

This is an example to be used for information purposes only

## DESIGN SURVEY REPORT

(Project Name Information)

### PROJECT REPORT #1

(Insure Project Report meets the requirements of F.A.C. 5J-17.050, .051 and .052)

(Firm Name), Inc. Project No.: (Number)

Project limits: (Description and Station Begin/End)

Purpose of survey: (i.e. Design Survey)

Project units: (US Survey Foot or Metric)

Horizontal datum: NAD 1983/ (Adjustment)

Vertical datum: (NGVD 1929 or NAVD 88)

Processors used: Only FDOT Approved

(Firm Name) database: (Segments)

1) DTM database name:

A: GDTMRD##

2) Settings:

a) Max. triangle distance = (feet)

b) Max. triangle slope = 0.1 to 1.0

c) Max. breakline length = (feet)

d) Max. triangle angle = (angle)

3) DTM survey data:

a) All points and chains in zones 1 with ground attribute.

4) Survey control data and calculation data:

a) (Zone)

5) Alignments name:

(Main line and side road alignments and whether approved or unapproved)

CALC BL

1) Text files, reports of calculated baselines.

GPS files

Various, a GPS report to follow

The list below is the typical SS10/ORD deliverable file names.

Design survey files include the following. ## can be any 2-digit number. Usually go with 01 unless there are multiple firms merging files together.:

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- SURVRD###DGN – Contains everything Design Survey related. Topo, utilities, drainage, and if part of the project, the alignment and R/W lines.
  - For older projects in SS10 that are pre-Open Roads projects we would also deliver these files, but these projects are becoming few and far between.
  - TOPORD## - 2D Topography
  - DREXRD## - 2D Drainage
  - UTEXRD## - 2D Existing Utilities
  - GDTMRD## - 3D triangle file of the DTM surface
- UTVHRD## - Summary of VVH utilities tables
- CTLSRD## - Project Network Control Sheet(s)

Mapping base files include the following. Typically, these are not submitted since the mapping sheet files are stand-alone files.

- ALGNRD## - Alignment
- CS##### - CS with the FPID number – Control Survey base file
- RW##### - RW with the FPID number – RW Mapping base file
- TOPORW – Existing topo for mapping purposes

Mapping sheet files include the following:

- CSCOV### / CSKEYM## / CSDETL## - Control Survey Cover, Key, and Detail sheets
- RWCOVR## / RWKEYM## / RWDETL## / RWPNTAB## / RWREF## / RWTAB##- Right of Way Map Cover, Key, Detail, PNC Tabulation, References, and Property Owner Tabulation sheets.
- RWSPS## - Specific Purpose Survey sheets
- MMCOVR## / MMKEYM## / MMDETL## / MMREF## - Maintenance Map Cover, Key, Detail, and References sheets.

1) Survey data:

- a) Location of south bound west lane line to be used as check section.
  - b) Location of top center of barrier wall for baseline calculations.
  - c) Location of existing monumentation along turnpike right of way lines.
- 2) Edits to the observation file have been redlined on a printout (see attached)
  - 3) Add/change points' feature code, attribute and zone accordingly.
  - 4) There were some bad locations and bad names in this segment.
  - 5) Move data to proper place.

Segment "B" report

- 1) Survey data: Location of existing monumentation along Jog Road right of way lines.
- 2) Edits to the observation file have been redlined on a printout (see attached)
- 3) Add/change points' feature code, attribute and zone accordingly.
- 4) Move data to proper place.

Segment "C" report

- 1) Survey data: DTM survey
- 2) Edits to the observation file have been redlined on a printout (see attached)
- 3) Change to position 1 all those points with 2.
- 4) Add/change points' feature code, attribute and zone accordingly.

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- 5) Move data to proper place.
- 6) Control point named A27 was changed to A17.
- 7) Mark as deleted data for A15 due to bad vertical angle (time 15:52:14 12/12/02)
- 8) The following points are bad shots: SLLF11,15,16

\*\*\* Notes\*\*\* (Samples below)

1) Primary control point coordinates (A1-21, A24-30) were obtained by GPS survey. See files in GPS subdirectory, a GPS report to follow. **All control points were elevated by Digital Level or three wire bench run.**

2) For baselines of survey information see files in CALC BL subdirectory.

3) The point naming convention used follows the FDOT guidelines but includes a crew designator and a feature designator, i.e., "SLLA1" is the first lane line located on lane line "A" by crew "S".

5) All points that were manually input, moved, edited elevation or taped for use in the DTM are tagged with the field book and page in the comments field to support the X,Y,Z for the point.

6) Any point that was moved to prevent crossing chains is noted in the comments field.

7) No check x-sections were obtained, instead a check profile along the south bound's west edge of pavement was gathered. As was approved during scope and negotiation with Turnpike Enterprise Surveyor. (Segment A)

8) Utility and Drainage surveys will be performed after finishing with the Topography.

9) A DTM was run and delivered to Engineering Prime Consultant as requested.

10) Description of zones utilized

- 1 - Topo -DTM
- 2 - Inverts and drainage pipes
- 8 - Control points and calculated points.

Dated:

Signature \_\_\_\_\_

Name, P.S.M.

Florida Registration No

Firm Information