ALL MONUMENTATION MATERIALS WILL BE FURNISHED BY CDOT.

The monument type shall meet the minimum standards as determined by the Colorado State Board of Registration for Professional Land Surveyors Rules (State Board Rules).

The CDOT survey coordinator shall approve all exceptions for stamping monuments differing from the standards.

**Type 1 and Type 1A Aluminum Finned Rod Monuments**

This monument shall be used for row or reference monuments or may be used for an aliquot corner monument. When used as an aliquot corner monument, installation and record filing requirements shall be as stated for all other monuments. Monuments shall be installed by attaching the proper size tip to one end of a section of finned rod and a 3 ft. long, #5 stainless steel adapter to the other end. The rod is then placed over the stainless steel adapter. The tip is then driven into the ground. When the rod is driven into the ground, the tip is driven into the ground until the rod is in a stable position. The fins are bent over using pliers to accommodate installing the cap. The cap is firmly seated on the last finned section of rod using a dead blow sledge hammer.

**Type 2 and Type 2A Aluminum Finned Rod Monuments**

This monument shall be used for horizontal and vertical control monuments. When unstable soil conditions are encountered, additional sections of rod shall be added and driven flush with the ground until the monument is in a stable position. The fins are bent over using pliers to accommodate installing the cap. The cap is firmly seated on the last finned section of rod using a dead blow sledge hammer.

**Type 3 and Type 3A Aluminum Pipe Monuments**

This monument shall be used for an aliquot corner monument. The installation of this monument and record filing shall be done in accordance with the State Board Rules and the Rules of Land Management Requirements for Monument Installation. The land surveyor's license number and the year shall be stamped on the cap.

**Type 4 Aluminum Monument**

This monument may be installed by lieu of replacing the entire monument when several points are located at once and the position is located in a concrete or stable rock formation.

**Type 5 Brass/Aluminum Cap Monument**

This monument may be installed by lieu of all other CDOT monuments, when the position is located in concrete or stable rock formation.

**Type 5(S) Copper Alloy Cap Monument—Small**

This monument may be installed by lieu of a Type 5(S) when the position is located in a concrete sidewalk, curb or gutter, or when setting a Type 4 would compromise the integrity of the recording structure.  

**Type 6 Aluminum Monument**

This monument shall be used for permanent easements, project bench marks, project points, and references. An aluminum cap with a minimum diameter of 3 in. shall be used on 5 in. or 6 in. rebar.

**Witness Posts**

The witness post shall be supplied by CDOT and shall be installed in the work scope. It shall be driven within 1 ft. of the monument whenever possible. A witness post with a 4 in. metal sleeve shall be driven in lieu of the plastic post. This post shall contain a witness post label provided by the Project Development Branch with the approval of the engineer. If the witness post location is within a traveled way, a barrier is provided for access opening.

**Surveys**

See the CDOT survey manual and the year shall be stamped on the cap.