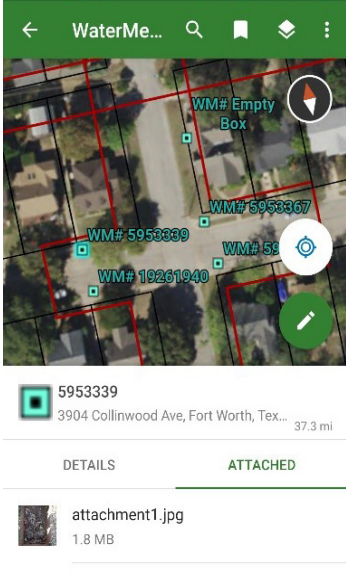


## PROJECT EXPERIENCE

# CITY OF FORT WORTH 2018 CIP WATER, SEWER, & PAVING IMPROVEMENTS

FORT WORTH, TEXAS



**YEAR COMPLETED:**  
2019/On-going

**CLIENT NAME:**  
Wade Trim (for City of Fort Worth)

**RLG SERVICES:**  
Survey  
GIS

### PROJECT DESCRIPTION /SCOPE:

The project consisted of reconstructing 6,000 LF of decades old water line ranging in size from 6" distribution to 30" transmission main; replacing 6,000 LF of old clay sanitary sewer with new 8" PVC; and 4.3 lane miles of pavement repairs across 19 neighborhood streets and alleys. RLG provided engineering topographic survey for the project. Survey included cross sections the right of way every 50' along each of the street and alley project limits, establishing right-of-way using recorded plats and found monumentation, getting pipe flow line, size, and material information at all manholes, measure down to top of nut on all water valves, limited level C subsurface utility engineering (SUE) investigation and Texas811 utility markings, and water meter number identification.

One unique approach to this project was the implementation of ArcGIS web and mobile mapping applications to assist in the water meter inventory task. Water meter point locations were loaded into ArcPro where they were published to ArcGIS online as a feature layer and web map. RLG field staff could then open this map on ESRI's Explorer and Collector mobile apps in the field and edit the feature layer. RLG staff walked up to each meter in the field, typed in water meter ID numbers and attached an image of the water meter both as attributes to this online feature layer. The result was a shareable web map that delivered water meter asset information back to the office in real time and can be shared with the client and other project stakeholders.