BROOMFIELD GEODETIC SURVEY REQUIREMENTS
ALL FINAL PLATS AND MINOR SUBDIVISIONS

☞ **Surveyor please initial each item as completed**

___ 1. Show all distances in **Modified State Plane measurements** (in U.S. survey feet to the hundredth of a foot). Survey plat shall be prepared using State Plane grid distances modified to a mean project elevation above sea level and a mean scale factor for the project. **Only one combined factor shall be used for the entire survey**. All of the line distances shown on the plat shall be dimensioned using the above mentioned mean factor (said Modified State Plane distances).

___ 2. The **Basis of Bearing statement** shall specify which **2 City of Broomfield GPS Control Points** were selected to establish the **State Plane grid bearings** used for this survey plat. Specify the **State Plane grid bearing and said Modified State Plane distances** between these **2 GPS Control Points.**

___ 3. This document shall also contain a **statement showing the modification factor (to 8 decimal places)** needed to reduce the **said Modified State Plane grid coordinates** to **State Plane values**.

___ 4. **Closure report** of platted area showing **error of closure**, (prior to any adjustment) not greater than 1 part in 10,000 parts per Broomfield Municipal Code 16-20-040 (d).

___ 5. **Show tie** as dashed lines with **bearings** and **said modified state plane distances** to the following:

- **2 corner points of this plat** to the **2 nearest GPS Control Points** located outside the project area (provided by the City of Broomfield Global Positioning Systems network monumentation information) and
- **1 corner point** of this plat to the **Public Land Survey System (PLSS)** monument used in this survey.

___ 6. Label **Latitude/Longitude** (to the ten thousandths of a second)**, said Modified State Plane grid coordinates** (in U.S. survey feet to the hundredth of a foot)**,** and **State Plane grid coordinates** (in U.S. survey feet to the hundredth of a foot) Colorado Northern Zone (0501) State Plane (NAD 83/92) at:

- the above mentioned **2 corner points** of the plat,
- the above mentioned **2 GPS Control Points** used, and
- the above mentioned **PLSS monument** used.

___ 7. Provide a **digital file** of the project in **dwg** format, **positioned correctly** in **said Modified State Plane grid coordinates as listed on this plat,** with **all bearings relative to the State Plane grid Basis of Bearing.**

___ 8. This document shall also include a **statement describing the standard of accuracy**, as defined by the National Ocean Survey/National Geodetic Survey, maintained in developing the coordinates shown therein, per C.R.S. 38-52-106.

> **The Colorado Coordinate System hereon shown is defined as _____ order, Class _____, 1:____,000 as described in the "Geometric Geodetic Accuracy Standards and Specifications for using GPS relative positioning techniques and/or Standards and Specifications for Geodetic Control Networks" by the Federal Geodetic Control Committee.**

All items above have been completed as required.

_____   _____

Surveyor Name (print)   **Surveyor Signature**

Please contact the GIS Department at (303) 464-5834 for GPS monument locations and records closest to your project and any questions.