



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

Project Summary: Forest Field Subdivision - Clydesdale Circle, Quarter Horse Road and Pony Avenue

Project #: 2010-237                      Completed: Jul-10

Narrative Description of Project:  
 Project improved 4,940 L.F. of drainage system. Grubbed, cleared and cleaned out 120 L.F. of outfall ditch. Cleaned out 4,034 L.F. roadside ditch and 786 L.F. of outfall ditch. Repaired washouts. Jetted (6) crossline pipes, (16) driveway pipes and (2) access pipes. Installed rip rap for erosion control.

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

Material	Unit	Cost/Unit	Qty	Cost
Fill Dirt	ton	\$1.00	31.8	\$31.82
Rip Rap	ton	\$47.08	3.7	\$175.61
FLBC	ton	\$26.55	6.7	\$178.42
Concrete Brick	each	\$0.36	16.0	\$5.76
Type "S" Cement	75 lb bag	\$9.35	0.5	\$4.68
All Purpose Sand	bag	\$3.80	0.5	\$1.90
Marking Paint	each	\$4.44	34.0	\$150.96
Pin Flags	each	\$0.06	26.0	\$1.56
Water	gallon	\$0.01	6,500	\$65.00
Diesel	gallon	\$2.61	552.5	\$1,442.03
Gas	gallon	\$2.54	61.0	\$154.94
Labor	hours		935.5	\$20,876.30
Indirect Labor, Services, and Supplies				\$14,708.69
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$37,797.65</b>

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

**Equipment Cost**

Item	Asset No.	Cost/Hour	Hrs.	Cost
Komatsu Mini Excavator	23000	\$14.90	40.0	\$596.00
JD Loader 444J	23271	\$29.75	5.0	\$148.75
JCB Backhoe	22810	\$36.50	48.0	\$1,752.00
Bobcat T300	22847	\$20.10	2.0	\$40.20
Bobcat T320	23388	\$21.00	2.0	\$42.00
Vacuum Truck	22812	\$22.16	19.5	\$432.12
Dump Trucks		\$13.31	232.0	\$3,087.92

**Site Photographs**

Before



During



After



**Forest Field Subdivision - Clydesdale Circle Project Summary Con't**

Project #: 2010-237

**Equipment Cost**

Item	Asset No.	Cost/Hour	Hrs.	Cost
Pickup Trucks		\$4.12	233.0	\$959.96
<b>Total Equipment Cost</b>				<b>\$7,058.95</b>

Cost/hour excludes fuel cost.

