



Pipeline Infrastructure Mapping & Imaging

High Accuracy As-Built Generation

P4D LLC provides high accuracy 3D mapping of pipeline or conduit systems or segments, for relocates, adjustments, and new construction that use Horizontal Directional Drilling (HDD) for installation. We have a suite of tools and systems to provide high accuracy subsurface pipe and utility position, for planning, damage prevention, project & operational risk management.

Pipelines

Pre-Construction Locating

- Crossings & Corridors – EM, GPR Subsurface Mapping Crew – Resolve Conflicts
- Waterbody Crossings – Marine Bathymetry, Sonar, EM Surveys
- High Accuracy As-Built for critical segments

Post Construction Mapping

- Pipe Centerline Mapping, Geometry - Bends, Caliper
- HDD Mapping
- High Accuracy As-Built for critical segments
- USACE 408 Permits (Dredging)
- DOT Corridor Expansions

Facilities

Construction

- Subsurface Area Mapping - EM, GPR Subsurface Mapping Crew – Identify Infrastructure
- As-Built Verification – Dead Leg Piping, Conflict Avoidance
- In-Pipe Mapping for open systems
- High Accuracy As-Built CAD/GIS with depth, discrimination

Industries

- **Transmission Pipelines (Energy)**
- **Gas Distribution Systems**
- **Telecom Conduits**
- **Municipal; Water, Storm, Sanitary Systems**

