

Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Bruce K. Smalls Drive Outfall - Smith Road, Smalls Hill Road, Gamecock Way, Mulrain Road and Webb Road

Project #: 2004-103

Completed: Feb-10

Before

Narrative Description of Project:

Project improved 3,001 L.F. of drainage system. Bush hogged 1,584 L.F. of outfall ditch. Cleaned out 2,216 L.F. of outfall ditch and 146 L.F. of roadside ditch. Installed (2) bleeder pipes and (1) access pipe. Extended (1) driveway pipe. Repaired washouts. Cleaned out (10) catch basins and (2) manholes. Jetted (7) crossline pipes, 8 L.F. of outfall pipe, 378 L.F of under pavement pipes and 253 L.F of roadside pipe. Installed rip rap and hydroseeded for erosion control.

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost	During
12" HDPE Pipe	linear feet	\$4.86	40.0	\$194.40	
18" HDPE Pipe	linear feet	\$8.71	20.0	\$174.20	
36" RCP Pipe	linear feet	\$38.52	16.0	\$616.32	
Fill Dirt	ton	\$1.00	87.5	\$87.49	
Rip Rap	ton	\$47.08	18.6	\$877.57	
Filter Blanket Woven	sy	\$0.63	90.3	\$56.88	
Silt Fence	sy	\$0.78	7.8	\$6.08	
Turf Staples	each	\$0.03	90.0	\$2.70	
10-10-10 Fertilizer	bag	\$11.72	2.0	\$23.44	
Hydromulch	bale	\$12.22	4.0	\$48.88	
Hydrogel	cup	\$2.82	2.0	\$5.64	
Hydromax Liquid Fertilizer	cup	\$2.54	2.0	\$5.08	
Annual Rye Grass Seed	bag	\$19.21	2.0	\$38.42	
Pin Flag	each	\$0.06	27.0	\$1.62	After
Water	gallon	\$0.01	10,005	\$100.05	
Gas	gallon	\$2.43	75.0	\$182.25	
Diesel	gallon	\$2.44	382.1	\$932.32	
Labor	hours		616.5	\$20,805.73	
Total Cost of Materials, Rental Equip., and Labor \$24,159.08					

Note: Labor cost includes the employee's salary plus fringe benefits.







Site Photographs

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Equipment Cost

ltem	Asset No.	Cost/Hou	Hrs.	Cost
Komatsu Mini Excavator	23000	\$18.65	44.0	\$820.60
Bobcat T300	22847	\$20.10	1.0	\$20.10
Bobcat T320	23388	\$21.00	2.0	\$42.00
Bush Hog	21300	\$35.00	6.0	\$210.00
Vacuum Truck	23118	\$20.30	37.0	\$751.10
Hydroseeder	18909	\$7.35	3.0	\$22.05
Dump Trucks		\$16.68	114.0	\$1,901.52
Pickup Trucks		\$4.17	148.5	\$619.25
Total Equipment Cost				\$4,386.62

Cost/hour excludes fuel cost.

Total Cost:

