The background of the page is a repeating pattern of historical maps and globes. The maps are rendered in a light, faded grey color, showing various geographical features, latitude and longitude lines, and some text. The globes are also rendered in a light grey color, showing the Earth's continents and oceans. The overall effect is a textured, historical cartographic background.

**Survey Monumentation
Standards Policy**
Geographic Information
Services of Forsyth County

The Forsyth County Survey Monument Requirements

Sec. 1. There exists a substantial problem of loss and deterioration of land survey monuments in the Forsyth County.

Sec. 2. It is the purpose of this policy to establish a program of monumentation and preservation and restoration of existing monuments in order to protect and preserve these important land survey monuments.

Sec. 3. Definitions. The following words and phrases shall have the meaning ascribed to them in Section 3.01 through 3.067.

Sec. 3.01. "Monument Record" means a written and illustrated document describing the physical appearance of a survey monument and its accessories and input into the database.

Sec. 3.02. "Survey Monument" means any Survey monument or position thereof established on the ground by a cadastral survey and made part of Forsyth County public records.

Sec. 3.04. "Accessory" means any physical evidence in the vicinity of a survey monument or position thereof, the relative position of which is of public record and which is used to perpetuate the location of the monument. Accessories shall be construed to include the accessories recorded in the original survey notes, and additional reference points and dimensions furnished by subsequent land surveyors or attested to in writing by persons having personal knowledge of the original location of the monument.

Sec. 3.05. "Aliquot corner" means any corner in the survey system created by subdividing a section of land according to the rules of procedure set forth in the "RULES OF STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS & LAND SURVEYORS " and Forsyth County zoning regulations.

Sec. 3.06. "Control Corner" means any survey monument whose position controls the location of the boundaries of a tract or parcel of land. The control corner may or may not be included within the perimeter of said tract or parcel.

Sec. 4. The Department of Geographic Information Services shall provide an entry point for the recordation of a monument record by Georgia Registered Land Surveyor, as defined by Georgia Board of Professional Engineers and Land Surveyors Board Rules, and accessories to such monuments, which are found, set, reset or used as control in any survey by such land surveyor. The monument records shall be entered into the county database in the Geographic Information.

Sec. 5. The charge for recording the monument record shall be free with the Geographic Information Services Department.

Sec. 6. It shall be the duty of any land surveyor who conducts a survey which uses as a Geodetic control or any survey monument within the county boundaries, to record with the Geographic Information Services Department in the county in which the survey was conducted, a written monument record describing such monument, or position thereof, and its accessories. Such a surveyor shall also record a monument record whenever he establishes, re-establishes, restores or rehabilitates any survey monument.

Sec. 7. No monument record shall be recorded unless the same is signed by a Georgia Registered Land Surveyor and impressed with his seal. In case of an agency of the United States government, the Chief of the survey party making the survey, setting forth his official title may sign the record.

Sec. 8. It shall be the duty of the land surveyor to reconstruct or rehabilitate the corner monument or land lot corner and accessories to such corner and, if practicable, affix securely to the top of such monument established after the effective date of this Act the Georgia registration number of the land surveyor responsible for the establishment of such monument or position. Thereof and the same shall be

left by him in such physical condition that it remains as permanent a monument as is reasonably possible and so that same may be reasonably expected to be located with facility at all times in the future.

Sec. 9. A recovery note should be forwarded to the Geographic Information Services Department. No monument record need be entered when a monument record exists and the monument is found as described in the existing record.

Reference:

180-7-.05 Monuments of the RULES OF STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS & LAND SURVEYORS GEORGIA PLAT ACT O.C.G.A 15-6-67, **Georgia Board of Professional Engineers and Land Surveyors Georgia Plat Act**

NGS Operations Handbook and Manual Of Geodetic Triangulation S.P. 247

Monument Requirements

- (1) For all subdivisions or "initial subdivision phases" two monuments are required. These first two monuments shall be Forsyth County monuments from the GIS Department. If the subdivision (or "Initial subdivision phase") is large enough to require additional monuments, those may be from Forsyth County or from 3(a). These additional monuments are required by the state for each ten acres above the first ten acres. For example, if the subdivision or "initial subdivision phase" is thirty four (34) acres, two Forsyth monuments would be required, and two additional monuments (either Forsyth or from 3(a)) should also be placed. Monuments shall be intervisible at the time of installation, with consideration being given to the structures to be erected, which will permit of continued intervisibility in the original layout of the subdivision. All control monuments shall be located and tied together by traverse, with a positional tolerance of not less than 1:10,000. Control monuments may be coincident with land lot, block or lot corners. They will be shown on the subdivision plat, with bearings and distances between monuments and sufficient ties to permit relocation of any lot or block corners within the subdivision. Authority O.C.G.A. 43-15-1.
 - a. Monuments may be set by the Engineering firm or Surveyor involved with the development.
 - b. The first two monuments from the initial subdivision phase will be county monuments supplied by the Geographic Information Services Department but purchased by the contractor. All other Monumentation for the initial phase maybe of items listed in 3(a). Monumentation will be tied into the county network if a survey control station is within 1 mile.
 - d. Geodetic control monuments shall be located within suitable easements or right-a-way
- (2) For every subdivision phase after "phase one" or "initial subdivision phase" one additional monument is required for each additional ten acres or major fraction thereof. Monuments shall be intervisible at the time of installation, with consideration being given to the structures to be erected, which will permit of continued intervisibility in the original layout of the subdivision. All control monuments shall be located and tied together by traverse, with a positional tolerance of not less than 1:10,000. Control monuments may be coincident with land lot, block or lot corners. They will be shown on the subdivision plat, with bearings and distances between monuments and sufficient ties to permit relocation of any lot or block corners within the subdivision. Authority O.C.G.A. 43-15-1.
 - a. Monuments may be set by the Engineering firm or Surveyor involved with the development.
 - b. The required number of monuments from the additional subdivision phase will be county monuments supplied by the Geographic Information Services Department but purchased by the contractor. All other Monumentation maybe of items listed in 3(a).

