



GPS As-built With Land Base and Existing Facilities Correction

Client

Municipality

Location

Northern California

Background

A municipality in Northern California was in need of survey grade GPS collection for current electric, telecom and natural gas projects. Along with as-built collection, they also needed land base collected in several areas to adjust their existing GIS to be more accurate spatially as well as collect missing pieces of infrastructure to better enhance their system.

Scope

G2 Integrated Solutions was brought on to do the GPS collection of new construction as well as collect areas of existing facilities and infrastructure to enhance existing GIS data. This was done by a field technician using a robotic Trimble survey grade unit.

- Collect new facilities as they are being installed. This includes electric and telecom conduit and natural gas facilities.
- Collect existing facilities in the area of new construction to verify accuracy in GIS. This included valves, regulator stations, pedestals, manholes, vaults, etc.
- Create in office electronic and paper as-built for all new construction work collected.
- Collect existing infrastructure points to adjust land base and verify accuracy. This included curbs, gutters, sidewalks, catch basins, manholes (electric, storm sewer and sanitary sewer), street lights, traffic lights, poles, etc.

Results

Upon completion of this project, the client received a more accurate GIS land base that now contained several previously missing pieces. With this new GIS, the operator is able to accept GPS data from both internal and external collectors and place it in the system with minimal effort. They are now able to quickly and efficiently dispatch crews to an area with confidence knowing that their facilities are accurately mapped. This reduces down time and makes emergency response planning much quicker and more accurate.



FIELD ASSURANCE

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