



ENGINEERING

Monthly Update
October 2015

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FROM THE DIRECTOR

Thank you to everyone who provided feedback on the first edition of the Engineering Monthly Report. We have taken your feedback, including the comments received from the October 7th City Council Work Session, and incorporated it into this report. You will see:

- Monthly changes to scope, schedule or budget reported in red;
- The Project Engineer’s name and contact information added to the project cut sheets;
- Refined project descriptions with significant changes from September reported in red.

With so many City projects happening concurrently, there has been a lot of media attention; much of it favorable. It takes a collaborative effort to complete these projects. We want to acknowledge the support we receive on our projects, from the people answering the phones to the City Council who approve design and budgets on our projects. Our collective accomplishments this month include:

- The opening of Reed Market Road which provides our community with safety improvements, reduced congestion, new stormwater facilities and many other road improvements.
- Murphy Extension opened early October concluding the partnership between the City and ODOT on the Murphy Road corridor improvement project.
- Completion of the accessibility upgrades on NW Summit Drive that added 91 ADA curb ramps and a 2.2 mile accessible pedestrian corridor.

As we complete the Murphy Road extension and the Reed Market corridor projects, we will initiate projects that are in the approved Capital Improvement Program. The Executive Summary highlights these changes to the CIP.

Tom Hickmann PE
EIPD Director
541 317-3029

Executive Summary

CIP Snapshot

During the month of September no new projects were started and no projects were completed*.

Status	CIP	R&R
Open – Planning, Design, Construction	22	1
Substantially Complete – Minor budgets required	6	-
Final Closeout – No financial obligation, complete or cancelled	2	3
Pending – Projected scheduled to start within the next 5 years	29	41
Total	59	45

*Completed projects are projects that have been closed out, which is at the end of the warranty period. This is typically one to two years after construction was completed.

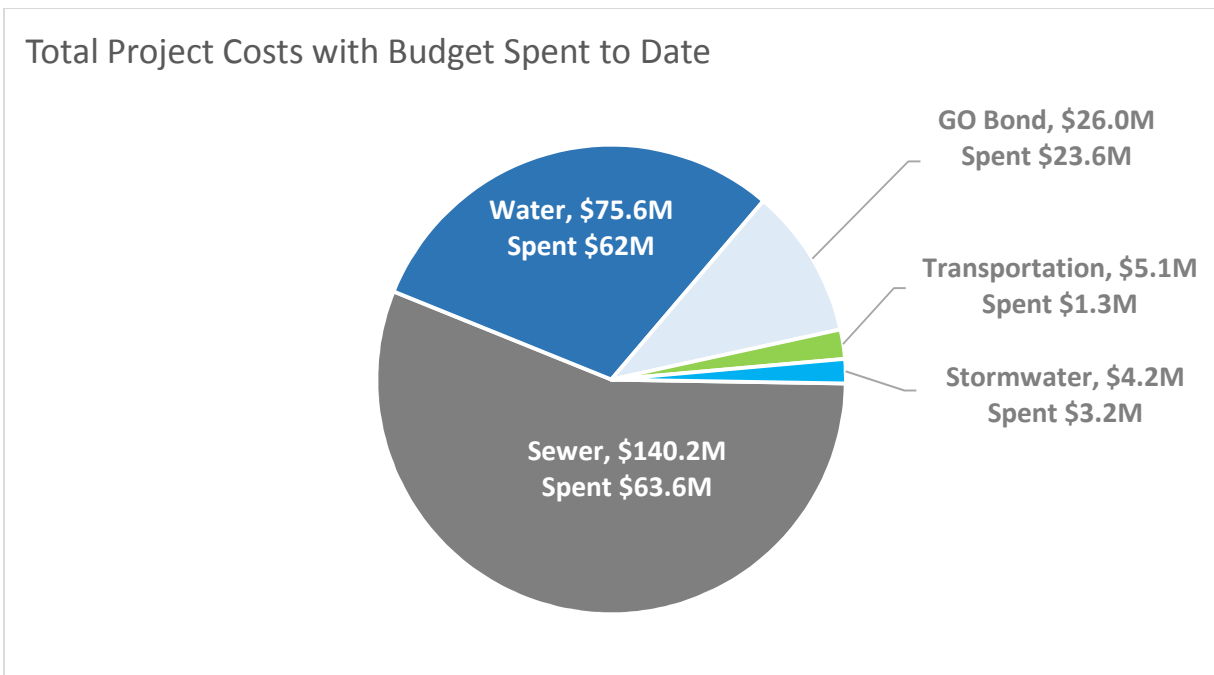
Upcoming

In October the Summit Drive Curb Ramps Project will move from the construction stage to the substantially complete stage with no additional work anticipated. This is the final report to include a cut sheet on this project.

This month we will also preparing the bid package for the Murphy Parrell Roundabout Project and hope to have it ready for Council approval in late November. In December, we will bring contract amendments for the design of both the 14th Street Reconstruction Project and the Galveston Corridor Improvement Project.

Active Project Cost

The graph below shows the total value of the 30 active projects in the CIP and budget spent to date.



City of Bend 2016 - 2020 Capital Improvement Program Project List

Project Name & Number	Project Start	Estimated Completion	Project Statge	Cost Estimate Classification	Total Project Budget	Total Project Spent to Date	2015-16 Adopted Budget	2016-17 Adopted Budget	2017-18 Proposed Budget	2018-19 Proposed Budget	2019-20 Proposed Budget	Current 5-Year CIP Planned Budgets	2021 and Beyond Proposed Budget	Percent Budget Spent
ADA Construction														
AA11FA South 3rd Street Pedestrian Improvements	2011	3/31/17	Design	4	435,309	196,067	355,000	-	-	-	-	355,000	-	45%
AA14DA Summit Drive Curb Ramps	2015	10/9/15	Sub.Complete	1	835,000	846,785	318,000	-	-	-	-	318,000	-	101%
AA17XX Future ADA Projects **	2017	TBD	Pending	5	350,000	-	-	350,000	-	-	-	350,000	-	0%
Total ADA Construction Projects					1,620,309	1,042,852	673,000	350,000	-	-	-	1,023,000	-	
BURA - Murphy Crossing Construction														
ST15MA Murphy & Parrell Roundabout	2015	7/15/16	Design	2	1,777,000	35,158	1,300,000	-	-	-	-	1,300,000	-	2%
Total BURA Murphy Crossing Construction Projects					1,777,000	35,158	1,300,000	-	-	-	-	1,300,000	-	
Transportation														
ST11GA Galveston Corridor Improvements	2011	5/30/17	Planning	5	626,099	231,188	250,000	50,000	-	-	-	300,000	-	37%
ST14CA Sidewalk Design and Projects	2014	6/30/18	Planning	5	1,396,097	32,306	350,000	970,000	20,000	-	-	1,340,000	-	2%
ST14DA Neff and Purcell Sidewalks	2016	6/30/17	Pending	5	800,000	-	300,000	500,000	-	-	-	800,000	-	0%
ST15NA Phase 2 South 3rd Street Striping	2016	6/1/16	Design	5	30,000	-	30,000	-	-	-	-	30,000	-	0%
Total Transportation Projects					2,852,196	263,494	930,000	1,520,000	20,000	-	-	2,470,000	-	
GO Bond														
ST12CB Empire/18th Roundabout	2012	10/15/15	Sub.Complete	1	2,647,809	2,640,260	10,200	-	-	-	-	10,200	-	100%
ST12CC Simpson/Mt. Washington Roundabout	2012	10/15/15	Sub.Complete	1	2,181,647	2,167,650	20,000	-	-	-	-	20,000	-	99%
ST12CD Powers/Brookwood Roundabout	2012	10/15/15	Sub.Complete	1	2,147,600	2,146,000	1,000	-	-	-	-	1,000	-	100%
ST12CE Reed Mkt: Newberry to 27th	2012	10/15/16	Sub.Complete	1	4,841,330	4,820,519	20,000	-	-	-	-	20,000	-	100%
ST12CJ Reed Mkt: 3rd to Newberry	2012	11/13/15	Construction	1	14,145,450	11,859,421	4,234,610	-	-	-	-	4,234,610	-	84%
ST12CH 27th Street Reconstruction	2017	2017	Pending	5	1,049,300	-	-	1,049,300	-	-	-	1,049,300	-	0%
ST12CK 14th St. Reconstruction	2106	2017	Pending	5	3,888,950	-	2,732,050	1,149,300	-	-	-	3,881,350	-	0%
Total GO Bond Projects					30,902,086	23,633,850	7,017,860	2,198,600	-	-	-	9,216,460	-	
Water														
WA0902 Bridge Creek Intake and Pipeline	2008	12/31/15	Construction	1	73,954,698	62,030,790	14,331,500	-	-	-	-	14,331,500	-	84%
WA12AA 18th Street Waterline Extension (JR)	2012	4/30/16	Pending	2	485,063	25,063	460,000	-	-	-	-	460,000	-	5%
WA15BA Water SDC Methodology Study	2016	6/30/16	Pending	N/A	60,000	578	60,000	-	-	-	-	60,000	-	1%
WA15FA Firerock Bridge & Waterline	2016	6/30/17	Pending	5	450,000	-	50,000	400,000	-	-	-	450,000	-	0%
WA15GA South 3rd Street Pedestrian - Water portion	2017	3/31/17	Design	4	70,000	-	70,000	-	-	-	-	70,000	-	0%
WA15HA Water Master Plan Update	2016	6/30/16	Pending	N/A	500,000	-	500,000	-	-	-	-	500,000	-	0%
WA15JA Phase 2 South 3rd St. - Water portion	2016	3/1/16	Design	5	1,100,000	-	1,100,000	-	-	-	-	1,100,000	-	0%
WA16AA Westwood Reservoir Maintenance	2016	4/30/16	Cancelled	5	345,000	-	345,000	-	-	-	-	345,000	-	0%
WA20AX Awbrey Well Supply Expansion	2020	2020	Pending	5	1,944,000	-	-	-	-	-	1,944,000	1,944,000	-	0%
WA20BX Lafayette Pipe Enlargement	2020	2020	Pending	5	241,000	-	-	-	-	-	241,000	241,000	-	0%
WA20CX College Parallel Pipe Study	2020	2020	Pending	N/A	1,169,000	-	-	-	-	-	1,169,000	1,169,000	-	0%
WA20DX Valves Operational System Study	2020	2020	Pending	N/A	75,000	-	-	-	-	-	75,000	75,000	-	0%
Total Water Projects					80,393,761	62,056,430	16,916,500	400,000	-	-	3,429,000	20,745,500	-	

