

Section 01725

FIELD SURVEYING

PART 1 GENERAL

1.01 QUALITY CONTROL

1. Conform to State of Texas laws for surveys requiring licensed surveyors. Employ land surveyor acceptable to City Engineer, if required.

1.02 UNIT PRICES

- A. No Separate payment will be made for field surveying. Include cost in unit price for Work requiring field surveying.

1.03 SUBMITTALS

- A. Conform to requirements of Section 01330 - Submittal Procedures.
- B. Submit to City Engineer name, address, and telephone number of Surveyor before starting survey work.
- C. Submit documentation verifying accuracy of survey work on request.
- D. Submit certificate signed by surveyor, that elevations and locations of Work are in conformance with Contract.

1.04 PROJECT RECORD DOCUMENTS

1. Maintain complete and accurate log of control and survey Work as it progresses.
2. Prepare certified survey setting forth dimensions, locations, angles, and elevations of construction and site Work upon completion of foundation walls and major site improvements.
3. Submit Record Documents under provisions of Section 01785 - Project Record Documents.

1.05 EXAMINATION

- A. Verify locations of survey control points prior to starting Work.
 1. Notify City Engineer immediately of any discrepancies discovered.

1.06 SURVEY REFERENCE POINTS

1. Control datum for survey established by City provided survey as required in Document 00700 - General Conditions and indicated on Drawings. Inform City Engineer in advance of time at which horizontal and vertical control points will be established so verification deemed necessary by City Engineer may be done with minimum inconvenience to City Engineer and minimum delay to Contractor.
2. Locate and protect survey control points prior to starting site work; preserve permanent reference points during construction.
3. Notify City Engineer 48 hours in advance of need for relocation of reference points due to changes in grades or other reasons.
4. Report promptly to City Engineer loss or destruction of reference point.
5. Reimburse City for cost of reestablishment of permanent reference points disturbed by operations.

1.07 SURVEY REQUIREMENTS

1. Utilize recognized engineering survey practices.
2. Establish minimum of two permanent benchmarks on site, referenced to established control points. Record locations, with horizontal and vertical data, on Project Record Documents.
3. Establish elevations, lines and levels to provide quantities required for measurement and payment and to provide appropriate controls for Work. Locate and lay out by instrumentation and similar appropriate means:
 1. Site improvements including pavements; stakes for grading; fill and topsoil placement; utility locations, slopes, and invert elevations
 2. Grid or axis for structures
 3. Building foundation, column locations, ground floor elevations
 4. Periodically verify layouts by same means.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION