



COUNTY COUNCIL OF BEAUFORT COUNTY  
ADMINISTRATION BUILDING  
BEAUFORT COUNTY GOVERNMENT ROBERT SMALLS COMPLEX  
100 RIBAUT ROAD  
POST OFFICE DRAWER 1228  
BEAUFORT, SOUTH CAROLINA 29901-1228  
TELEPHONE: (843) 255-2000  
FAX: (843) 255-9401  
www.bcgov.net

D. PAUL SOMMERVILLE  
CHAIRMAN

GERALD W. STEWART  
VICE CHAIRMAN

COUNCIL MEMBERS

RICK CAPORALE  
MICHAEL E. COVERT  
GERALD DAWSON  
BRIAN E. FLEWELLING  
STEVEN G. FOBES  
YORK GLOVER, SR.  
ALICE G. HOWARD  
STEWART H. RODMAN  
ROBERTS "TABOR" VAUX

GARY T. KUBIC  
COUNTY ADMINISTRATOR

JOSHUA A. GRUBER  
DEPUTY COUNTY ADMINISTRATOR

THOMAS J. KEAVENY, II  
COUNTY ATTORNEY

ASHLEY M. BENNETT  
CLERK TO COUNCIL

AGENDA  
PUBLIC FACILITIES COMMITTEE  
WORKSHOP

Monday, January 30, 2017

1:00 p.m.

Executive Conference Room, Administration Building  
Beaufort County Government Robert Smalls Complex  
100 Ribaut Road, Beaufort

Committee Members:  
Stu Rodman, Chairman  
York Glover, Vice Chairman  
Rick Caporale  
Michael Covert  
Alice Howard  
Jerry Stewart  
Roberts "Tabor" Vaux

Staff Support:  
Colin Kinton, Division Director  
Transportation Engineering  
Eric Larson, Division Director  
Environmental Engineering  
Robert McFee, Division Director  
Facilities and Construction Engineering

1. CALL TO ORDER – 1:00 P.M.
2. DISCUSSION OF A POTENTIAL ORDINANCE ALLOWING NIGHTTIME USE OF GOLF CARTS IN DESIGNATED PORTIONS OF THE COUNTY ([backup](#))
3. CONCLUDE DISCUSSION ON 2015 AND 2016 COMPLETED, IN PROCESS, AND FUNDED PROJECTS ([backup](#))
4. OVERVIEW OF US 278 IMPROVEMENTS
5. INTRODUCTION AND DISCUSSION OF PENDING AND NEW CAPITAL PROJECTS
6. IDENTIFICATION OF POTENTIALLY "SHOVEL READY" PROJECTS
7. DIALOG WITH STAFF / OPEN ISSUES / FUTURE AGENDA ITEMS
8. ADJOURNMENT



**SECTION 56-2-105.** Golf cart permit and the operation of a golf cart.

(A) For the purposes of this section, "gated community" means any homeowners' community with at least one access controlled ingress and egress which includes the presence of a guard house, a mechanical barrier, or another method of controlled conveyance.

(B) An individual or business owner of a vehicle commonly known as a golf cart may obtain a permit decal and registration from the Department of Motor Vehicles upon presenting proof of ownership and liability insurance for the golf cart and upon payment of a five dollar fee.

(C) During daylight hours only:

(1) A permitted golf cart may be operated within four miles of the address on the registration certificate and only on a secondary highway or street for which the posted speed limit is thirty-five miles an hour or less.

(2) A permitted golf cart may be operated within four miles of a point of ingress and egress to a gated community and only on a secondary highway or street for which the posted speed limit is thirty-five miles an hour or less.

(3) Within four miles of the registration holder's address, and while traveling along a secondary highway or street for which the posted speed limit is thirty-five miles an hour or less, a permitted golf cart may cross a highway or street at an intersection where the highway has a posted speed limit of more than thirty-five miles an hour.

(4) A permitted golf cart may be operated along a secondary highway or street for which the posted speed limit is thirty-five miles an hour or less on an island not accessible by a bridge designed for use by automobiles.

(D) A person operating a permitted golf cart must be at least sixteen years of age and hold a valid driver's license. The operator of a permitted golf cart being operated on a highway or street must have in his possession:

(1) the registration certificate issued by the department;

(2) proof of liability insurance for the golf cart; and

(3) his driver's license.

(E) A golf cart permit must be replaced with a new permit every five years, or at the time the permit holder changes his address.

(F)(1) A political subdivision may, on designated streets or roads within the political subdivision's jurisdiction, reduce the area in which a permitted golf cart may operate from four miles to no less than two miles.

(2) A political subdivision may, on primary highways, secondary highways, streets, or roads within the political subdivision's jurisdiction, create separate golf cart paths on the shoulder of its primary highways, secondary highways, streets and roads for the purpose of golf cart transportation, if:

(a) the political subdivision obtains the necessary approvals, if any, to create the golf cart paths; and

(b) the golf cart path is:

(i) separated from the traffic lanes by a hard concrete curb;

(ii) separated from the traffic lanes by parking spaces; or

(iii) separated from the traffic lanes by a distance of four feet or more.

(3) In a county with a population of no less than one hundred fifty thousand and no more than two hundred fifty thousand persons:

(a) if a municipality has jurisdiction over a barrier island, the municipality may enact an ordinance allowing for the operation of a golf cart at night on designated

portions of the barrier island within the municipality, provided the golf cart is equipped with working headlights and rear lights; or

(b) if a barrier island is not within the jurisdiction of a municipality, the county in which the barrier island is located may enact an ordinance allowing for the operation of a golf cart at night on designated portions of the county, provided the golf cart is equipped with working headlights and rear lights.

If a municipality or county enacts an ordinance allowing golf carts to operate at night on a barrier island, the requirements of subsection (C), other than operation in daylight hours only, shall still apply to all permitted golf carts.

(4) A political subdivision may not reduce or otherwise amend the other restrictions placed on the operation of a permitted golf cart contained in this section.

(G) The provisions of this section that restrict the use of a golf cart to certain streets, certain hours, and certain distances shall not apply to a golf cart used by a public safety agency in connection with the performance of its duties.

HISTORY: 2012 Act No. 177, Section 1, eff October 1, 2012; 2015 Act No. 86 (S.211), Section 1, eff June 8, 2015; 2016 Act No. 246 (H.5118), Section 1, eff June 6, 2016.

#### Editor's Note

2016 Act No. 246, Section 2, provides as follows:

"SECTION 2. Any municipal or county ordinance enacted pursuant to Section 56-2-105(F)(3) shall expire on January 1, 2021."

#### Effect of Amendment

2015 Act No. 86, Section 1, in (E), added the paragraph designators, added (2), and redesignated the former second sentence as (3).



2016 Act No. 246, Section 1, in (A), deleted the hyphen between "access" and "controlled"; added (C); inserted former (B)(1) through (B)(4) under (C); in (C)(1) through (C)(4), deleted "During daylight hours only," at the beginning; redesignated former (C) through (F) as (D) through (G); in (E), deleted designator (1), and deleted (2), relating to golf cart owners holding permits on or before October 1, 2012; added (F)(3), including (a), (b), and the undesignated paragraph following (b), relating to a county with a population of no less than one hundred fifty thousand and no more than two hundred fifty thousand persons; and redesignated former (E)(3) as (F)(4).

Status of Priority Investment Chapter - 10-Year Capital Improvements Plan

#	Title of Project	Project Completed or Underway	Project not initiated
Public Safety			
1	Public Safety Misc. Improvements		
	Detention Center - Create additional housing Capacity	X	
	Animal Control Improvements (Small Building)	X	
	Administration Building - Security improvements	X	
	Myrtle Park Bluffton Office - Security Improvements	X	
	Rear Chemical Storage Building (Up-Fits)	X	
	New Helicopter Hangar (Up-Fits)	X	
2	Courthouse - Security system replacement, exterior improvements	X	
3	Animal Shelter - Southern Beaufort County		
	Construction of a 24,000 sf Facility	X	
	Land (10 acres)	X	
4	Detention Center Expansion - Property		
	Purchase alternate housing site		X
	Design of duplex apartment		X
	Construction of duplex apartment		X
	Buy Smith property		X
	Relocate residents		X
	Realign Marsh Drive		X
	A&E Fees		X
5	Detention Center Expansion - Construction		
	A&E Fees		X
	Construction		X
6	LEC, EM, EMS and MIS Complex @ \$43,863,234		
	24 Acres for LEC, EM, EMS and MIS Complex		X
	Demo & Site Work for LEC, EM, EMS and MIS Complex		X
	Construction 70,000 sf for LEC & EM Facility		X
	Sheriff's Office (50,000 sf)		
	Emergency Management Center (20,000 sf)		
	Construction 35,000 sf for EMS & MIS Facility		X
	EMS (17,500 sf) - Relocation of Existing Facility		
	MIS (17,500 sf) - Relocation of Existing Facility	X	
	A&E Fees		
	LEC		X
	EMS		X
	Sale of Depot Road Facility		X
	Arthur Horne Building		
	Building Improvements for Magistrates	X	
7	EMS Facilities within Fire Stations		
	2010		
	EMS Station Palmetto Bluff - New Fire Station	X	
	EMS Station Lady's Island - LISH FD HQ Renovations	X	
	2014		
	EMS Station Burton Area - New Fire Station	X	
DSN			
8	DSN - Build 2 New CTH Homes North of the Broad River		
	Replacement of Ivy Lane CTH Home	X	
	Replacement of Broad River CTH Home	X	
	Cottage Walk (project not in original Priority Investment Chapter)	X	
9	DSN - Purchase 5 Apartments/Townhouses for Supported Living		X
10	DSN - Build 2 New CTH Homes in Bluffton		
	Bluffton 1	X	
	Bluffton 2	X	
11	Administration Building / Program Building - Funded in 2008 CIP	X	

