TOWN COUNCIL

STAFF REPORT

Projects and Watershed Resilience Department



MEETING DATE:	February 14, 2023
SUBJECT:	Projects and Watershed Resilience Department Monthly Report
PROJECT MANAGER:	Kimberly Washok-Jones, Director of Projects and Watershed Resilience

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

Goethe-Shults Sidewalks Phase 2

SCDOT has closed out the project.

Next Steps

Complete additional services to clean up ditches and outfall along Shults Road.

2. Buck Island-Simmonsville Neighborhood Sidewalks and Lighting

- Phase 5 street lighting easement acquisition process is underway. Obtained Just
 Compensation approval at November Town Council meeting to begin condemnation.
- Phase 6A along Simmonsville Road from Grayco northward to Sugaree Drive is complete and waiting on DOT closeout.
- Phase 6B along Simmonsville Road from Sugaree Drive northward to the existing New Mustang Road: Engineering design and permitting for this final sidewalk phase is complete. Bid solicitation closed 10/18/22 with no bids received. Per procurement protocol, Staff has obtained quotes from additional contractors.

Next Steps

- Prepare and obtain streetlight easements and begin condemnation process for remaining Phase 5 street lighting easements.
- Obtain SCDOT Permit Closeout for Phase 6A sidewalks.
- o Complete Phase 6B contractor procurement.
- Construction of the remaining Simmonsville Road sidewalks and lighting to be completed in FY 2023.

3. New River Linear Trail

- Conceptual Master Plan is complete.
- Executed PO with Barrier Island Engineering for Phase 1 Engineering Design.
- Prepared draft PARD application for a restroom facility at the New River Trail Park.
 Submitted request to Bill Herbkersman to solicit support from the Beaufort County Delegation.

Next Steps

- o Continue engineering design for Phase 1 pathway (New River to Hwy 46).
- Submit grant application to fund construction of restroom facilities due 2/10/23.
- Submit plans to Santee Cooper for cursory review and cost share for bridge replacements.
- Attorney to prepare easement for donation from Heritage at New Riverside near the Hwy 46 overpass.

SEWER & STORMWATER

Buck Island-Simmonsville Sewer (Phases 5A-D)

- Construction has been halted on Phases 5A-D by BJWSA due to the contractor under-performing their job duties.
- Received permits to construct from DHEC.
- Posted a solicitation to construct.

• Next Steps

- o Bid closing on 2/3/23.
- Start construction late Spring.

2. Historic District Sewer Extension Phase 2 - Bridge Street

- Received SCDHEC permit to construct for original scope.
- No contractors responded to the first construction solicitation.
- Received Quit Claim Deeds from all the property owners along the ghost road.
- Obtained road ownership from SCDOT.
- Readvertised for bids in conjunction with Historic District Sewer Extension Phase 3 and received one response which was much higher than anticipated.

Next Steps

- Negotiate drawing changes with BJWSA and adjust scope and/or price with lone bidder.
- Select a contractor and start Construction and Phases 2 and 3.

3. Historic District Sewer Extension Phases 4 through 6 – Lawrence, Green and Water Streets

• Received initial design for Phases 4, 5, & 6 and reviewed with the engineer.

Next Step

- o Review Phases 4, 5, & 6 design changes to drawings.
- Obtain Quit Claim Deeds from all the property owners along the ghost roads.
- Requested Council assistance to obtain Quit Claim Deeds.

4. May River Watershed Action Plan Impervious Restoration Water Quality Projects

- Initial site investigations are pending due to ongoing Property Owner coordination and approval to access the Property for investigations Lowcountry Community Church.
- Palmetto Pointe Towns has declined to participate in Program at this time.
- Policy document for Impervious Restoration Program under formulation.
- Geotechnical investigations at 6 school sites were 12/20/22-1/4/23 and field results are under analysis. Met with School Board to discuss Impervious Restoration program and potential work elements for 6 identified sites.
- Initial site investigations have been completed.

Next Steps

- Continue property coordination for site access and site assessments/ evaluations.
- Proceed with geotechnical evaluations at the sites for which property owner approvals have been granted. Perform additional geotechnical testing and begin preliminary site design.
- Review Policy Document of similar intent nationwide and Initial Policy Document DRAFT has been completed, reviewed and comments provided.

5. Buck Island Drainage Improvements

- A contract was executed on 11/18/22.
- Construction is 80% complete.

Next Steps

- Further work is pending BJWSA approval of 10" water main relocation/lowering requirements. Upon BJWSA approval remaining work will be scheduled and performed to include 10" water main lowering, completion of pipe installation, road restoration grading and stabilization. Current estimates from BJWSA for approval is approximately 4 weeks.
- Remaining work will be performed via lane closure and not road closure.

HISTORIC DISTRICT IMPROVEMENTS

1. Boundary Street Lighting

- Phase 2 photometric plans, encroachment permits and lighting agreements are complete and approved.
- SCDOT and Dominion indicated poles must be installed on private property due to conflicts with sewer force main and communication utilities within the right of way.
 Easements must now be obtained to install Phase 2 lighting.

Next Steps

 Install streetlights on the west side of the street in FY 2023. Coordinate conduit and light installation for the east side of the street in conjunction with larger streetscape project.

2. Squire Pope Carriage House Preservation

• Initial \$215,000.00 ATAX funding was approved in March 2022. A second \$457,026.00 ATAX funding request was recommended for approval by the ATAX committee on 11/15/22.

- Stabilization has been completed.
- Contract with Huss Inc. has been executed.
- Held kickoff meeting with Huss Inc and began construction on 1/16/23.
- Construction groundbreaking held on 2/4/23.

• Next Steps

• Selective demo and preservation of existing materials to be repurposed.

3. Bridge Street Streetscape

- Issued Notice to Proceed for Phase I construction to start 12/5/22.
- Nearly \$50,000 additional 319 Grant money was awarded by DHEC in support of the project.
- Obtained survey proposal for Phase II streetscape project.

• Next Steps

- Continue construction of Phase I and complete in Summer 2023.
- Drainage 80%, parking 50%, IT conduit and pull boxes 50%, lighting 5%
- Obtain engineering proposal and begin Phase II design.

4. Boundary Street Streetscape

- Engineering Design is 70% complete and submitted to Watershed for stormwater for initial review.
- Submitted contract amendment to TC to complete engineering design and permitting.

Next Steps

- Continue with Engineering Design and Permitting.
- Obtain easement exhibits and begin appraisals in FY 2023.
- Bid construction in FY 2024

5. Calhoun Street Streetscape

• Surveying is complete and preliminary engineering design is 50% complete.

Next Steps

- o Continue engineering design into FY 2023.
- Prepare easement acquisition plats for Phase 1 in March 2023.
- Phased construction is planned to begin in FY 2025 pending budget approval.

6. Pathway Pedestrian Safety Improvements

- Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
- Phase 1 ADA sidewalk improvements along Goethe Road were completed in January.

Next Steps

Phase 2 design proposal under review.

7. Historic District Comprehensive Drainage Plan Improvements

 Review of Phase 1 updated asset inventory and condition assessment information is complete.

- 2D H/H model development complete and under review.
- Tidal Gauge information at Calhoun St Dock being gathered through 2022.

• Next Steps

 Review 2D H/H model development results and area of inundation, choke points and establish maintenance and project needs to reduce risk of flooding.

8. Pritchard Street Drainage Improvements

- Cranston Engineering submitted 70% design submission.
- 319 Grant Award of \$124,577.00 received and executed.
- Barrier Island Engineering completed 3rd party evaluation of drainage claims and complaints associated with 40 Pritchard Street. Concept plan of potential on-site drainage improvements to be performed by the homeowner to reduce the risk of flooding for his property has been presented and discussed with property owner.

Next Steps

- Coordinate approval for proposed improvements with Beaufort County School District.
- o Complete 70% design submission review.
- Internal discussions for Final project scope and potential Streetscape elements to be held and finalized.

PARK DEVELOPMENT

1. Oyster Factory Park

- Executed contract with JS Construction for parking expansion.
- Executed Task Authorization with Witmer, Jones, Keefer for design of the event area.
- Construction of parking area to begin in February 2023.

Next Steps

- Design of Phase 3 signage for Garvin/Garvey house underway. Signage and exhibits to be complete in February 2023.
- Begin design of Oyster Factory Park cookout area in FY 2023.

2. Oscar Frazier Park

- Began design of FY 2023 improvements including hardscape near the Rotary Center, sport courts and splash pad.
- Submitted conceptual plans at Quarterly Workshop and obtained Town Council input.
- Sent sport court alternatives to Bluffton Park HOA for review and selection of preferred option.

Next Steps

- o Complete conceptual designs of hardscape plan and bid in the Spring 2023.
- Complete design of splash pad in FY 2023.

3. New Riverside Barn/Park

- A \$500,000.00 grant was approved for partial funding of the initial phase of the project.
- Engineering design, permitting and bidding of phase 1 site development is complete.
- Construction documents for the restroom building are complete.
- Executed contract for architectural design services for the Barn additions.
- Executed phase 1 Site Development contract with JS Construction.
- Executed contract with Wood & Partners for playground design services.
- Park Groundbreaking event held 1/25/23.

Next Steps

- Continue architectural design of barn addition.
- Begin design of playground area in FY 2023.
- Construction of Phase 1 Site Development Infrastructure will begin in January 2023.

4. Miscellaneous Park Improvements

Began design and cost estimating of playground improvements at DuBois Park.

Next Steps

 Presented proposed DuBois Park playground improvements at the October Workshop and TC requested staff to explore additional playground equipment alternatives. Continue with the design of FY 2023 playground improvements.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. Rotary Community Center Facility Improvements

Completed floor replacement in August 2022.

Next Steps

 Request funding for floor/crawl space insulation replacement and interior trim work in FY 2024.

2. Town of Bluffton Housing Projects

Next Steps

 Provide assistance as needed to joint venture partner for planning, design and permitting of Affordable/Workforce Housing at 1095 May River Road.

3. Law Enforcement Center Facility Improvements

- Initial scope of work of the parking/service yard, and covered sheds are complete.
- Design for the challenge course is complete and under construction. Clearing is complete.
- Reflection Plaza construction is complete. Reflection Plaza dedication ceremony on 1/12/23.

Next Steps

- Install permanent signage at Reflection Plaza.
- o Complete construction with The Greenery for the challenge course.

4. Sarah Riley Hooks Cottage

- Obtained conceptual master plan concepts from JK Tiller.
- Prepared questionnaire for stakeholder input and distributed at the Art and Seafood Festival and online.
- Obtained Structural Assessment Report from Meadors Inc. to determine feasibility of the cottage and discussed a path forward with Council at 1/10/23 meeting.
- Termite treatment completed on 1/22/23.

Next Steps

 Complete Master Plan and continue obtaining public input for potential uses for the park to discuss with Council at the April Quarterly Workshop.

5. Ghost Roads

- Surveying and easement exhibits are complete.
- Bridge Street Quit Claim Deeds are complete. Pritchard and Colcock Streets Quit Claim Deeds are 95% complete. Staff is currently working with Council to obtain Lawrence, Lawton, Green Pope, Allen and Water Street Quit Claim Deeds.
- Staff continues to meet with property owners to raise awareness of the acquisition efforts and communicate next steps.
- Executed contracts with Easement Acquisition Consultants to assist with Ghost Roads not associated with Historic District sewer projects as staff has initiated these acquisitions.

Next Steps

- Obtain remaining Quit Claim Deeds documentation from legal and continue meeting with property owners.
- Complete kick-off meetings with Easement Acquisition Consultants.

6. Document Management

- RFP contract was awarded in March 2022.
- Electronic Document Management system is live.

• Next Steps:

 Historical documents began being moved in July, 2022 and continue through FY 2024.

7. Network Infrastructure

- Replaced core switches at Town Hall and the Law Enforcement Center.
- Replaced two VMWare hosts for a more stable server environment.

Next Steps:

- o Replace phone system to a more modern system.
- Replacing two more VMWare hosts.
- Migrate Munis and Energov systems to a hosted environment.

WATERSHED MANAGEMENT

1. Stoney Creek/Palmetto Bluff Sewer Partnership

- 2022 updated cost-estimate for the project from BJWSA is \$7.2 million + contingencies. BJWSA has agreed to be the Project Manager.
- Completed DRAFT RIA SCIPP application in support of Stoney Creek/Palmetto Bluff Sewer Extension with BJWSA and Beaufort County. Obtained letters from governmental agencies and stakeholders in support of the application.

Next Steps

- o Await notification of grant application. Anticipated in January/February of 2023.
- o Procurement staff is developing a 3-party partnership to execute the project.
- BJWSA to procure design engineer through bid as their procurement process will not permit them to use existing MSAs.
- 2. SC Department of Health and Environmental Control May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit Attachments 1 and 1a
- 3. May River Watershed Action Plan Implementation Summary Attachment 2
 - Staff collected sixty (60) water quality samples from the Action Plan Update and Model Report study area and the Bluffton Historic District on 01/09/23. The Town is moving forward with procurement of goods and services and installation of SonTek IQ telemetry stations is anticipated in February 2023. Staff is coordinating with Water Environment Consultants (WEC) on requirements for model calibration and data needs. WEC will review data collected from telemetry stations in real time.
 - Staff deployed a HOBO-U20 water level logger at the Calhoun Street to collect tidal elevation data and staff intends to continue data collection at this location.
- 4. Municipal Separate Storm Sewer System (MS4) Program Update
 - The Town is drafting its MS4 Annual Report as required by SCDHEC.
- MS4 Minimum Control Measure (MCM) #1 Public Education and Outreach, and MS4
 MCM #2 Public Participation and Involvement
 - The May River Watershed Action Plan Advisory Committee meeting was held 01/26/23. Attachment 3
- 6. MS4 MCM #3 Illicit Discharge Detection and Elimination
 - Stormwater Infrastructure Inventory Map Attachment 4a
 - E. coli Concentrations Trend Map Attachment 4b
 - Monthly, Microbial Source Tracking (MST) Maps Attachments 4c and 4d
 - SC Department of Health and Environmental Control (SCDHEC) collects MST samples for the Town concurrently with their routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC

conducted sampling 12/20/22 and no human genetic marker was detected. SCDHEC collected samples on 01/24/23 and results will be shared upon receipt.

