

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

Bruce K. Smalls Drive Outfall Project Summary Con't

Project #: 2004-103

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



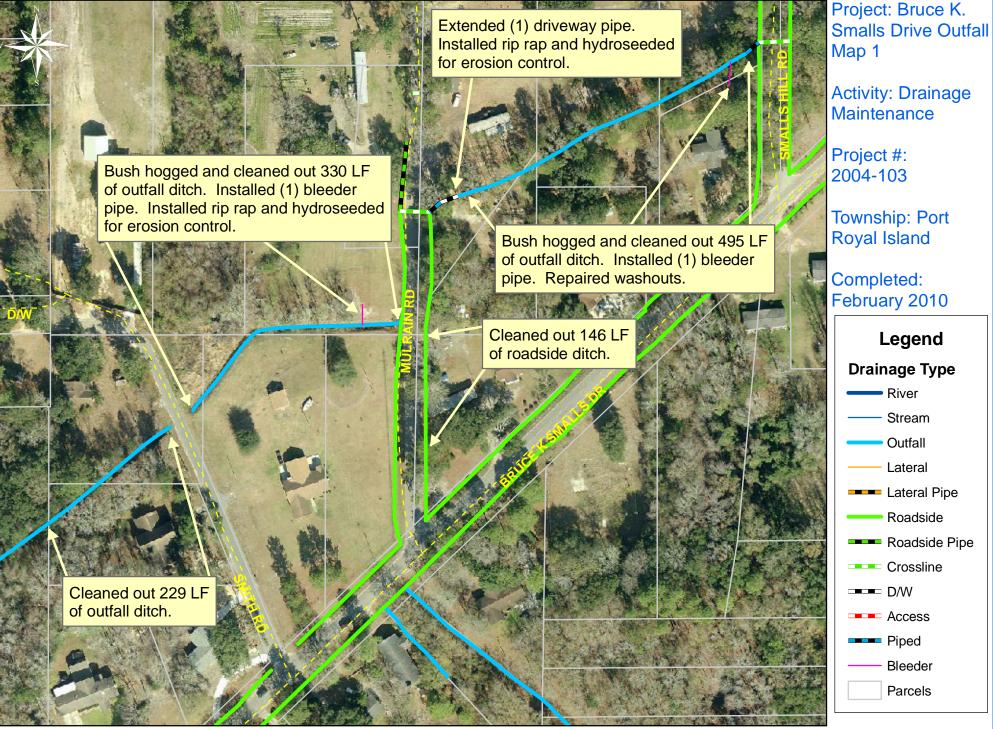


After

Before

During





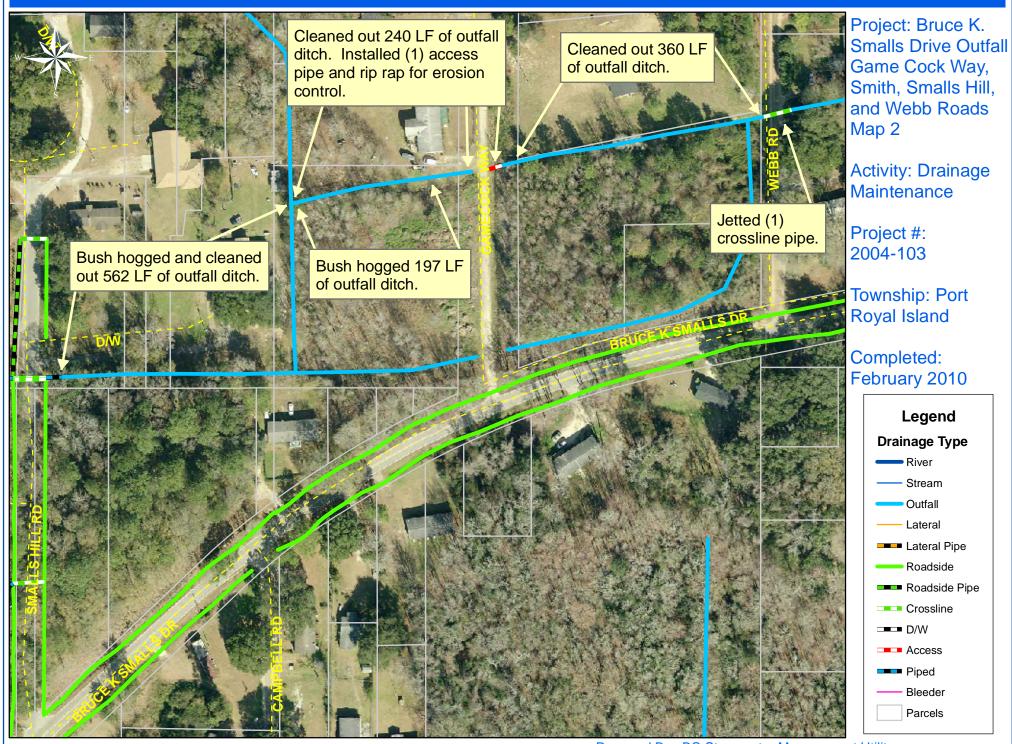
Prepared By: BC Stormwater Management Utility Date Print: 8/25/10 File:C:/sethdata/projects/projectmaps/BruceKSmalls Map1 2004-103

