

## CITY OF DALLAS REQUIREMENTS FOR LAND SURVEYING.

Consultants wishing to provide Professional Land Surveying Services for City of Dallas projects will be governed by the following Scope of Services:

- All firms selected to provide Surveying services shall have as a full time employee a Registered Professional Land Surveyor holding a current license in the State of Texas.
- All Surveying services provided will be under the review and direction of the City of Dallas Public Works and Transportation Department, Survey Division and the Chief City Surveyor.
- Any contract requirement for determination of Boundary, Right-of-Way, Property, Lot, Tract or any other reference of ownership boundary determination is controlled by the Professional Land Surveying Practices Act of the State of Texas (“**The Act**”). All the requirements of the act with respect to records, historical and other research, field surveys and monumentation will be considered a professional responsibility of the survey provider.
- Records research in support of Right-of-Way or other boundary determination shall include all public records archives (County, State, private or other) as well as the records contained in the **City of Dallas Public Works & Transportation Survey Records Vault**.
- Boundary descriptions (“field notes”) prepared for City of Dallas projects shall follow the Field Note Guidelines published by Public Works & Transportation Survey Division (as revised June, 1996 and available from the office of the Chief City Surveyor).
- All submittals of Survey Drawings, Field Notes or other final deliverables for Boundary Surveys shall have the Seal and Signature of the surveyor of record affixed to the submittal. The City of Dallas will not review any documents submitted which are not final documents intended for filing.

Topographic Surveys in support of Engineering, Architectural or other design projects shall be performed in accordance with the City of Dallas Public Works & Transportation Department “**Paving Design Manual**,” 1998 edition and the “**Manual of Practice for Land Surveying in the State of Texas**,” 1999 edition.

- All topographic surveys shall be properly monumented as set forth in the Paving Design Manual, with approved monument types set at the intervals and in the manner specified.
- Where a Survey Baseline is specified in the contract, the surveyor shall establish and monument the Survey Baseline in accordance with the requirements of the Paving Design Manual.
- Vertical Control for all projects shall be established using **Best Practice** techniques with automatic level and level rod and the **City of Dallas Water Department Bench Mark network**. Documentation

of a closed bench mark field loop, to include at least two (2) City of Dallas Standard Water Department Bench Marks used to establish the project vertical control monuments shall be submitted for review by the City of Dallas Public Works & Transportation Survey Division, office of the Chief City Surveyor\*.

-Complete descriptions of the location and type of bench marks set for project purposes shall be submitted with the bench mark loop documentation, and included on the construction plans.

*\*Datum for the **City of Dallas Water Department Vertical Control Network** is the North American Vertical Datum of 1929. While USC&GS Bench Marks may be used on City of Dallas projects, reference and ties to the Water Department Vertical Control Network is necessary to assure compatibility with the record drawings filed in the Survey Vault.*

#### Global Positioning System Survey Procedures:

When Instruments employing Global Positioning System (**GPS**) Survey Technology are used on City of Dallas projects, the following procedures will be required:

-A notation to the fact that GPS Survey Procedures were used in the performance of the surveys shall be placed in all field notes and final drawings.

-When a State Plane projection is employed, the NOAA monument used for control shall be listed in all field notes and final drawings. Submittals of data and drawings produced in State Plane Coordinate Datum shall state whether the coordinate datum is Grid values or has been adjusted to a local projection.

-Control monuments established or used in a GPS survey shall have the World Geodetic System (WGS) Latitude and Longitude values derived from the raw observation data listed along with the monument type, location and other coordinate data.

-GPS Survey Instrument Technology will not be approved for use in surveys for any design or construction purposes where vertical accuracy greater than .07 feet is required.

-GPS Survey Instrument Technology and procedures will not be approved for use in establishing vertical control for project bench marks.

The preceding is intended as a general overview of the City of Dallas requirements for consultants providing survey services. Consultant surveyors shall meet with City of Dallas Survey Staff before submitting any proposal to determine whether there are project specific requirements which will involve either additional, or more stringent survey procedures than those listed here.

Questions about Surveying Services and Surveying Specifications for the City of Dallas may be addressed to the office of the Chief City Surveyor, 320 E. Jefferson, Room 318, Dallas 75203, or by telephone at (214) 948-4150.