- Illicit Discharge Investigations Attachment 4e
- 7. MS4 MCM #4 Construction Site Stormwater Runoff Control Attachment 5
- 8. MS4 MCM #5 Stormwater Plan Review and Related Activity Attachment 6
- 9. MS4 MCM #6 Good Housekeeping (Staff Training/Education)
 - Staff received training from Beaufort County on the SoLoCo Compliance Calculator on 1/13/22.

10. MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)

- Public Services performed weekly street sweeping on Calhoun Street, Highway 46,
 Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
- Performed ditch inspections.
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)
 - Simmonsville roadside ditch (13,792 LF)
- Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road and Eagles Field.
- 11. Citizen Drainage, Maintenance, and Inspections Concerns Map Attachment 7
- 12. Citizen Request for Watershed Management Services & Activities Attachment 8

Attachments

- 1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
- 2. May River Watershed Action Plan Implementation Summary*
- 3. MS4 Minimum Control Measures #1 and #2 WAPAC Public Notice
- 4. MS4 Minimum Control Measure #3 Illicit Discharge Detection and Elimination
 - a. Stormwater Infrastructure Inventory Map
 - b. E. coli Concentrations Trend Map
 - c. Microbial Source Tracking Trend Map Human Source
 - d. Microbial Source Tracking Map All Sources
 - e. Illicit Discharge Investigations
- 5. MS4 Minimum Control Measure #4 Construction Site Stormwater Runoff Control
- 6. MS4 Minimum Control Measure #5 Stormwater Plan Review and Related Activity
- 7. Citizen Drainage, Maintenance and Inspections Concerns Map
- 8. Citizen Request for Watershed Management Services and Activities Map

9.	. С	IP I	Proi	iect	Scl	hed	lul	les
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* Attachment noted above includes the latest updates in **bold** and *italic* font.

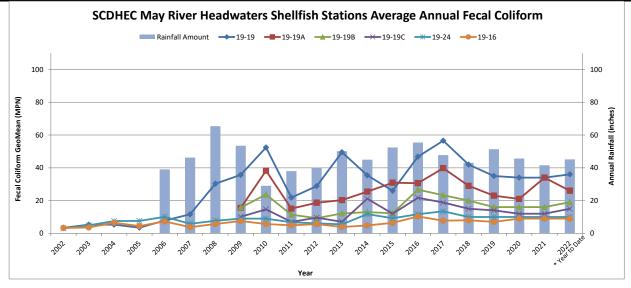
		19	-19			19-	19A			19-	19B			19-	19C			19	-24			19	-16	
	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
	Fecal Coliform (MPN)																							
December	170.0	17.0	79.0	33.0	33.0	22.0	49.0	49.0	140.0	17.0	4.5	17.0	33.0	4.5	17.0	49.0	13.0	4.0	6.8	6.8	110.0	11.0	7.8	13.0
November	17.0	70.0	33.0	33.0	6.8	31.0	33.0	13.0	7.8	17.0	7.8	7.8	11.0	13.0	4.0	4.5	4.5	13.0	4.5	6.1	2.0	4.5	2.0	13.0
October	7.8	49.0	49.0	23.0	4.5	79.0	26.0	46.0	2.0	31.0	13.0	13.0	4.5	21.0	23.0	23.0	1.8	33.0	23.0	11.0	2.0	79.0	17.0	14.0
September	79.0	110.0	33.0	540.0	33.0	49.0	11.0	350.0	6.8	49.0	17.0	350.0	17.0	33.0	13.0	170.0	4.5	33.0	2.0	79.0	1.8	33.0	11.0	33.0
August	70.0	49.0	49.0	23.0	49.0	49.0	49.0	23.0	33.0	23.0	23.0	11.0	22.0	23.0	49.0	13.0	7.8	17.0	14.0	17.0	17.0	22.0	14.0	11.0
July	4.5	33.0	350.0	920.0	13.0	13.0	64.0	49.0	7.8	23.0	79.0	95.0	17.0	7.8	33.0	130.0	22.0	7.8	33.0	23.0	13.0	17.0	13.0	46.0
June	33.0	NS	49.0	13.0	49.0	NS	79.0	4.5	49.0	NS	13.0	11.0	46.0	NS	17.0	2.0	13.0	NS	22.0	1.8	4.5	NS	2.0	9.3
May	7.8	70.0	2.0	4.5	9.2	49.0	49.0	4.5	7.8	23.0	23.0	4.0	2.0	22.0	23.0	1.8	6.8	6.8	23.0	1.8	4.5	4.5	7.8	2.0
April	23.0	33.0	33.0	4.5	13.0	33.0	23.0	4.5	7.8	13.0	22.0	1.8	6.8	6.8	17.0	2.0	23.0	13.0	7.8	1.8	6.8	13.0	2.0	1.8
March	23.0	170.0	33.0	33.0	23.0	49.0	11.0	23.0	6.8	130.0	17.0	2.0	13.0	49.0	13.0	4.5	7.8	70.0	2.0	2.0	4.5	33.0	2.0	2.0
February	64.0	17.0	79.0	23.0	33.0	7.8	70.0	31.0	23.0	21.0	79.0	17.0	31.0	4.5	23.0	22.0	6.8	4.5	7.8	2.0	13.0	6.8	6.8	11.0
January	23.0	95.0	17.0	49.0	23.0	33.0	17.0	22.0	13.0	33.0	13.0	33.0	33.0	17.0	23.0	7.8	7.8	17.0	17.0	7.8	23.0	17.0	7.8	7.8
** Truncated GeoMetric Mean	35.0	34.0	36.0	40.0	23.0	21.0	26.0	28.0	16.0	16.0	18.0	18.0	14.0	12.0	15.0	14.0	10.0	10.0	10.0	9.0	7.0	9.0	8.0	9.0
** Truncated 90th Percentile	168.0	106.0	139.0	192.0	89.0	59.0	69.0	91.0	63.0	50.0	58.0	72.0	52.0	37.0	39.0	54.0	38.0	31.0	35.0	41.0	32.0	35.0	33.0	32.0

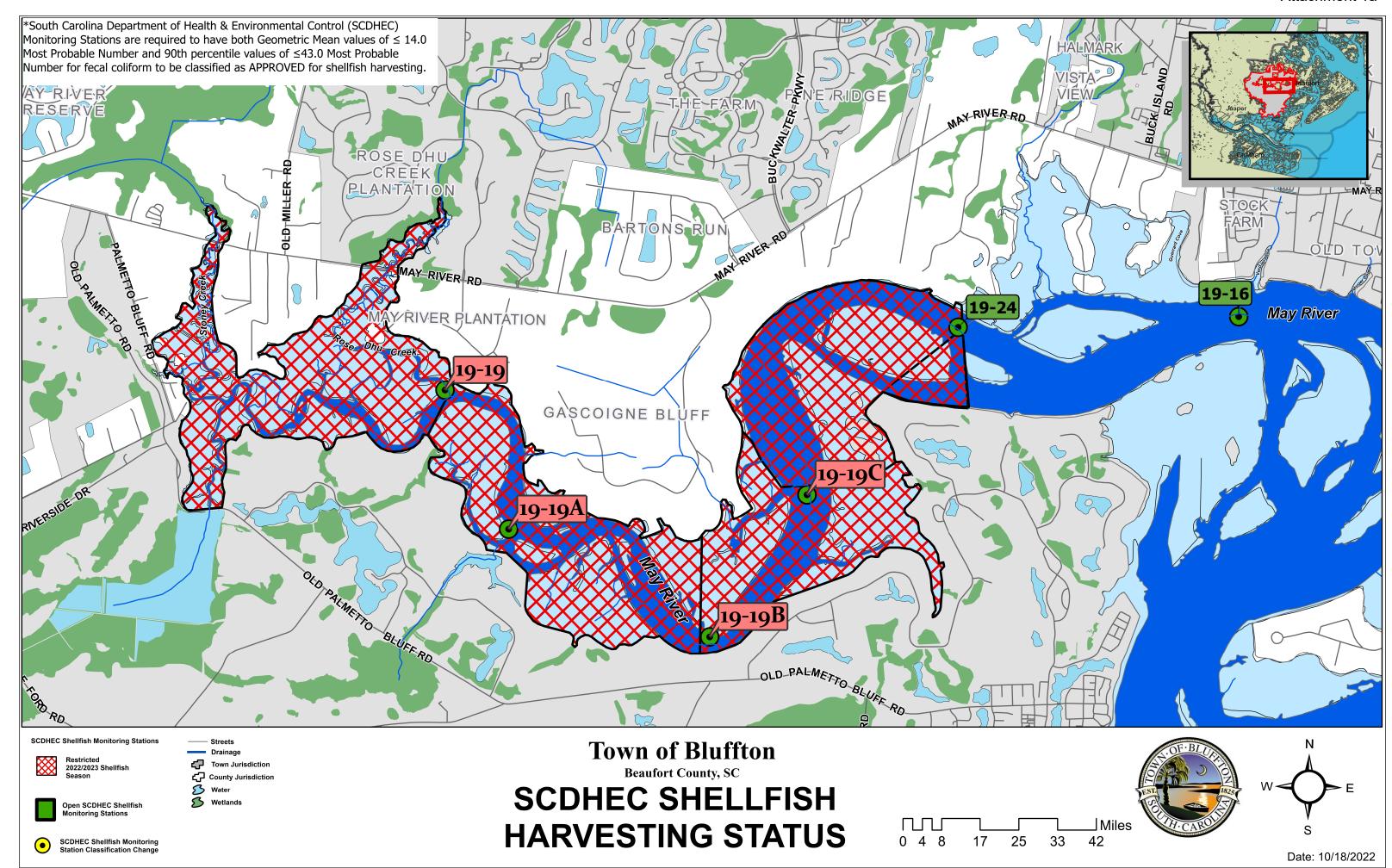
NS = No Sample

SCDHEC Regulatory Requirements:

Geometric Mean ≤ 14 90th Percentile ≤ 43

^{**} Town staff calculations utilizing SCDHEC statistics





WAPAC Meeting Presentation 2020 May River Watershed Action Plan Update & Modeling Report Overview and Status

Overview

- May River Watershed Action Plan Update (MRWAP) & Modeling Report completed November 2020
- Bluffton Town Council Adoption of May River Watershed Action Plan Update & Modeling Report as a Supporting Document to the Comprehensive Plan completed February 2021.
- May River Watershed Action Plan Update & Modeling Report Summary:
 - Executive Summary provides an overview of the project background, findings and interpretation, current state of knowledge concerning fecal coliform fate and transport, and an overview of proposed recommendations for the Town.
 - 1.0 Introduction includes more detailed project background including the purpose of the document and the Project Team's tasks to 1) develop water quality models to compare current conditions (2018) to pre-shellfish impairment conditions (2002) to develop pollutant load reduction estimates, and 2) evaluate the 2011 May River Watershed Action Plan (henceforth 2011 Action Plan) Best Management Practices (BMPs) for appropriateness under current conditions and provide up to eleven (11) alternative projects and preliminary cost estimates.
 - 2.0 Model Setup; 3.0 Model Calibration, and 4.0 Water Quality Model Results details the methodology used by the Project Team to establish and calibrate the model and the model outputs. This highly technical information is necessary for future Water Quality Model (henceforth WQ Model) calibration and use for consistency.
 - 5.0 Recommendations includes strategies to improve the Town's
 - Water quality monitoring efforts in order to calibrate the WQ Model further (§5.1),
 - Develop strategies and BMPs for fecal coliform bacteria reduction (§5.2),
 - Conduct an evaluation of 2011 Action Plan BMP projects (§5.3),
 - Methodology used to develop 2020 MRWAP Update recommended projects (four septic to sewer conversion projects and eleven stormwater BMP retrofit projects) with cost-estimates and ranking/prioritization (§5.4).
 - 6.0 Conclusions offers a summary of the WQ Model results in context of current state of knowledge.
 - o **7.0 References** documents the prior research findings used to inform recommendations.
 - Appendices reference supporting materials:
 - Montie et al. (2019) "Technical Report: Historical Analysis of Water quality, Climate Change Endpoints, and Monitoring in Natural Resources in the May River,"
 - Technical Memo from Dr. Rachel Noble,
 - Watershed Treatment Model Spreadsheets, and
 - Detailed Project Cost Estimate Spreadsheets.

2020 MRWAP Update Septic to Sewer Project Recommendations/Evaluations:

- Four (4) septic to sewer conversion projects were evaluated in the Rose Dhu Creek and Stoney Creek subwatersheds:
 - Cahill
 - Gascoigne
 - Stoney Creek
 - Pritchardville
 - These projects overlap with 42 subcatchments in the Stoney Creek subwatershed and 11 in Rose Dhu Creek subwatershed. Based on WQ Model outputs, these projects alone may potentially reduce the fecal coliform (FC) loading by 3.46x10¹³ FC per year.
- The estimated septic to sewer conversion costs of these projects is \$5.5 million.

Work Performed and Current Status

Discussions with the Town of Bluffton, Beaufort County and Beaufort Jasper Water Sewer Authority (BJWSA) have been held about future Septic to Sewer Program projects identified above. The Stoney Creek subwatershed Septic to Sewer Project has been identified as the next priority project to pursue under the Septic to Sewer Program.