City of Bend 2016 - 2020 Capital Improvement Program Project List

Project Name & Number	Project Start	Estimated Completion	Project Statge	Cost Estimate Classification	Total Project Budget	Total Project Spent to Date	2015-16 Adopted Budget	2016-17 Adopted Budget	2017-18 Proposed Budget	2018-19 Proposed Budget	2019-20 Proposed Budget	Current 5-Year CIP Planned Budgets	2021 and Beyond Proposed Budget	Percent Budget Spent
Sewer - Water Reclamation														
SW0802 Secondary Expansion	2009	12/30/18	Construction	1	49,835,881	37,680,456	6,148,000	1,102,000	-	-	-	7,250,000		76%
SW14CA Headworks Upgrade	2016	10/1/17	Pending	1	1,720,492	172,862	1,000,000	-	-	-	-	1,000,000		10%
SW16AA Solids Handling (Secondary Expansion)	2017	2020	Pending	1	4,000,000	-	-	250,000	1,750,000	1,000,000	1,000,000	4,000,000		0%
SW0707 Southeast Interceptor Project	2007	2018	Construction	3	57,000,000	18,900,399	16,163,000	7,925,000	7,185,000	-	-	31,273,000		33%
SW0707 SEI Phase II North Medical Center to Deschutes Market Rd.	2020	2025	Pending	5	16,500,000	-	-	-	-	-	5,737,000	5,737,000		0%
SW11BA Valhalla Sewer Relocation	2011	10/31/17	Design	3	1,860,370	131,556	1,746,000	-	-	-	-	1,746,000		7%
SW12AA Collection System Master Plan Update	2012	12/30/15	Sub.Complete	5	3,791,557	3,770,757	506,000	-	-	-	-	506,000		99%
SW13DA North Area Sewer Capacity Improvements	2013	11/1/17	Design	3	6,547,522	676,732	5,909,300	-	-	-	-	5,909,300		10%
SW13EA Colorado Pump Station and Sewer Mains	2013	12/30/17	Design	1	13,620,132	2,231,663	11,321,400	-	-	-	-	11,321,400		16%
SW14BA Deschutes Brewery Sewer	2016	7/1/15	Complete	1	300,000	-	170,000	-	-	-	-	170,000		0%
SW15AA Plant Interceptor Rehabilitation	2015	12/31/16	Planning	5	5,738,000	20,955	5,718,000	-	-	-	-	5,718,000		0.4%
SW15DA N.E. 2nd & Penn Sewer Line Realignment	2016	12/31/15	Pending	4	300,000	-	100,000	200,000	-	-	-	300,000		0%
SW15GA Wood River Village Lift Station/Vacuum Evaluation	2016	2/28/16	Planning	N/A	50,000	-	50,000	-	-	-	-	50,000		0%
SW15IA Bend South Sewer Evaluation	2016	2/28/16	Planning	N/A	50,000	-	50,000	-	-	-	-	50,000		0%
SW15JA WRF Treatment Plant Upgrades	2016	On-Going	Pending	5	700,000	-	100,000	100,000	100,000	200,000	200,000	700,000		0%
SW17AA WRF Facilities Plan Update	2018	2018	Pending	5	500,000	-	-	-	500,000	-	-	500,000		0%
SW18BX Parallel Sewer on Olney Avenue	2018	2018	Pending	5	581,000	-	-	-	581,000	-	-	581,000		0%
SW15KA WRF Evaporation Percolation Ponds	2019	2019	Pending	5	1,567,000	-	-	-	-	1,567,000	-	1,567,000		0%
SW19AX Amethyst/Mahogany Street Sewer	2019	2019	Pending	5	679,000	-	-	-	-	679,000	-	679,000		0%
SW19BX Mahogany Street/Hwy 97 Sewer	2019	2019	Pending	5	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		0%
SW20AX Odor Control Master Plan	2020	2020	Pending	5	1,000,000	-	-	-	-	-	1,000,000	1,000,000		0%
SW20BX Sewer Storage - Land Acquisition	2020	2020	Pending	5	700,000	-	-	-	-	-	700,000	700,000		0%
SW20EX Plant Interceptor Condition Assessment	2020	2020	Pending	5	600,000	-	-	-	-	-	600,000	600,000		0%
SW20FX Collection System Master Plan (Years 6-10)	2020	2020	Pending	5	1,000,000	-	-	-	-	-	1,000,000	1,000,000		0%
SW20GX Gravity Pipe Condition Assessment	2020	2020	Pending	5	200,000	-	-	-	-	-	200,000	200,000		0%
Total Water Reclamation (Sewer) Projects					172,239,954	63,585,379	48,981,700	9,577,000	10,116,000	4,445,000	12,837,000	85,956,700		
Stormwater														
SR0802 Drake and Dohema Pump Station	2008	4/15/17	Construction	1	404,686	217,686	172,000	-	-	-	-	172,000		54%
SR09AA Third Street Underpass	2009	10/30/16	Sub.Complete	1	2,999,008	2,964,759	55,000	-	-	-	-	55,000		99%
SR14AA Phase 2 3rd Street - Stormwater portion	2016	3/30/16	Planning	5	400,000	-	400,000	-	-	-	-	400,000		0%
SR15AA South Awbrey Butte Drainage Study (formerly Butte & Hillside)	2016	10/1/16	Planning	N/A	250,000	-	150,000	100,000	-	-	-	250,000		0%
SR15BA South 3rd Street - Stormwater portion	2016	3/31/16	Design	4	150,000	-	150,000	-	-	-	-	150,000		0%
SR15CA Newport Pipe Replacement Design	2018	2019	Pending	5	425,000	-	-	-	-	425,000	-	425,000		0%
Total Stormwater Projects					4,628,694	3,182,445	927,000	100,000	-	425,000	-	1,452,000		
Total Capital Improvement Program Projects					294,414,000	153,799,608	76,746,060	14,145,600	10,136,000	4,870,000	16,266,000	122,163,660		

Blue highlights indicate projects with detail project sheets.

Phase I - S. 3rd St. Pedestrian Improvements

Project will 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.



Non-Compliant Curb Ramps

Discontinuous Sidewalks

Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

Scope

Design, right of way acquisition, and construction of sidewalks, curb ramps that is coordinated with other infrastructure for water, stormwater, and streets. April 2015 reduction in scope decreased construction duration by approximately 25%.

