



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lightsey Road Outfall

Project #: 2003-075

Completed: Sep-09

Narrative Description of Project:

Project improved 3,865 L.F. of drainage system. Bush hogged 2,268 L.F. of outfall ditch. Shinn cut 1,355 L.F of outfall ditch. Grubbed, cleared and cleaned out 612 L.F. of workshelf and outfall ditch. Cleaned out 905 L.F. of roadside ditch. Installed (7) access pipes, (3) bleeder pipes, (1) crossline pipe, twin flap gates and 80 L.F. of outfall pipe. Replaced (1) crossline pipe. Jetted (2) crossline pipes, (2) driveway pipes and (1) access pipe. 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	\$10.38	152.0	\$1,577.76
18" RCP Pipe	linear feet	\$12.41	172.0	\$2,134.52
24" RCP Pipe	linear feet	\$17.86	32.0	\$571.52
12" HDPE Pipe	linear feet	\$4.86	40.0	\$194.40
18" HDPE Pipe	linear feet	\$8.71	40.0	\$348.40
42" Aluminum Pipe	linear feet	\$29.08	80.0	\$2,326.40
42" Flap Gate	each	\$3,028.10	2.0	\$6,056.20
Fill Dirt	ton	\$1.00	1,065.8	\$1,065.80
Rip Rap	ton	\$47.08	70.8	\$3,334.68
#57 Stone	ton	\$37.29	27.3	\$1,018.02
Recycled Broken Concrete	ton	\$1.00	14.2	\$14.18
Silt Fence w/ Stakes	sy	\$0.49	120.6	\$59.07
Silt Fence	sy	\$0.78	62.6	\$48.84
Filter Blanket Woven	sy	\$0.63	375.0	\$236.25
Turf Staples	each	\$0.03	400.0	\$12.00
10-10-10 Fertilizer	bag	\$11.72	9.0	\$105.48
Hydromulch	bales	\$12.22	18.0	\$219.96
Hydromax Liquid Fertilizer	cup	\$2.54	9.0	\$22.86
Hydrogel	cup	\$2.82	9.0	\$25.38
Brown Top Millet Grass Seed	bag	\$20.33	4.0	\$81.32
Annual Rye Grass Seed	bag	\$19.21	5.0	\$96.05
Pin Flags	each	\$0.06	101.0	\$6.06
Sediment Logs	each	\$32.10	1.0	\$32.10
Portable Toilet Service	each	\$108.00	1.0	\$108.00
Water	gallon	\$0.01	7,650	\$76.50

Site Photographs

Before



During



After



Lightsey Road Outfall Project Summary Cont

Project #: 2003-075

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
Gas	gallon	\$2.24	164.0	\$367.36
Diesel	gallon	\$2.20	2,703	\$5,946.60
Labor	hours		2,208.5	\$77,264.03
Total Cost of Materials, Rental Equip., and Labor				\$103,349.73

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

Equipment Cost

Item	Asset	Cost/Hour	Hrs.	Cost
Shinn Cutter	29943	\$31.34	19.0	\$595.46
Volvo 330 Excavator	22993	\$65.72	101.5	\$6,670.58
CAT 325	16649	\$22.51	11.0	\$247.61
Komatsu Mini Excavator	23000	\$18.65	29.0	\$540.85
JCB Urban Excavator	23364	\$40.53	8.0	\$324.24
CAT Dozer	23125	\$35.50	10.5	\$372.75
Bobcat T200	22870	\$49.56	35.5	\$1,759.38
Bobcat T300	22847	\$20.10	25.0	\$502.50
CAT 953 Loader	14688	\$24.00	10.0	\$240.00
JD Loader 444J	23271	\$29.75	28.5	\$847.88
Bush Hog	23361	\$42.37	6.0	\$254.22
Hydroseeder	18909	\$7.35	12.0	\$88.20
Vacuum Truck	22812	\$20.30	13.5	\$274.05
Lowboy	28118	\$34.64	9.0	\$311.76
Dump Trucks		\$16.68	426.5	\$7,114.02
Pickup Trucks		\$4.17	579.5	\$2,416.52
Total Equipment Cost				\$22,560.01

Cost/hour excludes fuel cost.