Status of Priority Investment Chapter - 10-Year Capital Improvements Plan

#	Title of Project	Project Completed or Underway	Project not initiated
Emergency Management			
12	Misc. Improvements		
	TMC Cameras	X	
	Mobile Data Computer Replacements	X	
	ITS Camera Installation (Hurricane Evacuations)	X	
	Automatic Vehicle Locator		X
13	Radio Central Control System Replacement, Phase I & II		
	Phase I	X	
	Phase II	X	
14	Computer Aided Dispatch (CAD) Replacement		X
15	Outdoor Warning System - Funded in 2008 CIP	X	
Boat Landings			
16	Boat Landings		
	White Hall Boat Landing - Parking Improvements	X	
	Port Royal Boat Landing - Parking Improvements	X	
	Alljoy Boat Landing - Float/dock system improvements		X
	Butches Island (project not in original Priority Investment Chapter)	X	
	White Hall Boat Landing - Ramp/Float/Dock Improvements		X
	Wallace Creek Boat Landing - Ramp/Float/Dock		X
	Paige Point (project not in original Priority Investment Chapter)	X	
	Station Creek Boat Landing - Ramp/Float/Dock	X	
	Hilton Head Island - New Facility		X
	C.C. Haigh Jr. Boat Landing - Ramp/Float/Dock	X	
	Alljoy Boat Landing - Parking Improvements		X
	Lady's Island (Whitehall) Boat Landing - Parking Improvements	X	
	Fort Frederick Access Road Improvements	X	
	Sands Boat Landing - Parking Improvements	X	
	May River Boat Landing - New Facility	X	
	Station Creek Boat Landing - Parking Improvements		X
	Broad River Boat Landing - New Facility	X	
	Sams Point Boat Landing - Parking Improvements	X	
	New River Boat Landing - New Facility		X
	Brickyard Point Boat Landing - Parking Improvements		X
	Russ Point Boat Landing - Parking Improvements		X
	Okatie River - New Facility (Access from SC 170)		X
	Grays Hill Boat Landing - Parking Improvements		X
	Combahee Boat Landing - New Facility		X
	Warsaw Island Boat Landing - New Facility		X
	Village or Coffin Creek - New Facility		X
	Subtotal	X	X
Public Works			
25	PW - CIP		
	Storm Water Utility - New Addition	X	
	Grounds Maintenance - New Office Building		X
	Public Works Office - Expansion / Improvements		X
	Grounds Maintenance - New Storage / Equipment Shed		X
	General Support / Roads & Drainage North - New Office		X
	Facility Maintenance - New Workshop / Warehouse	X	
	Grounds Maintenance - Burton Wells Maintenance Shed		X
	Public Works South Office - Addition / Improvements		X
26	Regional Solid Waste Transfer Facility		
	Land		
	Property Acquisition (20 Acres @ 50,000 / Acre)		X
	Pre-Development Costs		X
	Construction & Equipment		
	Constructing Transfer Station		X
	(Reduced Disposal Fees will Offset O&M)		
	Constructing RTE		X
	(Revenue Generated will Offset O&M)		
	Equipping Transfer Station		X
	Equipping MRF		X

Status of Priority Investment Chapter - 10-Year Capital Improvements Plan

#	Title of Project	Project Completed or Underway	Project not initiated
27	Modernization of 3 Convenience Centers		
	St. Helena Facility	X	
	Hilton Head Facility	X	
	Simmonsville Facility	X	
Libraries			
28	Beaufort Library		
	Renovation - Beaufort Br. Phase II	X	
	Renovation - Beaufort Br. Phase I	X	
29	New Regional Library - N. Beaufort Co. (St. Helena)	X	
	Note: Funding Sources: Impact Fees Grants G.O. Bonds & Donations		
30	Lobeco - New Branch		
	Renovation and Add-on		X
	Land Purchase		X
31	Pritchardville - New Branch		
	Land Purchase		X
	Development & Construction Cost		X
32	Okatie - New Branch		
	Land Purchase		X
	Development & Construction Cost		X
33	Lady's Island - New Branch		
	Land Purchase		X
	Development & Construction Cost		X
34	Hilton Head Island - New Branch (Renovation and Add-on)		X
35	Burton Wells		
	New Branch		X
	Move Tech Office, Admin & IT		X
36	Renovation at Beaufort Library Phase III		
	Renovation and Add-on		X
	Parking		
	Land Cost		X
	Facility (50 spaces)		X
	Subtotal	X	X
Administrative Office Space			
37	South County General Administration Building		
	Land (5 acres) - (Purchased Myrtle Park Bldg.)	X	
	Construction of 31,798 sf Facility	X	
	Current Lease: \$338,000 - New Operating Cost: \$300,000		
	Net Operational Difference: (38,000)		
	Construction of 97,908 sf Addition or Facility		X
38	South County Human Services Building		
	Land (5 acres)		X
39	Construction of 60,000 sf Facility		X
40	Voter Registration / Warehouse BIV #6		
	Construction of 10,000 sf Facility	X	
	Current O&M: \$50,000 - Projected O&M: \$20,000		
	Net Operational Difference: (30,000)		
Planning			
41	Fishing Village - Option Selection and Cost Development TBD		X



Status of Priority Investment Chapter - 10-Year Capital Improvements Plan

#	Title of Project	Project Completed or Underway	Project not initated
PALS - South			
42	Buckwalter Park - One Year Soccer Field and Light 3	X	
43	Buckwalter Park - Complete Rec Center	X	
44	Buckwalter Park - Aquatics Center		X
45	Buckwalter Park - Baseball Complex		X
46	Develop Camp St. Marys		X
47	Purchase 25 Acres in Okatie	X	
48	Develop Daufuskie Park	X	
49	Okatie Park Development		X
50	Develop Jones Tract Park		X
51	Develop Okatie Preserve	X	
52	Buckwalter Tennis Center		X
53	Complete Buckwalter Passive Areas		X
54	Develop Altamaha	X	
PALS - North			
55	Lady's Island Park Development (Crystal Lake - land)	X	
56	Improvements to Existing Facilities		
	Bladen Street Tennis Courts - Lights	X	
	Bladen Street Tennis Courts - Resurfacing	X	
	Indoor Pools Resurfacing	X	
	Mink Point Center Improvements	X	
57	Lady's Island Community Park Phase I	X	
58	Improvements to Existing Facilities		
	Agnes Major Center Expansion		X
	Scott Center Restroom / Picnic Shelter		X
	Greene Street Center Parking Lot Resurfacing		X
	Gloria Potts' Center Restroom & Picnic Shelter		X
59	Fort Fremont Park Phase II Ranger Station / RR (Interpretive Center)	X	
60	Lady's Island Community Park Phase II	X	
61	Burton Wells Phase III (Adult Complex)	X	
62	St. Helena Park Expansion	X	
63	Lady's Island Community Park Phase III		X
64	Burton Wells Tennis Complex		X
65	Grays Hill Neighborhood Park		X
66	Lands End Neighborhood Park		X
67	Lobeco Community Park		X
68	Castle Rock / Jericho Park		X
69	Gloria Potts' Park Expansion		X
70	Burton Wells Park Phase IV (Road)		X
	Necessary to Accommodate New Library		

Status of Priority Investment Chapter - 10-Year Capital Improvements Plan

#	Title of Project	Project Completed or Underway	Project not initiated
Hilton Head Island Airport			
71	Tree Obstruction Removal / Mitigation (South)	X	
72	New Aircraft Rescue & Fire Fighting Station	X	
73	Tree Obstruction Removal / Mitigation (North)	X	
74	Air Carrier Terminal Expansion / Renovations		X
75	Tree Obstruction Removal / Mitigation (Sides)		X
76	Commercial Terminal Automobile Parking Expansion		X
77	New Taxiways / Apron Expansion / Heliport	X	
78	Land Acquisition (Dillon Road)		X
79	Precision Approach (ILS) Equipment Installation	X	
80	Runway / Taxiway Rehabilitation	X	
81	Aircraft Hangars	X	
82	Land Acquisition (Summit Drive)	X	
Beaufort County Airport (at Lady's Island)			
83	Tree Obstruction Removal / Mitigation	X	
84	Runway Overlay / Widening / Grooving	X	
85	Parking Lot Relocation / Sanitary Sewer		X
86	Parallel Taxiway / Apron Expansion / Heliport		X
87	Runway Extension		X
88	Terminal Expansion		X
89	Apron Expansion / Fuel Farm Upgrade		X
90	Aircraft Hangars		X