Schedule

Start Date: 11/1/2011
 Substantial Completion: 3/31/2017
 Final Closeout: 3/31/2017

Cost

Total Estimated: \$655,309
 Spent to Date: \$196,067
 Percent Spent: 30%
 Three Projects: ADA \$435,309, Water \$70,000, Stormwater \$150,000

Status: On Scope

Status: On Schedule

Status: On Budget

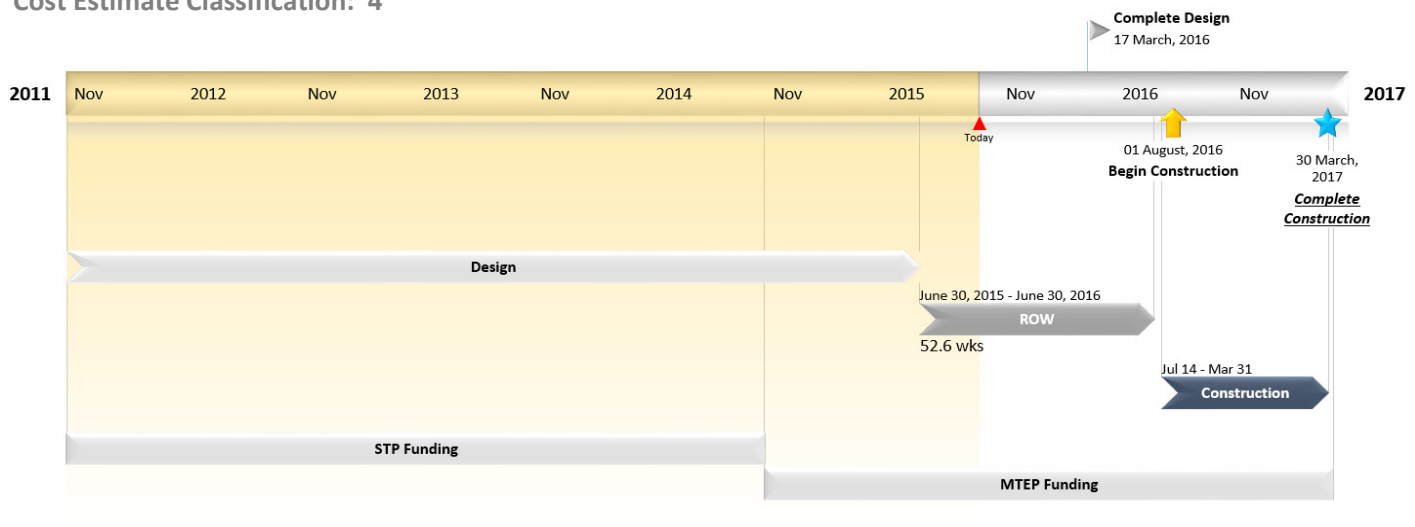
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: Public outreach with City of Bend Accessibility Advisory Committee (COBAAC), property owners, and businesses along corridor.

Cost Estimate Classification: 4



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.

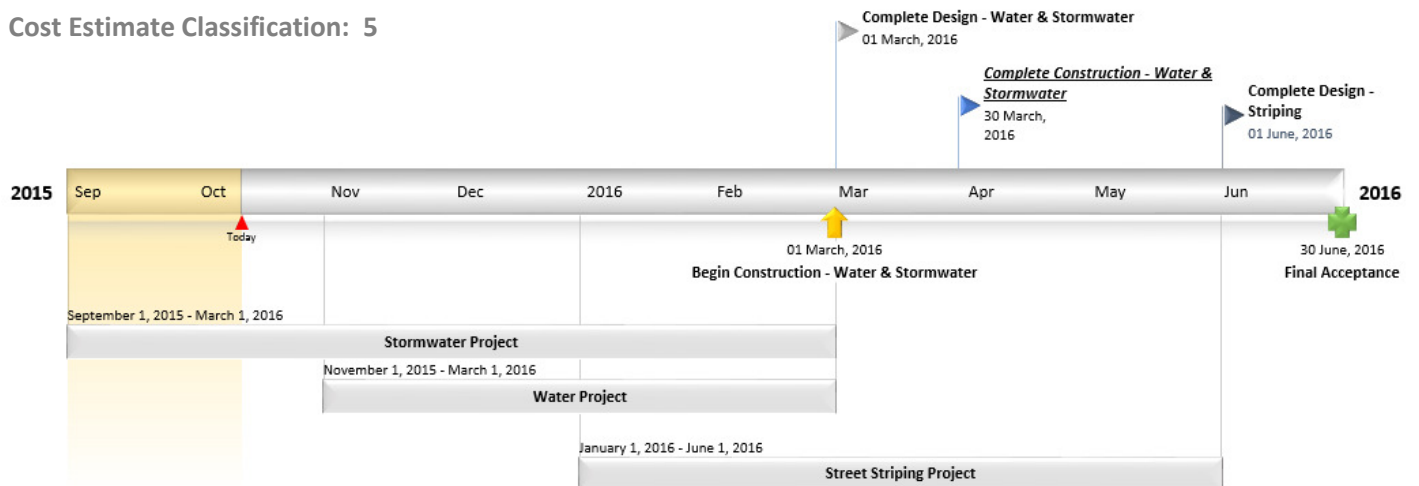


Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

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 performance and 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: 6/30/2016 Final Closeout: 7/1/2016	Total Estimated: \$1,530,000 Spent to Date: \$0 Percent Spent: 0% Three Projects: Water \$1,100,000, Stormwater \$400,000, Streets \$30,000
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: No change from last month. Public outreach has not yet begun.

Cost Estimate Classification: 5



Summit Dr. Curb Ramps

The City of Bend has prioritized ADA non-compliant curb ramps and related sidewalk improvements to remove barriers and improve access. As part of this project approximately 100 street corners and intersections are being reconstructed that currently do not meet accessibility requirements. The original scope focused on Summit Drive but utilized this contract to include other high priority access areas of the community.



Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

Scope

Construction of curb ramps along NW Summit Drive from NW Mt. Washington Drive on the west side to NW Mt. Washington Drive on the east side. Construct ramp at SE corner of NW Broadway & NW Delaware intersection and includes curb ramp installation at 3rd Street and Irving Avenue intersection.

Schedule

Start Date: 7/1/2014
 Substantial Completion: 10/9/2015
 Final Closeout: 10/12/2015

Cost

Total Estimated: **\$910,000**
 Spent to Date: \$846,785
 Percent Spent: 101%
Correction: The total estimated amount was incorrectly reported last month. It should have been \$910,000 not \$965,738. Final billing has not been processed.

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

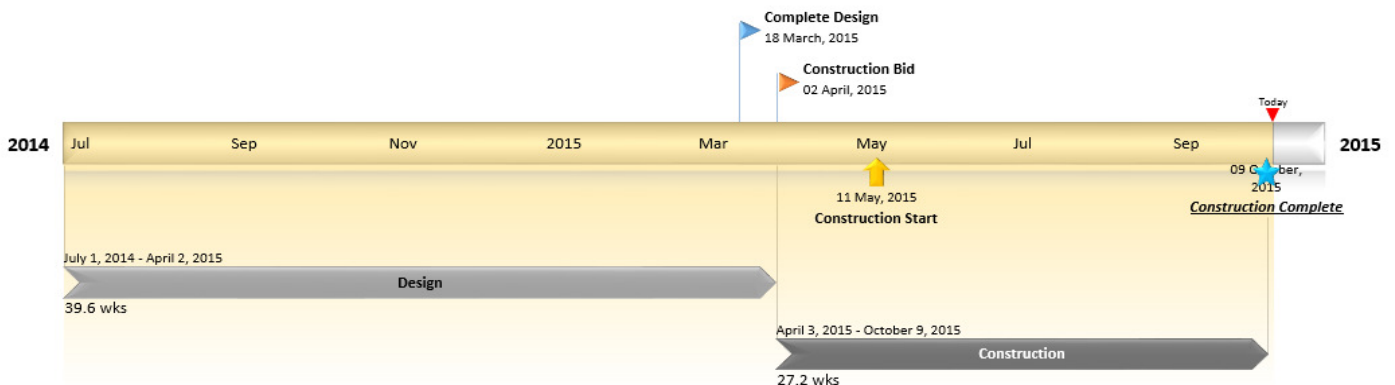
Adjustments: No change from prior month

Status: Increased Cost

Adjustments: Budget increase for \$75,000 to council on 11/4 for change in scope.