Total Cost: \$44,856.60

**Site Photographs**

Before



During



After



Project: Forest Field Subdivision - Clydesdale Circle Map 1

Activity: Drainage Maintenance














Project #: 2010-237

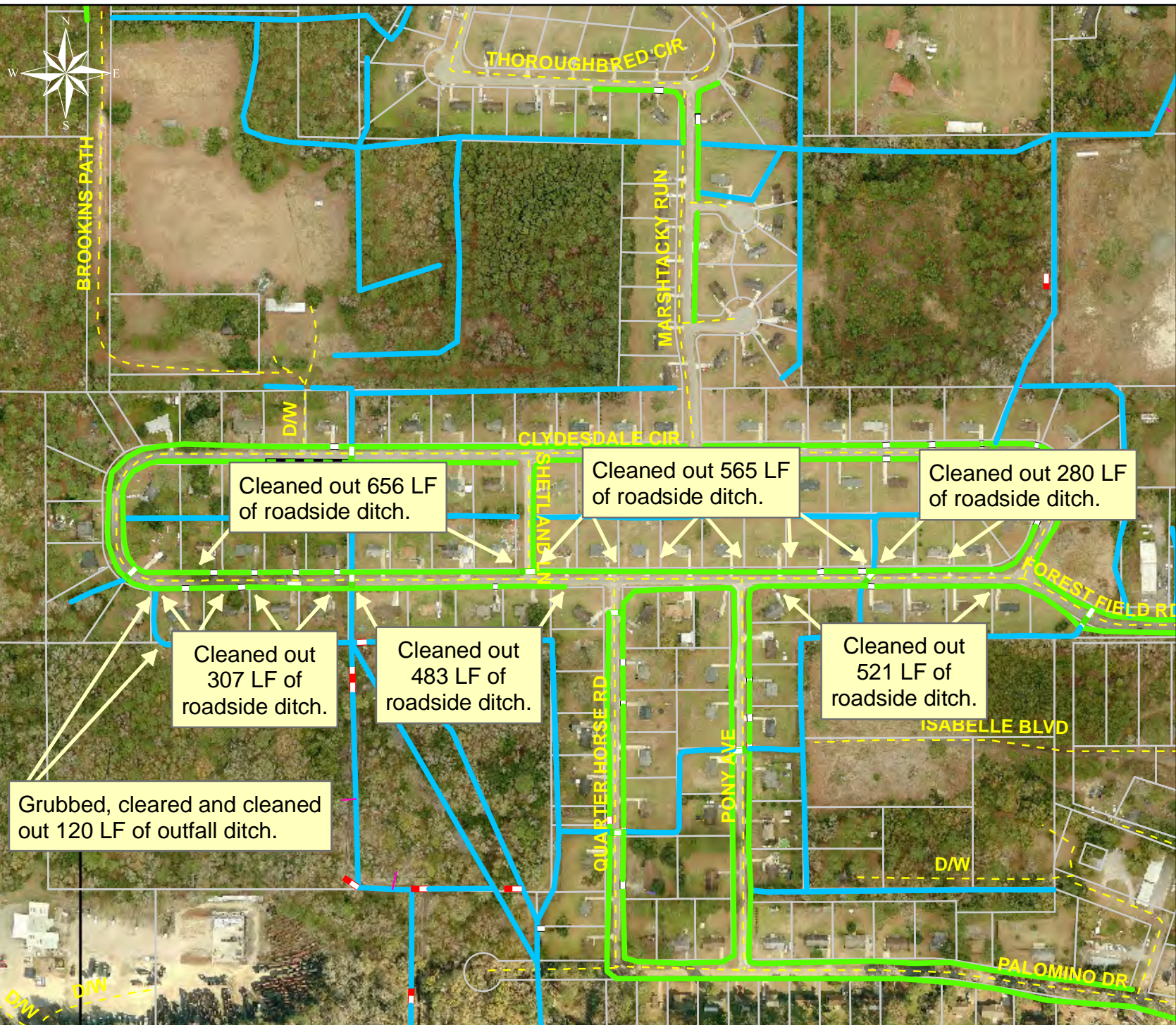
Township: Port Royal Island

Completed: July 2010

**Legend**

**Drainage Type**

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



1 inch = 355 feet

Prepared By: BC Stormwater Management Utility

Date Print: 12/3/10

File: C:\sethdata\projects\projectmaps\Forest Field SD Clydesdale Cir 2010-237