Road Projects			
1	US 17 Widening	X	
2	US 278 Signal System & ITS Architecture Plan & Street Lighting	X	
3	Burnt Church Road Phase 1 Widening	X	
4	SC 46 Widening	X	
5	US 21/SC 802 Connector		X
6	Bluffton Parkway Phase 5A (actual construction cost)	X	
7	Bluffton Parkway Phase 5B		X
8	Squire Pope Road & US 278	X	
9	US 21 (Boundary Street) Improvements & Parallel Road	X	
10	SC 802 (Ribaut Road) Improvements	X	
11	US 278 (WH Pkwy) Resurfacing	X	
12	US 278 Frontage Roads	X	
13	Simmonsville Road Widening	X	
14	US 21/SC 802 Widening & Savannah Hwy Widening	X	
15	US 278 Widening, Phases 2 & 3	X	
16	SC 170 Widening (US 278 to SC 46)	X	
17	US 21 Business Improvements		X
18	Malphrus Road/US 278 & Foreman Hill Road Connection	X	
19	Northern Beaufort Bypass Feasibility Study	X	
20	SC 170 Robert Smalls Parkway		X
21	Old Miller Road Extension		X

Status of Priority Investment Chapter - 10-Year Capital Improvements Plan

#	Title of Project	Project Completed or Underway	Project not initiated
22	Transit Service (LRTA)		X
23	Joe Frazier Road Improvements		X
24	Sams Point Road/Brickyard/Holly Hall Intersection	X	
25	US 278 Widening Phase 4		X
26	Bluffton Parkway Phase 6		X
27	Buck Island Road Widening		X
28	Bruin Road Extension		X
29	Burnt Church Road Widening Phase 2		X
30	Western Beaufort Bypass		X
31	US 21 Widening		X
32	Midtown Drive & Broad River Drive Connection (Shell Point)		X
33	US 278 Bridge Widening	X	
34	SC 46/SC 170 Widening		X
35	Robert Smalls to Ribaut Road Connector		X
36	Commerce Park Roadway Improvements		X
37	Beaufort - Yemassee Rail-Trail	X	

# County Retrofit Project: Beaufort County Administration Parking Lot

## Activity: Demonstration BMP

### Township: Port Royal Island

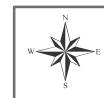
Project Schedule: FY 2015

Project Cost: \$327,768



#### Drainage

TYPE	
River	— Roadside
Creek/Stream	— Roadside Pipe
River/Creek/Marsh BANK	— Road Pipe
Channel (fka Outfall)	— Crossline Pipe
Channel Pipe	— Driveway Pipe
Lateral	— Access Pipe
Lateral Pipe	— Bleeder Pipe



0 210 420 840 1,260 1,680 Feet

1 inch = 563 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

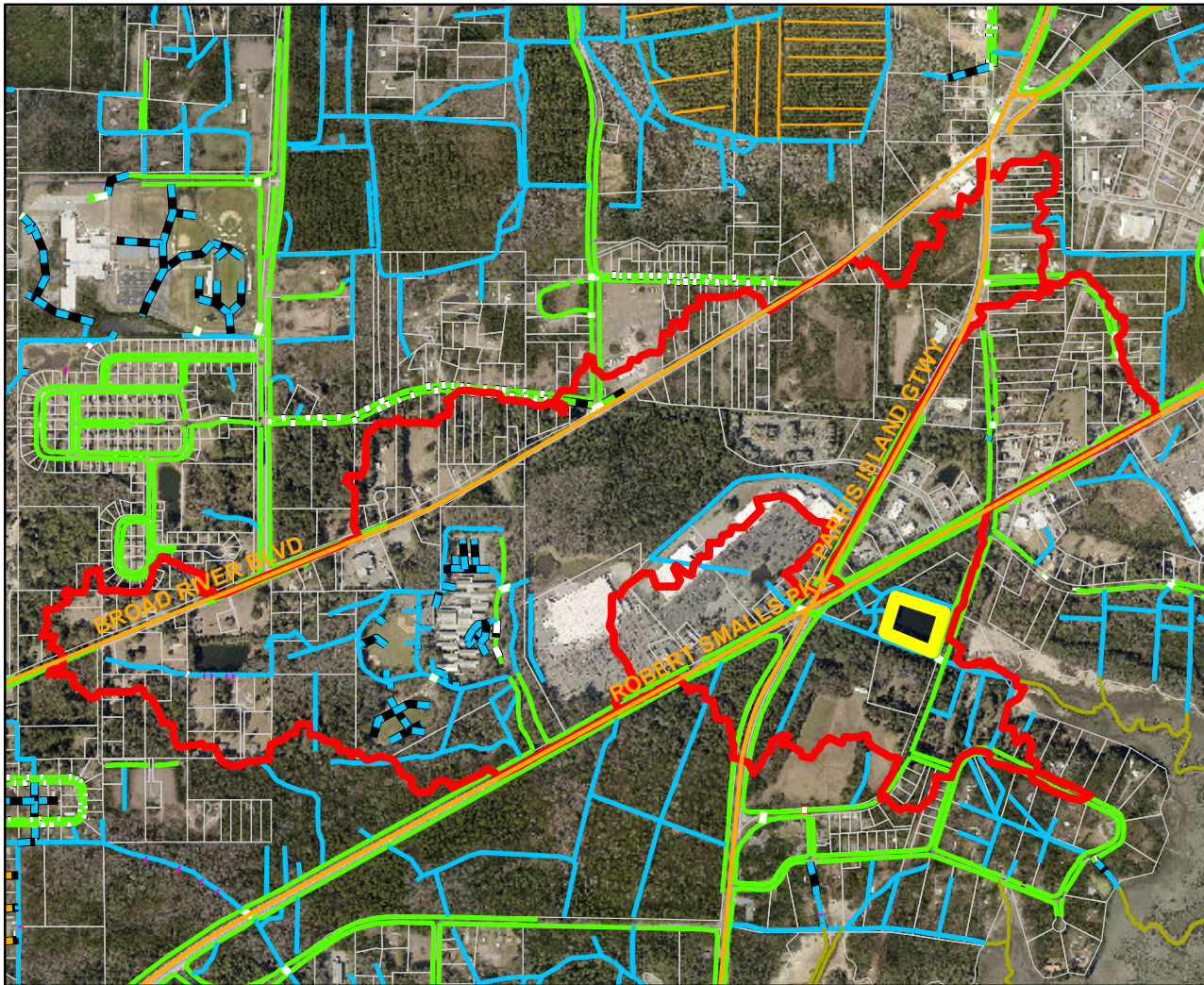
**Description:** Retrofit a portion of the parking lot at the County Administration Building on Ribaut Road with pervious pavement and bio-swales to reduce stormwater runoff volume and provide water quality treatment prior to discharge into the Battery Creek. This project is envisioned as a demonstration project due to the high profile location and provides an opportunity to educate the public on stormwater pollution and best management practices to address the same. Battery Creek is impaired by bacteria pollution, a major source being urban runoff.



County Retrofit Project: Battery Creek 319  
Activity: Regional BMP  
Township: Port Royal Island

Project Schedule: FY 2015

Project Cost: \$132,609



**Drainage**

**TYPE**

— River	— Roadside
— Creek/Stream	— Roadside Pipe
— River/Creek/Marsh BANK	— Road Pipe
— Channel (fka Outfall)	— Crossline Pipe
— Channel Pipe	— Driveway Pipe
— Lateral	— Access Pipe
— Lateral Pipe	— Bleeder Pipe



0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 1,426 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