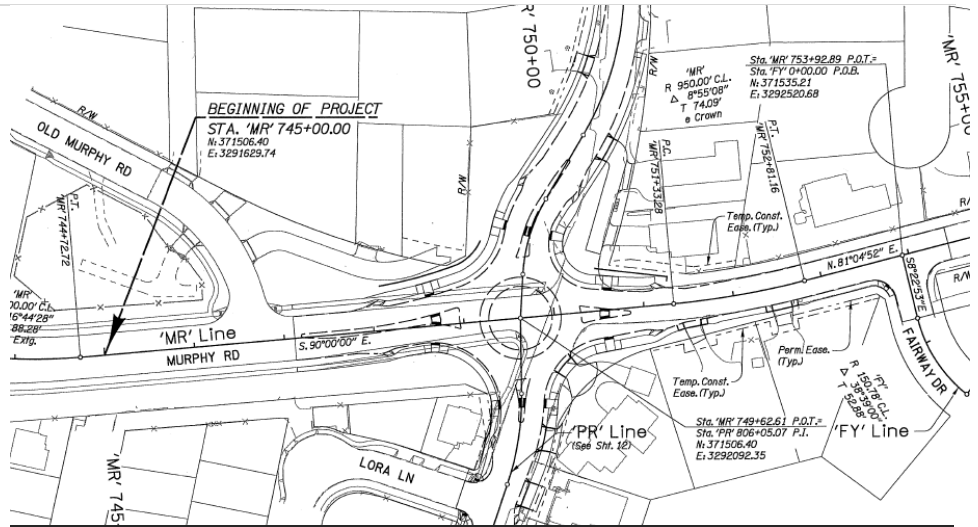
Status Update: Performed door-to-door project notification to five businesses at/near the 3rd Street and Irving Avenue intersection. Sent out a general public notification regarding the project as well as mailed project flyers to businesses within the nearby area.

Cost Estimate Classification: 1



Murphy & Parrell Roundabout

This project will finalize the original conceptualized 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

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.

Schedule

Start Date: 5/1/2015
 Substantial Completion: 7/15/2016
 Final Closeout: 7/15/2019*
 * 1 Year warranty and 2 years additional for plant establishment

Cost

Total Estimated: **\$2,000,000**
 Spent to Date: \$35,158
 Percent Spent: 2%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

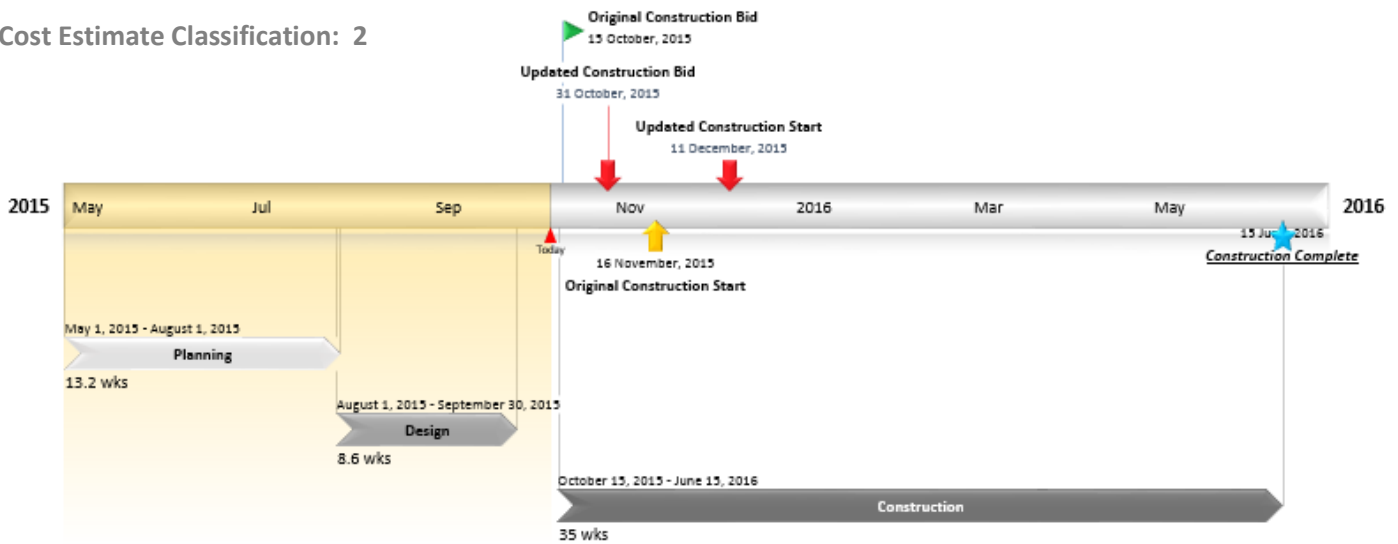
Adjustments: No change from prior month

Status: Increased Cost

Adjustments: **Refined cost estimate based on final engineer's estimate.**

Status Update: Project bid date moved to end of October with construction start date pushed to early December. Have spoken with neighboring land owners regarding the project and the impacts it will have during construction.

Cost Estimate Classification: 2



GO Bond Reed Market: 3rd to Newberry

Improved safety of the corridor for vehicular, pedestrian, and bicycle traffic. Reduced congestion in the corridor. Provides new stormwater facilities, signing, lighting, retaining walls and striping; upgrades the existing railroad crossing; and realigns American Lane to the west of the current location and reconstructs a bridge at the new location.



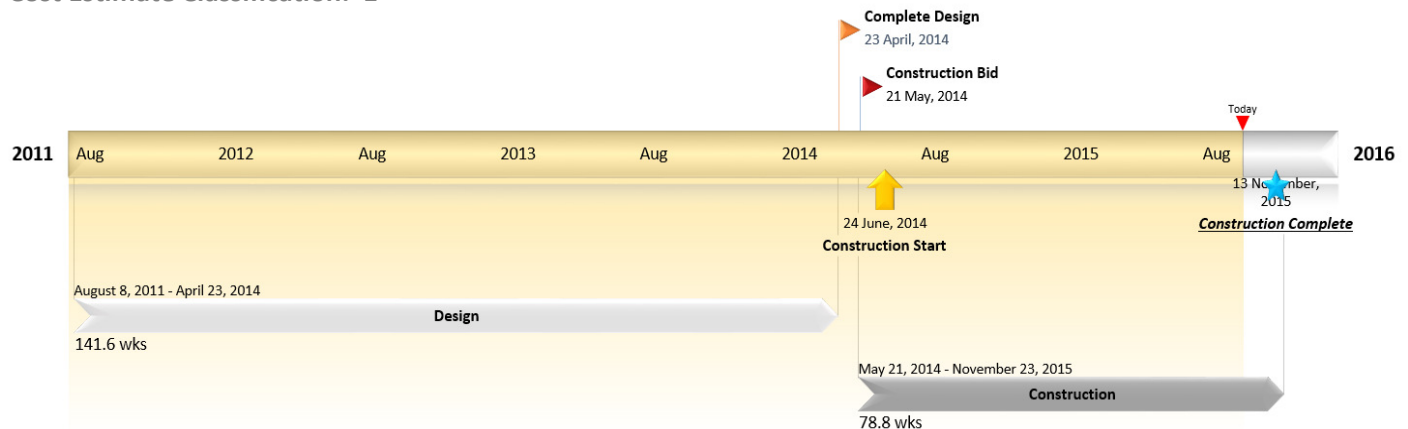
Project Engineer: Ryan Oster | roster@bendoregon.gov

Scope	Schedule	Cost
Design and construction of travel lanes, turn lane, 6-foot shoulders and bike lanes, separated sidewalks and a landscape strip. At the intersection of Reed Market and 15th Street the existing signalized intersection will be upgraded to a roundabout. Construction management and inspection services.	Start Date: 8/8/2011 Substantial Completion: 11/13/2015 Final Closeout: 11/13/2018* * 1 Year warranty and 2 years additional for plant establishment	Total Estimated: \$14,145,450 Spent to Date: \$11,859,421* Percent Spent: 84% * Final billing has not been processed.
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: No change	Adjustments: No change	Adjustments: No change

There has been a great deal of public comment and scrutiny over the length of time and disruption caused to the corridor as a result of this project. The City could have completed the work on the project within a one year period with full shutdown of the corridor. However, Council chose to perform the work in stages in order to minimize the impact to businesses, resulting in a significant increase to project timelines.

Status Update: Railroad closure reopened October 6 with ribbon cutting ceremony to reopen Reed Market Rd. to two way traffic. Ancillary work remains on construction contract; signal at American Lane complete by 11/13/2015.

Cost Estimate Classification: 1



Bridge Creek Intake, Pipeline & Treatment

Replace pipeline to reduced risk of transmission main failure to secure a dual water supply source. Treatment to meet federal water treatment requirements to treat for Cryptosporidium and 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.

