

MICRO-TRENCHING



An HP Communications, Inc. / **TeraSpan™** — 
PRESENTATION



Welcome to **HP Communications, Inc.**

HP Communications, Inc., is an OSP/ISP full turn key contractor, founded in 1998. We're on the front line of a seemingly non-stop communications revolution. We strive to stay current and incorporate new technologies, as they develop, in order to respond quickly to our customers' demands. We currently have offices across the United States and have over 300 in-house employees to support our customers.

To keep up with advancements in technology, HP Communications has established strong relationships with service providers as well as product manufacturers in an effort to offer our customers and employees the latest innovations available. In keeping with this philosophy we have worked closely with Teraspan Networks and have utilized their developed technology on numerous projects.

TeraSpan Networks was founded in 1997 with a vision to drastically innovate the deployment of fiber optic networks in the outside plant environment. Today, TeraSpan's Vertical Inlaid Fiber (VIF) system is the world's leading solution for versatile, reliable, cost effective and environmentally friendly fiber optic network deployments. The VIF system enables rapid delivery of communication infrastructures necessary to support dependable, high-bandwidth services for any application, for any type of customer. The VIF system is installed utilizing Teraspan developed Vertical Deflecting Conduit (VDC) via a new technology called micro-trenching which involves the creation of a shallow trench, typically half of an inch wide and two to nine inches deep, in the sidewalk or in the street.

Benefits of Micro-Trenching

- **Minimal Cost & Time:**
Drastically reduces the cost, time and complexity associated with traditional trenching methods which in addition to being expensive, is a lengthy process
- **More Efficient Crew Structure:**
Deployment can be completed with smaller crews and less equipment and less impact to surrounding homes and businesses
- **Productivity:**
A crew can install as much as a thousand feet of fiber per day (including restoration)
- **Minimal Impact:**
It leaves existing roadways, sidewalks and landscaping intact and provides a win-win situation for the municipalities and the local constituents.

Micro-Trenching

VS

Traditional Trenching

■ **Material:**

- Saw Blades (need to be replaced every 4000')
- Tracer wire
- Perma-Patch (Restoration Material)

■ **Labor:**

- Less Expensive per foot

■ **Total Cost**

- Less Expensive

■ **Material:**

- Asphalt / Concrete
- Slurry
- Tracer wire

■ **Labor:**

- More Expensive per foot

■ **Total Cost**

- More Expensive