 The Town and Beaufort County are finalizing Funding and Cost share elements relative to the project and a letter to BJWSA will be developed and sent to BJWSA regarding project funding, capital outlay and schedule for implementation.

2020 MRWAP Update Eleven Impervious Restoration (stormwater retrofit) Project Recommendations/Evaluations and Other Work:

Eleven (11) project sites (incorporating various individual BMPs) were selected in consultation
with the Town (prioritizing subcatchments with FC bacteria hotspot and/or large impervious
areas). These sites were evaluated in terms of the potential benefits gained by retrofitting to
meet the 95th percentile storm retention, to the maximum extent possible, under the proposed
Impervious Area Restoration/Stormwater Retrofit Program.

Eleven (11) proposed project sites were identified in the Rose Dhu Creek (6 projects) and Stoney Creek (5 projects) subwatersheds:

- Bluffton Early Learning Center (BELC)
- Boys and Girls Club of Bluffton (BGC)
- Benton House (BH)
- Bluffton High School (BHS)
- Buckwalter Recreation Center (BRC)
- Lowcountry Community Church (LCC)
- McCracken Middle School/Bluffton Elementary School (MMSBES)
- May River High School
- One Hampton Lake Apartments (OHLA)

- Pritchardville Elementary School (PES)
- Palmetto Pointe Townes (PPT)
- Based on WQ Model outputs, these projects alone may potentially reduce FC loading by
 - 2.99×10¹⁴ FC reduction for the Full Stormwater Retention Volume (SWRv) (entire subbasin drainage area catchment).
 - 2.53×10¹⁴ FC reduction for the Reduced SWRv projects (impervious area drainage area of sub-basin catchment).
- The estimated of Full SWRv projects costs is \$32.7 million and the estimated cost of Reduced SWRv projects is \$22.6 million.
- Currently the Towns' Impervious Restoration Program is targeting Reduced SWRv for future projects.

Example of Impervious Restoration Project evaluation from May River Watershed Action Plan Update & Modeling Report:



Figure 52. McCracken Middle School/Bluffton Elementary School Proposed Stormwater BMP Retrofits

Work to be Performed

 Drafted a detailed scope of work for Engineering Consultant Firm review and cost proposal (Expression of Interest) regarding performance of the following work elements related to 2020 MRWAP Update recommendations for implementation:

Task 1: 2020 MRWAP Update eleven (11) site locations

- Evaluate eleven (11) sites and proposed BMPs.
- Update concept plans for the eleven (11) sites based on site evaluations, recommendations, and discussions.
- Perform geotechnical evaluations (augers and borings to evaluate existing soil type, infiltration rates and groundwater table elevation) at each site at locations related to BMP locations and develop updated concept plans for each site.
- Refine updated concept plans and use for presentations to Property
 Owner to discuss Impervious Restoration Program goals, objectives and
 gain support for Program and their participation.
 - Develope list of "incentives" to secure Property Owner participation (see Policy Document Formulation below).
- Based on geotechnical information and Property Owner feedback further refine concept plans to Preliminary Design:
 - Determine BMP types and location to maximize SWRv/Water
 Quality (WQ) treatment in cost effective approach.
 - o Determine estimated pollutant load reductions.
 - Develop site specific BMP details.
 - Develop preliminary BMP maintenance schedule and cost for each site.
- Preliminary Design development plans will be presented to the Property Owner for review and discussion. Other Impervious Restoration Program details (maintenance responsibilities, easements, incentives, etc.) developed as part of the Impervious Restoration Program (see Policy Document Formulation below) will also be discussed in hopes of establishing a commitment from the Property Owner to participate in the Program. Once a "commitment" is secured from the Property Owner, the project site will be moved to Final design, permitting, and ultimately construction.

Task 2: Identify fifteen (15) new project sites for Town of Bluffton Impervious Restoration/BMP Retrofit Projects.

- The Town wishes to identify an additional 15 project sites located within the municipal limits of Bluffton for the Impervious Restoration/BMP Retrofit Program. However, the criteria for site selection will be considered to be more "low hanging fruit" based on the following:
 - o Within Town of Bluffton Municipal limits.
 - Soils sandy soils with high infiltration rates offer the biggest bang for the buck for water quality treatment/improvement.

- Utilizing soil survey and other information target sites where infiltration can be maximized on-site.
- Public or governmental agency land/property owner, not South Carolina Department of Transportation (SCDOT) Right of Way (RoW).

Town of Bluffton Impervious Restoration/BMP Retrofit Policy Documents.

Task 3: Section 5.4.4. Stormwater BMP Retrofit Projects of the 2020 May River Watershed Action Plan Update and Model Report identifies potential Impervious Restoration/BMP Retrofit projects located on Public and Private Land. As mentioned earlier, one of the primary site selection criteria, at time of report development, was to identify sites with large impervious areas so that pollutant load reductions could be estimated and the benefits of such projects on stormwater quality quantified/estimated, if implemented into construction. Generally, Public Funds are not expended to improve private property nor is the Town of Bluffton funding generally expended on Public Land owned by another government entity. In order for such projects identified in Section 5.4.4. to move forward in the interest of improved water quality and for the overall benefit and welfare of the constituents of the Town of Bluffton, Policy Documents need to be formulated that establishes the parameters of such a Program to be initiated and implemented.

Work Completed and Current Status

- The Expression of Interest was submitted to three (3) consultant firms under existing Master Service Agreements (MSAs) with the Town for review and a request for response.
- All three (3) Firms responded, and their respective responses were evaluated, scored and discussed.
- A recommendation for Award was made and the Consulting Firm of Goodwyn, Mills and Cawood selected.
 - 1. Phase I of this work is in process under existing FY22 funding from Watershed Management Division.
 - 2. Phase II of this work will be presented for Town Council review and approval in the August Town Council Meeting and FY23 funding.
- Phase I work completed by Consultant and Town:
 - 1. Review of recommendations of the 2020 MRWAP Update.
 - 2. On-site evaluations at each proposed site.
 - 3. Meetings with Beaufort County School District.
 - Six (6) of the eleven (11) sites are located on Beaufort County School District (henceforth School District) property. The School District is deemed an important project partner and as such several meetings have been held to discuss the Impervious Restoration Program and need for project BMPs to improve water quality. The School District has granted permission for the Town of Bluffton to perform initial site investigations, provided the Town with site specific plans, future

- development plans for each site, and expressed a willingness to participate in the Program.
- Drafted a Letter to Non-School Property Owners describing the Impervious Restoration Program and requesting meetings to discuss and gain support.
- 4. Policy Document Formulation has been initiated and includes research of similar Impervious Restoration Programs Nationwide.

Other, Related 2020 MRWAP Update Recommendations

- Adopt proposed regional Southern Lowcountry Post-Construction Stormwater Ordinance and Design Manual completed September 2021.
- The Town should incorporate volume reduction BMPs (those that encourage infiltration) within
 existing and future Capital Improvement Projects (CIP) to the maximum extent practical (MEP),
 especially for project locations with well-drained soils (HSG A or B) in progress, see below.
 - Work Performed and Current Status
 - Bridge Street Streetscape Project
 - Project design/permitting is complete, and Construction Contract has been awarded.
 - Incorporated Infiltration BMPs within the project to capture and treat 1.95" of rainfall over impervious surfaces within the project area, prior to discharge into the May River.
 - Received Section 319 Grant from the South Carolina Department of Health and Environmental Control (SCDHEC) to cost-share on construction of proposed BMPs.
 - Pritchard Street Drainage Improvement Project
 - Project in Design Phase and considered 30% complete.
 - Incorporated Infiltration BMPs within the project to capture and treat 1.95" of rainfall over impervious surfaces within the project area, prior to discharge into Heyward Cove and ultimately the May River.
 - Submitted Section 319 Grant proposal to SCDHEC to cost-share cost of construction of proposed BMPs. Pre-proposal was accepted, and Full Proposal was requested by SCDHEC. Under Review.
- In-House Microbial Source Tracking in progress, see below
 - The Town entered a Memorandum of Understanding (MOU) with the University of South Carolina Beaufort (USCB) in July 2021 to establish and fund a regional Microbial Source Tracking (MST) laboratory capable of accepting environmental water quality samples.
 - Analytical services are provided by the USCB-MST laboratory for all environmental samples collected by the Town.
 - Staff is working with the USCB-MST Laboratory to assess the utility of fecal markers in regional watersheds, including the May River watershed as recommended in the 2020 May River Watershed Action Plan Update and Model Report.
- Future (new) Bacteria Monitoring Locations in progress, see below

- Staff increased sampling frequency and implemented additional monitoring sites and parameters in the May River headwaters based upon recommendations in the 2020 MRWAP Update.
- Staff is collecting intermittent flow data in conjunction with grab samples at monitoring sites in the May River Headwaters as recommended in the 2020 MRWAP Update.
- Staff working with consultant to identify recommended strategies to gain required intermittent flow data.
- Future (new) Water Flow Monitoring Locations.
 - Work Performed and Current Status
 - The 2020 MRWAP Update included recommendations for the Town to perform certain rainfall and flow data measurements in May River Headwater Watersheds in order to "calibrate" and make more accurate Model predictions. These recommendations were evaluated and a game plan to address recommendations to calibrate model developed.
 - The Town of Bluffton established Sontek IQ Plus continuous flow measuring instruments in Stoney Creek, Rose Dhu Creek, and Heyward Cove subwatersheds. In addition, the Town collected intermittent flow data at the time of water quality grab sampling and established a weather station in the May River Watershed. The Town hired a consultant to review all the Town's continuous, intermittent, and precipitation data and to determine:
 - Useful data had been obtained to gain the required information to calibrate model.
 - The data obtained from Stoney Creek and Heyward Cove was deemed sufficient for Model calibration and Final report for this work has been completed.
 - Duck Pond was deemed inconsequential, not needed due to drainage area size and proximity/outfall to tidal waters.
 - o If data review resulted in insufficient data, develop a monitoring program that would produce the data needed.
 - Rose Dhu Creek continuous flow data review resulted in data that was insufficient to calibrate Model.
 - Final report identifying recommended strategies to gain required data is in process.
 - In process of purchasing telemetry stations to equip continuous flow monitoring stations with real-time data access for the Rose Dhu and Palmetto Bluff subwatersheds.



May River Watershed Action Plan Advisory Committee Meeting

Thursday, January 26, 2023 at 9:00 AM

Theodore D. Washington Municipal Building, 20 Bridge Street, Henry "Emmett" McCracken Jr.
Council Chambers

AGENDA

- I. CALL TO ORDER
- II. ROLL CALL AND CONFIRMATION OF QUORUM
- III. ADOPTION OF THE AGENDA
- **IV. ADOPTION OF MINUTES**
- V. PUBLIC COMMENTS
- VI. OLD BUSINESS
 - Adoption of 2023 Meeting Dates and Times Beth Lewis, Water Quality Program Administrator
 - Strategic Priority four (4), to Develop a Town Policy and Program with Clear Structure, Identified and Formalized Organizational Collaborations, and Goals for Green Space or Preservation Area Acquisition, and/or Retirement of Development Rights Memo to Town Council
- VII. NEW BUSINESS
- VIII. DISCUSSION
- IX. ADJOURNMENT

NEXT MEETING DATE: Proposed February 23, 2023 - Time TBD

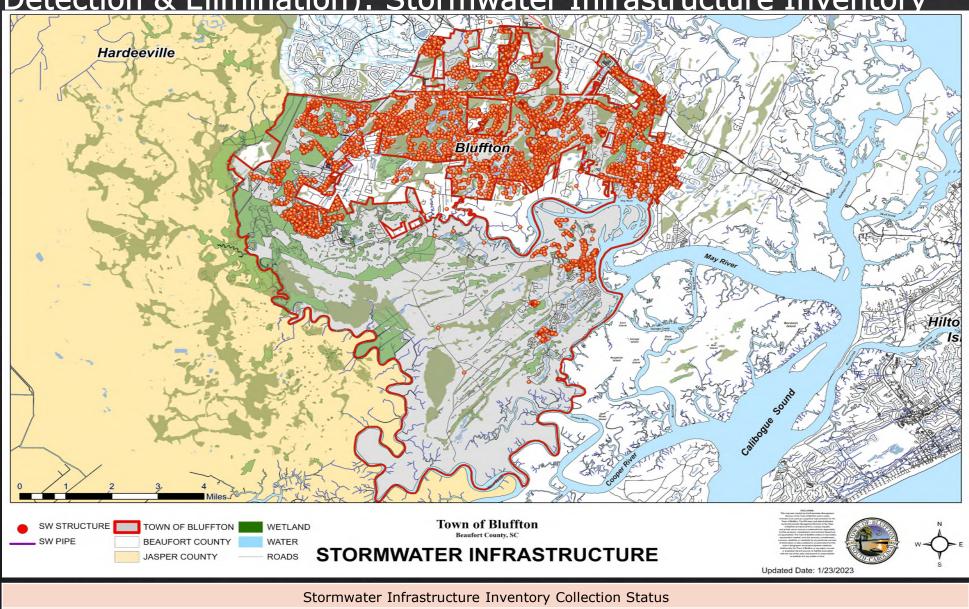
"FOIA Compliance – Public notification of this meeting has been published and posted in compliance with the Freedom of Information Act and the Town of Bluffton policies."

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA compatible. Any person requiring further accommodation should contact the Town of Bluffton ADA Coordinator at 843.706.4500 or adacoordinator@townofbluffton.com as soon as possible but no later than 48 hours before the scheduled event.

*Please note that each member of the public may speak at one public comment session and a form must be filled out and given to the Town Clerk. Public comment must not exceed three (3) minutes.