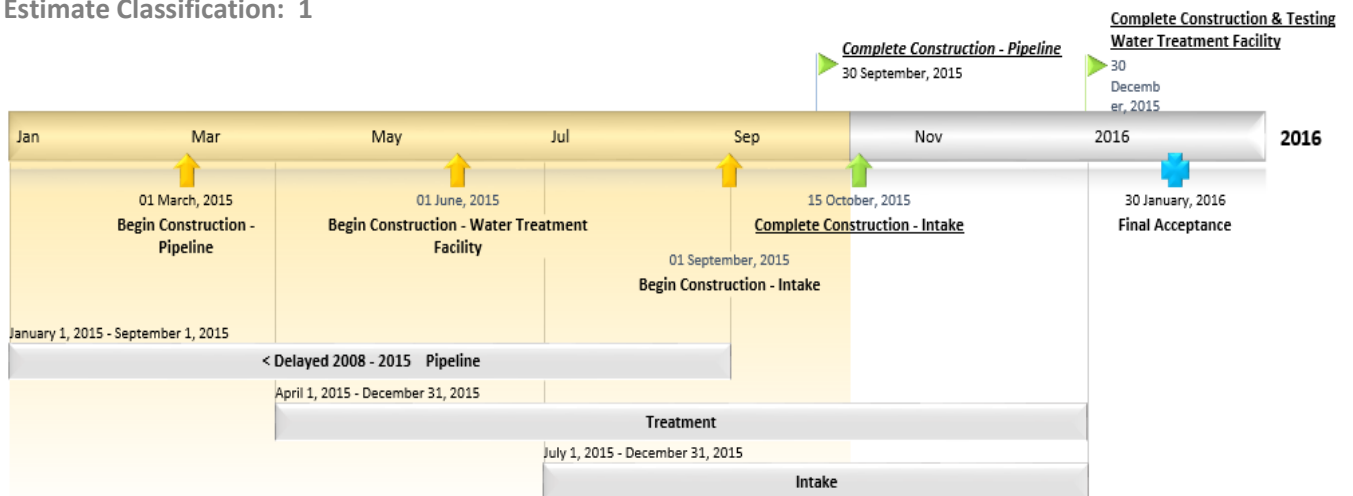


Project Engineer: Heidi Lansdowne | hansdowne@bendoregon.gov

Scope	Schedule	Cost
Feasibility 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: 12/30/2015 Final Closeout: 12/30/2016	Total Estimated: \$73,954,698 Spent to Date: \$62,030,790 Percent Spent: 84%
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: Pipeline complete and passed final hydrostatic test. WTF startup and commission with operators currently running water through the treatment process in testing phase. Intake demolished and under construction.

Cost Estimate Classification: 1



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.

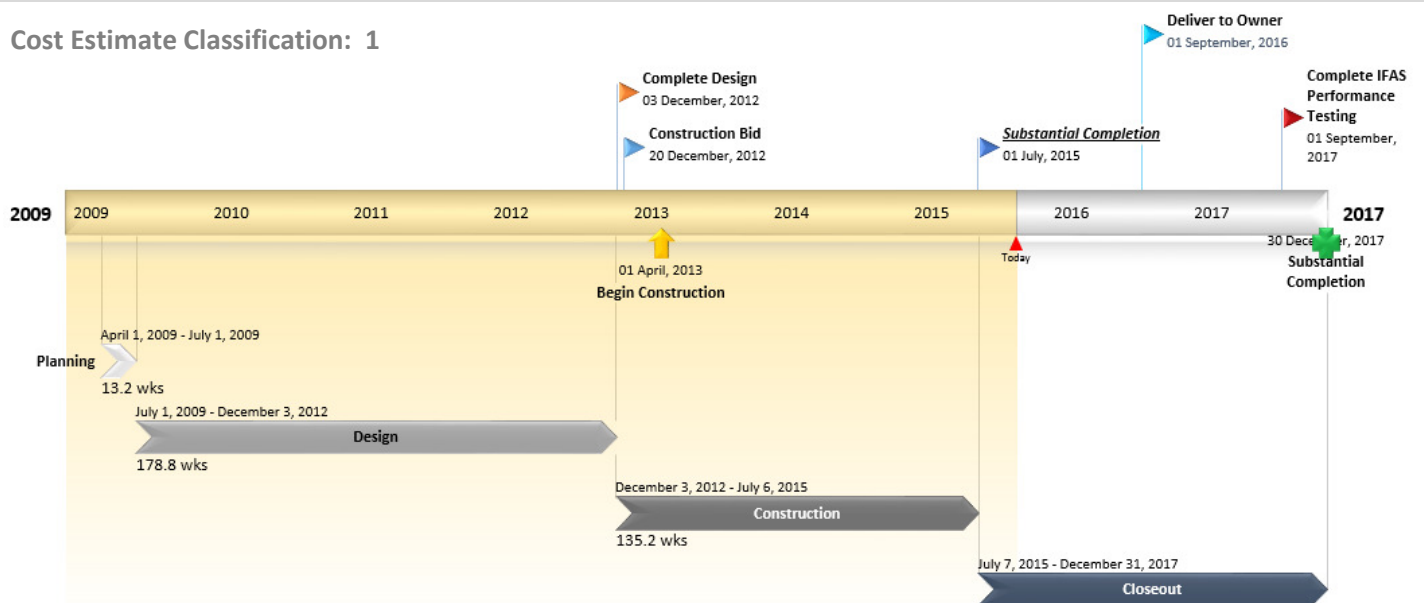


Project Engineer: Jeff England | jengland@bendoregon.gov

Scope	Schedule	Cost
The project adds a primary clarifier, aeration basin, blower facilities, UV and sodium hypochlorite disinfection improvements, and various piping modifications. Removed large portion of original scope to reduce overall expenditures.	Start Date: 4/1/2008 Substantial Completion: 12/30/2017 Final Closeout: 12/30/2018	Total Estimated: \$60,000,000 Spent to Date: \$37,536,109 Percent Spent: 73% Includes Facilities Plan, pre-design, final design, services during construction, and construction.
Status: On Scope	Status: Delayed	Status: On Budget
Adjustments: Removed large portion of scope from contractor.	Adjustments: Date changed due to work change directives.	Adjustments: No change from prior month

Status Update: Issued work change directives and currently re-scoping the project. These changes will impact Scope, Schedule and Budget although current impacts unknown.

Cost Estimate Classification: 1



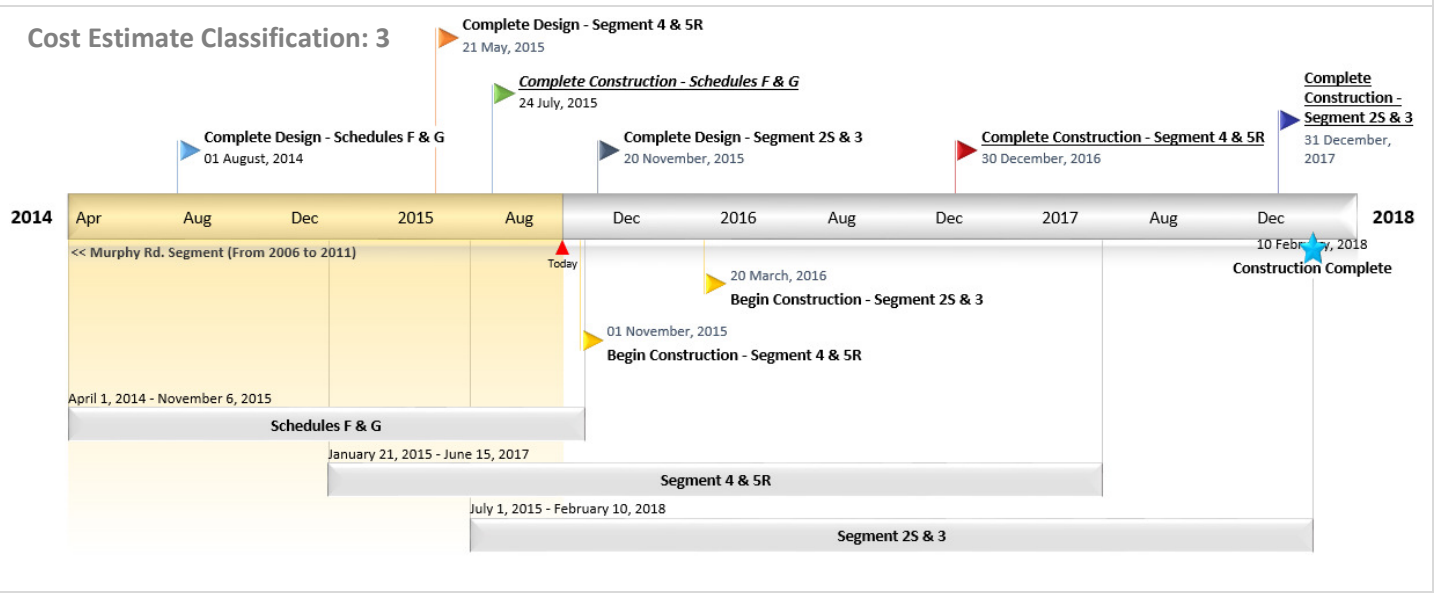
Southeast Interceptor Phase I

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.