Monumentation will be tied into the county network if a survey control station is within 1 mile.

- d. Geodetic control monuments shall be located within suitable easements or right-a-way
- (3) Monumentation shall be placed by the applicant on all subdivision boundary lots and block corners, angle points, points of curves in streets and at intermediate points as required by the Geographic Information Services Department and in accordance to State of Georgia regulations, and shall meet the following specifications.
- a. Subdivision boundary monuments shall be iron pins not less than 36 inches long and one-half ($\frac{1}{2}$) inch in diameter, or concrete posts. All monuments shall be set flush with the ground.
 - b. Lot monuments shall be iron pins not less than 12 inches long and one-half ($\frac{1}{2}$) inch in diameter set flush with the ground.
 - c. Where existing monuments have been located and are accurately represented, they may be permitted to remain in position.
 - d. The primary monuments name will be stamped with monument ID provided by Geographic Information Services Department prior to setting in concrete the secondary monument will be the Az Mark. **THE STAMPING WILL TAKE PLACE BEFORE IT IS SET, 1832 is NOT the name of the monument**
- (4) The surveyor shall establish, reestablish or confirm the prior establishment of permanent monuments at each corner on the boundary lines of the parcel being surveyed. Monuments shall be solid and substantially free from movement. In such cases where the placement of a permanent monument at the true corner is impractical because of instability or is likely to be destroyed, the surveyor shall set a corner accessory monument and show its relationship by dimension to the true corner.
- (5) The monuments set shall be constructed of material capable of being detected by commonly used magnetic locators. These monuments shall consist of an iron pipe or steel rod with a minimal diameter of three-eighths inch and minimal length of thirty-six inches.
- (6) A Valve Box, as would be used in an irrigation system, will be set around the monument at the time that the monument is set. This has proven to be effective in protecting the monument. Minimum size will be 6 inches in diameter.
- (7) A witness post will be erected in the area to provide notice of a survey monument in the area
- (8) The monuments will be surveyed to specifications as set forth in the following;

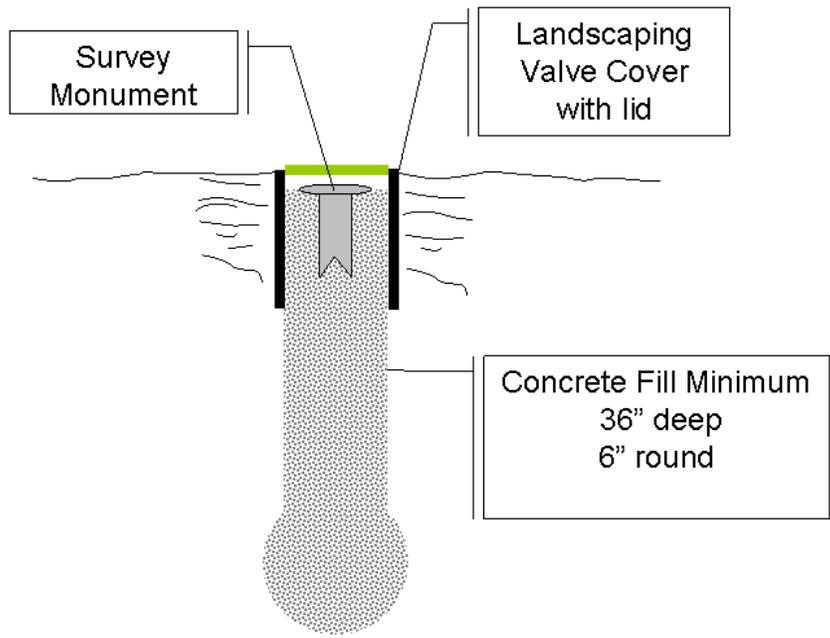
The Federal Geographic Data Committee has promulgated national accuracy standards similar to those listed below:

Horizontal Control Accuracy

- 2 centimeter - Standard to be used for county geodetic network densification to support large scale mapping and County Cadastral GIS
- 5 centimeter - Standard to be used for supplemental GIS layers such as public utility inventories
- 10 centimeters - Standard for local ties to the GA State Plane Coordinate System

Vertical Control Accuracy

- 2 centimeter - Standard to be used for county geodetic network densification to support large scale mapping, County Cadastral GIS, and supplemental control for flood zone and wetland delineation
 - 5 centimeters - Standard to be used for supplemental GIS layers such as public utility inventories and for local ties to the GA State Plane Coordinate System
- (9) Upon completion of subdivision streets, sewers and other improvements, the subdivide shall make certain that all monuments required, are clearly visible for inspection and use and shall provide a certificate signed by an engineer or surveyor that the monuments have been properly installed.
- (10) If development or construction activities would place a Federal, State, or county monument or corner in jeopardy the County must be notified with enough advance notice that he may take the necessary steps to preserve the location of the monument. To be done in a manner that will satisfy as best possible the preservation requirements with the least interference with the beneficial use and enjoyment of the landowner.
- (11) The primary monuments will be tied to the Forsyth county network; all baseline data that was used for computation will be kept. This information is required to make adjustments to the stations.
- (12) Geographic Information Services Department will provide monument data to Engineering, and to be sent to the Georgia DOT for inclusion into the data structure.
- (13) Monument cards for each Forsyth County monument (or required monuments from each phase) must be turned in on or before plat sign-off. (See attached form) Ideally, forms should be filled out when the monument is set. Rubbings of monuments are accepted, but photographs are preferred.



Survey Monument diagram