\$28,545.69

Site Photographs



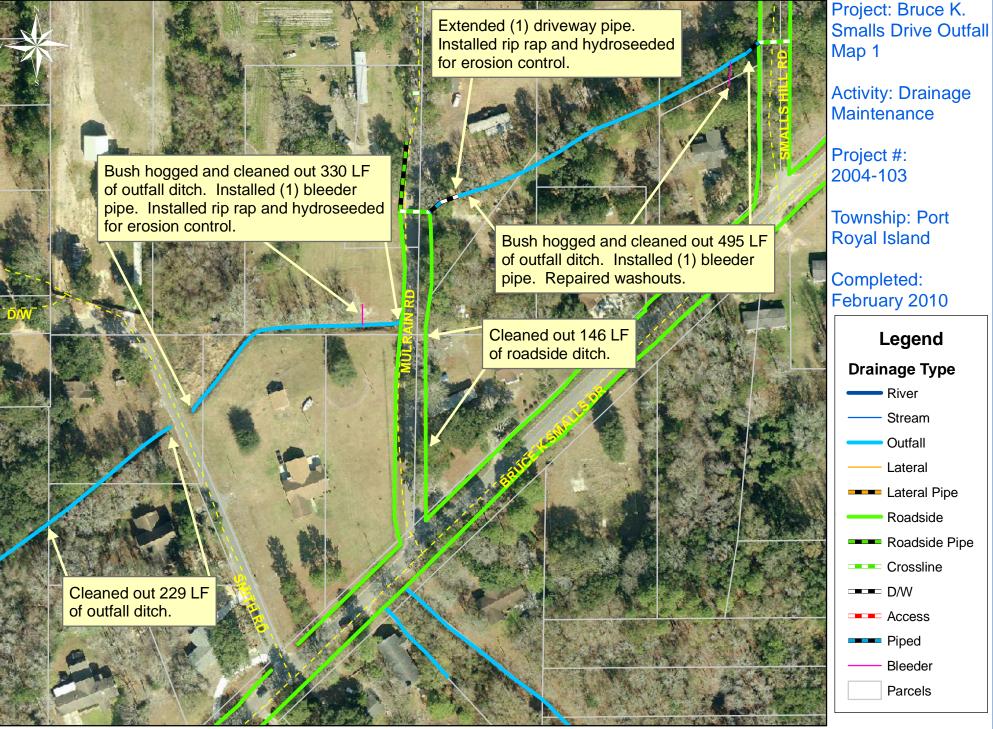


After

Before

During





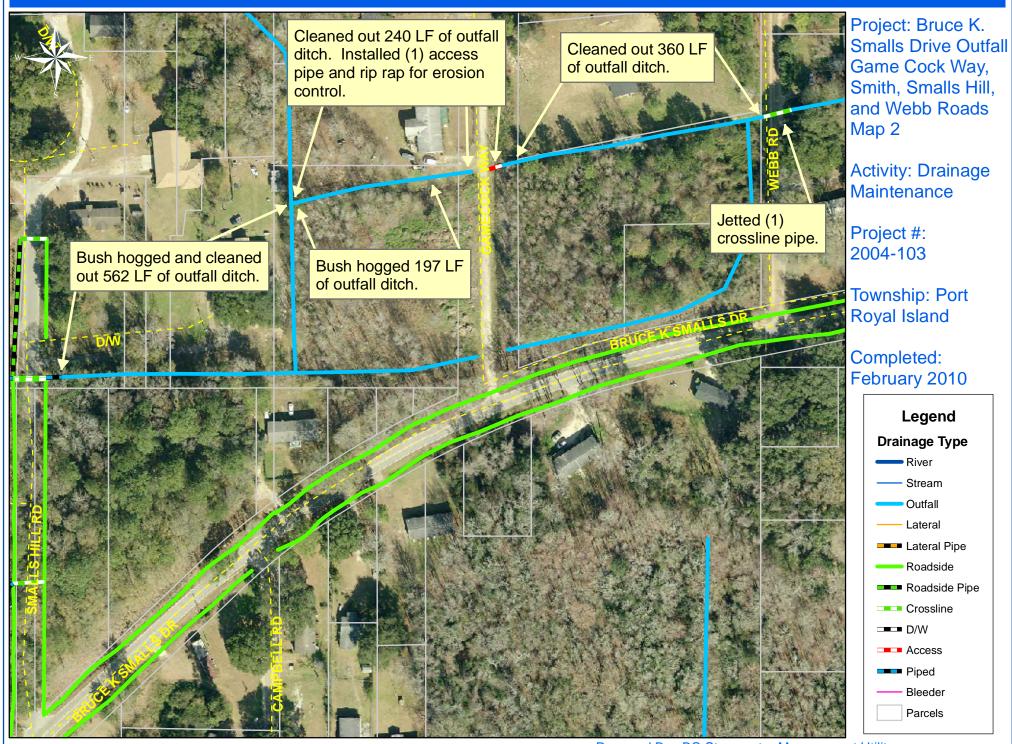
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200

300

1 inch equals 130 feet

400 Feet



Prepared By: BC Stormwater Management Utility Date Print: 8/25/10 File:C:/sethdata/projects/projectmaps/BruceKSmalls Map2 2004-103