Scope	Schedule	Cost
Design and construction of gravity sewer, from South 3rd street to the Neff Road interim connection.	Start Date: 7/1/2006 Substantial Completion: 12/31/2017 Final Closeout: 4/30/2018	Total Estimated: \$60,000,000 Spent to Date: \$18,900,399 Percent Spent: 33%
Status: On Scope	Status: On Schedule	Status: Increased Cost
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: Cost estimates classification changed on 4&5R from Class 4 to Class 1 and 2S&3 moved from Class 5 to Class 3.

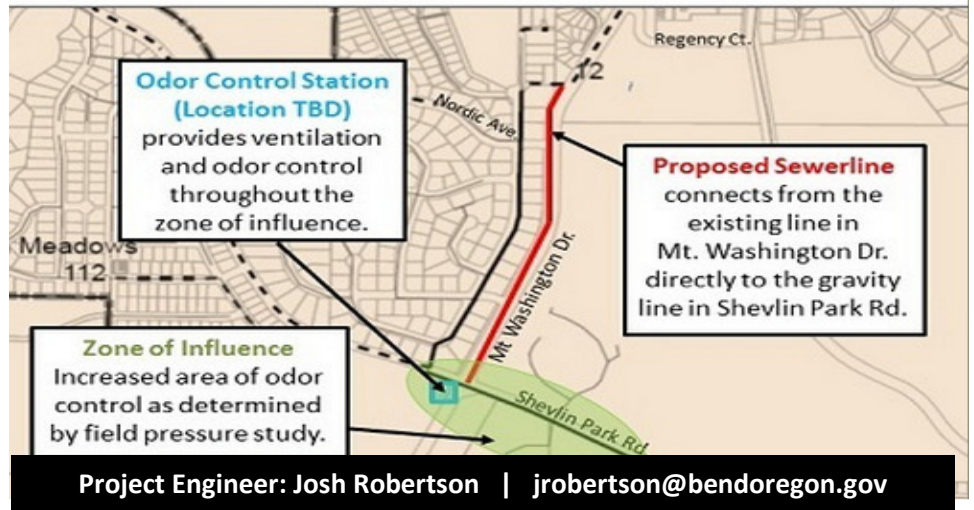
Status Update: General open house public meeting held October 6 with King’s Forest community members. Public outreach is ongoing with neighborhood groups. Received council approval on procurement at Oct 7th meeting.



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

Design and construction of a sewer main to direct sewage around the Valhalla neighborhood and install new odor control systems.

Schedule

Start Date: 1/24/11
Substantial Completion: 10/16/2016
Final Closeout: 10/31/2017

Cost

Total Estimated: \$1,860,370
Spent to Date: \$131,556
Percent Spent: 7%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

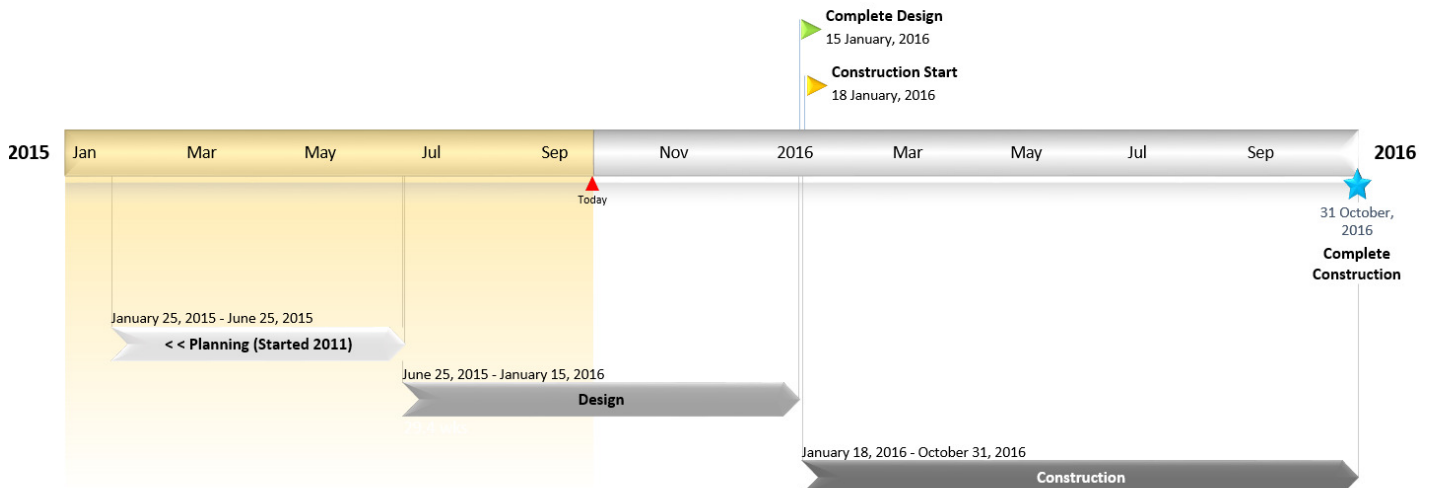
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: No change from last month.

Cost Estimate Classification: 3



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: 11/1/2016
 Final Closeout: 11/1/2017

Cost

Total Estimated: \$6,547,522
 Spent to Date: \$676,732
 Percent Spent: 10%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

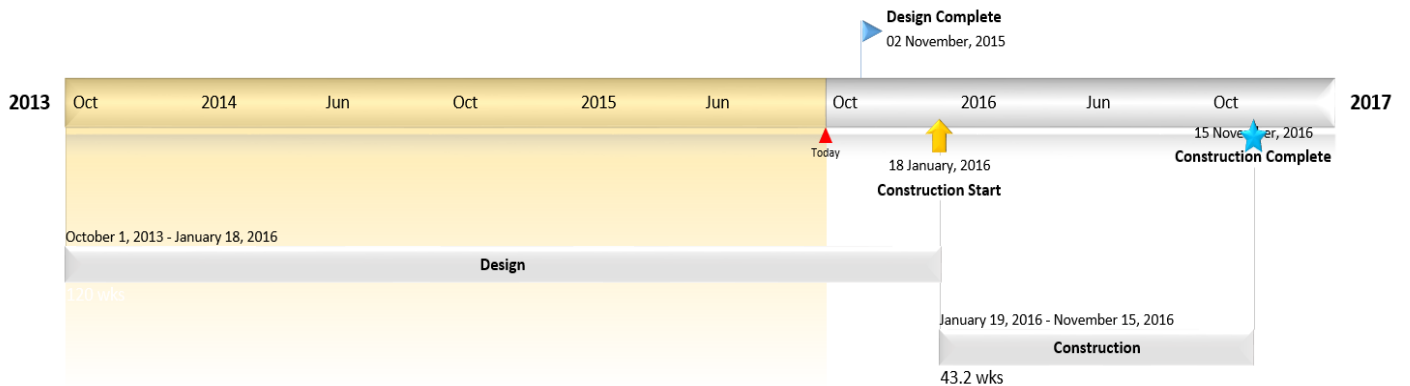
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: ROW acquisitions: Finalizing Irrigation District and Railroad permits; negotiating construction easements with private land owners. This process may impact the final design schedule.

Cost Estimate Classification: 3



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.



Project Engineer: George Franklet | gfranklet@bendoregon.gov

Scope

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.

Schedule

Start Date: 2/1/2013
 Substantial Completion: 01/10/2017
 Final Closeout: 01/10/2018

Cost

Total Estimated: \$13,620,132
 Spent to Date: \$2,231,663
 Percent Spent: 16%

Status: In Negotiation

Adjustments: Negotiating with consultant on scope change for work on DEQ Loan requirements and design modification for Parks & Rec tunnel.