ATTACHMENT 4a

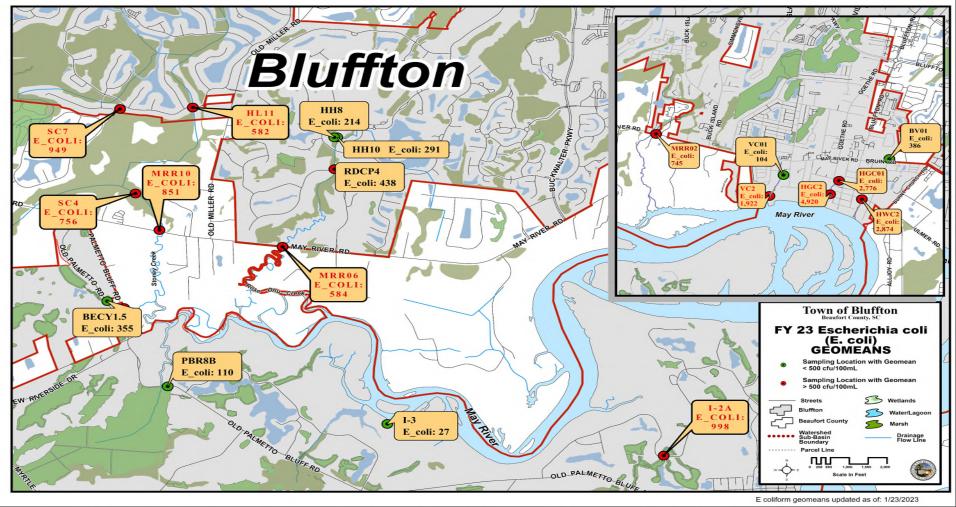
MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination): Stormwater Infrastructure Inventory



Stormwater Infrastructur	re Inventory Collection Status
Collection Totals	16,657
FY 2023 YTD Collection Totals	2,341
FY 2022 Collection Totals	2705

ATTACHMENT 4b

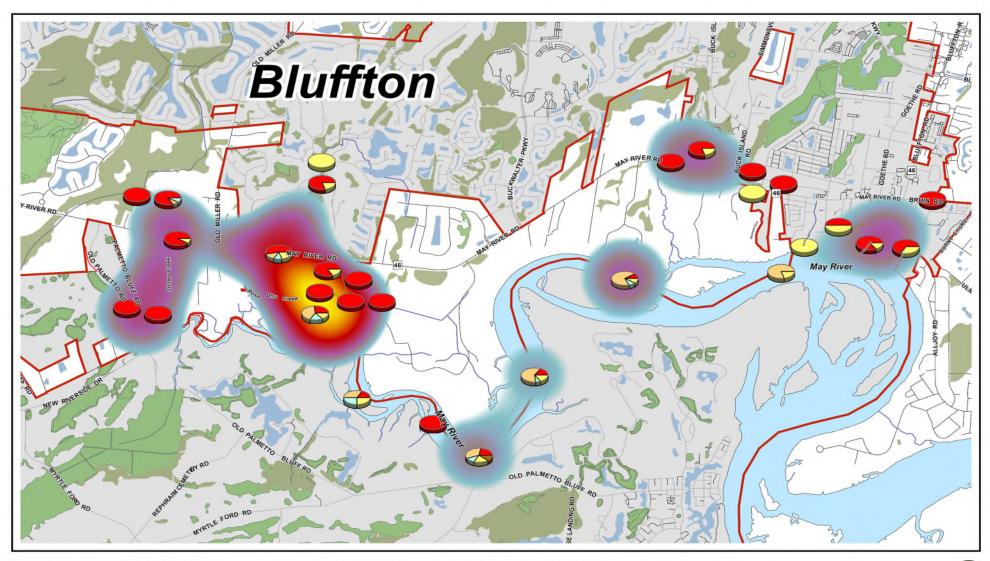
MS4 Minimum Control Measure #3 – IDDE: E. coli Concentrations Trend Map



	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2023 YTD Totals	364	54	36
FY 2022 Totals	447	78	119
FY 2021 Totals	380	115	179

ATTACHMENT 4c

MS4 Minimum Control Measure #3 - IDDE: Microbial Source Tracking (MST) Trend Map



MSTSamplingResults MST Sampling Sites

Intensity of samples Representative of Low Sampling Distribution Representative of High Sampling Distribution

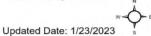
MICROBIAL SOURCE TRACKING (MST) LOCATIONS

Samples at Sites With Positive Detection and the Intensity of Positive Hits

Town of Bluffton

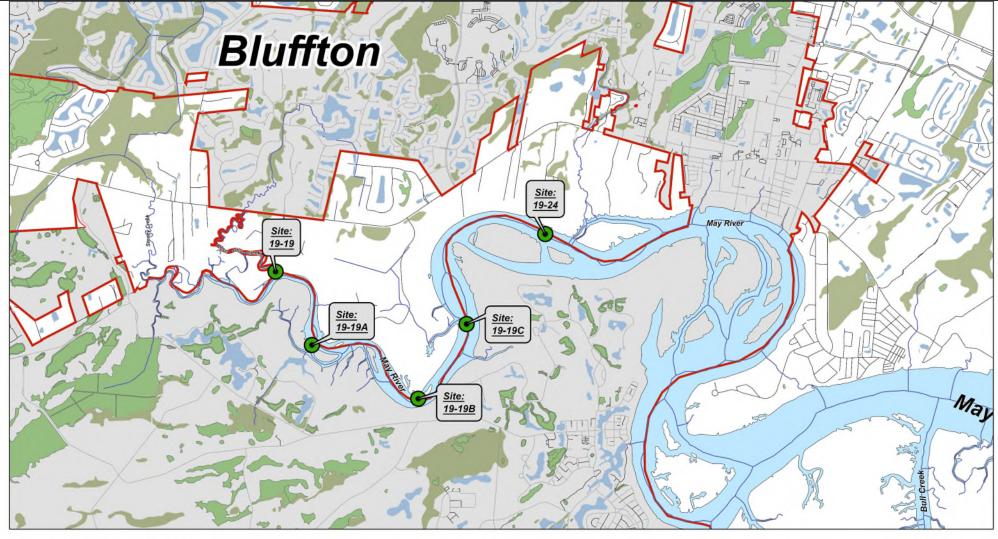






ATTACHMENT 4d

<u>MS4 Minimum Control Measure #3 – IDDE:</u> <u>Microbial Source Tracking (MST) Map – Human Sources</u>



MST Sampling Location Without Detection

MST Sampling Location With Detection

Sampling Results December 2022

MICROBIAL SOURCE TRACKING LOCATIONS

Street
Town Jurisdiction County Jurisdiction

Town of Bluffton



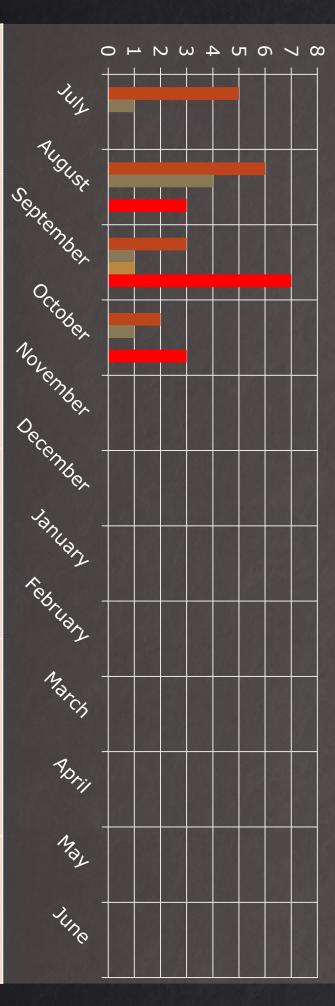


MS4 Minimum Control Measure #3 – IDDE: <u>Illicit Discharge Investigations</u>

- Number of Illicit Discharge Investigations
- Number of Notice of Violation

Number of Citations Issued

Number of Meetings



	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2023 YTD Totals	16	7	н	13
FY 2022 Totals	30	5	ω	17
FY 2021 Totals	36	11	1	29
				1/2//2023

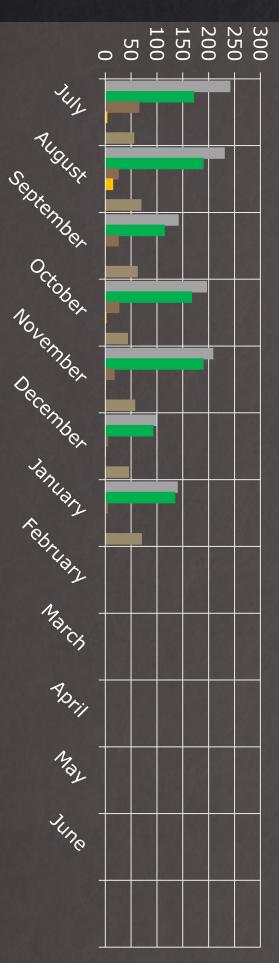
Construction Site Stormwater Runoff Control MS4 Minimum Control Measure #4 -

- Erosion & Sediment Control Inspections (E&SC)
- Number of Inspections Passed
- Number of Notice of Violation (NOV)

Number of Stop Work Orders (SWO)

Number of Citations Issued

Number of Erosion & Sediment Control Meetings



	FY 2021 Totals	FY 2022 Totals	FY 23 YTD Totals	
	1,805	3127	1260	Number of Sediment & Erosion Control Inspections
	1,527	2701	1063	Number of Inspections Passed
	267	392	173	Number of NOVs Number of SWO Issued
	32	49	24	Number of SWO Issued
	4	0	0	Number of Citations Issued
1/2//2023	413	673	408	Number of E&SC Meetings

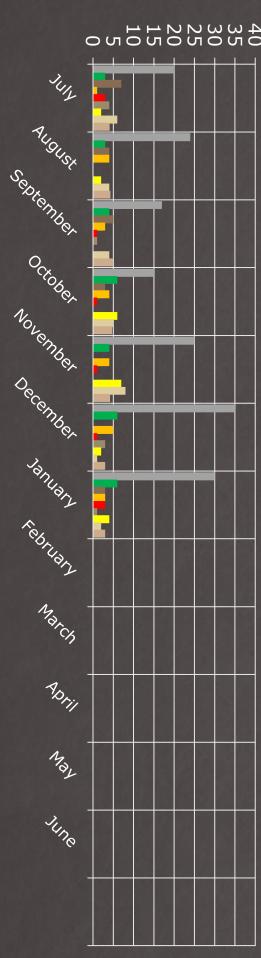
Stormwater Plan Review & Related Activity MS4 Minimum Control Measure #5

- Plan Reviews/MS4 Reviews
- Sureties
- Pre-Construction Meetings
- Post-Constructions BMP Inspections
- Plan Review Hours (x10)

SoLoCo Plan Reviews

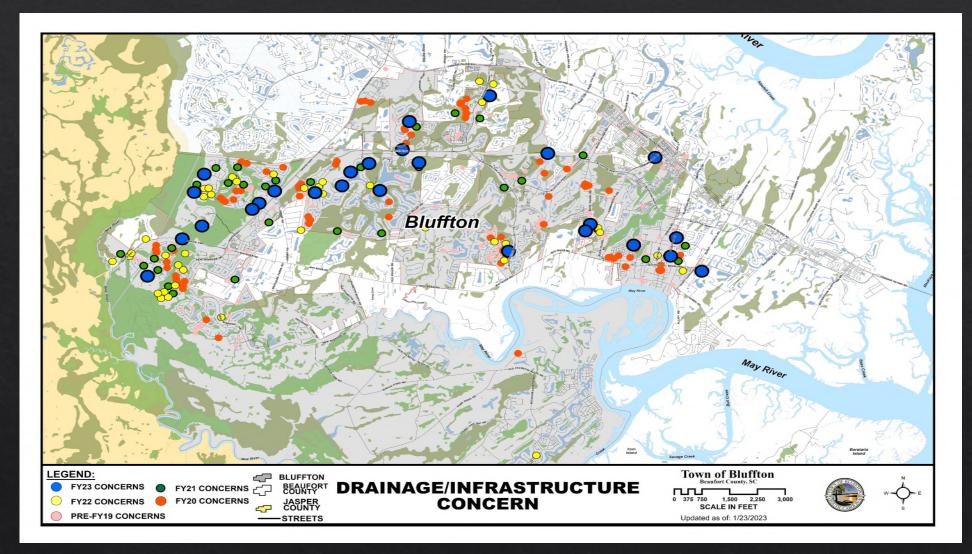
Certificate of Construction Compliance Inspections

- Pre-Clearing Inspections
- Pre-Application Meetings



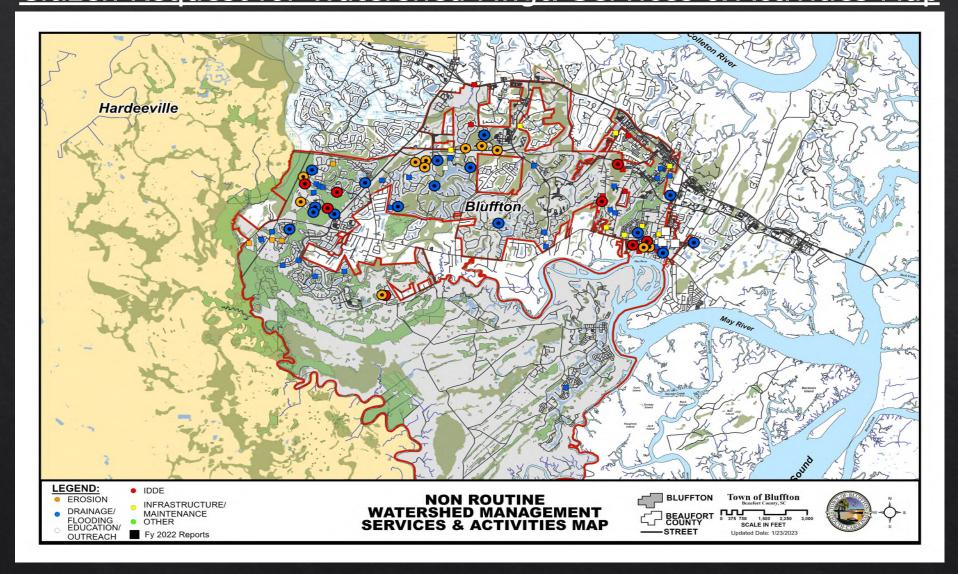
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	SoLoCo Plan Sureties Inspections	Pre- Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Post Pre-Clearing Construction Pre-Application Inspections BMP Meetings Inspections	Total Plan Review Hours
FY 2023 YTD	166	32	22	24	10	9	23	30	282 Hrs.
FY 2022 Totals	231	13	42	26	30	23	44	26	454 Hrs.
FY 2021 Totals	186	0	61	55	24	24	22	41	789 Hrs.

