

# Beaufort County Public Works Stormwater Infrastructure

Project Summary

Project Summary: Duncan Farms Outfall

Project #: 2003-047 Completed: Dec-09

Narrative Description of Project:

Project improved 11,971 L.F. of drainage system. Shinn cut 2,250 L.F. of outfall ditch. Grubbed 1,395 L.F. of outfall ditch. Cleaned out 4,186 L.F. of roadside ditch, 4,547 L.F. of outfall ditch and 865 L.F. of lateral ditch. Reconstructed 1,518 L.F. of lateral ditch. Installed (12) access pipes, (9) bleeder pipes, and (2) access gates. Replaced (1) driveway pipe and repaired (1) crossline pipe. Jetted (2) access pipes, (3) crossline pipes, (3) driveway pipes. Installed rip rap and hydroseeded for erosion control.

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

Material	Unit	Cost/Unit	Qty	Cost
15" RCP Pipe	linear feet	\$10.17	24.0	\$244.08
12" HDPE Pipe	linear feet	\$4.86	220.0	\$1,069.20
15" HDPE Pipe	linear feet	\$6.22	80.0	\$497.60
18" HDPE Pipe	linear feet	\$8.71	160.0	\$1,393.60
24" HDPE Pipe	linear feet	\$13.89	100.0	\$1,389.00
Fill Dirt	ton	\$1.00	1,137	\$1,137.38
Rip Rap	ton	\$47.08	48.5	\$2,281.38
#57 Stone	ton	\$36.09	6.8	\$246.31
Silt Fence	sy	\$0.78	28.4	\$22.14
Filter Blanket	sy	\$0.63	361.1	\$227.50
Turf Staples	each	\$0.03	365.0	\$10.95
10-10-10 Fertilizer	bag	\$12.83	10.0	\$128.30
Hydrogel	cup	\$2.82	10.0	\$28.20
Hydromax	cup	\$2.54	10.0	\$25.40
Hydromulch	bale	\$12.22	20.0	\$244.40
Annual Rye Grass Seed	bag	\$26.22	10.0	\$262.20
Water	gallon	\$0.01	9,500	\$95.00
Type "S" Cement	bag	\$9.35	0.5	\$4.68
Concrete Bricks	each	\$0.36	3.0	\$1.08
All Purpose Sand	bag	\$3.80	0.5	\$1.90
Pin Flags	each	\$0.06	152.0	\$9.12
4ft Flagger	each	\$0.34	12.0	\$4.08
Flagging Tape	roll	\$1.34	0.1	\$0.13

Before



Site Photographs



During

After

## Duncan Farms Lane Outfall Project Summary Con't

Project #: 2003-047

## Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
16ft Gate	each	\$148.73	2.0	\$297.46
6x6x12 Post	each	\$31.00	2.0	\$62.00
Debris Disposal	ton	\$16.00	154.2	\$2,467.68
Professional Services				\$655.00
Gas	gallon	\$2.40	286.0	\$686.40
Diesel	gallon	\$2.41	3380.8	\$8,147.73
Labor	hours		2,829.5	\$97,699.14
Total Cost of Materials,	\$119,339.04			

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

#### **Equipment Cost**

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Item	Asset	Cost/Hou	Hrs.	Cost
Shinn Cutter	22943	\$31.34	21.0	\$441.00
Volvo 290 Excavator	22870	\$49.56	61.0	\$3,023.16
Komatsu Mini Excavator	23000	\$18.65	104.0	\$1,939.60
JCB Urban Excavator	23364	\$40.53	37.0	\$1,499.61
CAT Dozer	23125	\$35.50	37.0	\$1,313.50
JD Loader 444J	23271	\$29.75	5.0	\$148.75
Bobcat T200	22782	\$17.40	5.0	\$87.00
Bobcat T300	22847	\$20.10	11.0	\$221.10
Bobcat T320	23388	\$21.00	12.0	\$252.00
Bush Hog	21300	\$35.00	5.0	\$175.00
Lowboy	23118	\$34.64	11.0	\$381.04
Vacuum Truck	22812	\$20.30	11.0	\$223.30
Hydroseeder	18909	\$7.35	14.0	\$102.90
Motor Grader	19597	\$49.90	8.0	\$399.20
Dump Trucks		\$16.68	709.0	\$11,826.12
Pickup Trucks		\$4.17	777.0	\$3,240.09
<b>Total Equipment Cost</b>	\$25,273.37			

Cost/hour excludes fuel cost.

Total Cost: \$144,612.41

## Site Photographs

Before



During



After