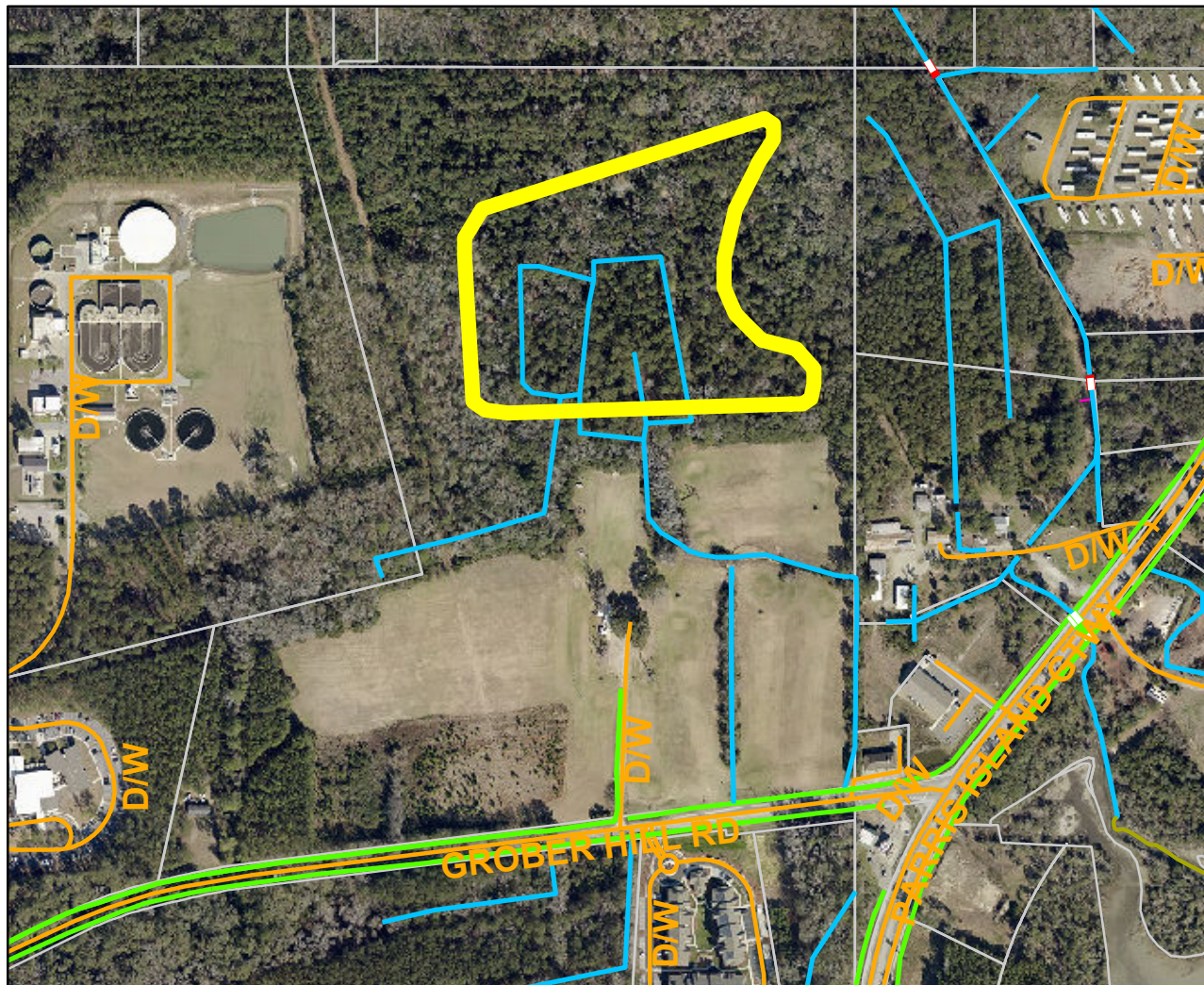
**Description:** Construct a detention pond to intercept stormwater runoff from an densely developed urban area of the BatteryCreek watershed near SC170 and the US 21and the Cross Creek Shopping Center. The Project is partially funded by a US EPA Section 319 grant with the match being shared by the City of Beaufort and Beaufort County. Battery Creek is impaired by bacteria pollution, a major source being urban runoff.



**County Retrofit Project: Battery Creek West M1**  
**Activity: Regional BMP**  
**Township: Port Royal Island**

**Project Schedule: FY 2022-2024**

**Project Cost: \$4,140,000**  
**\$375,000 (2022)**  
**\$165,000 (2023)**  
**\$3,600,000 (2024)**



**Drainage**

TYPE	
River	Roadside
Creek/Stream	Roadside Pipe
River/Creek/Marsh BANK	Road Pipe
Channel (fka Outfall)	Crossline Pipe
Channel Pipe	Driveway Pipe
Lateral	Access Pipe
Lateral Pipe	Bleeder Pipe



0 187.5 375 750 1,125 1,500 Feet

**1 inch = 500 feet**

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

**Description:** Development in the Battery Creek West hydrologic sub-basin in the Battery Creek watershed includes approx. 500 acres of a mix of single family development and commercial development built prior to stormwater regulations. There are only a few stormwater best management practices, such as hydrodynamic separators, in the area. The project would be to construct a regional detention facility to provide stormwater runoff water quality treatment and volume reduction. Due to the grades of the area, construction will involve a large amount of earthwork, making project cost a limiting factor for project implementation. Battery Creek is impaired by bacteria pollution, a major source being urban runoff. The site is located in the Town of Port Royal.



**County Retrofit Project: Brewer Memorial Park Demonstration Wet Pond Project Feasibility**  
**Activity: Demonstration BMP**  
**Township: Lady's Island**

**Project Schedule: FY 2015, 2016 & 2018**

**Project Cost: \$79,500**  
**\$9,500 (2015)**  
**\$20,000 (2016)**  
**\$50,000 (2018)**



**Drainage**

TYPE	
River	Roadside
Creek/Stream	Roadside Pipe
River/Creek/Marsh BANK	Road Pipe
Channel (fka Outfall)	Crossline Pipe
Channel Pipe	Driveway Pipe
Lateral	Access Pipe
Lateral Pipe	Bleeder Pipe



0 62.5 125 250 375 500 Feet

**1 inch = 167 feet**

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

**Description: Retrofit a former bait pond at the Brewer Memorial Park on Lady's Island. The site has runoff from Sea Island Parkway and adjacent properties that discharges directly to Factory Creek without water quality treatment or volume reduction. The site is envisioned as a demonstration site due to the high profile location. The park is being built with separate funding through the Beaufort Open Land Trust and will include a boardwalk and landscaping around the pond, providing opportunity for viewing and public education.**



# County Retrofit Project: Buckingham Plantation Stormwater Retrofit

## Activity: Retrofit BMP

### Township: Bluffton

Project Schedule: FY 2015-2017

Project Cost: \$900,000

\$100,000 (2015)

\$400,000 (2016)

\$400,000 (2017)

#### Drainage

##### TYPE

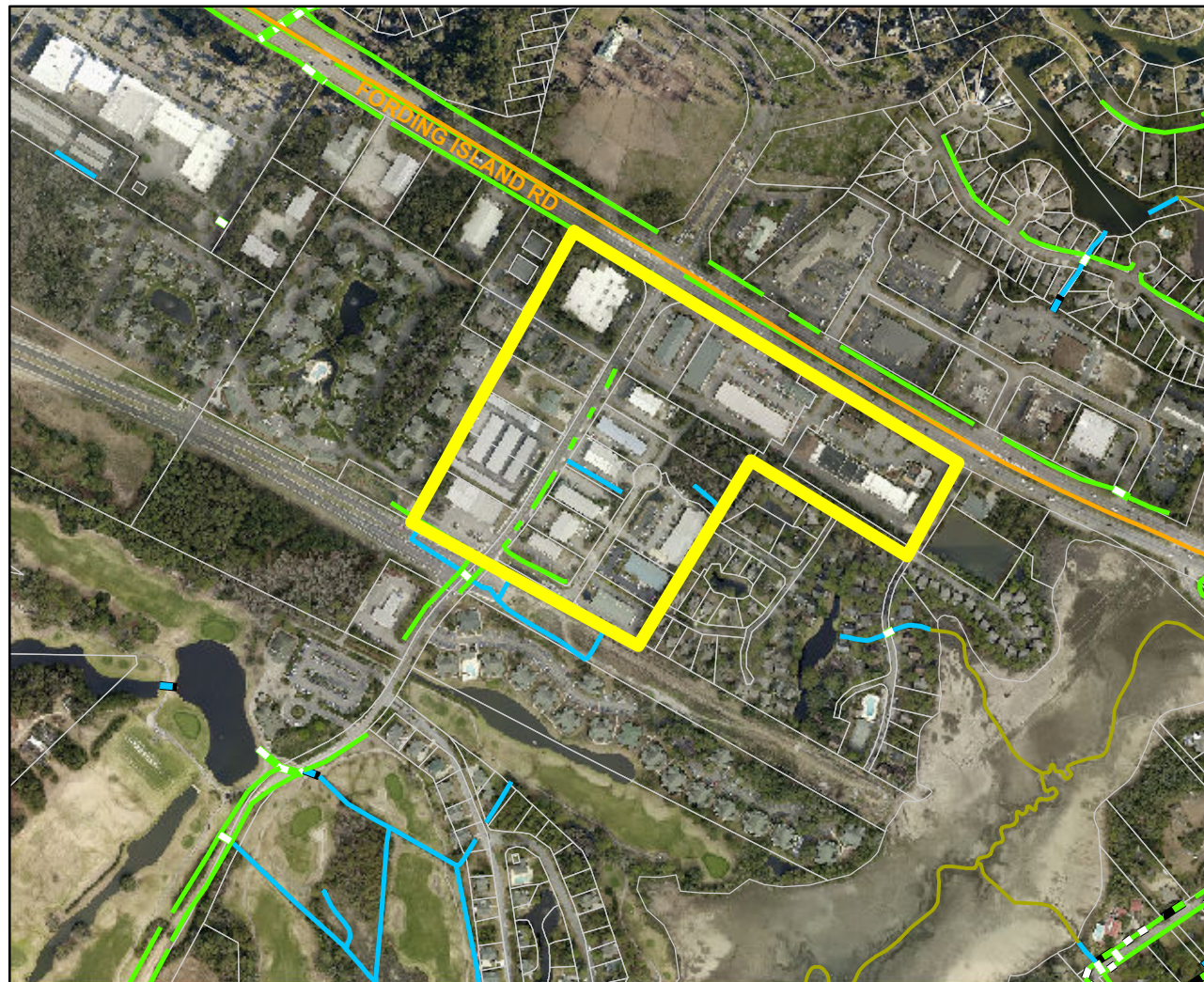
— River	— Roadside
— Creek/Stream	— Roadside Pipe
— River/Creek/Marsh BANK	— Road Pipe
— Channel (fka Outfall)	— Crossline Pipe
— Channel Pipe	— Driveway Pipe
— Lateral	— Access Pipe
— Lateral Pipe	— Bleeder Pipe