Total Cost: \$125,909.74

Site Photographs

Before



During



After



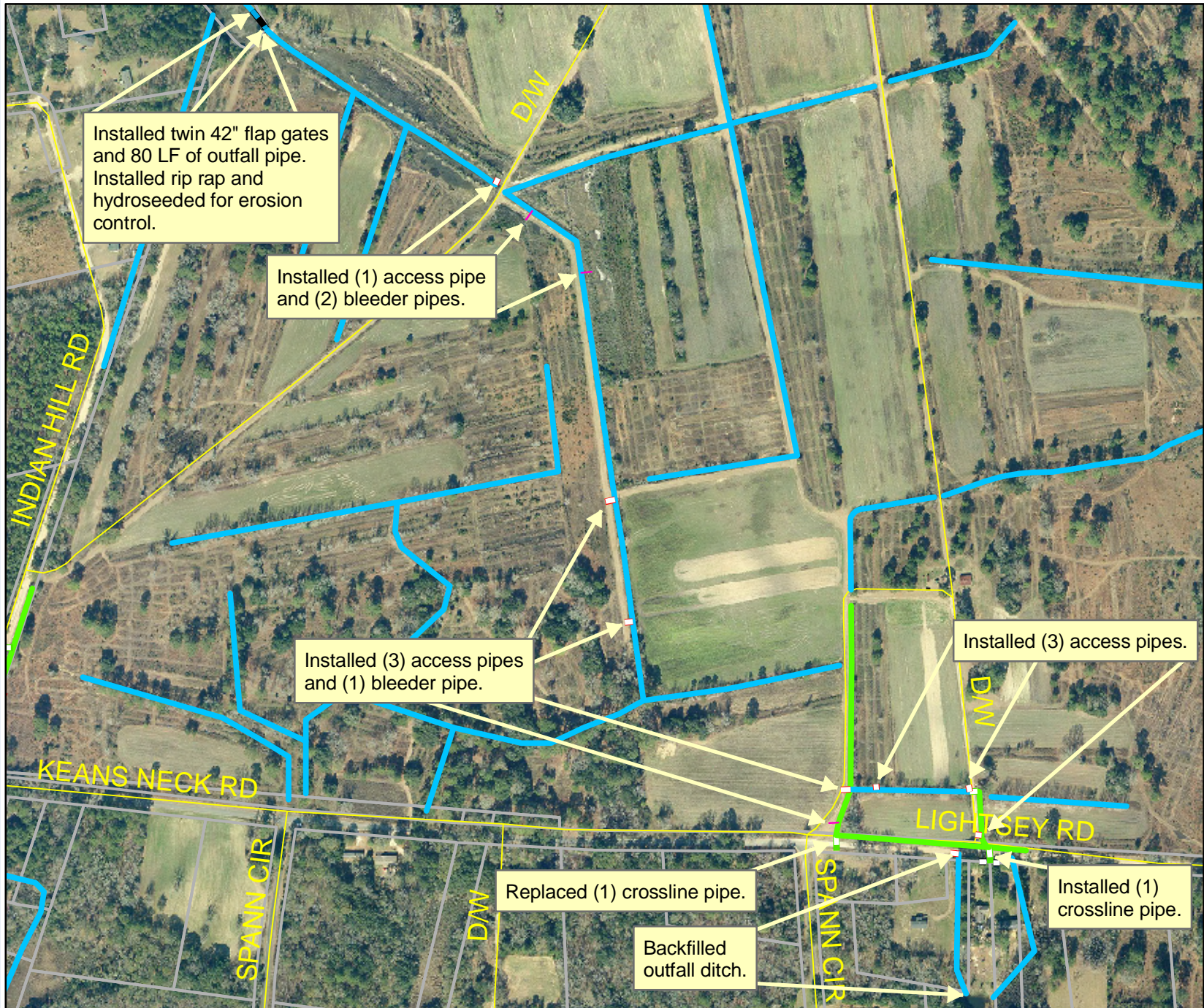
Project: Lightsey Road Map 1

Activity: Drainage Improvement

Project #: 2003-075

Township: Sheldon

Completed: September 2009



Legend

Drainage Type

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



1 inch equals 473.4 feet