Status: Schedule Delayed

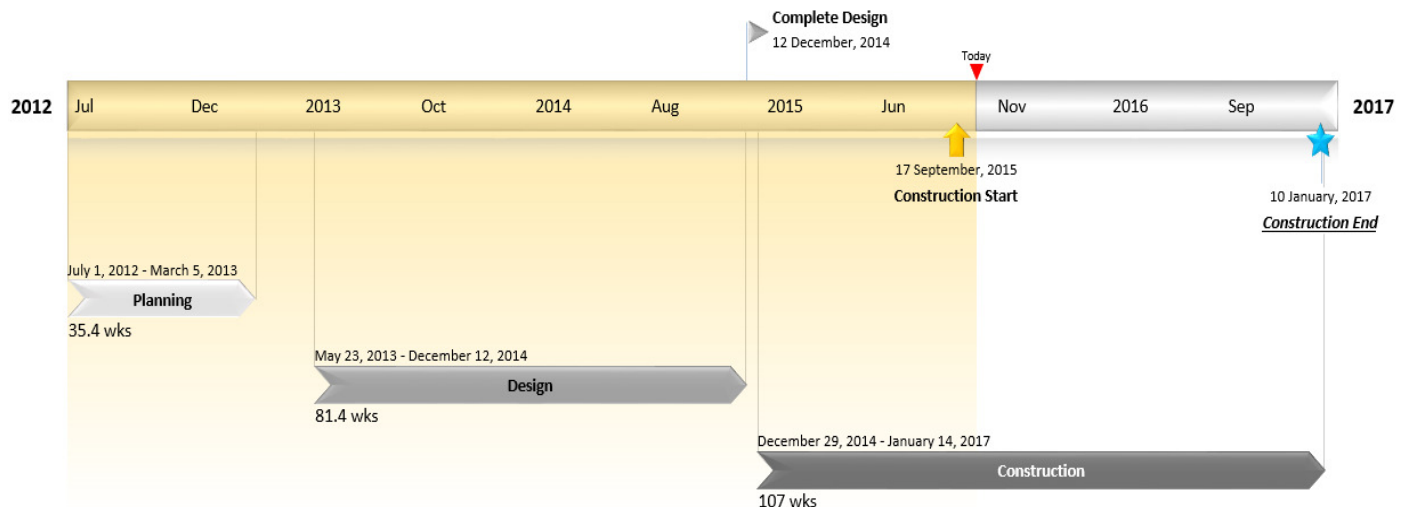
Adjustments: Based on actual date of NTP issuance.

Status: On Budget

Adjustments: No budget adjustment necessary.

Status Update: Issued Notice to Proceed (NTP) for Slayden Construction Group, Inc. to begin construction. Work within the BPRD closure of Colorado Avenue has begun with installation of the dual force mains both around the new tunnel undercrossing and on the upstream side of the bridge. The closure is scheduled to end on November 17th.

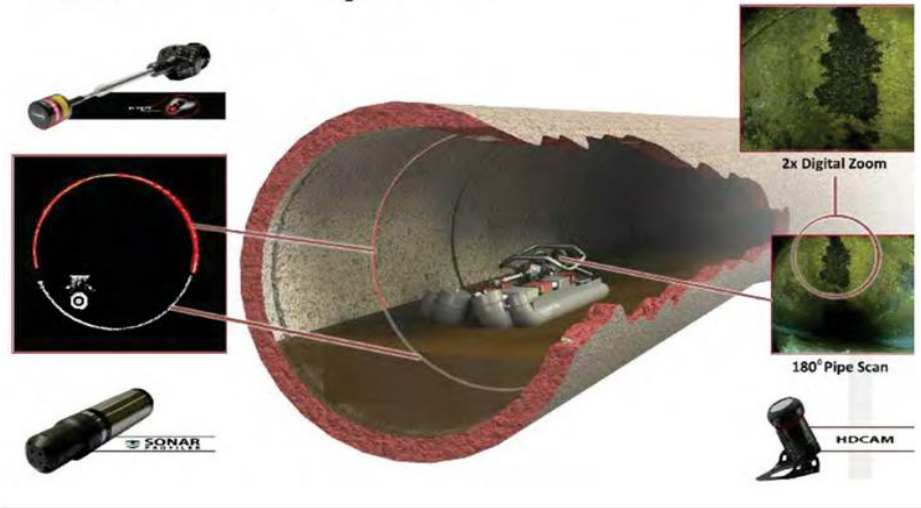
Cost Estimate Classification: 1



Plant Interceptor Rehabilitation

The existing plant interceptor conveys all of the City’s sewage to the WRF and the 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 liner and corrosion control (air extraction) system. This solution provides protection for the worst portions of the pipe and lessens the deterioration rate of the other pipeline segments.

HDProfiler System

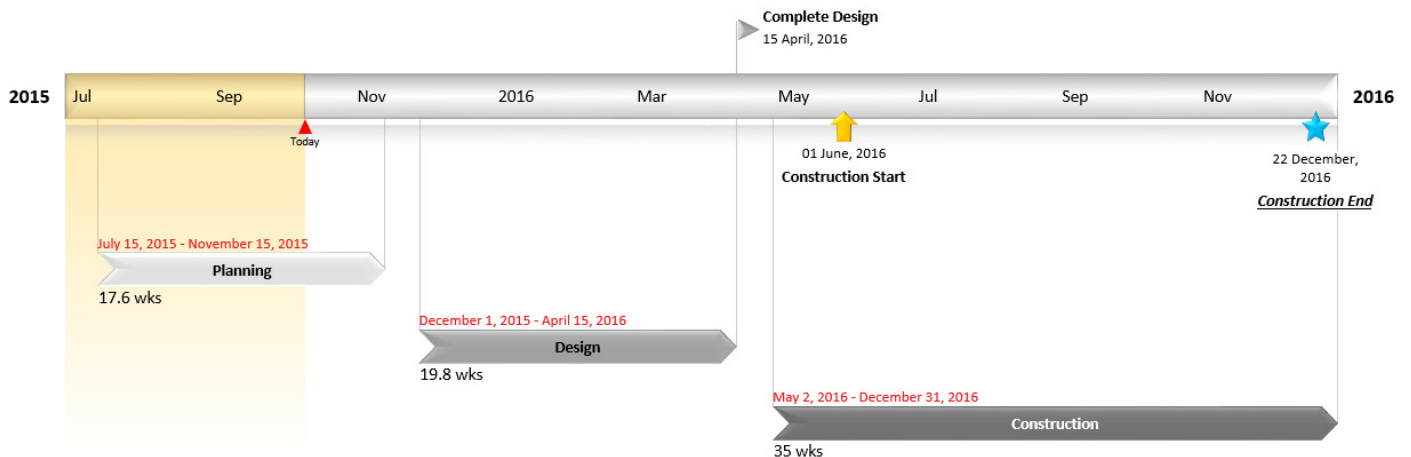


Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

Scope	Schedule	Cost
Rehabilitate all grade 4 and 5 pipe segments with a liner as identified in the PICA. Dig and replace four segments that were identified in the CSMP as undersized for future flow projections. Install corrosion control air extraction facility to slow the degradation of the concrete pipeline.	Start Date: 3/1/2015 Substantial Completion: 12/31/2016 Final Closeout: 12/31/2016 The timeline below reflects these changes.	Total Estimated: \$5,738,000 Spent to Date: \$20,955 Percent Spent: 0.40%
Status: On Scope	Status: Minor Schedule Delay	Status: On Budget
Adjustments: No change from prior month	Adjustments: Project delayed due to PM availability to work project.	Adjustments: No change from prior month

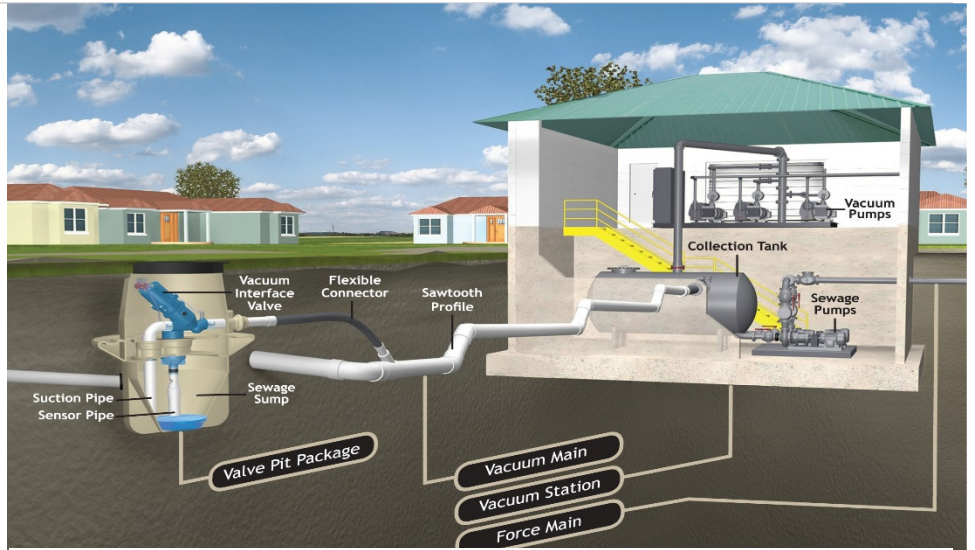
Status Update: Discussions are on-going regarding the execution of the PI rehab work in conjunction with the NEI, SEI, and new PI. Assessing the impacts/risks of potentially deferring any of the PI rehab to transfer any design and construction funds to the new interceptors.

Cost Estimate Classification: 5



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.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

Scope

Complete a sewer system analysis and develop three (3) preliminary design solutions for a longstanding replacement and/or upgrade to the developments collection system.

