



## Pipeline Infrastructure Mapping & Imaging

### *Transmission Gas & Liquids - Pipeline As-Builts*

P4D LLC provides high accuracy 3D mapping of pipeline segment relocations and new construction that use Horizontal Directional Drilling (HDD) for installation in Transmission & Distribution systems.

Typical drill logs and gauge plate pigs do not provide accurate position, depth, and pipe geometry that is critical to operations, engineering, and integrity. Our service provides accurate, high resolution geometry of the pipeline, providing;

- **AS-BUILTS** - Accurate 3D – XYZ of the **installed** pipe segment
- **GIS & CAD Deliverables** – Ease of Upload
- **GEOMETRY** - Precise bending curvature (over/sag, side bends)
- **CALIPER** - Optional Digital 360° Caliper
- **Depth of Cover** – input to Damage Prevention Programs
- **PERMITS** - Clearance & Avoidance; State / Federal DOT, US Army Corp of Engineers

This information flows directly into enterprise GIS systems. The work process is non-disruptive to the construction operations, generally carried out after hydro-testing and final dewatering / cleaning. The final deliverable provides upload of these critical segments into the overall integrity management of the system. This is the most accurate and effective method to verify and validate the installed pipe position in plan and profile.

**CASE Studies** Available: Pipeline segments 500' – 15,000' and 4" – 40" diameter ranges; critical waterway and transportation crossings, of steel, plastic, cast iron materials.