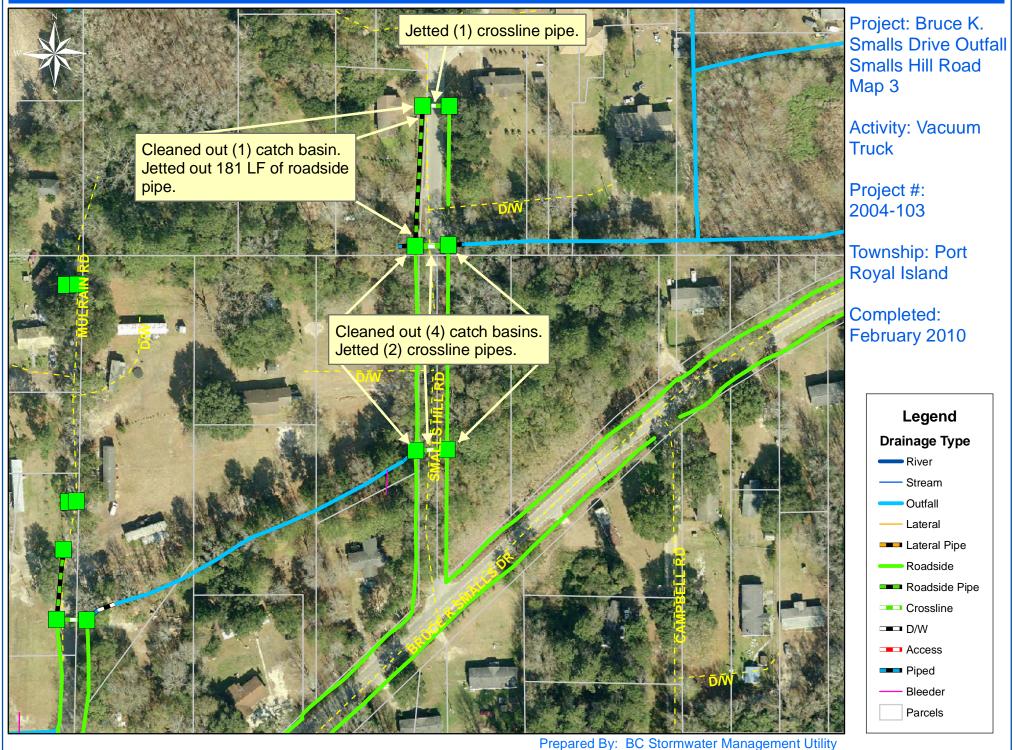
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300 400

Feet

1 inch equals 130 feet



Date Print: 8/25/10

- 50
- 100

200

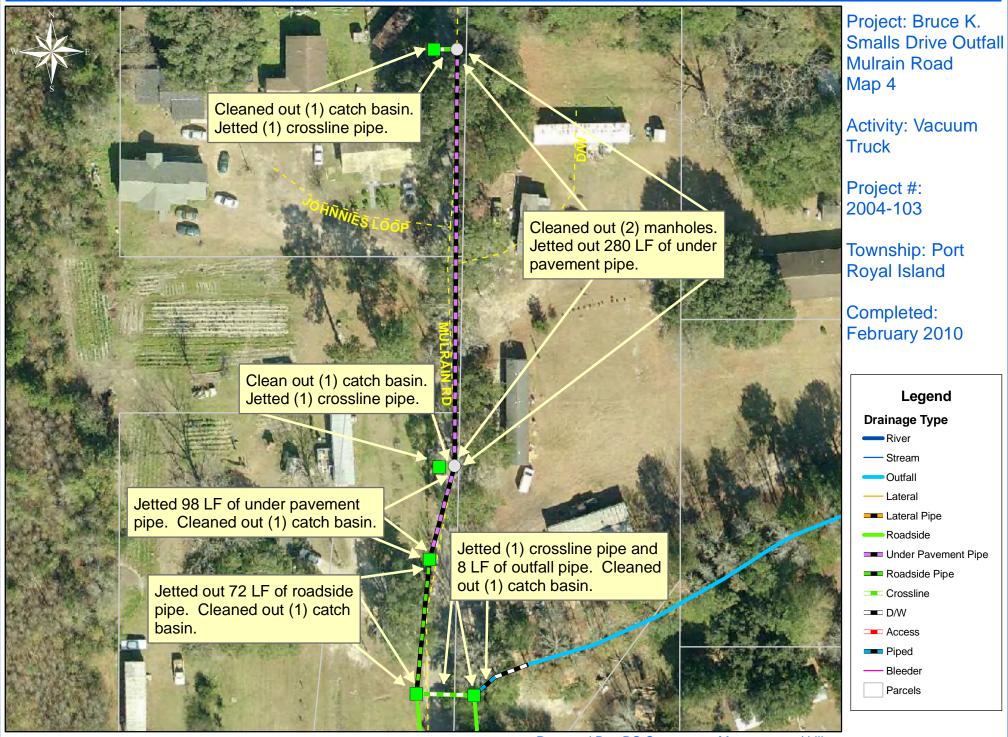
300

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Feet

1 inch equals 130 feet

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25 50

150

100

200

Feet

1 inch equals 68 feet