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## ALACHUA COUNTY PUBLIC WORKS OPERATING PROCEDURE

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**DIVISION:**            Transportation & Development

**SECTION:**            Real Property/Survey

**PROCEDURE #:**      ERE-2

**SUBJECT:**            Street And Highway Facility Inventory

**DATE:**                12/05/01      **REVISION #:**

**PREPARED BY:**      Barbara Allen

**APPROVED BY:**      Matthew Dominy, P.E., Director Of Public Works

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**POLICY:**            **The section will compile accurate statistics on Alachua County maintained roadways to support infrastructure management, transportation needs assessment, and produce a yearly mileage summary report for the Alachua County O.M.B and provide data and analysis to support GASB 34 reporting.**

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The Construction Inspection Office, the Road and Bridge Office and the Sign Office fill out hard copy inventory forms to reflect any significant change on Alachua County Maintained Roadways and Subdivisions. The forms are used to update the following FoxPro database tables:

### Alachua County Maintained Roads and Subdivisions

Structure for table: u:\roads\dbf\roads.dbf      Number of data records:      621

Field	Field Name	Type	Width	Dec.	Description
1	FUNC_NO	Numeric	1		Functional Classification (numeric)
2	DATE_ENTRD	Date	8		Date of input
3	NEW_CHANGE	Character	6		Status (NEW/ADD/CHANGE)
4	DATE	Date	8		Date of first inventory
5	ROAD_NO	Character	30		Road or Subdivision Name
6	NAME	Character	50		Alias or old road names
7	FROM	Character	30		Intersecting Road Name
8	TO	Character	30		Intersecting Road Name
9	SEGMENT	Numeric	5		Unique I.D.
10	LENGTH	Numeric	6	3	Miles
11	FUNC_CLA	Character	15		Functional Classification (text) <sup>1</sup>
12	ROAD_TYPE	Character	30		Pavement status (text) <sup>2</sup>

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<sup>1</sup> 1 = Minor Urban Arterial, 2 = Major Collector, 3 = Minor Collector, 4 = Local Road, 5 = Subdivision

13	TYPE	Numeric	1		Pavement status (numeric)
14	FED_AID	Character	1		Yes/No
15	MAINT_DIST	Character	13		Central, Eastern, Western
16	MOWING_HWY	Numeric	41		Acres
17	MOW_SMALL	Numeric	4	1	Acres
18	GUARD_RAIL	Numeric	4		Linear Feet
19	SIGNS	Numeric	4		Number of signs
20	DWAY_WPIPE	Numeric	4		Driveways with pipe
21	DWAY_WOPIP	Numeric	4		Driveways without pipe
22	INLETS_MAN	Numeric	4		Number of inlets
23	CURB_GUT	Numeric	6		Linear Feet of Curb & Gutter
24	STORM	Logical	1		YES/NO (Storm Sewer)

**Alachua County Maintained Retention Basins**

Structure for table: u:\roads\dbf\basins.dbf                      Number of data records:      210

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I.D.
2	MILE_POST	Numeric	3		Point on Road of Basin
3	ACRES	Numeric	4	1	Surface maintenance
4	MECHHAND	Character	4		Method of maintenance

**Alachua County Maintained Bikeways**

Structure for table: u:\roads\dbf\bikeway.dbf                      Number of data records:      55

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	MILE_POST1	Numeric	6	3	Beginning point of Bikeway
3	MILE_POST2	Numeric	6	3	Ending point of Bikeway
4	LR	Character	1		Left or Right side of the road
5	LENGTH	Numeric	6		Miles

**Alachua County Maintained Box Culverts**

Structure for table: u:\roads\dbf\box\_culv.dbf                      Number of data records:      79

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	MILE_POST	Numeric	6	3	Point on Road of Box Culvert
3	WIDTH	Numeric	4	1	Feet
4	HEIGHT	Numeric	4	1	Feet
5	NUMBER	Numeric	3		Count

<sup>2</sup> 1 = Unimproved, 2 = Graded, 3 = Graded with improved drainage, 4 = Low Type Bituminous, 5 = High Type Bituminous

6 LENGTH Numeric 4 Feet

**Alachua County Maintained Bridges**

Structure for table: u:\roads\dbf\bridges.dbf Number of data records: 35

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	MILE_POST	Numeric	6	3	Point on Road of Bridge
3	BRIDGE_NO	Numeric	6		State I.D.
4	SPBC	Character	6		Span or Box Culvert

**Alachua County Maintained Roads inside Municipalities**

Structure for table: u:\roads\dbf\city.dbf Number of data records: 43

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	ROAD_NO	Character	30		Road Name
3	CITY	Character	15		Municipality Name
4	MILE_POST1	Numeric	6	3	Point where road enters city
5	MILE_POST2	Numeric	6	3	Pont where road leaves city
6	LENGTH	Numeric	6	3	Miles inside city limits

**Alachua County Maintained Cross Drains**

Structure for table: u:\roads\dbf\drains.dbf Number of data records: 1652

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	MILE_POST	Numeric	6	3	Point where Cross drain meets Road
3	TYPE	Character	2		1 = Concrete 2 = Metal
4	WIDTH	Numeric	3		Inches
5	HEIGHT	Numeric	3		Inches
6	NUMBER	Character	2		Count
7	LENGTH	Numeric	4		Feet

**Alachua County Maintained Lane Miles**

Structure for table: u:\roads\dbf\lanes.dbf Number of data records: 717

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	MILE_POST1	Numeric	6	3	Beginning point
3	MILE_POST2	Numeric	6	3	Ending point
4	LENGTH	Numeric	6	3	Miles

