

Dear APS Customer:

The process of having your project surveyed by a private survey company requires that we receive Results of Survey/As-Builts for the underground electric facilities.

Arizona Public Service Company (APS) requires quality drawings since these drawings are used to assemble documents that are intended to be made a part of the permanent record. As such, companies supplying Results of Survey/As Built information to APS should understand what is required under Arizona statute codes including the Arizona Boundary Survey Minimum Standards.

1. Firms supplying Results of Survey/As Built information to APS shall be a registered firm with the Arizona State Board of Technical Registration and authorized to offer professional land surveying services in the state of Arizona.
2. All land surveying work and supporting documents produced by the supplying firm must be produced by or under the direct supervision and responsible charge of a Registered Land Surveyor in the State of Arizona. The documents produced shall be in accordance with all applicable state, municipal, and county laws and will follow regulatory rules pertaining to the practice of land surveying in Arizona as pointed out more specifically by the Arizona Boundary Survey Minimum Standards as adopted by the Arizona State Board of Technical Registration.
3. APS requires precise Results of Survey/As Built products and as such expect a Results of Survey drawing which depicts precisely the final, installed location of APS facilities. APS may use the Results of Survey drawing as an exhibit(s) or to create metes and bounds legal descriptions.
4. Arizona statutory and regulatory requirements mandate that these drawings be sealed, signed, and dated by a professional registrant with their expiration date noted. The drawings will incorporate the recording requirements as pointed out by state statutes and adhere to those standards. Ultimately, the supplying firms and their professional registrant are responsible for adhering to the Arizona Boundary Survey Minimum Standards including the recording requirements that are set forth within.

**The Results of Survey Drawing shall include the following:**

1. All Results of Survey Drawings shall display referenced bearings and distances to a minimum of two Public Land Survey System (PLSS) corner monuments closest to and within the section of where the parcel containing the APS project is situated.
2. All control monuments and corner monuments for which the survey is dependent shall be indicated and annotated. Bearings and distances to all electrical facilities including tie in points will be annotated.

3. All Results of Survey drawings will contain sufficient information referencing the facilities to controlling individual property corners from which surround each individual APS project.
4. All points where APS facilities touch or cross parcel boundaries shall be sufficiently tied.
5. When an APS alignment parallels a controlling PLSS, right of way, or parcel boundary line it will be shown by perpendicular distance to show the separation between said line and APS alignment.
6. A basis of bearing shall be indicated on all Results of Survey drawings. Curve data shall be stated as a minimum, in terms of radius, central angle, and length of curve. All non-tangent curve data shown must have sufficient additional information to allow them to be verified through mathematical analysis i.e. radial bearing, chord bearing, and associated distances.
7. Both the referenced record AND the field measured distances shall be clearly indicated.
8. The APS job number, Project Name, Section, Township, and Range where the site is located.
9. The name of the project surveyor along with the completion date.
10. All reference documents shall be listed so that if needed APS can locate each document through a public record search. Supplying Firm will include with the Results of Survey drawing a hard copy of all referenced documents that are not a part of the public record.
11. Newly installed equipment and lines including: all four corners of pull boxes and electrical pads (along with door location/direction pad device opens), centerline of junction boxes, alignment angle points, manholes, poles and electrical taps shall be tied and displayed on the Results of Survey.
12. Existing APS facilities such as: blue stake markings, splice points, pole dips, manholes, electrical pads (along with door location/direction pad device opens), and existing easements that connect to newly installed facilities.
13. Buildings within eight foot of any APS line or equipment.

### **Mandatory Deliverables**

1. Sealed PDF or Sealed Hardcopy of the Results of Survey drawing
2. AutoCAD file of the Results of Survey file.
3. A CSV or TXT file containing the points used to produce the drawing.

Thank you in advance for your continued support and attention regarding this process!