Project: Forest Field Subdivision - Clydesdale Circle Map 2

Activity: Drainage Maintenance














Project #: 2010-237

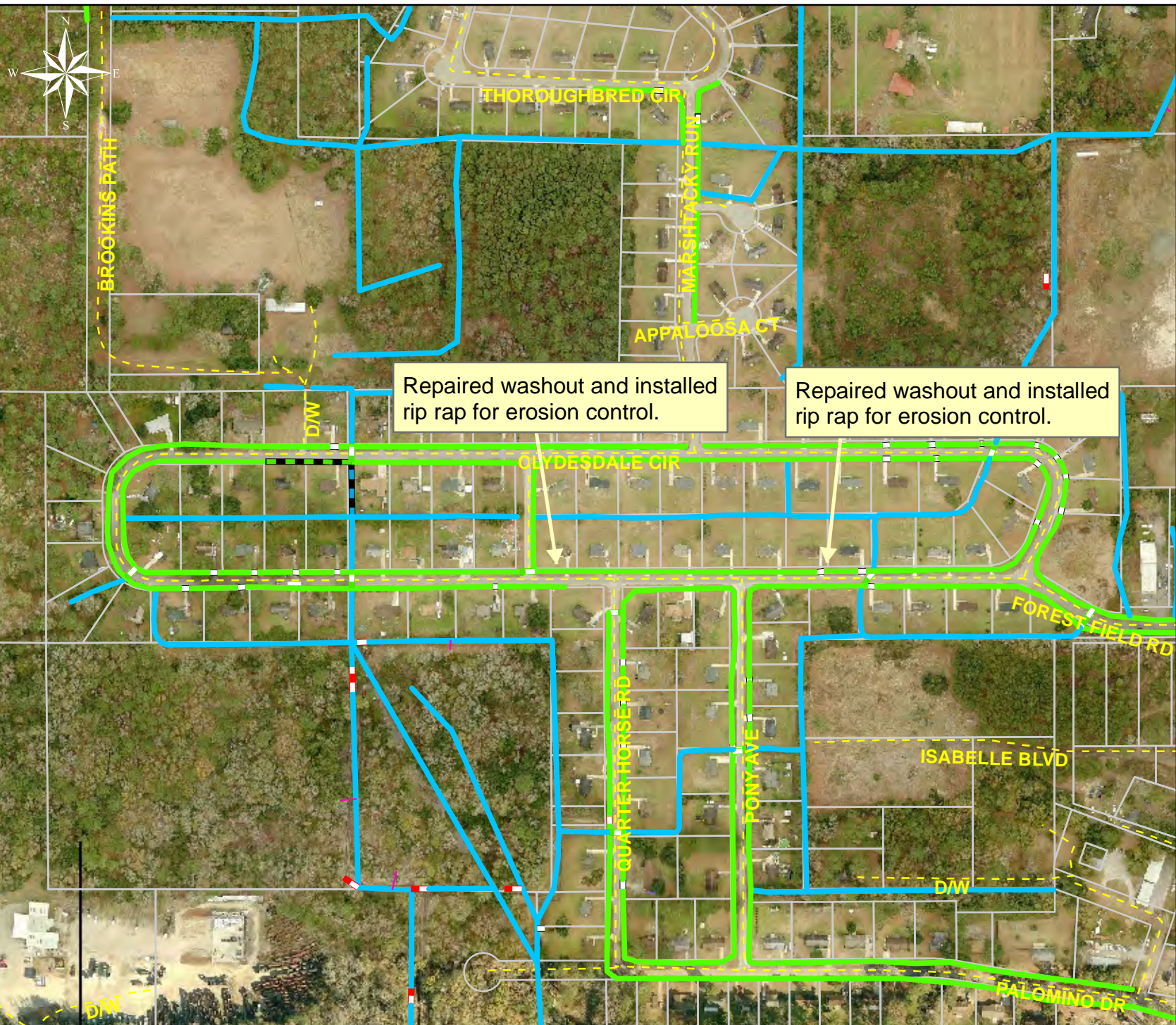
Township: Port Royal Island

Completed: July 2010

### Legend

#### Drainage Type

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



1 inch = 355 feet

Prepared By: BC Stormwater Management Utility

Date Print: 12/3/10

File: C:/sethdata/projects/projectmaps/Forest Field SD Clydesdale Cir 2010-237 #2