0 235 470 940 1,410 1,880 Feet

1 inch = 628 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14



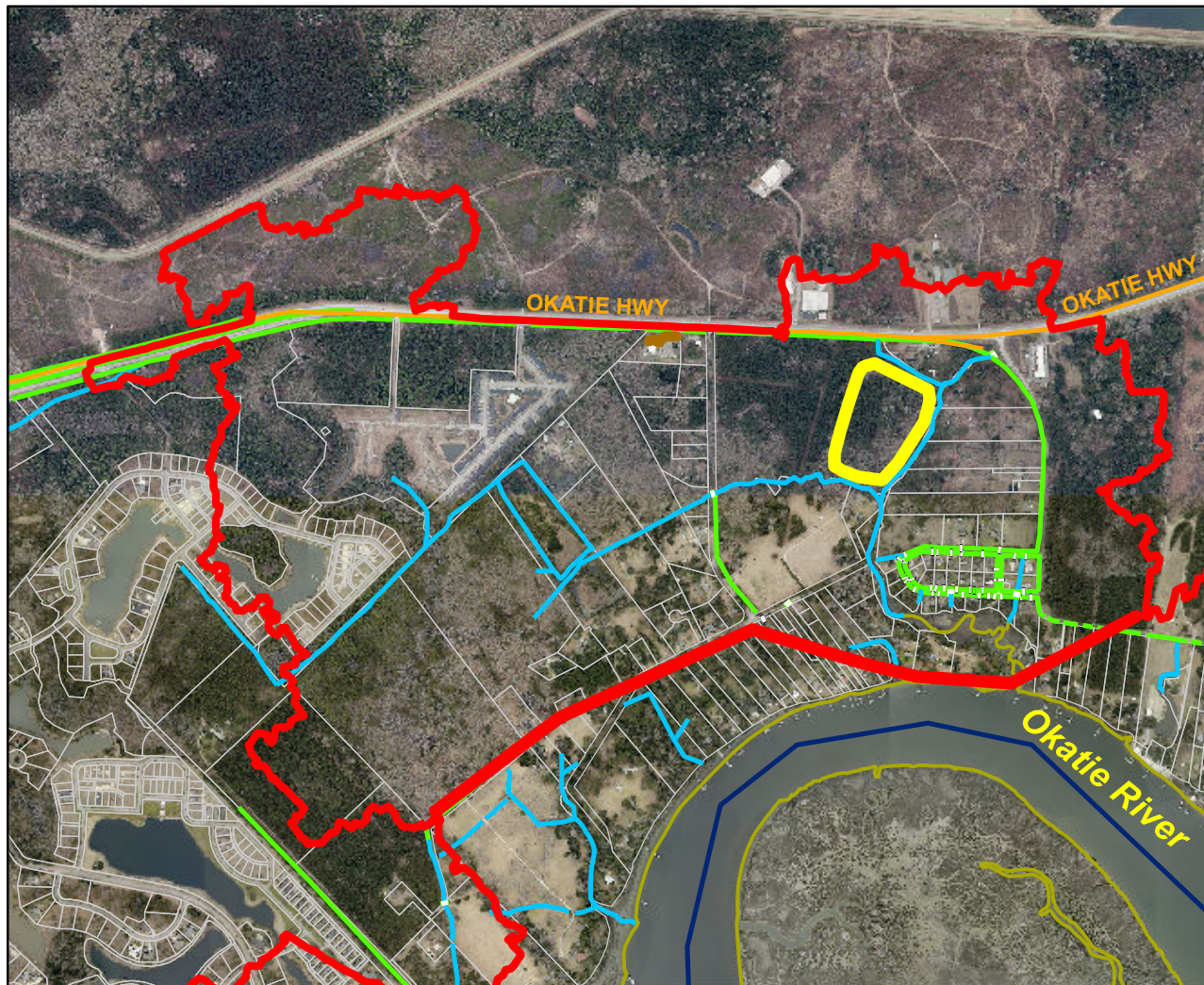
**Description:** Upgrading Buckingham Plantation Drive and Anolyn Ct. with water quality best management practices to provide stormwater runoff treatment and volume reduction. This project will be in conjunction with other area improvements designed to promote economic redevelopment of the area.



**County Retrofit Project: Camp St. Mary's M2**  
**Activity: Regional BMP**  
**Township: Bluffton**

**Project Schedule: FY 2021-2023**

**Project Cost: \$3,757,000**  
**\$342,000 (2021)**  
**\$165,000 (2022)**  
**\$3,250,000 (2023)**



**Drainage**

**TYPE**

— River	— Roadside
— Creek/Stream	— Roadside Pipe
— River/Creek/Marsh BANK	— Road Pipe
— Channel (fka Outfall)	— Crossline Pipe
— Channel Pipe	— Driveway Pipe
— Lateral	— Access Pipe
— Lateral Pipe	— Bleeder Pipe



0 550 1,100 2,200 3,300 4,400 Feet

**1 inch = 1,457 feet**

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

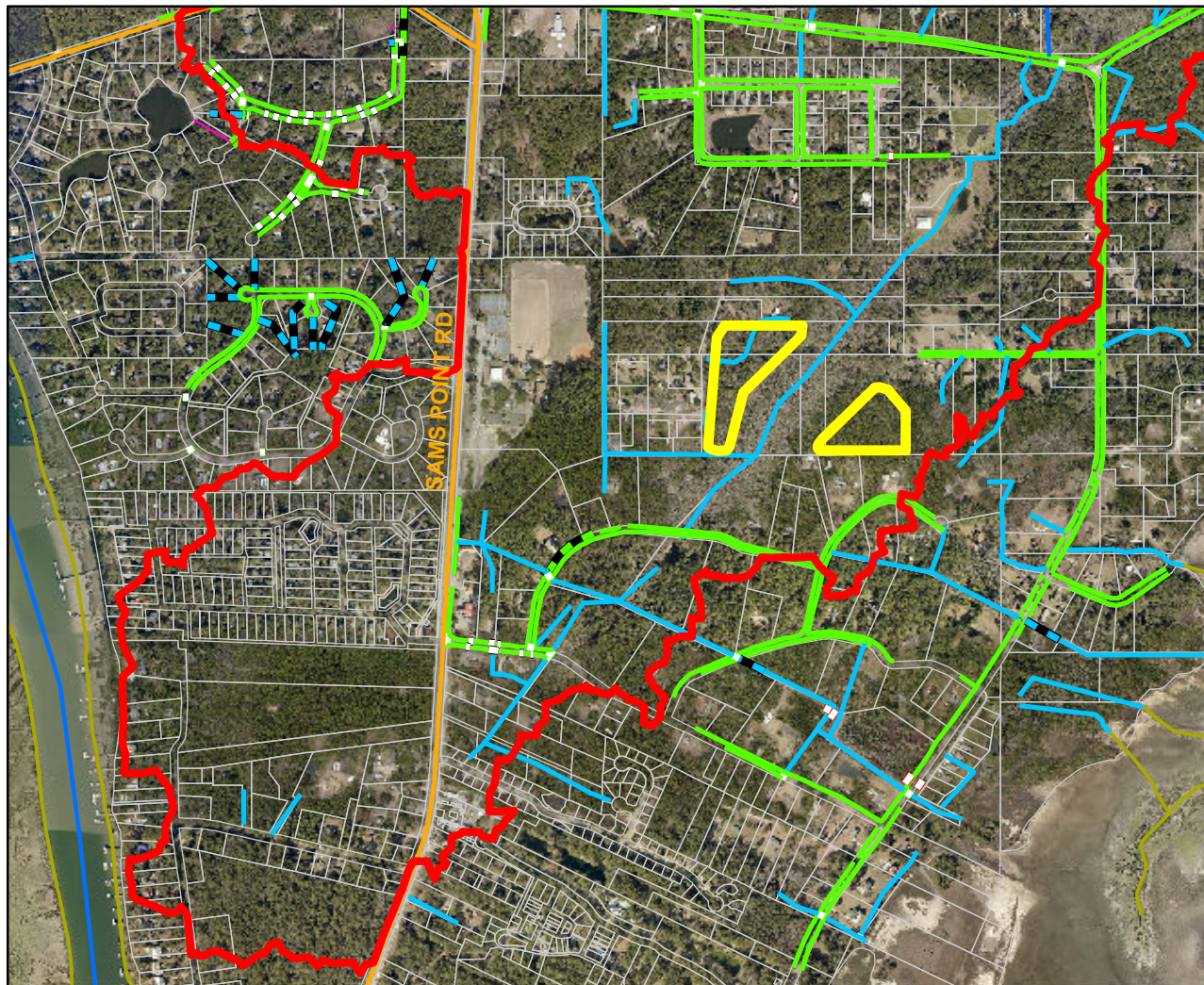
**Description:** Development in the Camp St. Mary hydrologic sub-basin in the Okatie River watershed includes approx. 500 acres of rural and single family development built prior to stormwater regulations. There are no stormwater best management practices, such as detention facilities, in the area. The project would be to construct a regional detention facility to provide stormwater runoff water quality treatment and volume reduction. Due to the presence of multiple wetlands in the area, project design would involve delineation and avoidance of the wetlands, making construction cost a limiting factor for project implementation. Okatie River is impaired by bacteria pollution, a major source being urban runoff. The watershed of the site is located within both Beaufort and Jasper Counties.



