior

Status Update: Invitation to bid closed and issued notice of intent to award. Contract on consent agenda April 20 for Council approval.

month

Cost Estimate Classification: 2

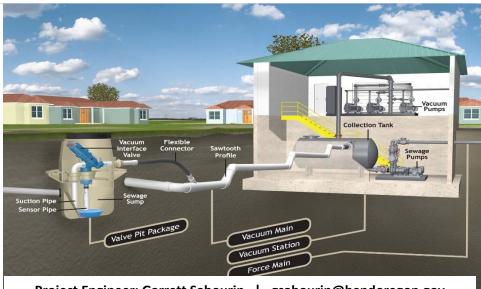
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Wood River Village Lift Station & Vacuum Eval.

Evaluate existing system conditions in order to determine existing and future capacity as well as future development potential within the area.

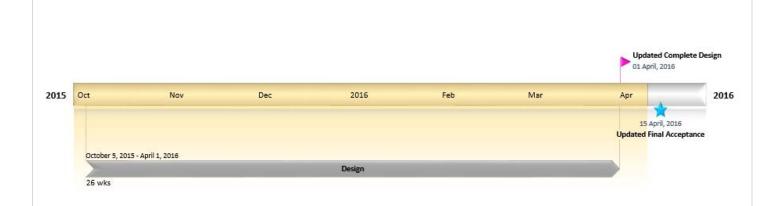
Cost Estimate Classification: N/A



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

Scope	Schedule	Cost
Complete a sewer system analysis and develop three (3) preliminary design solutions for a longstanding replacement and/or upgrade to the Wood River Village development's collection system.	Start Date: 9/1/2015 Substantial Completion: 4/1/2016 Final Closeout: 4/1/2016	Total Estimated: \$50,000 Spent to Date: \$33,665 % Spent to Estimated: 67%
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 in final closeout phase. Final deliverable received and will be presented April 25. This is the last month this will be included in the monthly report.



Bend South Sewer Evaluation

Evaluate existing system locations and conditions in order to determine existing and future capacity as well as future development potential within the area. This is part of the former Juniper Utility.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

Scope	Schedule	Cost
Complete a sewer system analysis and develop three (3) preliminary design solutions for a longstanding replacement and/or upgrade to the Bend South development's collection system.	Start Date: 10/05/2105 Substantial Completion: 4/1/2016 Final Closeout: 4/1/2016	Total Estimated: \$50,000 Spent to Date: \$36,159 % Spent to Estimated: 72%
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 in final closeout phase. Final deliverable received and will be presented April 25. This is the last month this will be included in the monthly report.

Cost Estimate Classification: 5



Riverhouse Lift Station Hydraulic Upgrade

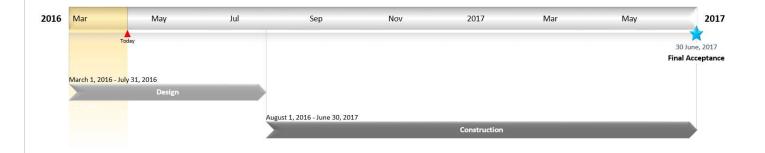
This project was identified in the Collection System Master Plan as a project to be partially funded by the hotel/developer. The City received an in-lieu of payment from the developer to complete the work of downsizing the mechanical pump components to match required capacity for peak we-weather flow and will coordinate the work in conjunction with the North Area Sewer Capacity Improvements project.



Scope	Schedule	Cost	
Downsize of mechanical pumping	Start Date: 2/25/2016	Total Estimated:	\$500,000
and/or electrical components to decrease hydraulic capacity to closer	Substantial Completion: 6/30/2017	Spent to Date:	\$0
to required capacity. Rehabilitation	Final Closeout: 6/30/2018	% Spent to Estimated:	0%
and, where required, replacement of			
deteriorating lift station components			
where O&M Department condition assessment indicated poor condition:			
wet well, pumps, motors and			
electrical equipment			

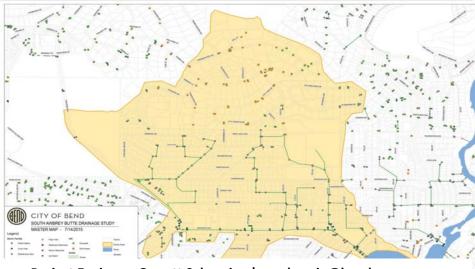
Cost Estimate Classification: 5

Status Update: Project initiated



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.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

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 Storm Sewer Line.	Start Date: 7/1/15 Substantial Completion: 12/26/2016 Final Closeout: 01/02/2017	Total Estimated: \$250,000 Spent to Date: \$518 % Spent to Estimated: 0.21%
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 contract going for Council approval April 20.

Cost Estimate Classification: 5

