

FIG 2010

GI and Survey Grade Data = Solutions

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Buffering & Proximity

- Evidence found “on-the-ground” that creates Right of Ways, Structures, and Improvements can be mapped using Survey-grade GPS.
- GI Software allows for the GPS coordinates derived from surveying to be buffered in proximity to permanent structures, which are verified with “on-the-ground” data collection that is geo-referenced - shown on aerials.
- On-going changes in municipal ordinances and other regulatory agencies are applied for compliance & permitting.



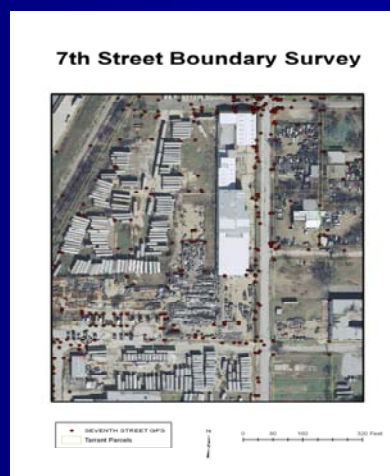
Choosing a Drilling Site in an Urban Environment.

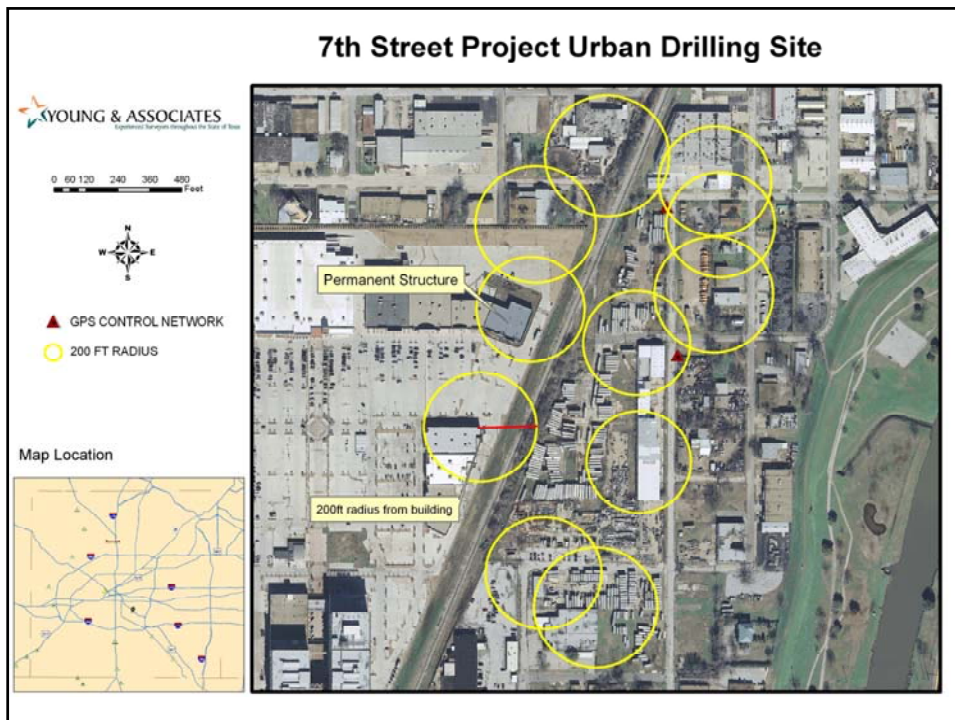
- For the 7th Street drilling project in the city of Fort Worth, Tx the site was carefully picked according to local regulations set by the state and city governments. One such regulation is choosing a drilling site 200 feet from any permanent structures.