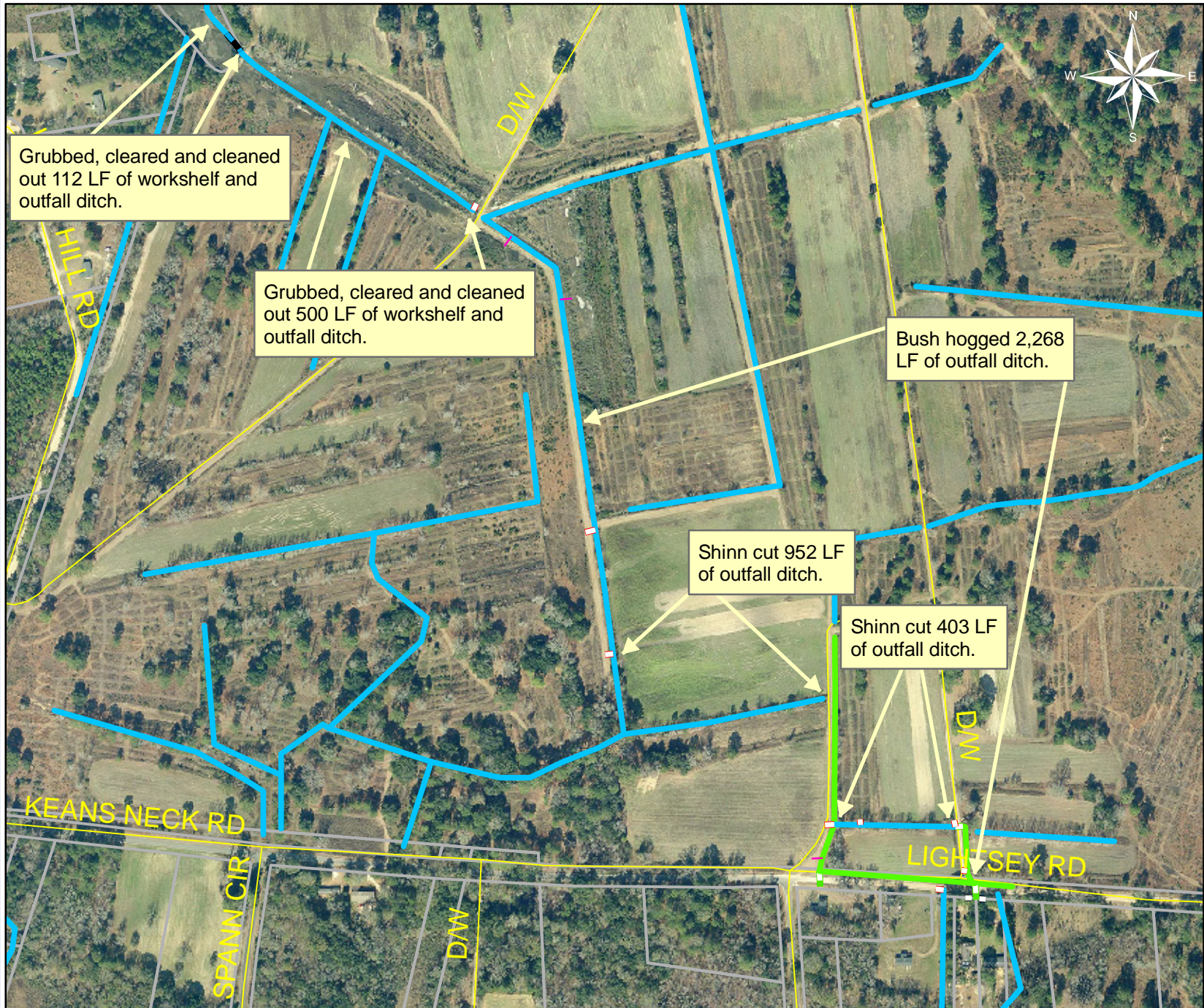
Project: Lightsey Road Map 2

Activity: Drainage Improvement

Project #: 2003-075












Township: Sheldon

Completed: September 2009



Legend

Drainage Type

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



1 inch equals 467.09 feet

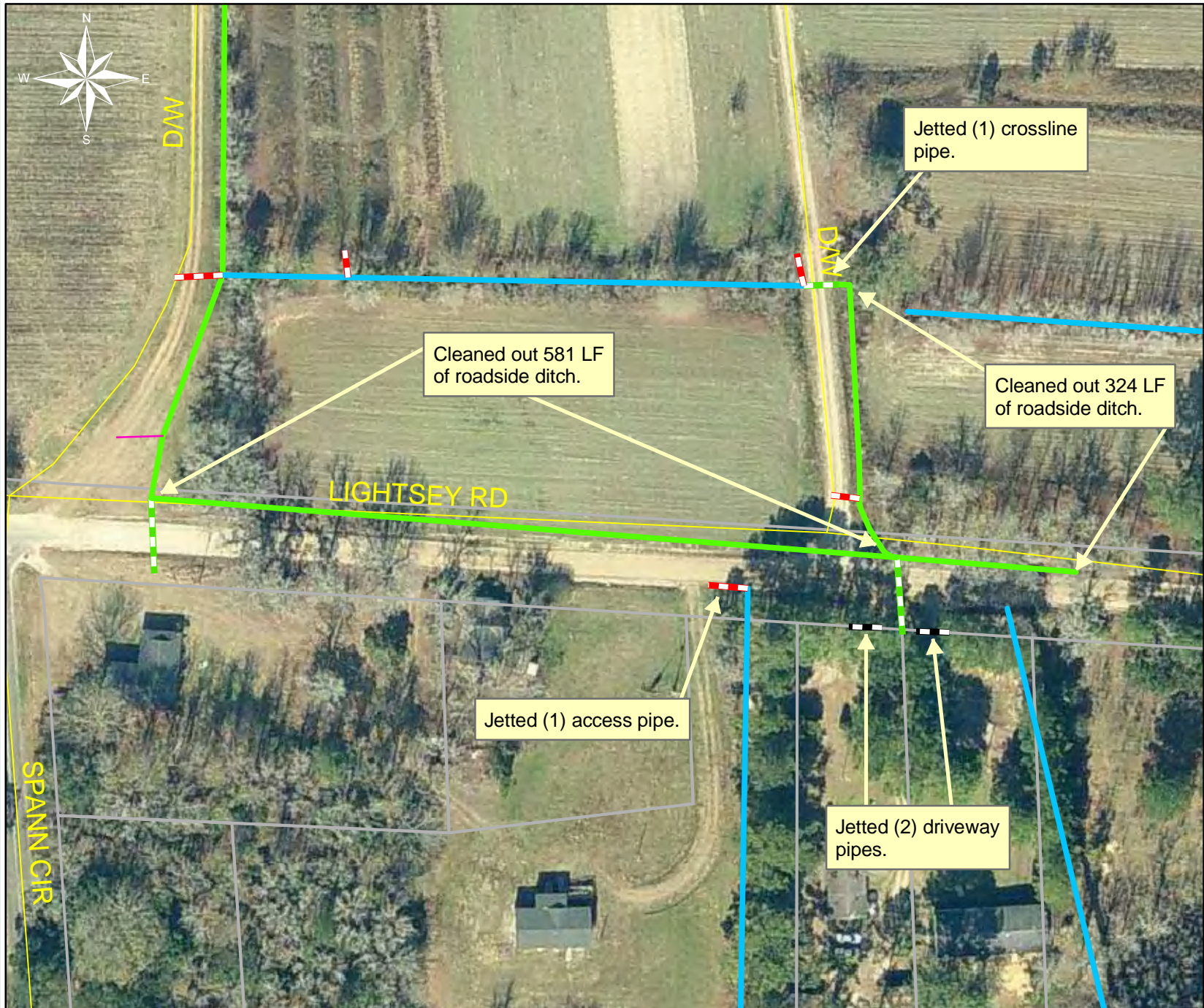
Project: Lightsey Road Map 3

Activity: Drainage Improvement

Project #: 2003-075

Township: Sheldon

Completed: September 2009



Legend

Drainage Type

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



1 inch equals 97.4 feet

Prepared By: BC Stormwater Management Utility
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