

From: Dan Miller

Sent: 11-26-04

Subject: Station labeling of new R/W corners opposite centerline spirals

The R/W Plans Section is changing its policy regarding the station and offset label on new R/W corners that are located opposite a centerline spiral curve. Until now, the policy has been one of stating the offset from the semi-tangent of the overall curve, and either stating a P.O.S.T. station, or the distance along the semi-tangent ahead of the main P.I., depending on if the corner is opposite the back or forward spiral.

The older method was developed in pre-computer days. Considering that various computer COGO programs today can produce an accurate and consistent station and offset for this situation (as verified by a sample test that was sent to the On-Calls a few months ago) it was decided to change the policy. It was also reasoned that it could be more practical for anyone in the future who would need to establish or calculate the position of the corner to either use the section line tie and bearings and distances along the new R/W, or, use the coordinates listed for the corner on the Final Monumentation Survey. Effective immediately, the station will be labeled as a P.O.S. and the offset distance will be from the actual spiral centerline. In principle, the stations and offsets for these corners will be calculated and portrayed no differently than other new R/W corners that are P.O.T.'s or P.O.C.'s.

Standard exhibit E4 has been revised to portray the new policy.

Note that the current policy of labeling the intersection points of section and mid-section lines with a spiral centerline will not change and still retain the convention of a P.O.S.T., or, Ahead P.I. label. This is because the centerline and these intersection points may need to be described in the legal description of the acquisition deed, and it avoids the pitfalls of trying to describe a partial spiral curve in the description.

Daniel N. Miller, RLS
R/W Plans Technical Leader/Project Manager
205 S. 17th Ave, MD 612E
Phoenix, Az. 85007
602-712-6174
DnMiller@azdot.gov