GIS & Urban Drilling

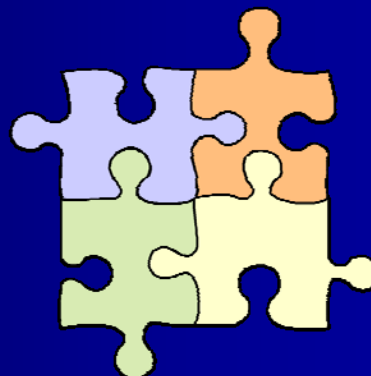
- To choose the site we conducted a complete inventory of the evidence on-the-ground, best evidence of property corners, and all utilities and improvements.





Urban Pipelines can be Puzzling?

- Choosing pipeline routes can be further complicated by the location of permanent structures, roads, sewer, waterlines, electric lines, not always visible above ground.



Adding SURVEY GRADE “processed” coordinates and high-resolution photogrammetry to a map allows for the analysis of geographic data which is invaluable when choosing a pipeline route or any oil or gas facility, especially in an urban environment.

Golf Course



Obstructions & Distance Requirements

Golf Course



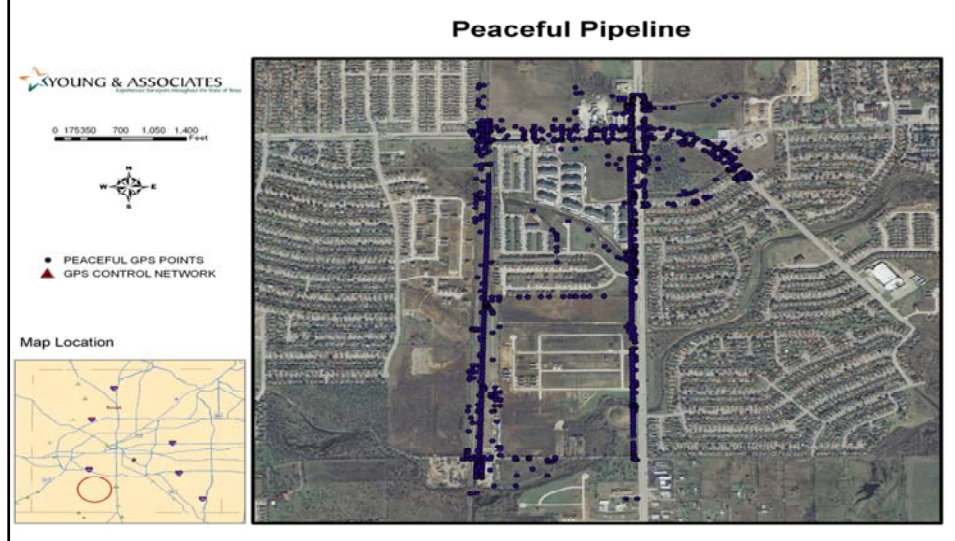
Golf Course

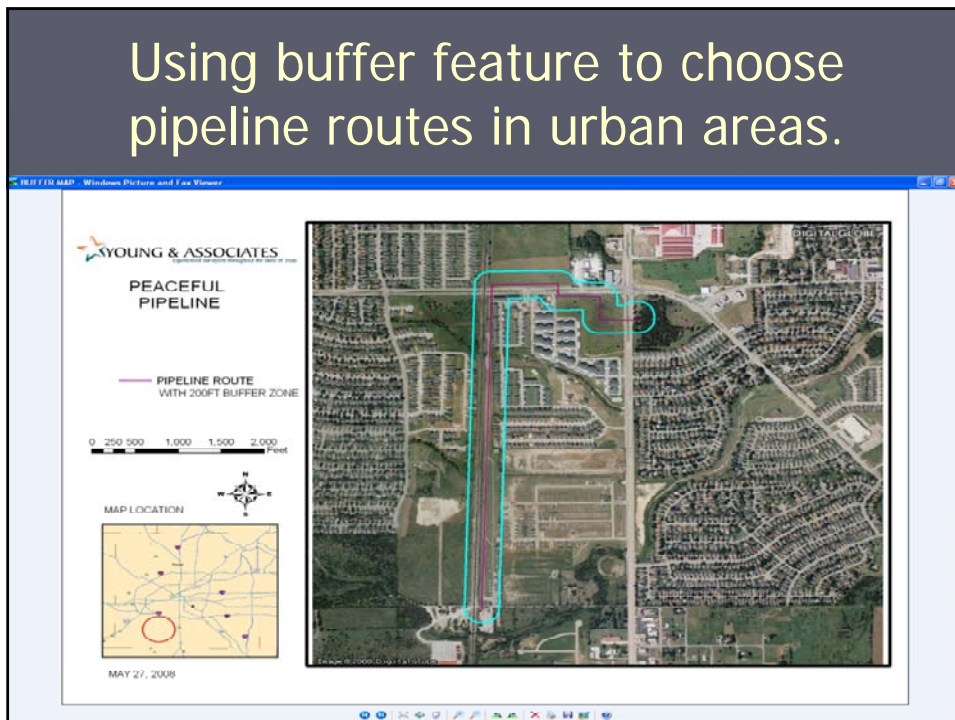
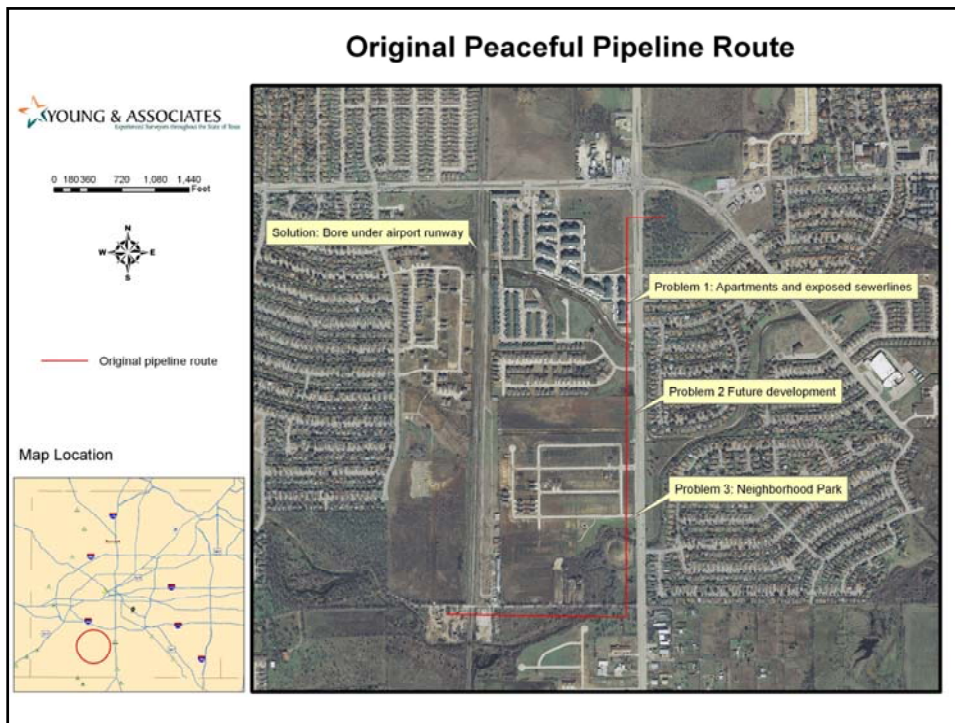


Base map Data

- ▶ Accurate Base map of parcel fabric is a must and this is provided by on the ground surveys. When buffering any structures above or below ground, the only way to really know is to locate them with Survey-Grade techniques and equipment, as + or – does not cut it in our current world, especially in the Urban environment.

ON-THE-GROUND Survey is a MUST!





Coordination between the surveyors and the GIS professionals is a must and creates a synergy that helps perpetuate the solutions for the Surveying and GIS professions, and of course in the end the client of both.

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