ATTACHMENT 7 <u>Citizen Drainage, Maintenance and Inspections Concerns Map</u>



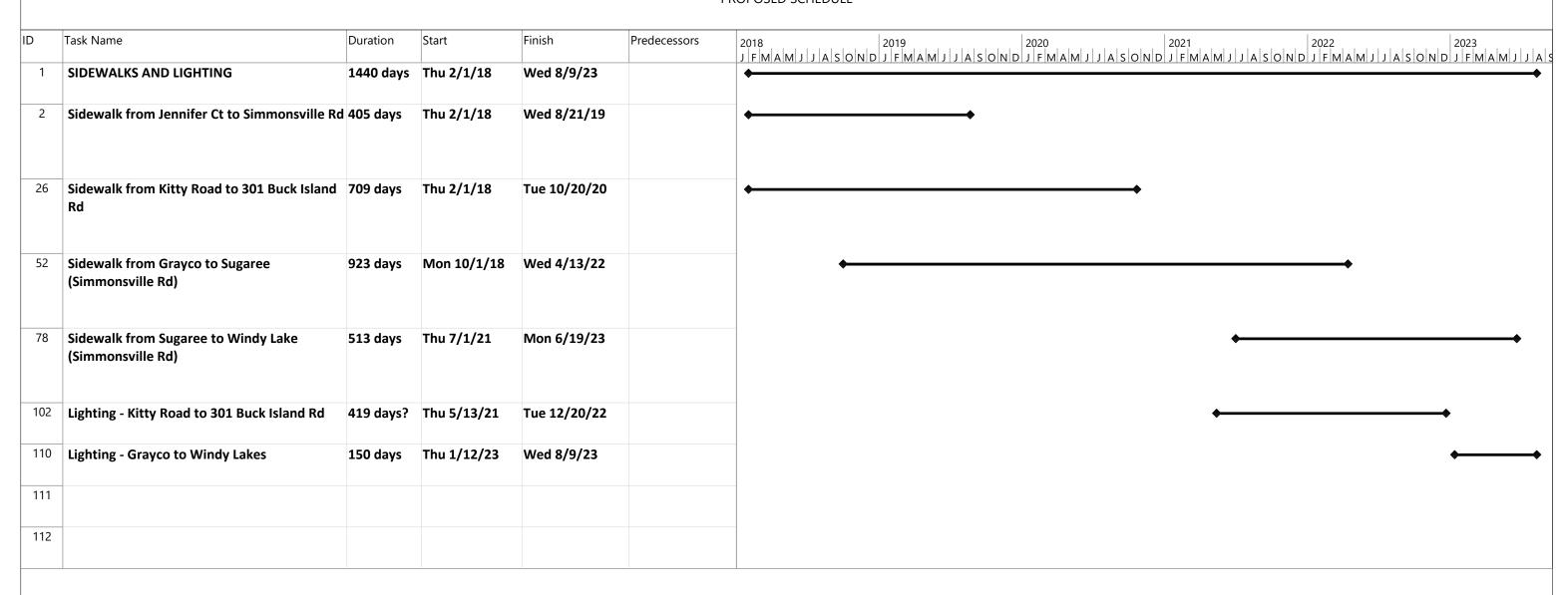
	Number of Drainage Concerns Investigated	Number of Meetings
FY 2023 YTD Totals	46	38
FY 2022 Totals	38	34
FY 2021 Totals	45	39

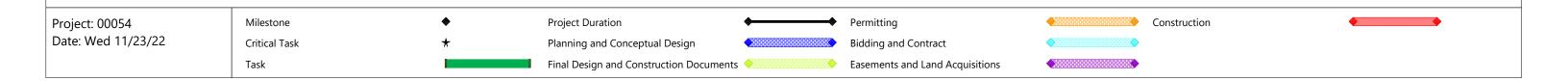
ATTACHMENT 8 Citizen Request for Watershed Mngt. Services & Activities Map



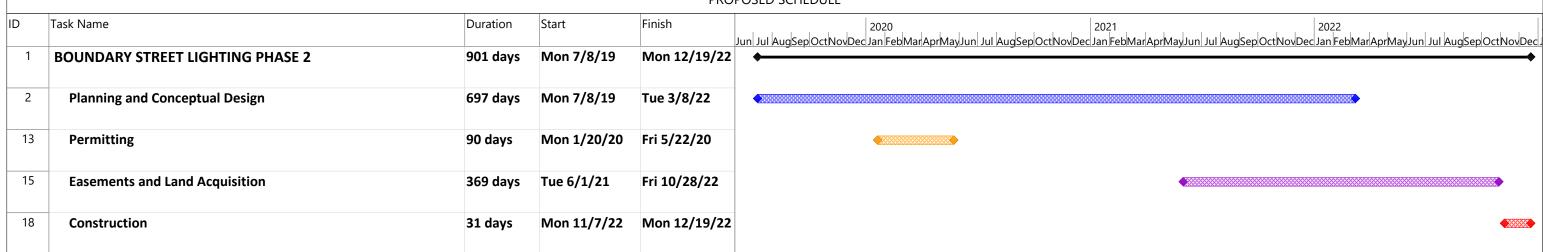
	Number of Citizen Requests Investigated	Number of Meetings
FY 2023 YTD Totals	7	10
FY 2022 Totals	33	21
FY 2021 Totals	46	36

BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS PROPOSED SCHEDULE





BOUNDARY STREET LIGHTING PROPOSED SCHEDULE



Project: 00069 Date: Thu 7/7/22 Permitting

Easements and Land Acquisition

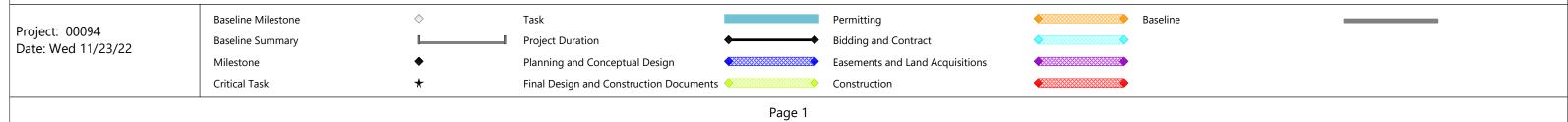
Bidding and Contract

Construction

Page 1

BOUNDARY STREET STREETSCAPE PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessors	Finish	Quarter 4th Quarter 1st Quarter 2nd Quarter 3rd Quarter 4th Quarter 1st Quarter 2nd Quarter 3rd Quarter 4th Quarter 2nd Quarter 4th Quarter 2nd Quarter 4th Quarter 2nd Quarter 4th Quarter 2nd Qu
1	BOUNDARY STREET STREETSCAPE	689 days	Mon 9/7/20		Thu 4/27/23	•
2	Planning and Conceptual Design	379 days	Mon 9/7/20		Thu 2/17/22	
14	Final Planning and Construction Documents	260 days	Fri 2/18/22		Thu 2/16/23	
20	Permitting Phase	130 days	Fri 10/28/22		Thu 4/27/23	
25	Easements and Land Acquisition	116 days	Fri 10/28/22		Fri 4/7/23	

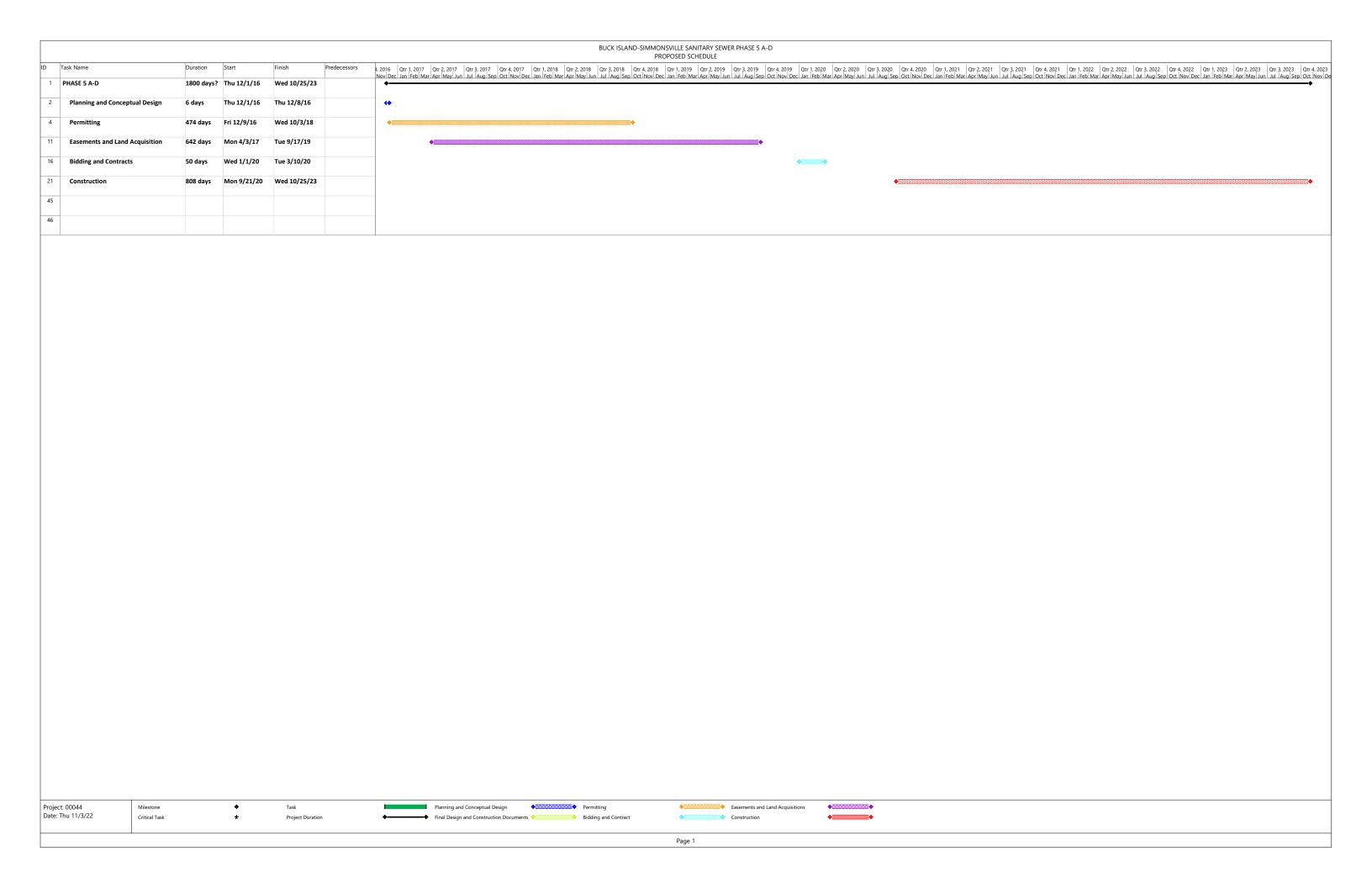


BRIDGE STREET STREETSCAPE PROPOSED SCHEDULE

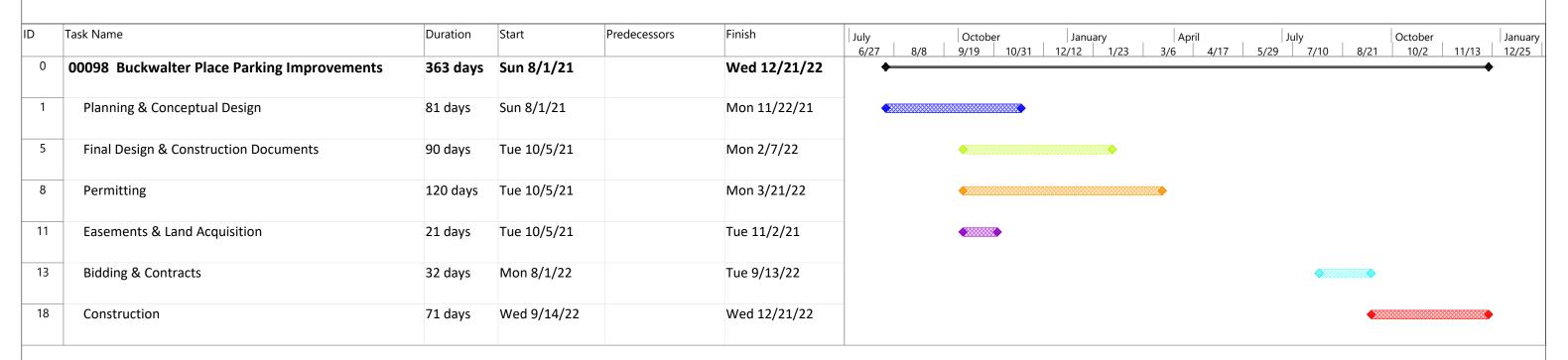
ID	Task Name	Duration	Start	Finish	September October November December January February March April May June July August September October 9/4 9/18 10/2 10/16 10/30 11/13 11/27 12/11 12/25 1/8 1/22 2/5 2/19 3/5 3/19 4/2 4/16 4/30 5/14 5/28 6/11 6/25 7/9 7/23 8/6 8/20 9/3 9/17 10/1 10/15 1
1	Bridge Street Streetscape	287 days	Tue 9/20/22	Wed 10/25/23	•
2	Construction	287 days	Tue 9/20/22	Wed 10/25/23	