Project: Forest Field Subdivision - Quarter Horse Road Map 3

Activity: Drainage Maintenance














Project #: 2010-237

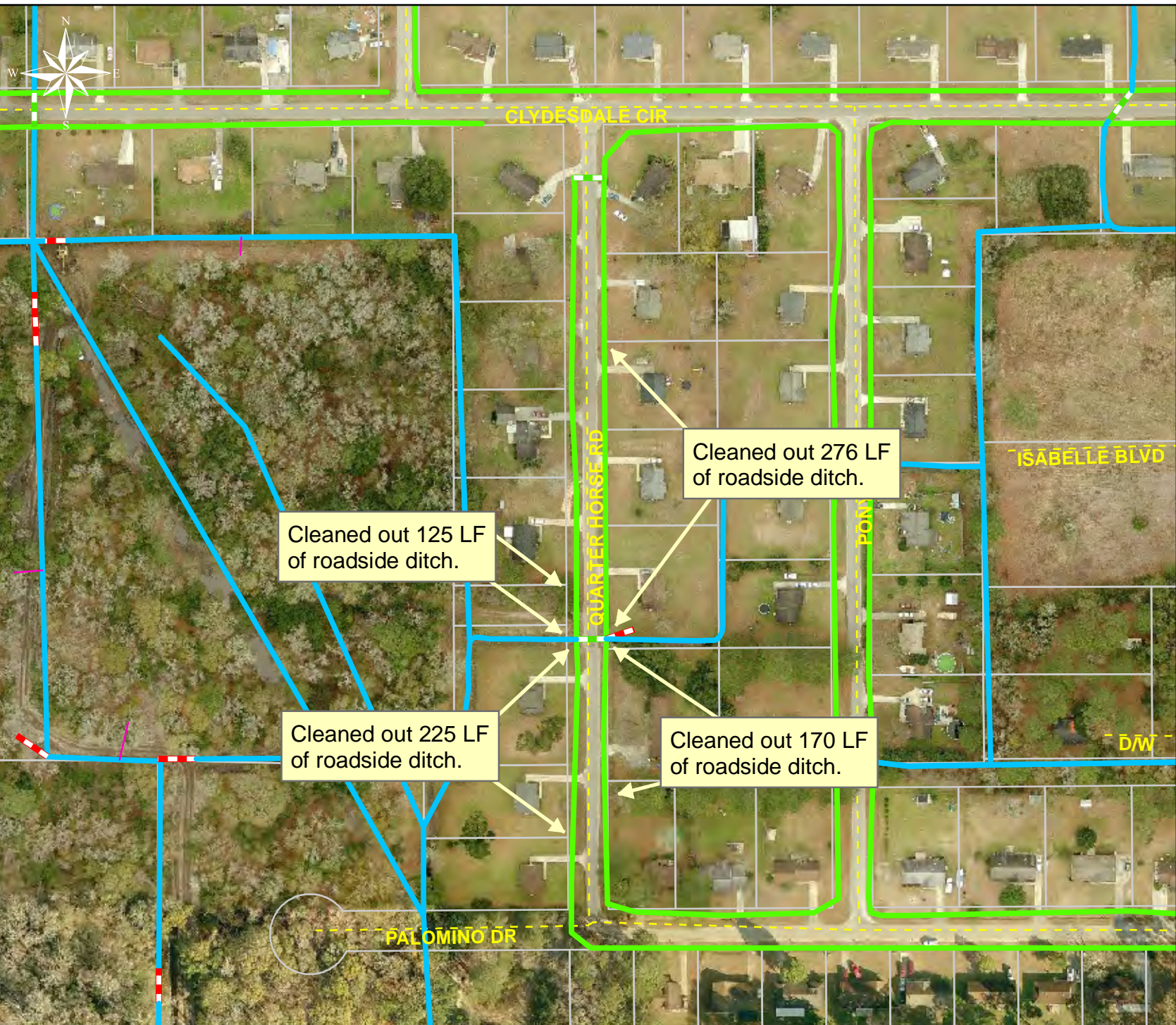
Township: Port Royal Island

Completed: July 2010

### Legend

#### Drainage Type

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



1 inch = 169 feet

Prepared By: BC Stormwater Management Utility

Date Print: 12/8/10

File: C:/sethdata/projects/projectmaps/Forest Field SD Quater Horse Rd 2010-237

Project: Forest Field Subdivision - Pony Avenue  
Map 4