**County Retrofit Project: Factory Creek M2**  
**Activity: Regional BMP**  
**Township: Lady's Island**

**Project Schedule: FY 2018, 2020 & 2022**

**Project Cost: \$1,740,000**  
**\$200,000 (2018)**  
**\$340,000 (2020)**  
**\$1,200,000 (2022)**



**Drainage**

TYPE	
River	— Roadside
Creek/Stream	— Roadside Pipe
River/Creek/Marsh BANK	— Road Pipe
Channel (fka Outfall)	— Crossline Pipe
Channel Pipe	— Driveway Pipe
Lateral	— Access Pipe
Lateral Pipe	— Bleeder Pipe



0 450 900 1,800 2,700 3,600 Feet

**1 inch = 1,207 feet**

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

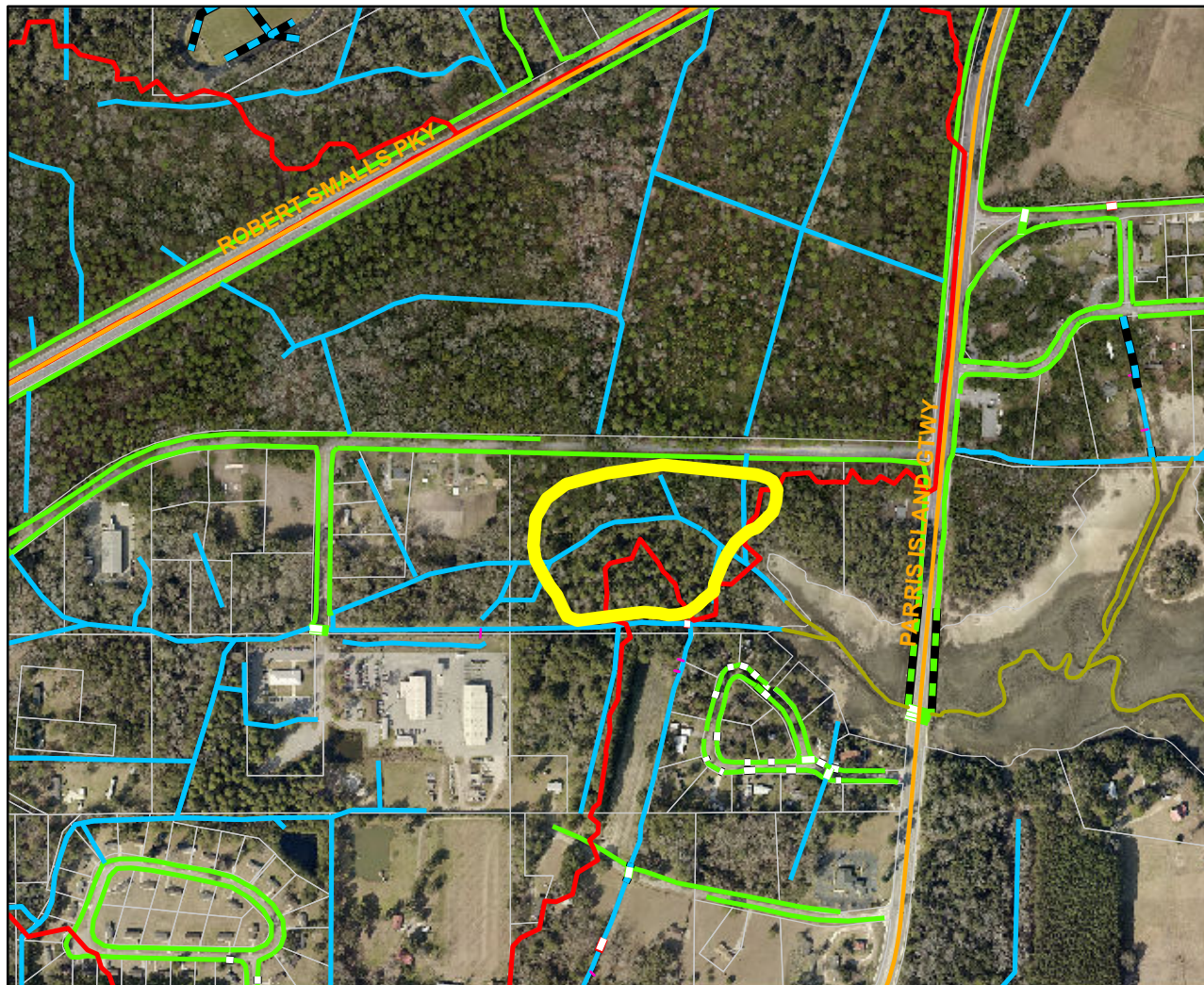
**Description:** Development in the Factory Creek hydrologic sub-basin in the Rock Springs Creek watershed includes approx. 300 acres of a mix of single family development, and commercial/institutional development built prior to stormwater regulations. There are only a few stormwater best management practices, such as detention basins, in the area. The project would be to construct a regional detention facility to provide stormwater runoff water quality treatment and volume reduction. Due to the grades of the area and the "stop gap measure" to construct a ditch to drain a portion of the wetland, construction will involve a large amount of earthwork, making project cost a limiting factor for project implementation. Rock Springs Creek drains into the Morgan River, which is impaired by bacteria pollution, a major source being urban runoff. The site is located in Beaufort County on Lady's Island.



County Retrofit Project: Grober Hill M2  
Activity: Regional BMP  
Township: Port Royal Island

Project Schedule: FY 2018,2020 & 2022

Project Cost: \$2,525,000  
\$225,000 (2018))  
\$900,000 (2020)  
\$1,400,000 (2022)



**Drainage**

**TYPE**

— River	— Roadside
— Creek/Stream	— Roadside Pipe
— River/Creek/Marsh BANK	— Road Pipe
— Channel (fka Outfall)	— Crossline Pipe
— Channel Pipe	— Driveway Pipe
— Lateral	— Access Pipe
— Lateral Pipe	— Bleeder Pipe



0 250 500 1,000 1,500 2,000 Feet

1 inch = 667 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

**Description:** Development in the Grober Hill hydrologic sub-basin in the Battery Creek watershed includes approx. 130 acres of single family development built prior to stormwater regulations. There are no stormwater best management practices, such as detention facilities, in the area. The project would be to construct a regional detention facility to provide stormwater runoff water quality treatment and volume reduction. Due to the grades of the area , construction will involve a large amount of earthwork, making project cost a limiting factor for project implementation. Battery Creek is impaired by bacteria pollution, a major source being urban runoff. The site is located in the City of Beaufort.



**County Retrofit Project: Hwy 278 Retrofit**  
**Activity: Retrofit BMP**  
**Township: Bluffton**

**Project Schedule: FY 2015**

**Project Cost: \$216,122**



**Drainage**

**TYPE**

— River	— Roadside
— Creek/Stream	— Roadside Pipe
— River/Creek/Marsh BANK	— Road Pipe
— Channel (fka Outfall)	— Crossline Pipe
— Channel Pipe	— Driveway Pipe
— Lateral	— Access Pipe
— Lateral Pipe	— Bleeder Pipe



0 900 1,800 3,600 5,400 7,200 Feet

**1 inch = 2,468 feet**

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

**Description: Construct four detention basins along US 278 between Pickney Colony Road and SC170 to intercept stormwater runoff, provide water quality treatment, and reduce volume into the Okatie River. The Okatie is impaired by bacteria pollution, a major source being urban runoff.**



County Retrofit Project: Paige Point Rd Overtopping Design  
Activity: MitigationI BMP  
Township: Sheldon

Project Schedule: FY 2023-2024

Project Cost: \$335,000  
\$30,000 (2023)  
\$305,000 (2024)



**Drainage**

TYPE	
River	— Roadside
Creek/Stream	— Roadside Pipe
River/Creek/Marsh BANK	— Road Pipe
Channel (fka Outfall)	— Crossline Pipe
Channel Pipe	— Driveway Pipe
Lateral	— Access Pipe
Lateral Pipe	— Bleeder Pipe