Project: 00082 Milestone **Project Duration** Permitting Construction Date: Tue 1/17/23 Critical Task Planning and Conceptual Design Easements and Land Acquisition Final Design and Construction Documents Bidding and Contracts Task

		MAY RIVER ROAD POCKET PARK PROPOSED SCHEDULE		
ne	Duration Start Finish		February March April May June July August September October November December 16 1/23 1/30 2/27 3/6 3/13 3/20 3/27 4/3 4/10 4/17 4/24 5/1 5/8 5/15 5/22 5/25 6/12	
Buck Island Rd Drainage Improvements	658 days Wed 7/1/20 Fn 1/6/23			
s Island Rd Design and Construction Documents st Island Bidding and Contracts	218 days Mon 1/4/21 Wed 11/3/21 247 days Thu 11/4/21 Fri 10/14/22	•	♦	
s Island Construction	60 days Mon 10/17/22 Fri 1/6/23			
Milestone 9/22	◆ Critical Task	★ Task Project Duration ♦ Planning and Conceptual Design ♦ Final Design and Construction Documents ♦	Bidding and Contract Seaments and Land Acquisitions Source Construction	
		Page 1		



184 BLUFFTON ROAD PARKING IMPROVEMENTS PROPOSED SCHEDULE



Project: 00064
Date: Thu 7/7/22

Milestone

Critical Task

Task

Milestone

Project Duration

Permitting

Construction

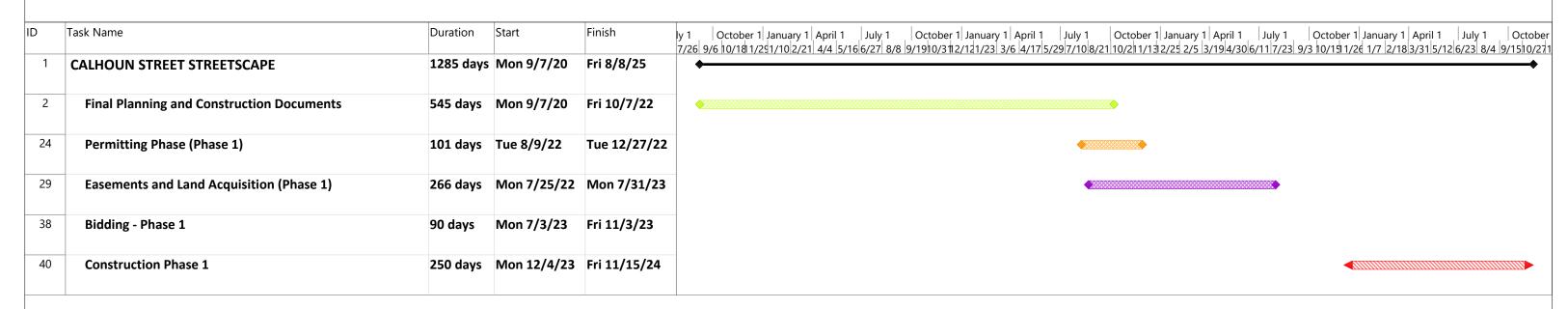
Permitting

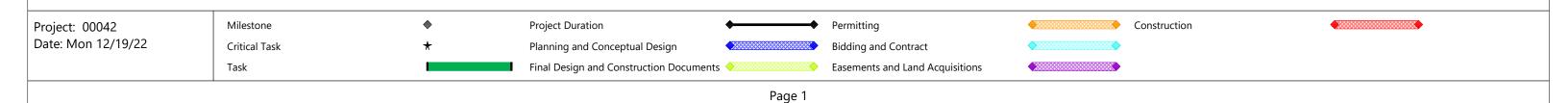
Easements and Land Acquisition

Bidding and Contracts

Bidding and Contracts

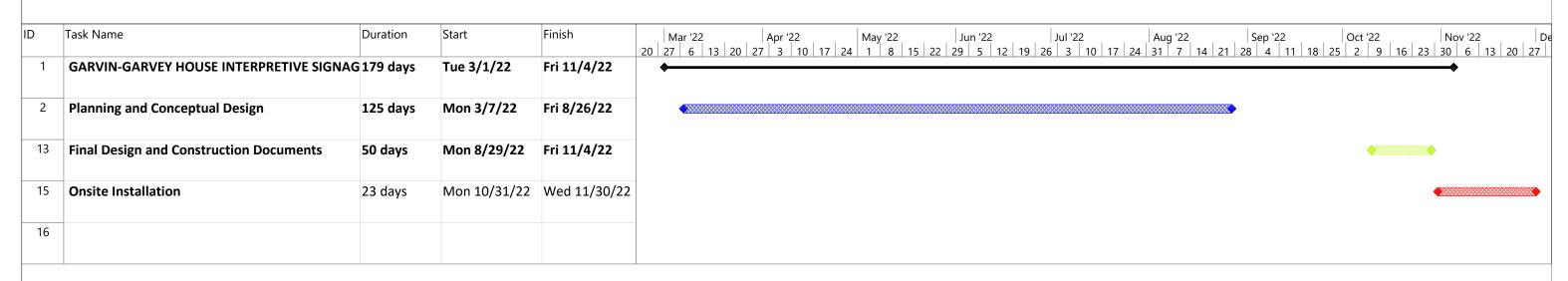
CALHOUN STREET STREETSCAPE PROPOSED SCHEDULE





Competition for the contraction for the contra

GARVIN-GARVEY HOUSE INTERPRETIVE SIGNAGE PROPOSED SCHEDULE



Project: 00081
Date: Mon 9/19/22

Milestone
Critical Task
Task
Planning and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

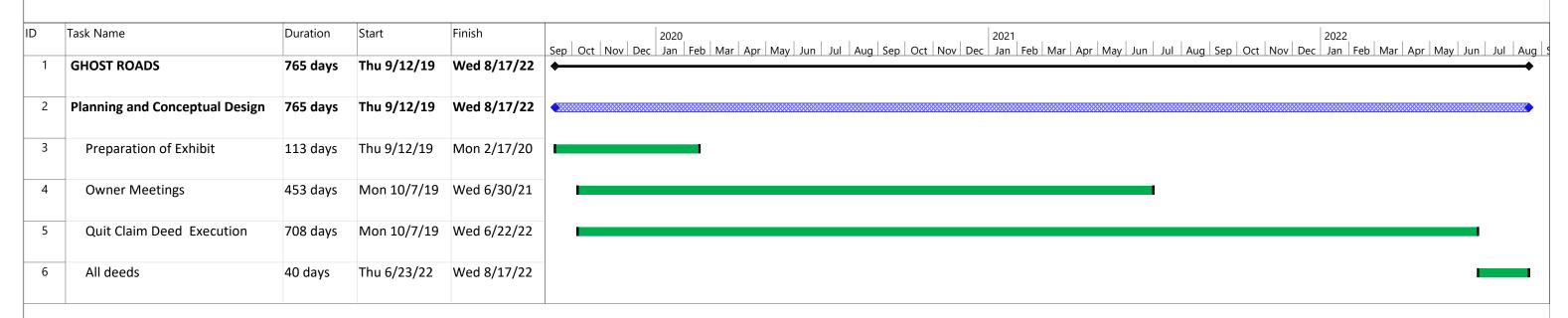
Easements and Land Acquisition
Bidding and Contracts

Permitting

Construction

Construction

GHOST ROADS PROPOSED SCHEDULE



Project: 00093
Date: Wed 11/23/22

Milestone

Critical Task

Task

Milestone

Project Duration

Permitting

Construction

Final Design and Conceptual Design

Bidding and Contracts

Construction

Bidding and Contracts

GOETHE-SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2 PROPOSED SCHEDULE Start Finish ID Task Name Duration 1, 2018 Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2022 Half 2, 2022 Mar May Jul Sep Nov Jan GOETHE/SHULTS NEIGHBORHOOD IMPROVEMENTS 970 days Mon 4/30/18 Fri 1/14/22 PHASE 2 PLANNING AND CONCEPTUAL DESIGN 326 days Mon 4/30/18 Mon 7/29/19 12 FINAL DESIGN AND CONSTRUCTION DOCUMENTS 209 days Tue 7/30/19 Fri 5/15/20 21 128 days Mon 5/18/20 Wed 11/11/20 PERMITTING 25 **EASEMENTS AND LAND ACQUISITION** 187 days Mon 4/6/20 Tue 12/22/20 **BIDDING AND CONTRACTS** 101 days Tue 12/1/20 Tue 4/20/21 CONSTRUCTION 468 days Wed 4/21/21 Fri 2/3/23

Project: 00055
Date: Mon 9/19/22

Miletstone
Critical Task
Planning and Conceptual Design
Final Design and Construction Documents
Bidding and Contracts

Construction

Construction

Bidding and Contracts

Construction

Construction

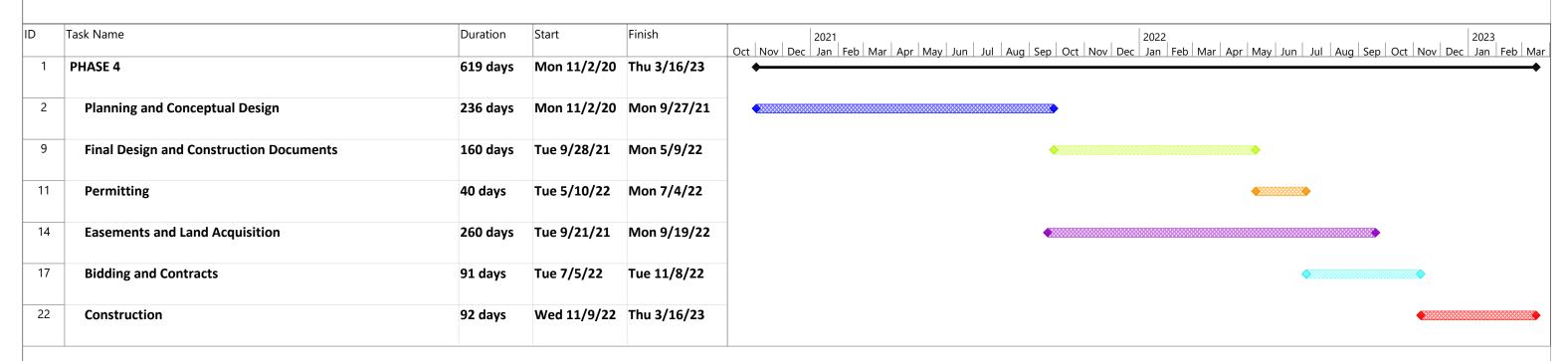
Construction

Construction

Documents

Bidding and Contracts

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4 PROPOSED SCHEDULE



Project: 00073
Date: Thu 7/7/22

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisitions
Bidding and Contracts

Permitting

Construction

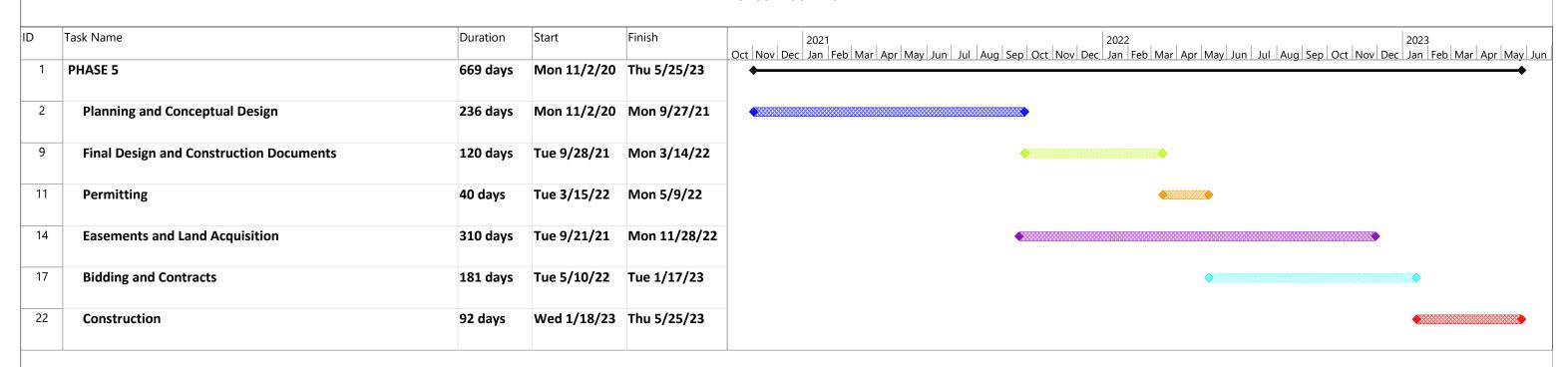
Construction

Construction

Construction

Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 5 PROPOSED SCHEDULE



Project: 00074
Date: Wed 11/23/22

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisitions
Bidding and Contracts