Schedule

Start Date: 9/1/2015
 Substantial Completion: 2/28/2016
 Final Closeout: 2/28/2016

Cost

Total Estimated: \$50,000
 Spent to Date: \$0
 Percent Spent: 0%

Status: On Scope

Status: On Schedule

Status: On Budget

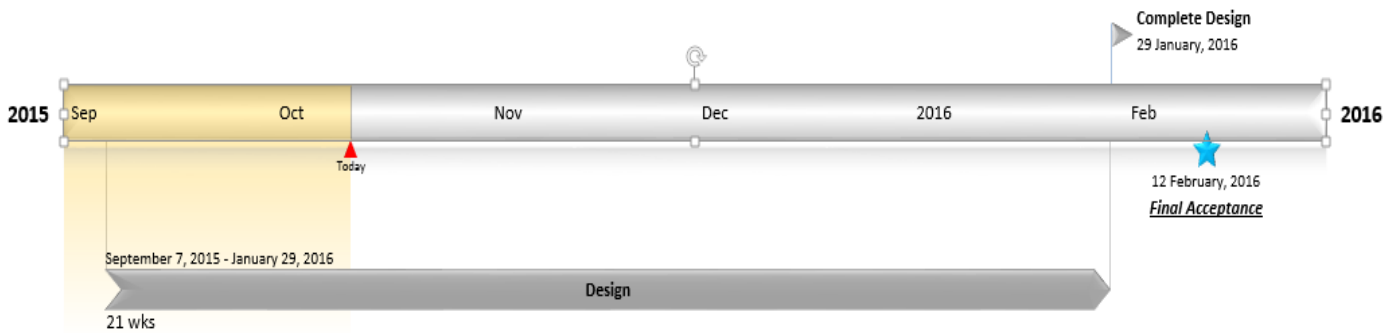
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

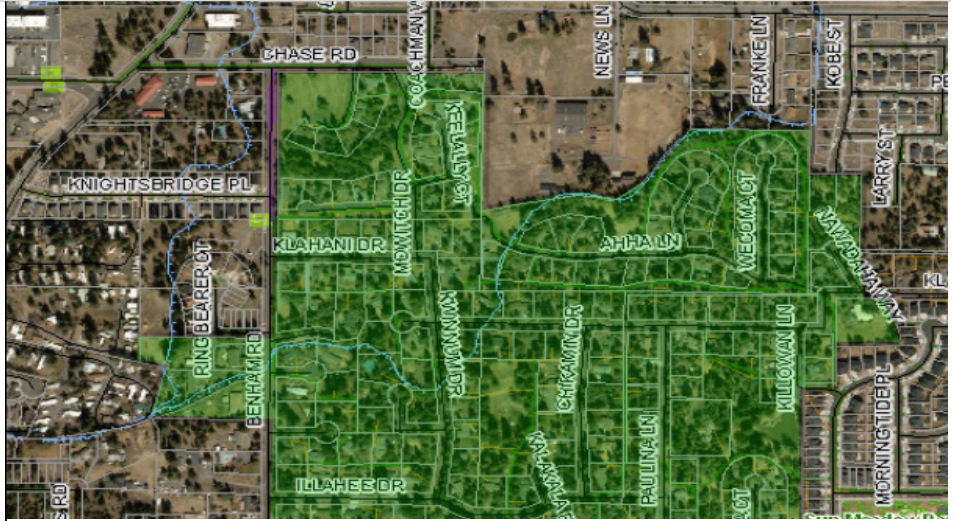
Status Update: No change from last month.

Cost Estimate Classification: N/A



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

Complete a sewer system analysis and develop three (3) preliminary design solutions for a longstanding replacement and/or upgrade to the developments collection system.

Schedule

Start Date: 9/1/2015
 Substantial Completion: 2/28/2016
 Final Closeout: 2/28/2016

Cost

Total Estimated: \$50,000
 Spent to Date: \$0
 Percent Spent: 0%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

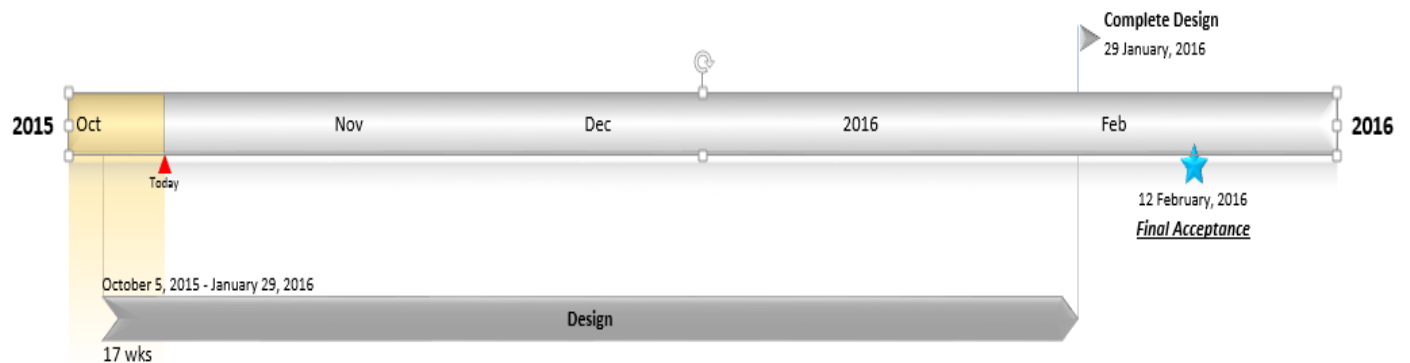
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: No change from last month.

Cost Estimate Classification: N/A



Drake and Dohema Pump Station

A nine acre basin drains to the intersection of Drake and Dohema. The existing stormwater system consists of catch basins and drill holes. The existing drill holes fail to take in water, causing flooding. During larger storm events the water floods neighboring basements and has caused significant property damage in the past. The project will help prevent flooding and protect groundwater.



Project Engineer: Ryan Oster | roster@bendoregon.gov

Scope	Schedule	Cost
The collection system, force mains and treatment swale have been constructed. The remaining work includes installation of a control panel, minor conduit work, and a pump system.	Start Date: 4/1/2011 Substantial Completion: 4/15/2016 Final Closeout: 4/15/2017	Total Estimated: \$404,686 Spent to Date: \$217,686 Percent Spent: 54%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: Potential cost savings by self-performing the installation of pumps and control panel.

Status Update: Utility Operations Division to self-perform work. No changes anticipated to scope, schedule or budget.

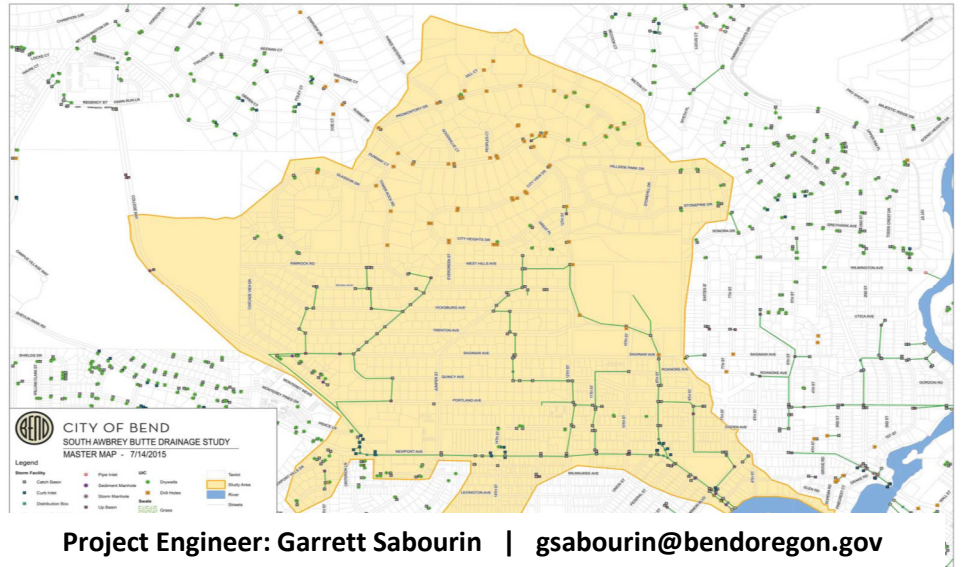
Cost Estimate Classification: 1



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.

* Name changed from Butte and Hillside Drainage Specific Plans



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: 10/1/2016 Final Closeout: 10/1/2016	Total Estimated: \$250,000 Spent to Date: \$0 Percent Spent: 0%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month

Status Update: No change from last month.

Cost Estimate Classification: N/A