0 312.5 625 1,250 1,875 2,500 Feet

1 inch = 833 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

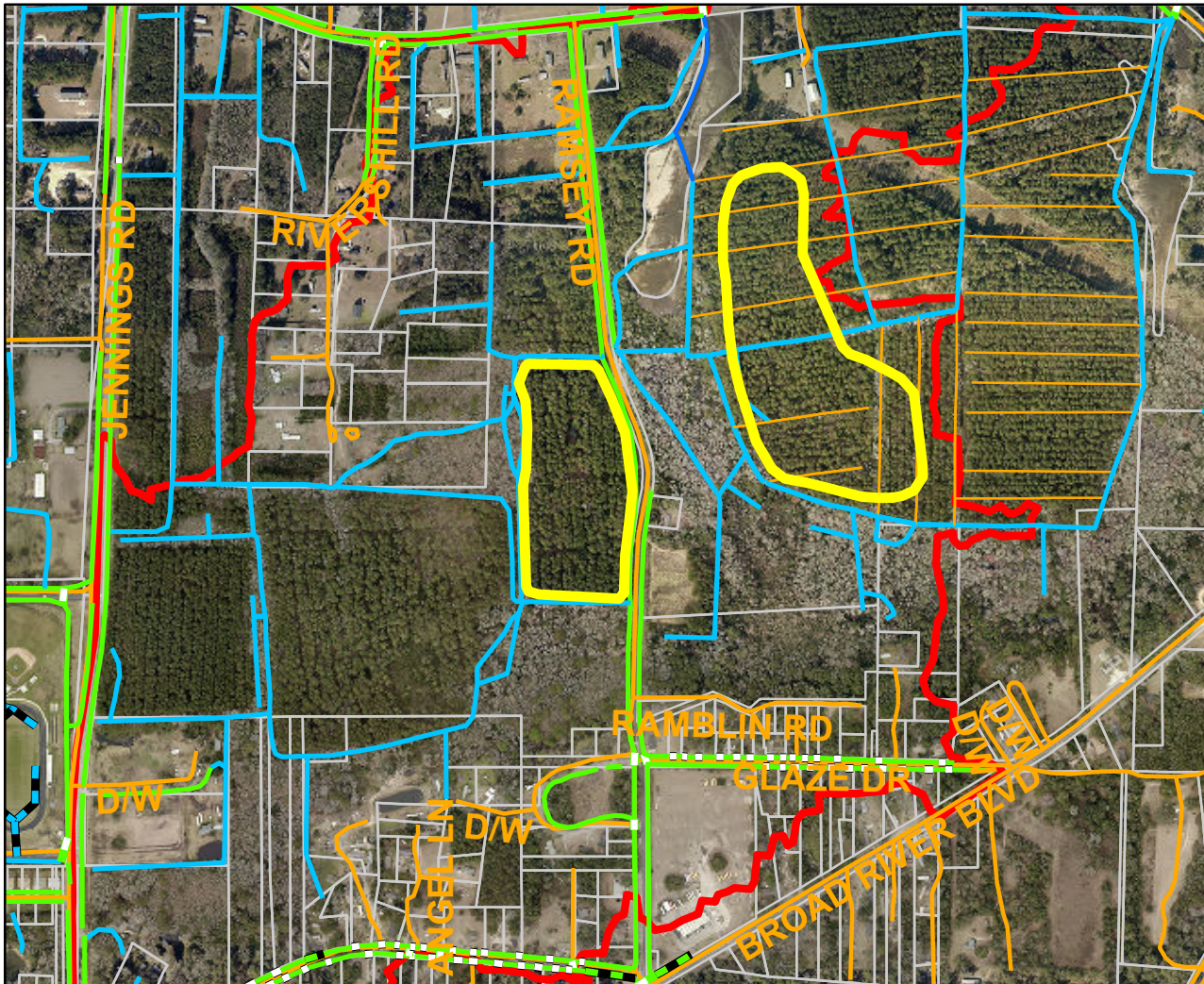
**Description:** Historic complaints about road overtopping support the findings of the 2006 Stormwater Master Plan, which identified this location as a flooding hazard during a 100 - year storm event. A 2013 study by the County confirmed the flooding problem and proposes raising a portion of the road and up-sizing the storm drain under the road.



**County Retrofit Project: Salt Creek South M1**  
**Activity: Regional BMP**  
**Township: Port Royal Island**

**Project Schedule: FY 2018-2020**

**Project Cost: \$2,045,000**  
**\$245,000 (2018)**  
**\$400,000 (2019)**  
**\$1,400,000 (2020)**



**Drainage**

TYPE	
River	— Roadside
Creek/Stream	— Roadside Pipe
River/Creek/Marsh BANK	— Road Pipe
Channel (fka Outfall)	— Crossline Pipe
Channel Pipe	— Driveway Pipe
Lateral	— Access Pipe
Lateral Pipe	— Bleeder Pipe



0 312.5 625 1,250 1,875 2,500 Feet

**1 inch = 833 feet**

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

**Description:** Development in the Salt Creek South hydrologic sub-basin in the Albergotti Creek watershed includes approx. 330 acres of rural and single family development built prior to stormwater regulations. There are no stormwater best management practices, such as detention facilities, in the area. The project would be to construct a regional detention facility to provide stormwater runoff water quality treatment and volume reduction. Due to the presence of multiple wetlands in the area, project design would involve delineation and avoidance of the wetlands, making construction cost a limiting factor for project implementation. Albergotti Creek is impaired by bacteria pollution, a major source being urban runoff. The Creek is being proposed for reclassification to allow shellfish harvesting, making this project a higher priority than in the past. The watershed of the site is located within Beaufort County.



# County Retrofit Project: Sawmill Creek Overtopping/Forby Land

## Activity: Mitigation BMP

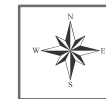
### Township: Bluffton

Project Schedule: FY 2016-2017

Project Cost: \$150,000  
 \$125,000 (2016)  
 \$25,000 (2017)

#### Drainage

TYPE	
River	— Roadside
Creek/Stream	— Roadside Pipe
River/Creek/Marsh BANK	— Road Pipe
Channel (fka Outfall)	— Crossline Pipe
Channel Pipe	— Driveway Pipe
Lateral	— Access Pipe
Lateral Pipe	— Bleeder Pipe



0 250 500 1,000 1,500 2,000 Feet

1 inch = 667 feet

Prepared By: BC Stormwater Management Utility  
 Date Print: 5/19/14



**Description:** Overtopping of US 278 near Sawmill Creek Road during a 100 - year storm event was identified in the 2006 Stormwater Master Plan. US 278 serves as an evacuation route during a hurricane. The project scope is to construct a detention pond via a wetland enhancement to slow stormwater discharge to the existing culverts under US 278 and to provide water quality treatment and runoff volume reduction. The project will be in conjunction with another project to construct a frontage road in the location providing additional interconnectivity along the south side of the highway.



**County Retrofit Project: SC170/Okatie West**  
**Activity: Regional/Retrofit BMP**  
**Township: Bluffton**

**Project Schedule: FY 2015-2017**

**Project Cost: \$975,000**

**\$60,000 (2015)**

**\$315,000 (2016)**

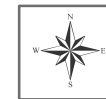
**\$600,000 (2017)**



**Drainage**

**TYPE**

— River	— Roadside
— Creek/Stream	— Roadside Pipe
— River/Creek/Marsh BANK	— Road Pipe
— Channel (fka Outfall)	— Crossline Pipe
— Channel Pipe	— Driveway Pipe
— Lateral	— Access Pipe
— Lateral Pipe	— Bleeder Pipe



0 1,400 2,800 5,600 8,400 11,200 Feet

**1 inch = 3,771 feet**

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14

**Description:** The Okatie River watershed has been identified as a high priority watershed for water quality improvements due to bacteria contamination. The east branch of the headwaters was improved in FY2014 with a wetland enhancement project near Island West golf course and subdivision. A similar enhancement or detention basin is planned for the west branch. Increased runoff from the widening of SC170 in the west branch subwatershed basin adds to the need for a retrofit to the watershed to improve stormwater runoff water quality and reduce runoff volume. The project is a series of detention basins along SC170.