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

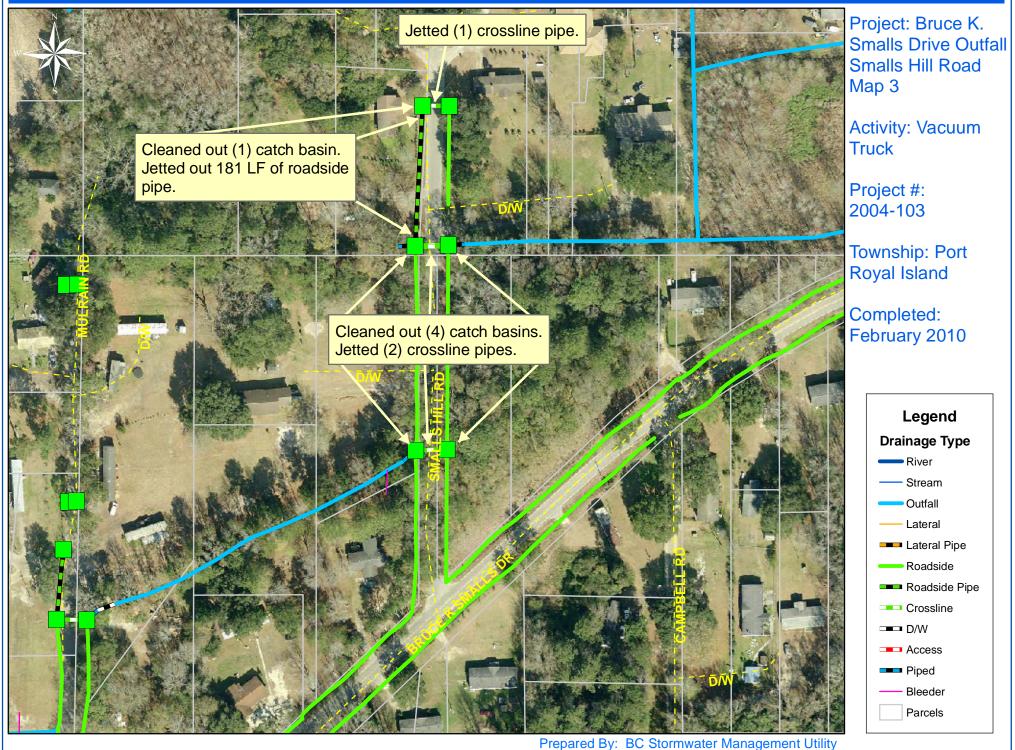
50 100

) 200

300 400

Feet

1 inch equals 130 feet



Date Print: 8/25/10

- 50
- 100

200

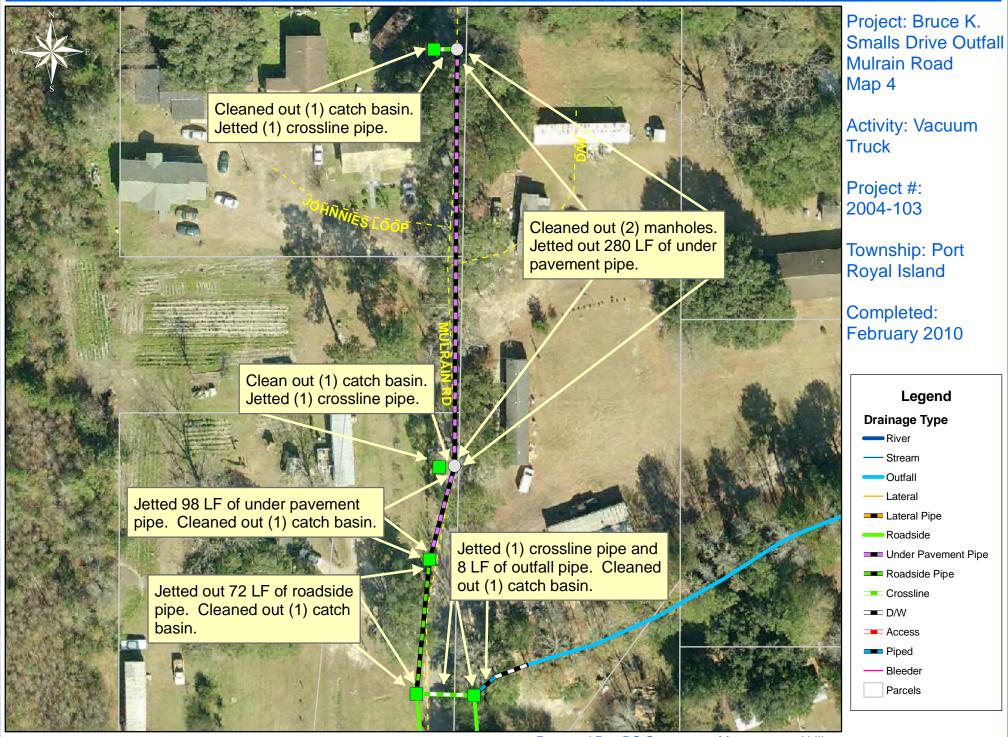
300

400

Feet

1 inch equals 130 feet

File:C:/sethdata/projects/projectmaps/Vactruck/BruceKSmalls Map3 2004-103



Prepared By: BC Stormwater Management Utility Date Print: 9/7/10 File:C:/sethdata/projects/projectmaps/Vactruck/BruceKSmalls Map4 2004-103

25 50

150

100

200

Feet

1 inch equals 68 feet