

Beaufort County Public Works Stormwater Infrastructure

Project Summary

Project Summary: Royal Pines Subdivision - Thomas Sumpter Street

Project #: 2010-167

Completed: Mar-10

Before

Narrative Description of Project:

Project improved 3,186 L.F. of drainage system. Removed debris from flowline. Dewatered to reduce pond level. Grubbed, cleared and reconstructed 230 L.F. of workshelf. Cleaned out 2,262 L.F. of outfall ditch and 520 L.F. of roadside ditch. Installed (1) bleeder pipe. Replaced (2) driveway pipes to correct elevation. Cleaned out (3) catch basins. Jetted (6) crossline pipes, (1) driveway pipe, 166 L.F. of roadside pipe and 8 L.F. of outfall pipe. Installed rip rap, sod and hydroseeded for erosion control.

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost	
12" HDPE Pipe	linear feet	\$4.86	20.0	\$97.20	During
15" RCP Pipe	linear feet	\$9.79	48.0	\$469.92	Ū
Fill Dirt	ton	\$1.00	31.8	\$31.82	
Rip Rap	ton	\$47.08	3.7	\$175.49	
FLBC	ton	\$26.55	6.7	\$178.42	
Asphalt	ton	\$79.92	3.4	\$271.73	
Filter Blanket	sy	\$0.63	41.7	\$26.25	
Silt Fence	sy	\$0.78	7.8	\$6.07	
Turf Staples	each	\$0.03	95.0	\$2.85	
10-10-10 Fertilizer	bag	\$11.72	5.0	\$58.60	
Hydromulch	bale	\$12.22	10.0	\$122.20	
Hydrogel	cup	\$2.82	5.0	\$14.10	
Hydromax Liquid Fertilizer	cup	\$2.54	5.0	\$12.70	
Annual Rye Grass Seed	bag	\$19.21	5.0	\$96.05	
Crimson Clover Grass Seed	bag	\$65.00	1.0	\$65.00	After
419 Bermuda Sod	pallet	\$90.00	2.0	\$180.00	
Water	gallon	\$0.01	9,950	\$99.50	
Pin Flag	each	\$0.06	40.0	\$2.40	
Debris Disposal	ton	\$33.00	64.6	\$2,130.81	
Dockline TW Premium Rope				\$15.18	
Asphalt Roller Rental				\$73.69	
6" Pump Rental				\$194.82	
Gas	gallon	\$2.59	134.5	\$348.36	
Diesel	gallon	\$2.57	750.5	\$1,928.79	







Site Photographs

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Project #: 2010-167	
Material Cost, Rental Equipment Sum	mary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
Labor	hours		957.6	\$33,126.21
Total Cost of Materials, Rent	al Equip., a	and Labor		\$39,728.14
Note: Lober cost includes the			ringa ha	n ofito

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

Item	Asset No.	Cost/Hour	Hrs.	Cost
Volvo 290 Excavator	22870	\$49.56	18.0	\$892.08
Volvo 330 Excavator	22993	\$65.72	1.0	\$65.72
JCB Urban Excavator	23364	\$40.53	23.0	\$932.19
CAT Dozer	23125	\$35.50	1.0	\$35.50
JD Loader 444J	23271	\$29.75	6.0	\$178.50
Bobcat T300	22847	\$20.10	15.0	\$301.50
Lowboy	23118	\$34.64	7.5	\$259.80
Vacuum truck	22812	\$20.30	17.0	\$345.10
Hydroseeder	18909	\$7.35	4.0	\$29.40
6" Trash Pump	22798	\$5.95	12.5	\$74.38
Dump Trucks		\$16.68	109.0	\$1,818.12
Pickup Trucks		\$4.17	275.0	\$1,146.75
Total Equipment Cost				\$6,079.04

Cost/hour excludes fuel cost.

Total Cost:

\$45,807.17

After

Before

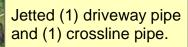
During

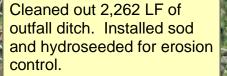
Site Photographs











1 inch = 372 feet

Jetted (2) crossline pipes.

560

40

280

Replaced (2) driveway pipes to correct elevation. Installed rip rap for erosion control.

Grubbed, cleared and constructed 230 LF of workshelf.

840

1,120

Feet

Project: Royal Pines Subdivsion - Thomas Sumpter Street Map 1

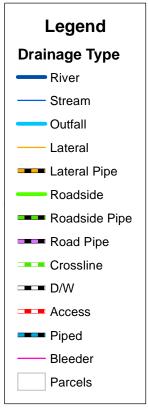
Activity: Drainage Maintenance

Project #: 2010-167

Jetted 185 LF of outfall pipe.

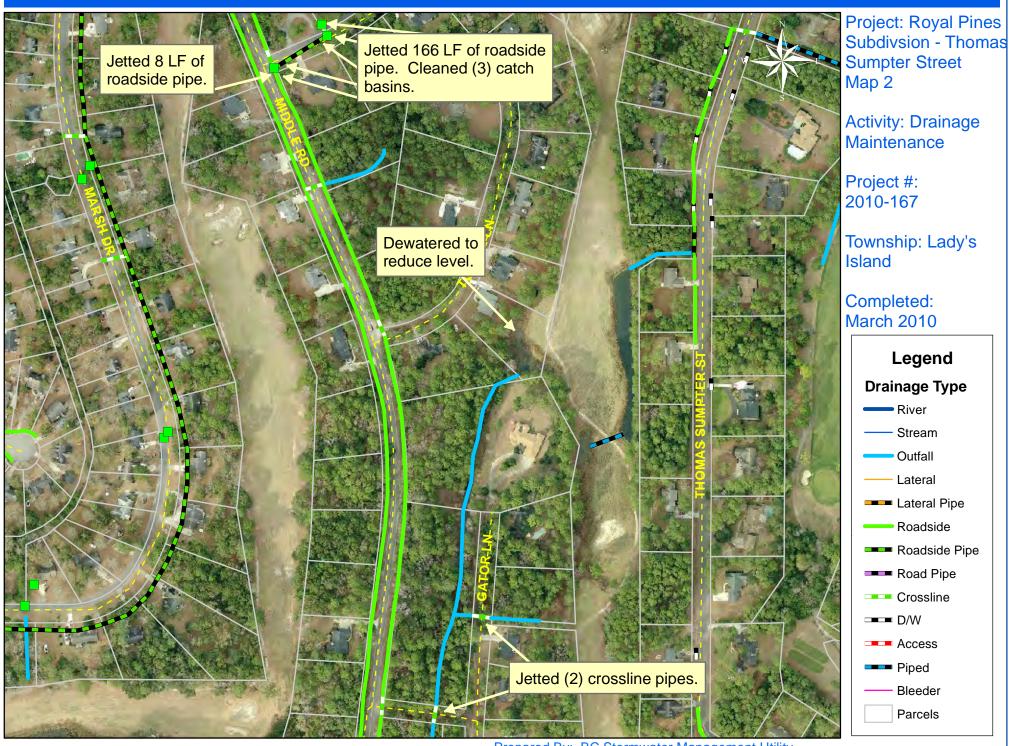
Township: Lady's Island

Completed: March 2010



Prepared By: BC Stormwater Management Utility Date Print: 2/18/11 File:C:/sethdata/projects/projectmaps/Royal Pines_Thomas Sumpter 2010-167 Map1

Installed (1) bleeder pipe.



200 400

100

800 Feet

1 inch = 261 feet

600

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File:C:/sethdata/projects/projectmaps/Royal Pines_Thomas Sumpter 2010-167 Map2