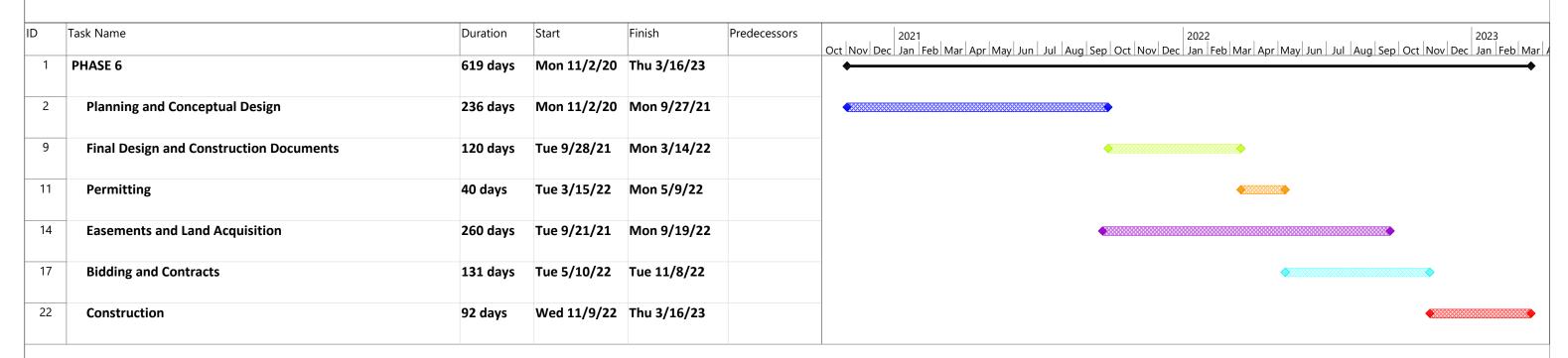
Permitting

Construction

Construction

Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 6 PROPOSED SCHEDULE



Project: 00075
Date: Thu 7/7/22

Critical Task
Task

Final Design and Construction Documents

Permitting

Construction

Construction

Construction

Construction

Easements and Land Acquisitions

Bidding and Contracts

Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Half 2, 2018
1	PHASE 2	1285 days	Mon 7/2/18	Fri 6/2/23		•
2	Planning and Conceptual Design	185 days	Mon 7/2/18	Fri 3/15/19		
10	Final Design and Construction Documents	20 days	Mon 3/18/19	Fri 4/12/19		
12	Permitting	55 days	Mon 4/15/19	Fri 6/28/19		
15	Easements and Land Acquisition	550 days	Mon 7/1/19	Fri 8/6/21		
17	Redesign and Construction Documents	185 days	Mon 2/28/22	Fri 11/11/22		
22	Bidding and Contracts	42 days	Mon 11/14/22	Tue 1/10/23		
27	Construction	103 days	Wed 1/11/23	Fri 6/2/23		

Project: 00071
Date: Thu 11/3/22

Milestone
Critical Task
Task
Task

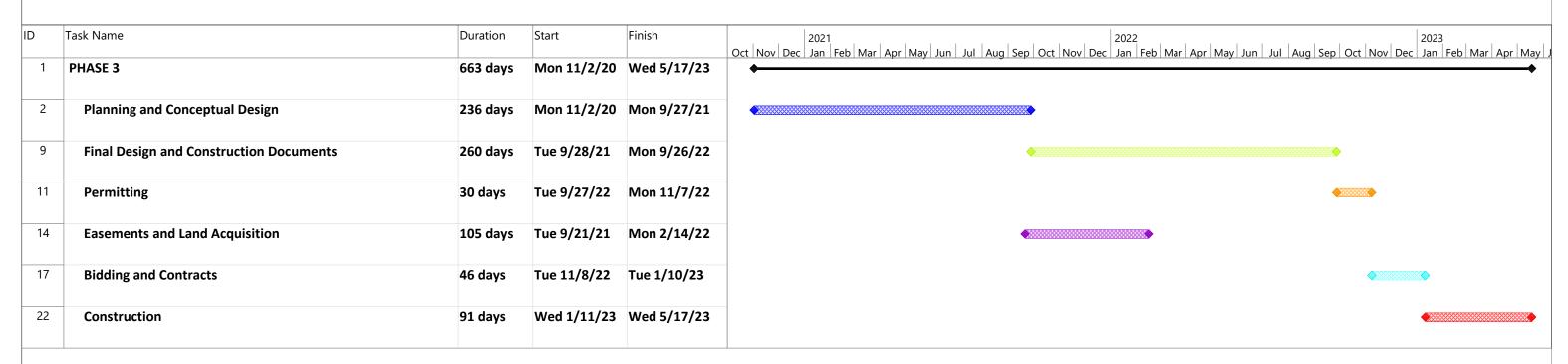
Project Duration
Permitting
Construction

Permitting
Easements and Land Acquisitions
Bidding and Contracts

Permitting

Bidding and Contracts

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3 PROPOSED SCHEDULE



Project: 00072
Date: Thu 11/3/22

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisitions
Bidding and Contracts

Permitting

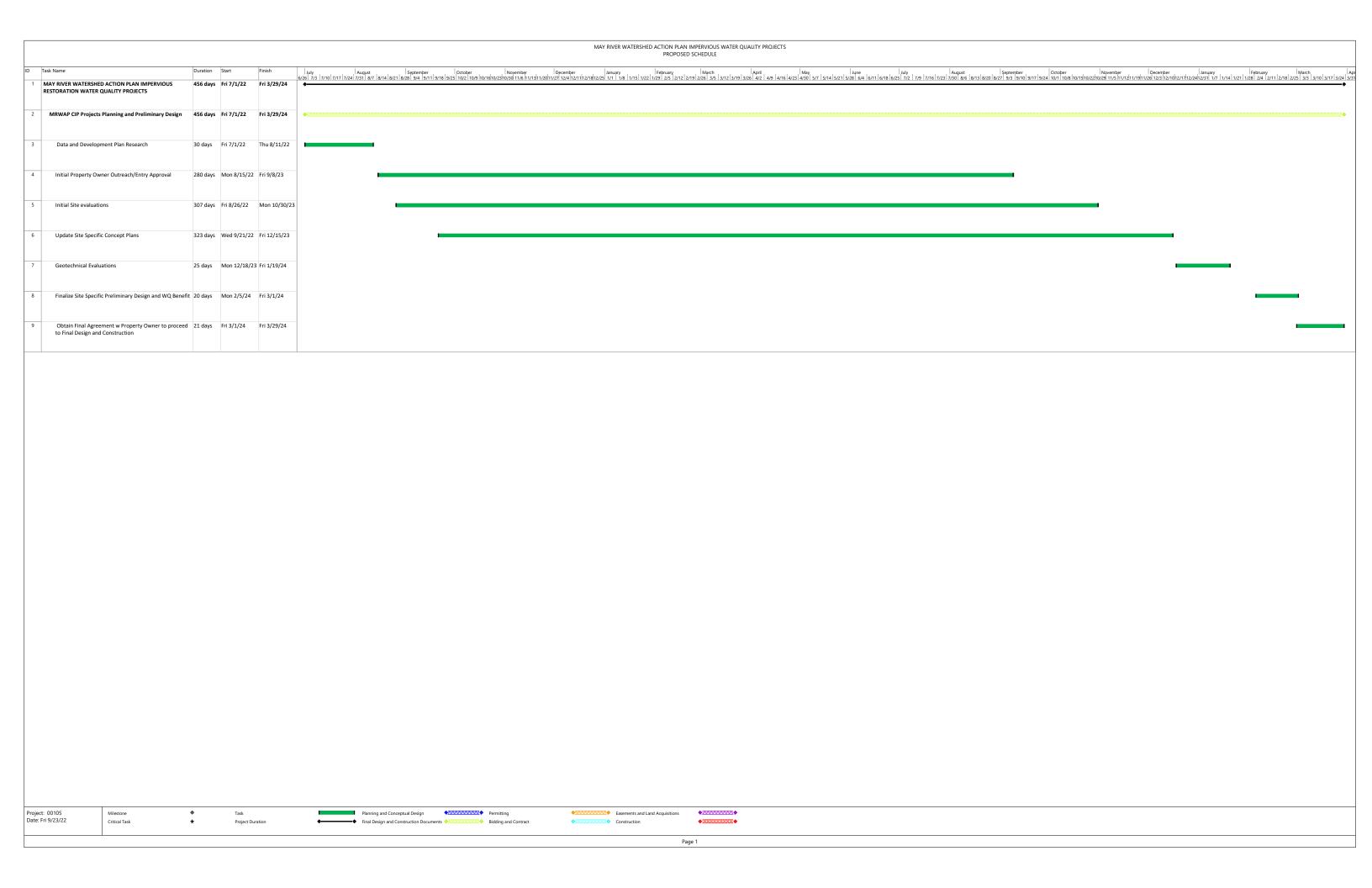
Construction

Construction

Construction

		BUCKWALTER MULTI-COUNTY COMMERCE PARK LEC EXPANSION - PROPOSED SCHEDULE	
sk Name	Duration Start Finish 1042 days Wed 11/18/20 Thu 11/14/24	Personner January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April Mary June July August September October November December January February March April	ne July August September October 6/9 6/23 7/7 7/21 8/4 8/18 9/1 9/15 9/29 10/
EC Expansion Parking and Site Improvements	1042 days Wed 11/18/20 Thu 11/14/24 161 days Wed 11/18/20 Wed 6/30/21	◆	
Reflection Plaza	162 days Mon 3/14/22 Tue 10/25/22	$ \bullet_{\text{COMM}} $	
Challenge Course	49 days Wed 10/12/22 Mon 12/19/22	♦ 2000000000000000000000000000000000000	
Facility Improvements	639 days Mon 6/6/22 Thu 11/14/24	♦	
077 Milestone 0/19/22	◆ Critical Task	Task Project Duration P	
		Page 1	

MAY RIVER ROAD POCKET PARK PROPOSED SCHEDULE Task Name Duration Start Finish | July | August | September | October | November | December | January | February | March | April | May | June | July | August | September | October | November | October | Thu 7/1/21 Tue 11/8/22 1 MAY RIVER ROAD POCKET PARK 354 days Planning and Conceptual Design Thu 7/1/21 Thu 9/2/21 46 days **Final Planning and Construction Documents** 140 days Fri 9/3/21 Thu 3/17/22 94 days Mon 11/29/21 Thu 4/7/22 Permitting **Bidding and Contract** 48 days Fri 3/18/22 Tue 5/24/22 Construction 106 days Tue 6/14/22 Tue 11/8/22 Project: 00080 Date: Wed 11/23/22 Planning and Conceptual Design ◆ Easements and Land Acquisitions → Final Design and Construction Documents ◆ Bidding and Contract ◆ Construction Critical Task Project Duration Page 1



NRIVER LINEAR TRAIL 617 days Mon 7/5/21 Tue 11/14/23	NEW RIVER LINEAR TRAIL	NEW RIVER LINEAR TRAIL					NEW RIVER LINEAR TRAIL PROPOSED SCHEDULE
M RIVER LINEAR TRAIL 617 days Mon 7/5/21 Tue 11/14/23 Inning 121 days Mon 7/5/21 Mon 12/20/21 Mon 12/20/21 Mon 12/20/21 Mon 2/20/23 Initting 121 days Thu 2/2/23 Thu 7/20/23 Initting and Contracts 55 days Fri 7/21/23 Thu 10/5/23	Planning	NEW RIVER LINEAR TRAIL 617 days Mon 7/5/21 Tue 11/14/23 Planning 121 days Mon 7/5/21 Mon 12/20/21 Final Planning and Construction Documents 154 days Fri 7/11/22 Wed 2/1/23 Permitting 121 days Thu 2/2/23 Thu 7/20/23 Bidding and Contracts 55 days Fri 7/21/23 Thu 10/5/23 Submit Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23 Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23 Contract for TC Approval 1 day Tue 11/14/23 Contract for TC Approval	Task Name	Duration	Start	Finish	July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July
Il Planning and Construction Documents 154 days Fri 7/1/22 Wed 2/1/23 mitting 121 days Thu 2/2/23 Thu 7/20/23 ding and Contracts 55 days Fri 7/21/23 Thu 10/5/23	Final Planning and Construction Documents 154 days Fri 7/1/22 Wed 2/1/23 Permitting 121 days Thu 2/2/23 Thu 7/20/23 Bidding and Contracts 55 days Fri 7/21/23 Thu 10/5/23 Submit Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23 Tue 11/14/23 Tue 11/14/23	Final Planning and Construction Documents 154 days Fri 7/1/22 Wed 2/1/23 Permitting 121 days Thu 2/2/23 Thu 7/20/23 Bidding and Contracts 55 days Fri 7/21/23 Thu 10/5/23 Submit Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23 I us 11/14/2	NEW RIVER LINEAR TRAIL	617 days	Mon 7/5/21	Tue 11/14/23	
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ding and Contracts 55 days Fri 7/21/23 Thu 10/5/23	Bidding and Contracts 55 days Fri 7/21/23 Thu 10/5/23	Bidding and Contracts 55 days Fr1 7/21/23 Thu 10/5/23 Submit Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23	4 Final Planning and Construction Documents	154 days	Fri 7/1/22	Wed 2/1/23	•
	Submit Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23	Submit Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23	Permitting	121 days	Thu 2/2/23	Thu 7/20/23	
	Submit Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23	Submit Contract for TC Approval 1 day Tue 11/14/23 Tue 11/14/23	2 Bidding and Contracts	55 days	Fri 7/21/23	Thu 10/5/23	
			9	2 day	140 11/11/25	140 11, 14, 23	
			10				
			11				
			12				
			3				
			4				
			15				

