



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary: Gray Road Outfall**

Project #: 2009-029

Completed: Jan-09

**Narrative Description of Project:**

Project improved 3,862 L.F. of outfall and roadside ditches. Shinn cut and reconstructed 1,247 L.F. of outfall ditch and workshelf. Cleaned out 2,615 L.F. of roadside ditch. Installed (4) access pipe, upsized (1) crossline pipe and (1) driveway pipe. Installed rip rap, handseeded and hydroseeded for erosion control.

**Material Cost, Rental Equipment Summary, and Labor**

Material	Unit	Cost/Unit	Qty	Cost
15" RCP Pipe	linear feet	\$9.79	80.0	\$783.20
18" RCP Pipe	linear feet	\$10.59	24.0	\$254.16
24" RCP Pipe	linear feet	\$16.42	80.0	\$1,313.60
Fill Dirt	ton	\$1.00	331.4	\$331.41
Rip Rap	ton	\$49.22	82.5	\$4,062.62
#57 Stone	ton	\$39.50	13.7	\$539.18
FLBC	ton	\$26.22	23.9	\$626.40
Asphalt	ton	\$79.18	8.5	\$673.03
Asphalt Milling	ton	\$13.91	16.9	\$235.22
Tack	gallon	\$2.68	5.0	\$13.40
Filter Blanket Woven	sy	\$0.63	41.7	\$26.25
Silt Fence	sy	\$0.78	44.7	\$34.88
Silt Fence w/ Stakes	sy	\$0.49	1.9	\$0.95
Turf Staples	each	\$0.03	65.0	\$1.95
Masonry Type S Cement	70 lb bag	\$6.55	1.0	\$6.55
Recycled Concrete	ton	\$1.00	155.9	\$155.93
10-10-10 Fertilizer	bag	\$14.55	3.0	\$43.65
Hydromulch	bale	\$12.22	6.0	\$73.32
Hydrogel	cup	\$2.82	3.0	\$8.46
Annual Rye Grass Seed	bag	\$32.05	8.0	\$256.40
Pin Flag	each	\$0.06	58.0	\$3.48
Marking Paint	can	\$4.01	1.0	\$4.01
Debris Disposal	ton	\$16.00	110.8	\$1,772.80
Water	gallon	\$1.00	1,500	\$1,500.00

**Site Photographs**

Before



During



After



**Gray Road Outfall Project Summary Con't**

Project #: 2009-029

**Material Cost, Rental Equipment Summary, and Labor**

Material	Unit	Cost/Unit	Qty	Cost
Gas	gallon	\$1.62	142.0	\$230.04
Diesel	gallon	\$1.88	1,494	\$2,808.72
Labor	hours		1,275	\$45,357.26
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$61,116.86</b>

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

**Equipment Cost**

Item	Asset No.	Cost/Hour	Hrs.	Cost
Shinn Cutter	22943	\$58.34	11.0	\$641.74
CAT 325 Excavator	16649	\$58.61	69.0	\$4,044.09
Volvo 330 Excavator	22993	\$65.72	2.0	\$131.44
Komatsu Urban Excavator	19325	\$37.50	4.0	\$150.00
Komatsu Mini Excavator	23000	\$18.65	10.0	\$186.50
CAT Dozer	23125	\$35.50	22.0	\$781.00
New Holland Loader	19968	\$47.93	3.0	\$143.79
JCB Backhoe	22810	\$36.50	29.5	\$1,076.75
Bobcat T200	22782	\$17.40	11.0	\$191.40
Bobcat T300	22847	\$20.10	5.0	\$100.50
Lowboy	23118	\$34.64	4.0	\$138.56
Hydroseeder	18909	\$10.70	5.0	\$53.50
Asphalt Roller	20237	\$14.78	2.0	\$29.56
Dump Trucks		\$16.68	326.5	\$5,446.02
Pickup Trucks		\$5.43	417.0	\$2,264.31
<b>Total Equipment Cost</b>				<b>\$15,379.16</b>

Cost/hour excludes fuel cost.