5	TYPE	Character	3		Number of lanes & median style <sup>3</sup>
6	LANES	Numeric	3		Number
7	LANE_MILES	Numeric	10	3	length x number of lanes

**Alachua County Maintained Outfall Ditches**

Structure for table: u:\roads\dbf\outfalls.dbf      Number of data records: 960

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	MILE_POS	Numeric	6	3	Beginning point of outfall ditch
3	LEFT_RIGHT	Character	3		Side of road
4	LENGTH	Numeric	5		Feet
5	WIDTH	Numeric	5		Feet
6	ACRES	Numeric	5	1	Acres
7	MECHHAND	Character	4		Type of maintenance

**Railroad Crossings on Alachua County Maintained Roads**

Structure for table: u:\roads\dbf\rr.dbf      Number of data records: 32

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	MILE_POST	Numeric	6	3	Point of railroad crossing
3	CROSS_NO	Character	6		Unique I..D.
4	TYPE	Character	2		

**Alachua County Maintained Storm Sewers**

Structure for table: u:\roads\dbf\sewers.dbf      Number of data records: 209

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I..D.
2	SEWER_15	Numeric	5		Feet of 15" pipe
3	SEWER_18	Numeric	5		Feet of 18" pipe
4	SEWER_24	Numeric	5		Feet of 24" pipe
5	SEWER_30	Numeric	5		Feet of 30" pipe
6	SEWER_36	Numeric	5		Feet of 36" pipe
7	SEWER_42	Numeric	5		Feet of 42" pipe
8	SEWER_48	Numeric	5		Feet of 48" pipe
9	SEWER_54	Numeric	5		Feet of 54" pipe
11	SEWER_66	Numeric	5		Feet of 66" pipe
12	SEWER_72	Numeric	5		Feet of 72" pipe

<sup>3</sup> 1 = 2 lane, 2 = 2 lane grassed median, 3 = 2 lane paved median, 4 = 4 lane, 5 = 4 lane grassed median, 6 = 4 lane paved median, 7 = 3 lane

13 SEWER\_78                      Numeric              5                      Feet of 78" pipe

**Alachua County Maintained Sidewalks**

Structure for table: u:\roads\dbf\sidewalk.dbf              Number of data records: 111

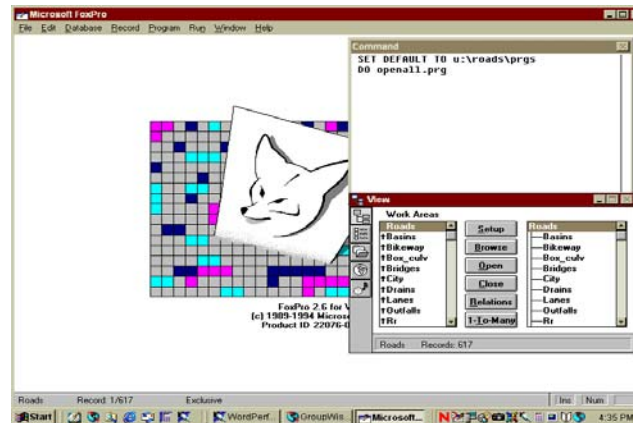
Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I.D.
2	MILE_POST1	Numeric	6	3	Beginning point
3	MILE_POST2	Numeric	6	3	Ending point
4	LEFT_RIGHT	Character	3		Side of road
5	LENGTH	Numeric	5	3	Miles

**Pavement width of Alachua County Maintained Roads**

Structure for table: u:\roads\dbf\surface.dbf              Number of data records: 867

Field	Field Name	Type	Width	Dec	Description
1	SEGMENT	Numeric	5		Unique I.D.
2	MILE_POST	Numeric	6	3	Beginning point
3	MILE_POST2	Numeric	6	3	Ending Point
4	WIDTH	Numeric	6	3	Feet
5	LENGTH	Numeric	6	3	Miles
6	DEFICIENT	Logical	1		True/false

To edit the databases, an indexed relationship needs to be set in FoxPro. First, open FoxPro and cancel the catalogue manager. Second, go to the drop-down window **Program**, then **Do** u:\roads\prgs\openall. Go to the **view window**. The proper relationship should look like this:



To edit a specific record (Road or Subdivision) go to drop-down window **Record** choose **locate** , an expression window will appear. Set segment = to the number or the unique I.D. For the record to edit or you can type in the **command window** "LOCATE ALL FOR Roads.segment =752". Note: 752 is the segment number that is assigned to the Subdivision Haile Plantation. Next **Browse** the Roads.dbf, it should move to the number specified in the search. If you **Browse** the other databases in the

**view window**, only the segment number previously located will appear in the window. Key in any changes, they will be saved automatically by FoxPro.

To add a new road or subdivision, browse the roads.dbf then go to the **Record** window and choose **append** . Repeat for all the other databases that need to be entered. Record new pavement miles and change of pavement status, such as from graded to paved, in a word perfect document u:\milage\fy01.wpd for example Fiscal Year 2000/2001. This will be the basis for the yearly “Changes in Roadway Milage” report.

Summary information has been prepared with the FoxPro **Query** and **Report** functions. The **Queries** are save in u:\roads\queries. Likewise, the **Reports** are save in u:\roads\reports. To run the overall Summary page, first **Do** the Program u:\roads\prgs\summary. To print type in the **Command Window**: REPORT FORMAT u:\roads\reports\summary.frx ENVIRONMENT TO PRINTER NOCONSOLE. Print only the first page.

The intent for the future is to display much of the infrastructure inventory in a GIS road map. Much of this can be accomplished by adding the segment numbers to the line attributes. However, features such as signs, traffic signals, culverts, outfall drains, inlets, basins and etc. need to have accurate coordinate information added to the inventory before they can be displayed in the proper relationship to the roads.