Final Design and Construction Documents Easements and Land Acquisition

Permitting

Planning and Conceptual Design

Bidding and Contracts

Construction

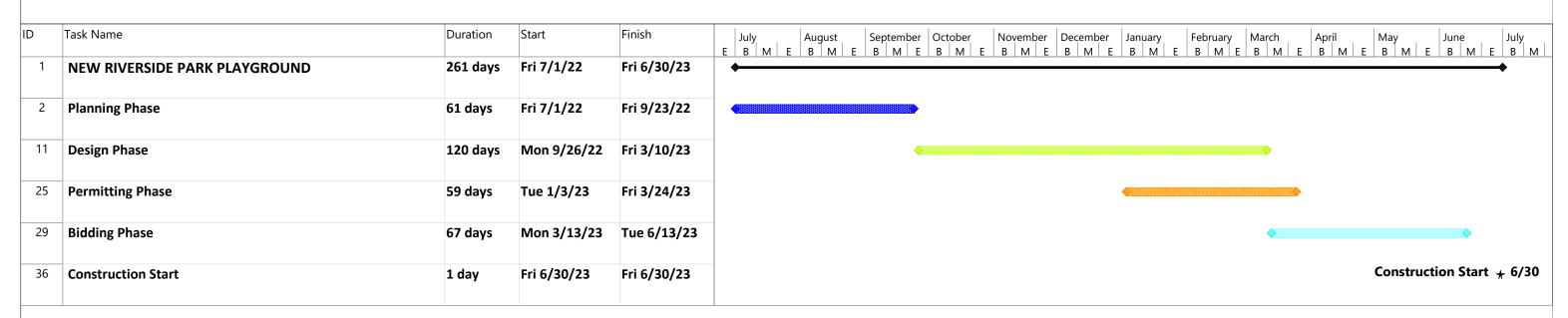
Project 00092 Wed 11/9/22 Project Duration

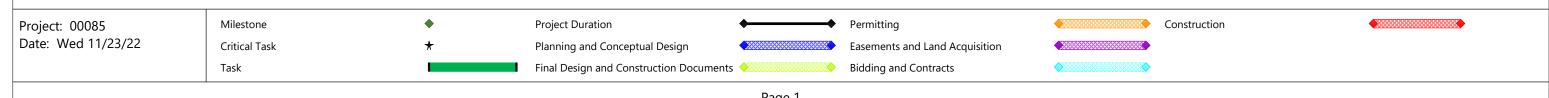
Task

Critical Task

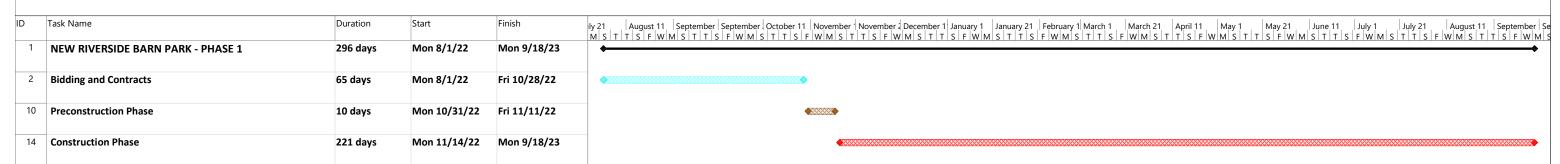
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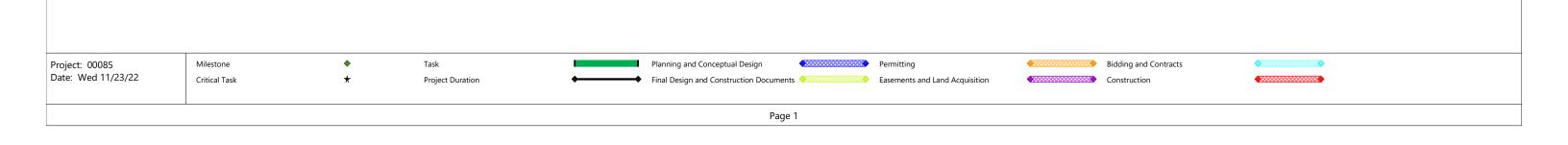
NEW RIVERSIDE PARK - PLAYGROUND AREA PROPOSED SCHEDULE



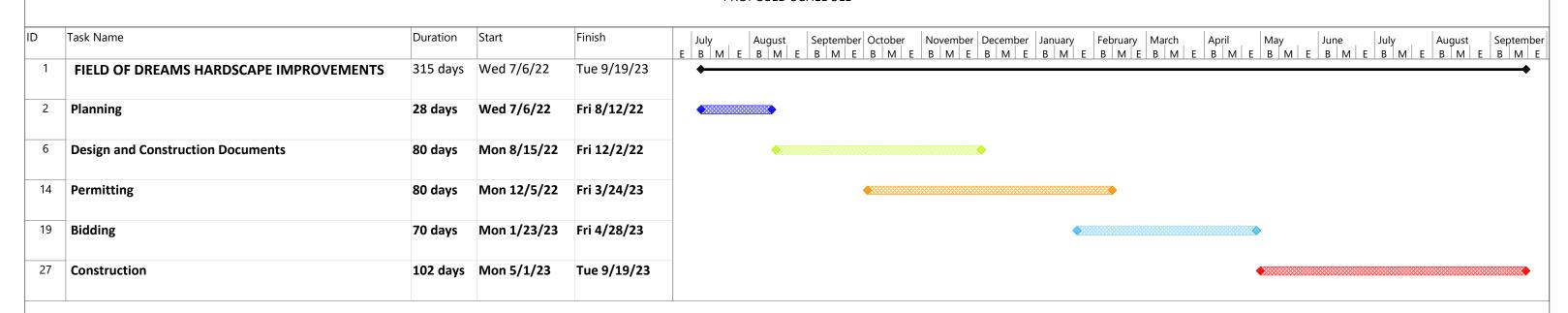


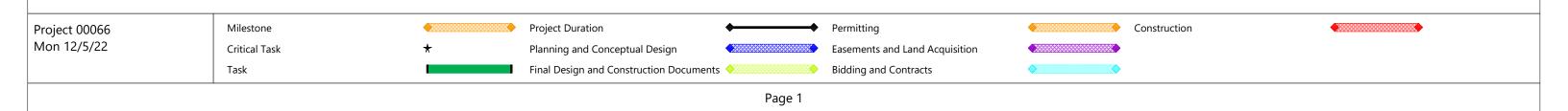
NEW RIVERSIDE BARN PARK - PHASE 1 PROPOSED SCHEDULE





OSCAR FRAZIER PARK PROPOSED SCHEDULE

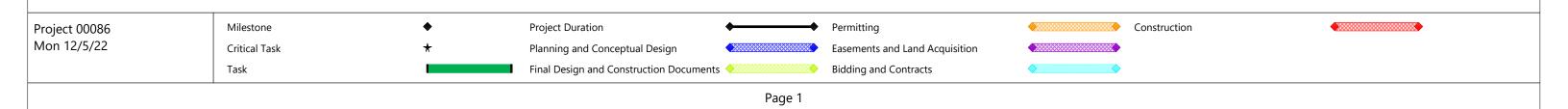




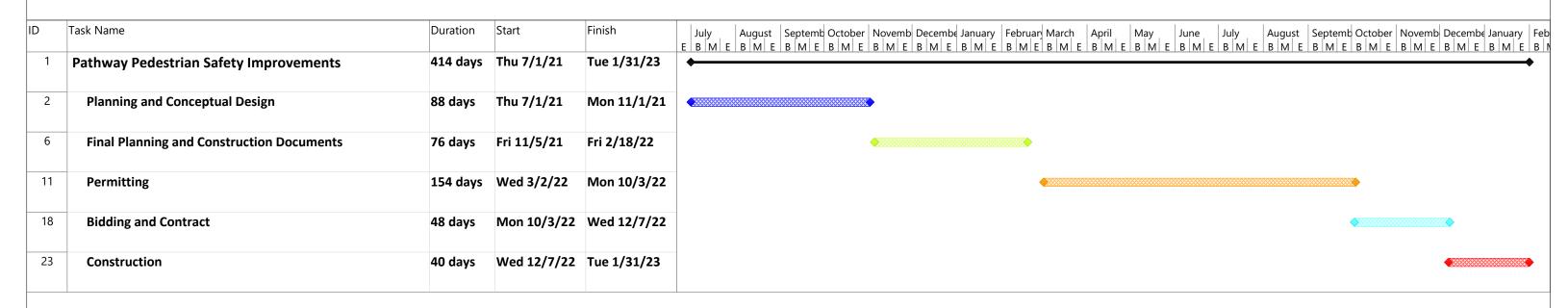
0 000	Name O059 Oyster Factory Parking Improvements		Start Mon 8/15/22	Finish Mon 5/8/23	ust September October November December January February March April May 8/7 8/14 8/21 8/28 9/4 9/11 9/18 9/25 10/2 10/9 10/16 10/2 10/3 11/6 11/13 1/2 1/27 12/4 12/11 1/28 1/25 1/1 1/8 1/15 1/22 1/29 2/5 2/12 2/19 2/26 3/5 3/12 3/19 3/26 4/2 4/9 4/16 4/23 4/30
		191 days	Mon 8/15/22	Mon 5/8/23	
1 0					
	Oyster Factory Park	191 days	Mon 8/15/22	Mon 5/8/23	+
2	Pre Construction	91 days	Mon 8/15/22	Mon 12/19/22	
6	Construction	90 days	Tue 1/3/23	Mon 5/8/23	

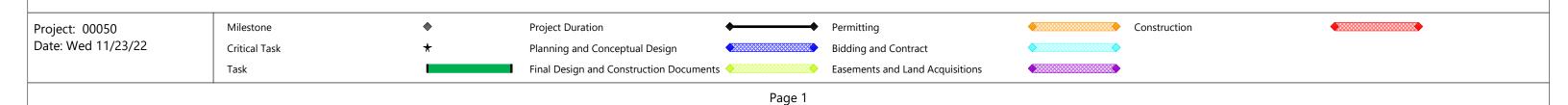
Project: 00059
Date: Wed 11/23/22
Critical Task
Planning and Conceptual Design
Final Design and Construction Documents
Bidding and Contracts
Construction

PARK IMPROVEMENTS PROPOSED SCHEDULE Task Name Start Finish August 2022 September 202 October 2022 November 202 December 2022 January 2023 February 2023 March 2023 April 2023 May 2023 June 2023 E B M E B Duration July 2 **PARK IMPROVEMENTS - FY 23** 240 days Mon 8/1/22 Fri 6/30/23 **2** Final Planning and Construction Documents 122 days Mon 8/1/22 Tue 1/17/23 10 **Bidding and Contracts** 55 days Mon 1/23/23 Fri 4/7/23 16 **Construction** 60 days Mon 4/10/23 Fri 6/30/23



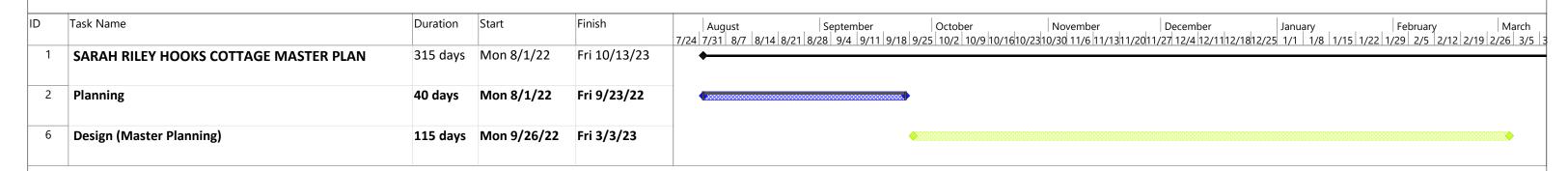
PATHWAY PEDESTRIAN SAFETY IMPROVEMENTS PROPOSED SCHEDULE

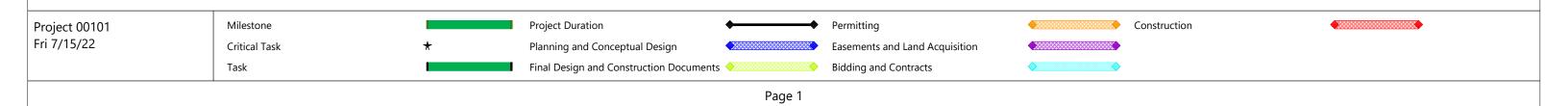




PRITCHARD STREET DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE Task Name Duration Start Finish | July | August | September | October | November | December | Dece 1 PRITCHARD STREET DRAINAGE IMPROVEMENTS 543 days Fri 7/1/22 Tue 7/30/24 201 days Fri 7/1/22 Fri 4/7/23 **Pritchard Street Design and Construction Documents** Pritchard Street Bidding and Contracts 37 days Mon 4/10/23 Tue 5/30/23 **Pritchard Street Construction** 139 days Wed 5/31/23 Mon 12/11/23 Project: 00106 Date: Fri 9/23/22 Task Planning and Conceptual Design Permitting Easements and Land Acquisitions ♦:::::::::::::::::::::::::::: Critical Task → Final Design and Construction Documents ◆ Bidding and Contract Page 1

SARAH RILEY HOOKS MASTER PLANNING FY 23 PROPOSED SCHEDULE





WHARF STREET LIGHTING PROPOSED SCHEDULE ID Finish Task Name Duration 2023 Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug WARF STREET LIGHTING Mon 7/5/21 552 days Tue 8/15/23 **Planning and Conceptual Design** 2 352 days Mon 7/5/21 Tue 11/8/22 Wed 11/9/22 Tue 3/14/23 12 Permitting 90 days 14 **Easements and Land Acquisition 160 days** Wed 11/9/22 Tue 6/20/23 17 Construction 200 days Wed 11/9/22 Tue 8/15/23