Total Cost: \$76,496.02

**Site Photographs**

Before



During



After





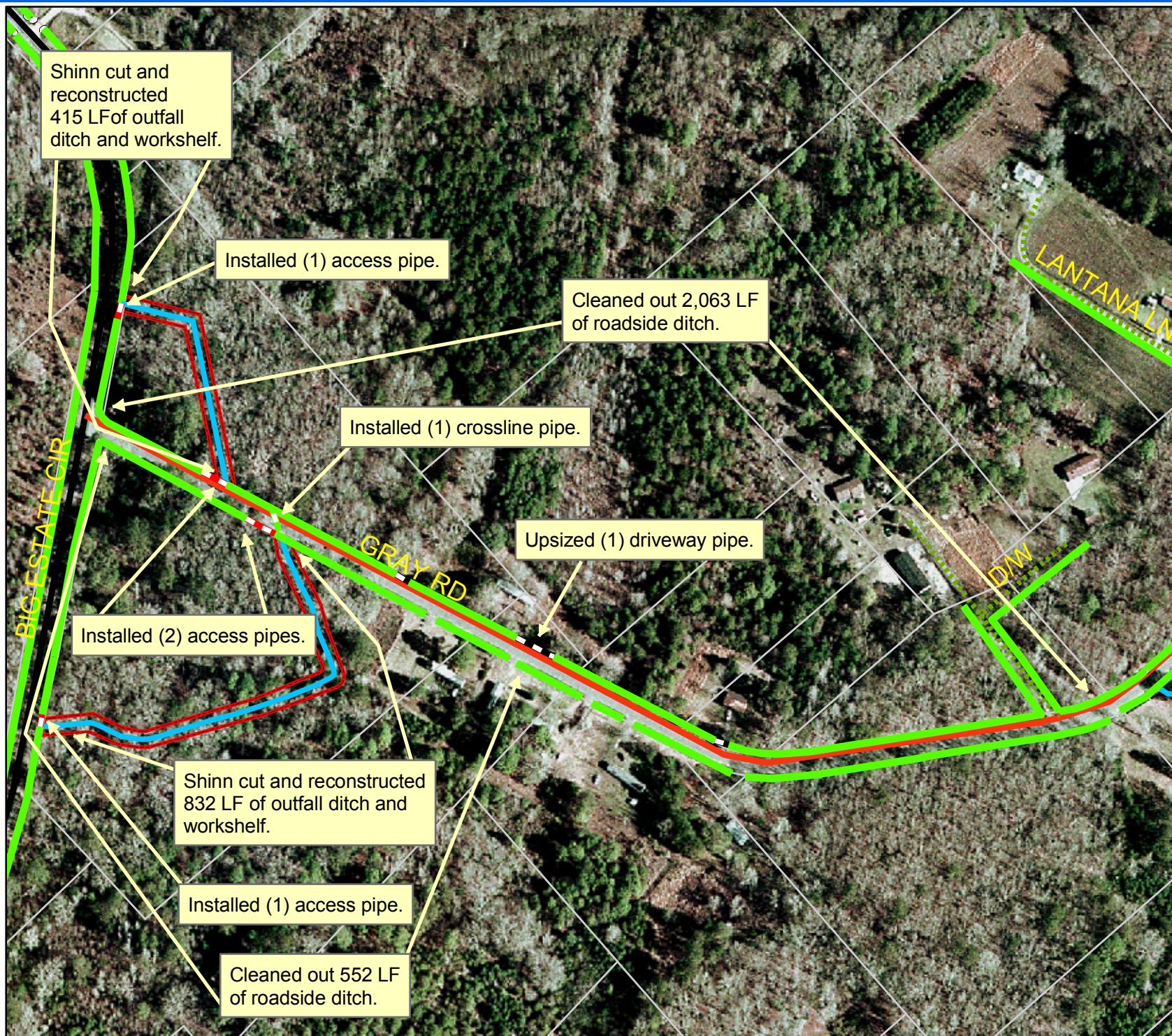
Project: Gray Road  
Outfall

Activity: Drainage  
Improvement

Project #:  
2009-029

Township:  
Sheldon

Completed:  
January 2009



**Legend**

- Parcels
- Drainage Type**
  - Rivers
  - Streams
  - Outfall Ditch
  - Lateral
  - Roadside Ditch
  - Road Crossing
  - Driveway Culverts
  - Access Pipe
  - Piped Ditch
  - Bleeder Ditch
  - Easements



1 inch equals 249 feet

Prepared By: Beaufort Co, Stormwater Management Utility

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File: C:/SETHDATA/PROJECTS/PROJECTMAPS/GREY RD OUTFALL 2009-29