

SECTION 12

SUBDIVISION SURVEY MONUMENTS

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**SECTION 12**  
**SUBDIVISION SURVEY MONUMENTS**

**12-1 SURVEY MONUMENT REQUIREMENTS:**

A. The Consulting Engineer shall place survey monuments at the following locations within subdivision improvements:

- At the intersections of all street centerlines.
- At the beginning and end of all curves on the street centerlines.
- At all subdivision boundary corners designated by the Director and such other locations so as to enable any lot or portion of the improvement to be retraced or located.

The monuments shall be as follows;

1. Subdivision boundary monuments, except those in street pavement, shall not be less than 1-1/4 inch galvanized iron pipe, 30 inches in length, capped and tagged.
2. Subdivision boundary monuments in street pavement shall be not less than 3/4 inch galvanized iron pipe, 18 inches in length. Top of pipe shall be driven flush with surface pavement.
3. Centerline and street intersection monuments shall be 3/4 inch galvanized iron pipe or No. 5 reinforcing bar, not less than 12 inches in length. Top of the pipe or bar shall be driven flush with pavement surface.

All monuments shall be referenced to permanent objects located nearby and all ties shall be furnished the Director for general public use. Final approval of the subdivision will not be made until such ties have been furnished to the Director.

B. Survey monuments shall also be placed by the consulting Engineer at all the following locations within the improvement, and off-site, due to deed dependency, as required by the County:

- Section corners
- Quarter corners
- Centers of sections.

The section corner, quarter corner, and centers of sections monuments shall be Class "B" concrete, poured in place, with minimum dimensions of 8 inches by 8 inches by 24 inches. Ferrous material shall be placed in the monument to make it locatable with a magnetic locator. A metal survey disc shall be installed by the Consulting Engineer before the concrete has acquired its initial set and shall be firmly embedded in the concrete.

As an alternate monument, a 2" galvanized iron pipe, not less than 24 " in length shall be placed in paved areas, and 48" in length in unpaved areas. If the 2" galvanized iron pipe alternate is used, the metal disc shall be embedded in epoxy or concrete poured in the pipe.

Survey monument boxes shall be provided and placed by the Consulting Engineer at all quarter corners and section corners located within ultimate rights-of-way. Survey monument boxes shall be cylindrical with at least a 9 inch inside diameter, a minimum 12-inch height and shall have interlocking rings suitable for traffic situations.

C. The Consulting Engineer shall show the location and character of all survey monuments within the construction area and place a note on all construction plans stating that the Contractor is responsible for the protection of all existing monuments and other survey markers in accordance with section 8771 of the Land Surveyor's Act.