**County Retrofit Project: Shanklin Road M2**  
**Activity: Regional BMP**  
**Township: Port Royal Island**

**Project Schedule: FY 2018-2019 & FY 2021**

**Project Cost: \$3,340,000**  
**\$330,000 (2018)**  
**\$660,000 (2019)**  
**\$2,350,000 (2021)**

**Drainage**

**TYPE**

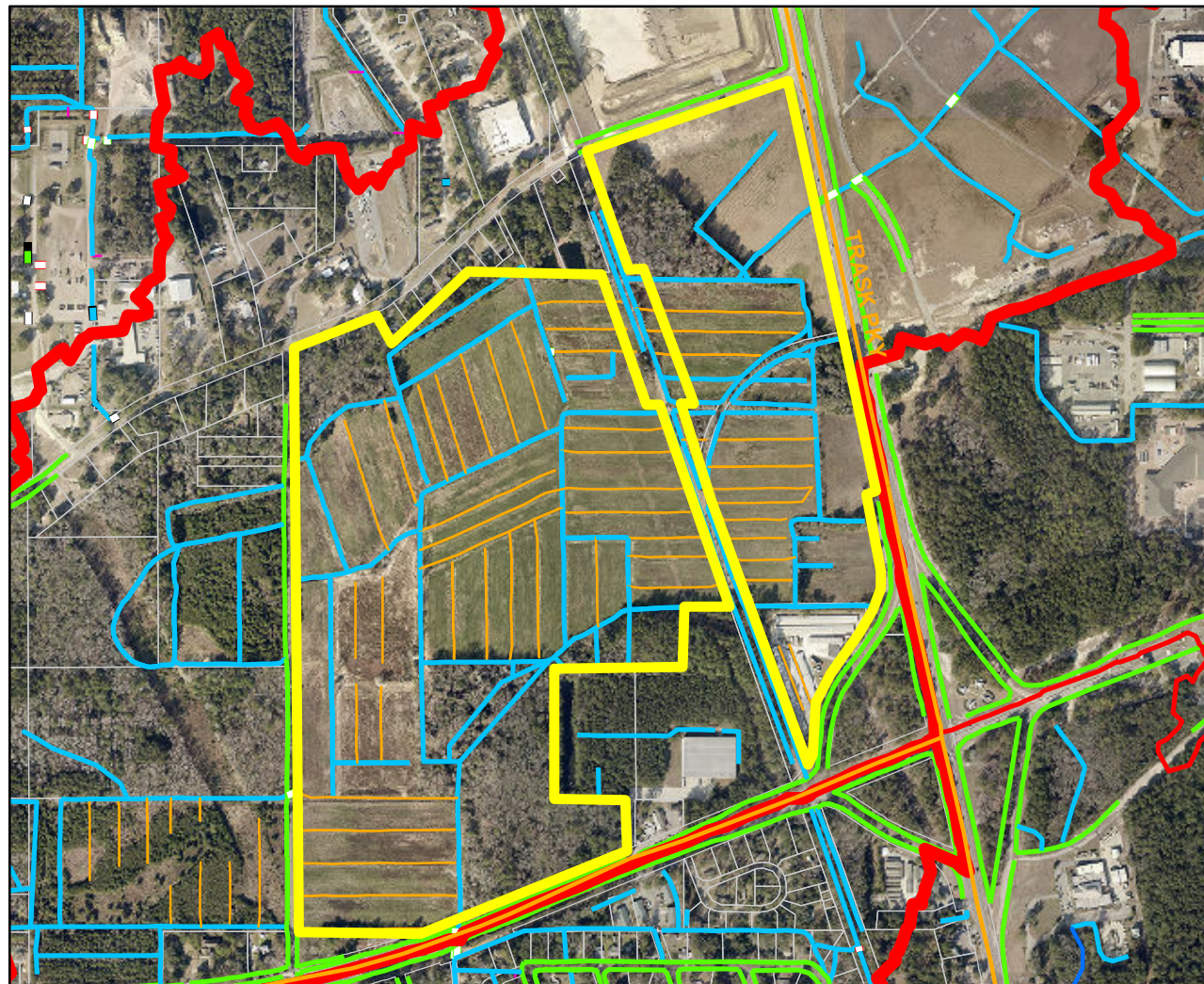
— River	— Roadside
— Creek/Stream	— Roadside Pipe
— River/Creek/Marsh BANK	— Road Pipe
— Channel (fka Outfall)	— Crossline Pipe
— Channel Pipe	— Driveway Pipe
— Lateral	— Access Pipe
— Lateral Pipe	— Bleeder Pipe



0 345 690 1,380 2,070 2,760 Feet

**1 inch = 917 feet**

Prepared By: BC Stormwater Management Utility  
Date Print: 5/19/14



**Description:** Development in the Shanklin Road hydrologic sub-basin in the Albergotti Creek watershed includes approx. 600 acres of rural, single family development, commercial, and industrial built prior to stormwater regulations. There are no stormwater best management practices, such as detention facilities, in the area. The project would be to construct a regional detention facility to provide stormwater runoff water quality treatment and volume reduction. Due to the presence of multiple wetlands in the area, project design would involve delineation and avoidance of the wetlands, making construction cost a limiting factor for project implementation. Albergotti Creek is impaired by bacteria pollution, a major source being urban runoff. The Creek is being proposed for reclassification to allow shellfish harvesting, making this project a higher priority than in the past. The watershed of the site is located within Beaufort County.















# ADD-ONS

The document(s) herein were provided to Council for information and/or discussion after release of the official agenda and backup items.

Topic:	US 278 Corridor Improvements
Date Submitted:	January 30, 2017
Submitted By:	Rob McFee
Venue:	Public Facilities Committee Workshop



# US 278 CORRIDOR IMPROVEMENTS

---



Topic:	US 278 Corridor Improvements
Date Submitted:	January 30, 2017
Submitted By:	Rob McFee
Venue:	Public Facilities Committee Workshop

# Outline

- ❑ Project History
- ❑ Mackay Creek Bridge Replacement
- ❑ Jenkins Island Improvements
- ❑ Pinckney Island Intersection Improvements
- ❑ US 278 Corridor Improvement



# Project History

	DATE
Mackay Creek Bridge Replacement Funded by ACT 275	Fall 2016
US 278 Corridor Coordination Meeting with Beaufort County	August 2016
Development of Project Scope and Estimate	September 2016
US 278 Corridor Path Forward Meeting with Beaufort County	November 2016
Development of Intergovernmental Agreement and Request from Funding from LATTS MPO	January 2017

# US 278 Improvements





# SCDOT Improvements

# Mackay Creek Bridge Replacement

- **Project Description:** The replacement of the east bound bridge on US 278 over Mackay Creek. The department intends to widen the bridge to accommodate 3 lanes of traffic. An EA document and Individual permit are anticipated. The anticipated construction cost is currently \$44 million. This project is fully funded.
- **Status:** SCDOT is coordinating the improvements with Beaufort County.



# Beaufort County Improvements

# Jenkins Island Improvements

- Project Description: Construct a superstreet concept by widening to 6 lanes in two phase with 2 direction signals. Phase I is from Blue Heron Point Road to Jenkins Island Road and Phase II would be from Jenkins Island Road to approximately 1700 feet east of Jenkins Road. Phase I improvements will be completed prior to the completion of the EA document due to safety concerns.
- Status: Beaufort County has hired HDR to complete the design of the Phase I improvements and anticipates construction starting in 12 to 18 months. Phase 1 of this project is funded by Beaufort County. Funding has not been identified for Phase II.



# Pinckney Island Improvements

- **Project Description:** Improve the intersection at US 278 and Pinckney Island. The existing condition of the left turn movements is a major safety concern. The improvements would include the closure of the median crossover at US 278 and Pinckney Wildlife Refuge with construction of a grade separated access road under the Skull Creek Bridge with Right In/Right out movements on US 278.
- **Status:** Beaufort County is apply for a Federal Lands grant to assist with the funding of the improvements. Funding has not been identified for this project.

# US 278 Improvements





# US 278 Corridor Improvements

- Project Description: SCDOT and Beaufort County are in discussion on completing one Environmental Assessment (EA) Document to encompass all of the improvements on US 278 from Buckingham Plantation Dr. to Squire Pope Rd.
- Improvements:
  - Widening of US 278 from Buckingham Plantation Dr. to Squire Pope Road from 4 lanes to 6 lanes.
  - Replacement of the East Bound Mackay Creek Bridge
  - Widening of twin bridges over Skull Creek and the West bound Mackay Creek Bridge
  - Phase II of Jenkins Island Improvements
  - Pinckney Island Improvements

\* Jenkins Island Improvements Phase I will be completed by Beaufort County and incorporated into the overall EA document

# US 278 Corridor Improvements

- Status: Construction Cost are estimated over \$200 Million to improve this corridor. Construction funds have only been identified for the replacement of the eastbound Mackay Creek Bridge and Phase 1 of the Jenkins Island improvements. Currently, preliminary engineering (PE) funding is only available for 1/3 of the estimate \$3.0 Million needed obtain an EA. The SCDOT and Beaufort County is asking the Lowcountry Area Transportation Study (LATS) to discuss adding the additional \$2.0 Million needed for PE. If the funding is NOT approved, the project can not move forward until another funding source is identified.

# Funding

Funding Source	Funding
<sup>1</sup> SCDOT Bridge Funds:	\$1,000,000
<sup>2</sup> LATS Guideshares:	\$2,000,000
Total for Preliminary Engineering and Environmental Document:	\$3,000,000
<sup>1</sup> Replacement of Mackay Creek Bridge <sup>2</sup> Requested Funding from Advanced Guideshares	
*If Beaufort County is unable to secure additional funding for Right-of-Way Acquisition and Construction of the US 278 Corridor Improvements LATS will be reimbursed by Beaufort County.	



## Questions & Contact Information

Craig L. Winn, PE, CFM

Program Manager for Lowcountry COG/LATS

Lowcountry Regional Production Group

[winncl@scdot.org](mailto:winncl@scdot.org)

803-737-6376

