



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Possum Hill Road Outfall

Project #: 2011-564 Completed: Apr-11

Narrative Description of Project:
 Project improved 1,926 L.F. of drainage system. Shinn cut and cleaned out 1,526 L.F. of outfall ditch. Constructed 400 L.F. of outfall ditch beyond critical line. Reconstructed 500 L.F. of workshelf. Installed (1) access pipe and (1) bleeder pipe. Extended (1) access pipe. Jetted (1) crossline pipe. Installed rip rap 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
15" RCP Pipe	linear feet	\$9.62	16.0	\$153.92
Fill Dirt	ton	\$1.00	217.4	\$217.40
#57 Stone	ton	\$39.06	27.3	\$1,066.34
Rip Rap	ton	\$48.15	3.7	\$179.12
Recycled Concrete	ton	\$1.00	432.3	\$432.34
Filter Blanket	sy	\$0.63	13.9	\$8.74
Silt Fence w/Stakes	sy	\$0.24	248.9	\$59.73
Silt Fence	sy	\$0.78	0.8	\$0.60
Turf Staple	each	\$0.03	20.0	\$0.60
10-10-10 Fertilizer	bag	\$11.72	3.0	\$35.16
Hydromulch	bale	\$12.57	6.0	\$75.42
Hydrogel	cup	\$2.82	3.0	\$8.46
Hydromax Liquid Fertilizer	cup	\$2.54	3.0	\$7.62
Bermuda Grass Seed	bag	\$128.40	2.0	\$256.80
Brown Top Millet Grass Seed	bag	\$21.40	1.0	\$21.40
Water	gallon	\$0.01	3,300	\$33.00
Pin Flag	each	\$0.06	19.0	\$1.14
Debris Disposal	ton	\$17.00	5.6	\$94.86
Debris Disposal	ton	\$33.00	3.4	\$112.20
Tree Removal Service				\$400.00
Non Professional Service				\$16,700.00
Gas	gallon	\$3.33	84.7	\$282.05
Diesel	gallon	\$3.47	713.0	\$2,474.11
Labor	hours		582.0	\$12,869.88
Indirect Labor, Services, and Supplies				\$8,986.44
Total Cost of Materials, Rental Equip., and Labor				\$44,574.53

Site Photographs

Before



During



After



Possum Hill Road Outfall Project Summary Con't

Project #: 2011-564

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

Equipment Cost

Item	Asset No.	Cost/Hour	Hrs.	Cost
Shinn Cutter	22943	\$35.74	8.0	\$285.92
Volvo 290 Excavator	22870	\$54.13	19.0	\$1,028.47
Volvo 330 Excavator	22993	\$59.32	2.5	\$148.30
Volvo 308D Excavator	23514	\$27.58	10.0	\$275.80
JCB Urban Excavator	23364	\$31.45	12.0	\$377.40
CAT Dozer	23125	\$35.50	11.0	\$390.50
JD Loader 444J	23271	\$29.75	7.0	\$208.25
Bobcat T300	22847	\$20.10	38.0	\$763.80
Lowboy	23214	\$34.64	6.0	\$207.84
Vacuum Truck	22812	\$22.16	1.0	\$22.16
Hydroseeder	23474	\$12.44	4.0	\$49.76
Dump Trucks		\$13.31	135.4	\$1,802.17
Pickup Trucks		\$4.12	179.0	\$737.48
Total Equipment Cost				\$6,297.85

Cost/hour excludes fuel cost.

Total Cost: \$50,872.39

Site Photographs

Before



During



After



Project: Possum Hill Road Outfall

Activity: Drainage Maintenance

Project #: 2011-564

Township: Port Royal Island

Completed: April 2011



Shinn cut, cleaned out and reconstructed 950 LF of outfall ditch and workshelf. Hydroseeded for erosion control.

Shinn cut, cleaned out and reconstructed 576 LF of outfall ditch and workshelf. Hydroseeded for erosion control.

Installed (1) bleeder pipe.

Installed and extended (1) access pipe. Installed rip rap for erosion control.

Constructed 400 LF of outfall ditch beyond critical line.

Jetted (1) crossline pipe.

Legend

Drainage Type

- River
- Stream
- Outfall
- Lateral
- Lateral Pipe
- Roadside
- Roadside Pipe
- Road Pipe
- Crossline
- D/W
- Access
- Piped
- Bleeder
- Parcels



1 inch = 398 feet