



# Survey Reports

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# Current and Future Problems

- No data integrity
- Becomes more important with GIS and CIM
- Data will no longer be silo'ed

# Solution

- Require a report accompany every survey submitted to the Department.

# Purpose

- To adequately communicate the survey methods and results as judged by the surveyor and mapper.

# Statute Definition – 5J-17.050(11)

- A written document, sometimes referred to as “a report” or “the report”, detailing methods used, measurements and computations made, accuracies obtained, and information obtained or developed by surveying and mapping techniques.

# Report Items - 5J-17.051.14.a.

- Report items are information, as required by other parts of this rule, such as: abbreviations, legends, accuracy statements, feature lists, datums used, and things done or not done as part of the survey and mapping process. In addition, the map or report shall contain other items necessary for an adequate communication of survey methods and results as judged by the surveyor and mapper such as: data sources, measurement methods, history and lineage of data, and limitations pertaining to the information presented.

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# Things Done or Not Done

- Special conditions that no one but the surveyor could know.
- Circumstances that impacted the decisions made.

# 5J-17.052(2)(c)1. – Boundary Inconsistencies

- Potential boundary inconsistencies that the survey did not attempt to detect shall be indicated and explained in the map or report.

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# History and Lineage of Data

- How did the data arrive at its current state?
- Who was responsible for collecting the data?
- When was it collected?

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# Limitations Pertaining to the Data

- Accuracy or precision of the data
- Example
  - Data good for horizontal but not vertical
  - Data good for vertical but not horizontal

# Report Items - 5J-17.051.14.b.

- Text Report items shall be displayed either through notes on the map, report, or in a text report delivered with the map. When the report is produced as a text document and a map is attached, the report shall be signed and sealed. **When the map is delivered in digital form only, then a report is required.** An attached map must clearly reference the report by title, date and subject; and the report must likewise clearly refer to the map by title, date, and subject. Statements must be made on the map and in the report that neither is full and complete without the other.

# What is considered a map?

- 5J-17.050(4) Map of Survey (or Survey Map):

A graphical or **digital depiction** of the facts of size, shape, identity, geodetic location, or legal location determined by a survey. The term “Map of Survey” (Survey Map) includes the terms: Sketch of Survey, Plat of Survey, or other similar titles. “Map of Survey” or “Survey Map” may also be referred to as “a map” or “the Map”.

# FDOT Report Requirements

- Each surveying entity submitting electronic data to the Department **must** prepare a survey report.
- When a survey project involves multiple surveyors, a lead surveyor will be identified.
- The lead surveyor will prepare a comprehensive survey report.

# FDOT Survey Report Content

- **Project Information**

- Firm
- Financial Project number
- Project name
- State Road number
- Project limits, e.g. *This project is along SR 10 (US 90) between Magnolia Drive and Capital Circle NE in Leon County, FL.*
- Survey date (give the start and end dates)
- Units of measure

# FDOT Survey Report Content

- **Type of Survey**

- State the type of survey in accordance with Rule Chapter 5J-17.050, Florida Administrative Code. If the survey is a specific purpose survey, state the purpose.

- **Methodology**

- This section should explain the method(s) used in the survey process. If this is a topographic survey, give a description of the procedure(s) used to collect topographic information; if it is a control survey, state the procedure used in setting or locating monumentation.
- Also, this is the place to explain the procedures used in the development of the Digital Terrain Model (DTM).

# FDOT Survey Report Content

- **Project Control**
  - Horizontal Datum
  - Horizontal Control Points
  - Vertical Datum
  - Vertical Control Points
- **Sources**
  - Identify any sources used in the preparation of the survey.

# FDOT Survey Report Content

- **General Notes**

- This section should include any survey notes that typically appear on the face of a survey map.

- **Legend and Abbreviations**

- This section should include all abbreviations, symbols and linetypes used in the digital file(s).

# FDOT Survey Report Content

- **Compilation of Surveys**

- When a survey project involves multiple surveyors or firms, a lead surveyor will be identified.
- A comprehensive survey report will be prepared by the lead surveyor and should detail the total survey, describing the roles and responsibilities of each surveying entity.
- All survey reports prepared by the other surveyors involved in the project should be included as attachments.

- **Files List**

- List **all** files that are part of the deliverable

# FDOT Survey Report Content

- **Certification and Signature**

- *I hereby certify that this survey and all files herein are a true and accurate representation of a field survey made under my responsible charge, and that to the best of my knowledge meets the **Standards of Practice** as set forth by the Board of Professional Surveyors and Mappers in Rule Chapter 5J-17 of the Florida Administrative Code.*