Activity: Drainage Maintenance














Project #: 2010-237

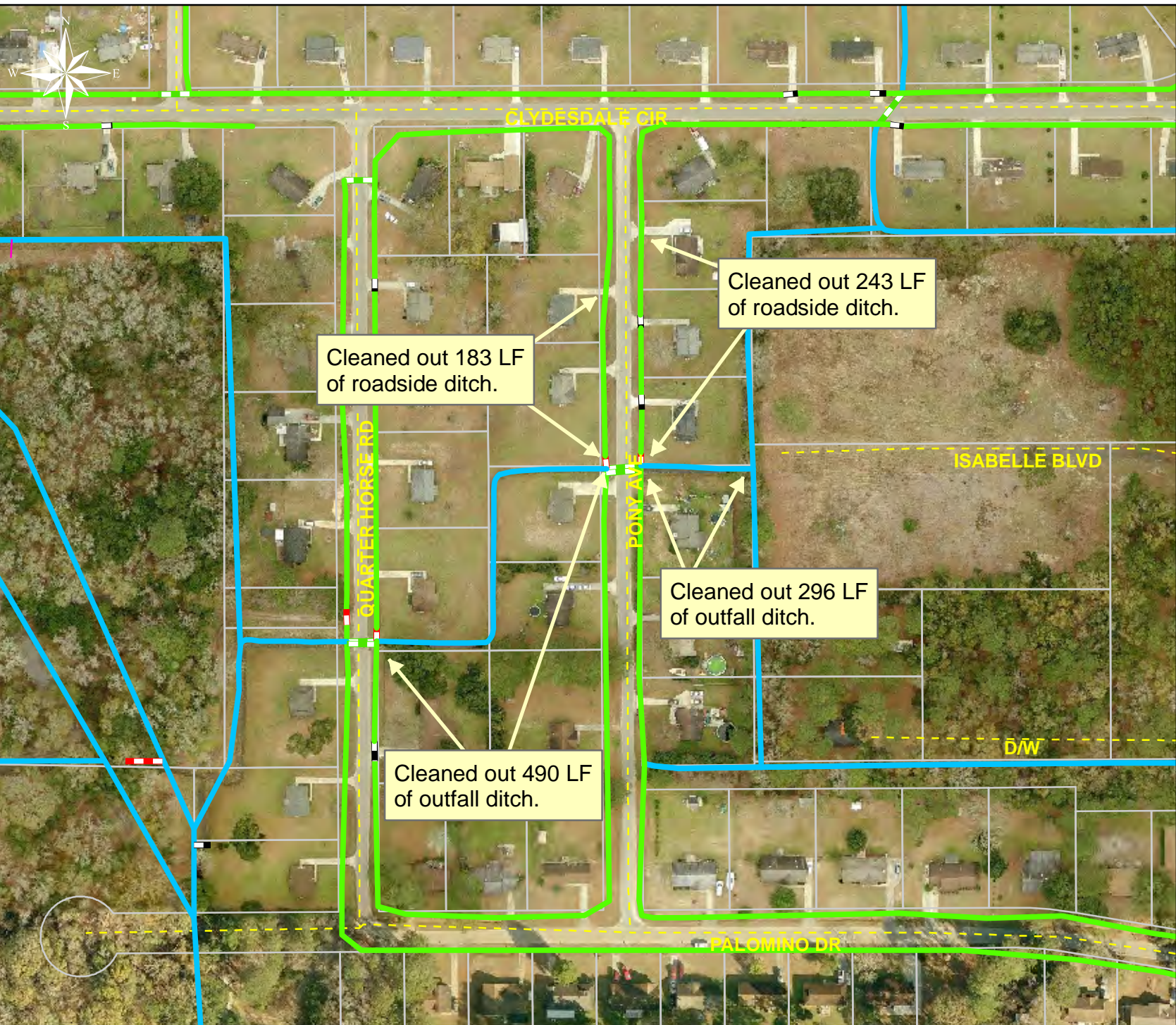
Township: Port Royal Island

Completed: July 2010

### Legend

#### Drainage Type

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



1 inch = 169 feet

Prepared By: BC Stormwater Management Utility

Date Print: 12/3/10

File: C:/sethdata/projects/projectmaps/Forest Field SD Pony Ave 2010-237

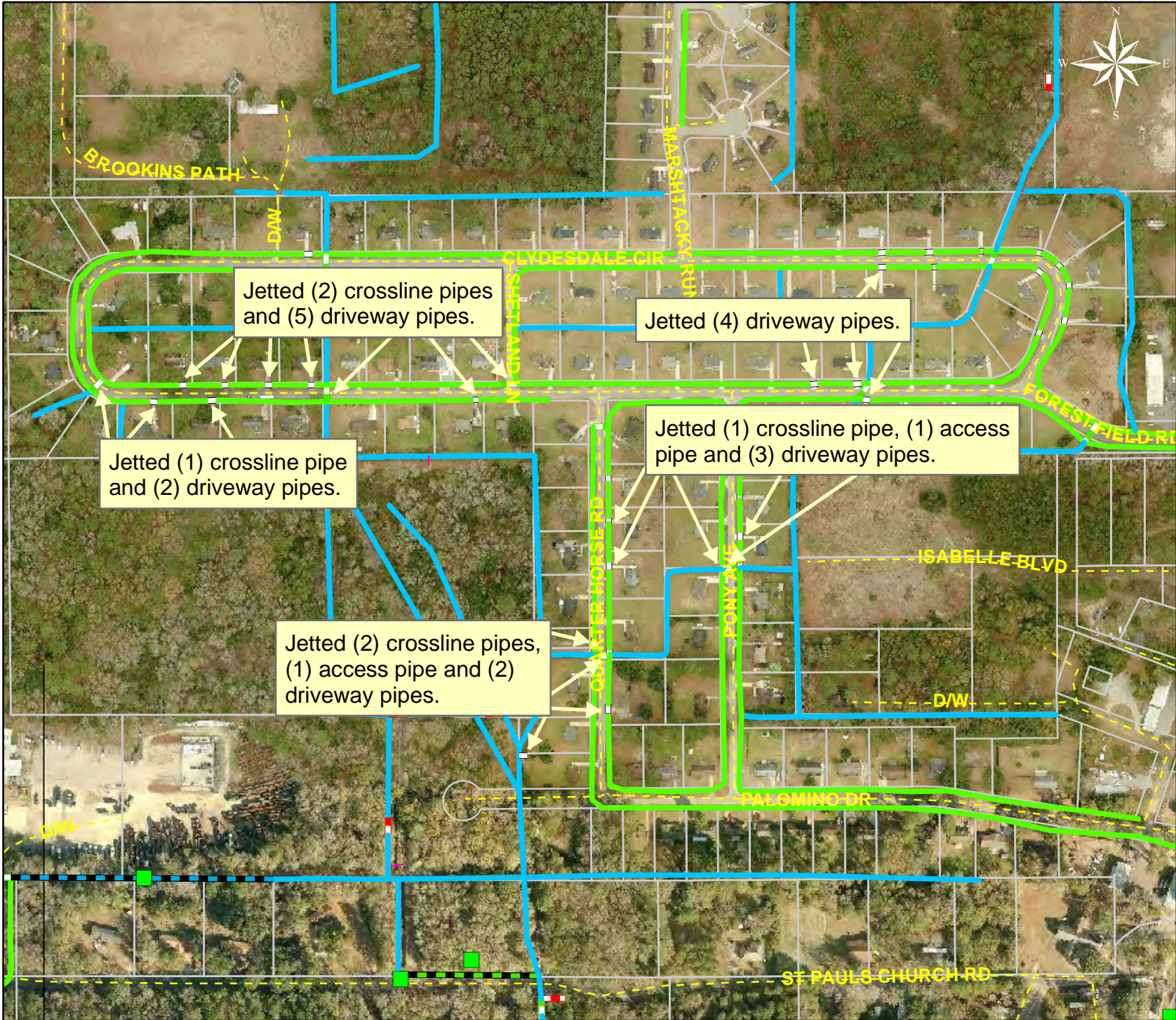
**Project: Forest Field Subdivision  
Quarter Horse Road,  
Pony Avenue and  
Clydesdale Circle  
Map 5**

**Activity: Vacuum  
Truck**

**Project #:  
2010-237**

**Township: Port  
Royal Island**

**Completed:  
July 2010**



Jetted (2) crossline pipes  
and (5) driveway pipes.

Jetted (4) driveway pipes.

Jetted (1) crossline pipe  
and (2) driveway pipes.

Jetted (1) crossline pipe, (1) access  
pipe and (3) driveway pipes.

Jetted (2) crossline pipes,  
(1) access pipe and (2)  
driveway pipes.

**Legend**

**Drainage Type**

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



**1 inch = 340 feet**