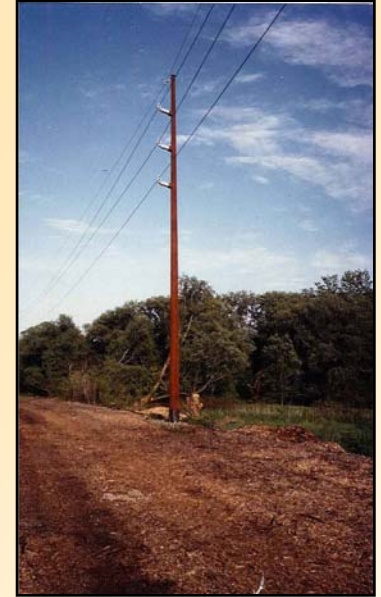


THE METAL FIN PIPE FOUNDATION AND ITS USE IN CIVIL PROJECTS...



Civil Foundations: Heavy Highway, Power Distribution, Solar Dishes, Communications Towers, Advertising Signs

Presented by: **METAL FOUNDATIONS** ~ 930 Glenwood Ave.
Ambridge, PA 15003 ~ PH: 724-266-8733 ~ FAX: 724-266-8050

www.metalfoundations.com

METAL FOUNDATIONS...

State of the Art, Innovative, Patented Products

Metal Foundation's unique design supports the loading conditions of numerous structures such as:

- **OVERHEAD SIGNS**
- **TRAFFIC LIGHT POLES**
- **POWER DISTRIBUTION TOWERS**
- **HIGH MAST POLES**
- **CANTILEVER SIGNS**
- **TWIN CANTILEVER SIGNS**
- **RETAINING WALLS**
- **STRAIN POLES**
- **AIR CURTAIN WALLS**

MFPFs can also be designed to support standard bearing loads. To date, Metal Foundations has installed numerous foundations for each of the above referenced structures in a wide variety of soil conditions.



METAL FOUNDATIONS.....Advantages

Eliminates Large Excavations

- Provides a safer work zone.
- No open excavations overnight or for extended periods.
- No personnel or public concerns over large, deep and possibly unsafe excavations
- No dewatering
- No 2 to 1 slope or benching requirements (Meets OSHA regulations)

Pre-Engineered

- Computer aided design and manufacturing requires less time
- Foundation loading and soils information is all that is required to design the foundation.
- Metal Foundations has thoroughly tested the Metal Fin Pipe Foundations utilizing an independent testing group (results are available upon request).
- Shop controlled QA/QC foundation is delivered to the jobsite ready to install
- Designed for seismic conditions
- Seventy-five year anti-corrosion guarantee

Eliminates Concrete

- Installation in any weather, hot or cold, rain or shine.
- No forms.
- No curing temperature or 28-day curing period to maintain.
- The structure may be erected the same day the foundation is installed.
- Metal Fin Pipe Foundations are perfect for remote locations where concrete is not available, impracticable, or difficult to deliver to the site.

Right of Way and Access

- Ideal for limited right of way.
- Ideal for limited access and congested areas where down time is a concern, such as a central business district or major intersection.
- Eliminates the use of guy wires for many poles
- Able to be removed and relocated if highway widening is required.

Rapid Installations

- Metal Fin Pipe Foundations are installed in an average of two to four hours in most cases. Although larger applications may take between five and eight hours.
- Foundations can be installed with minimal disruption of traffic patterns and with less protection around the work areas.
- Significantly reduces total construction time, saving man hours, downtime and money.

Underground Obstructions

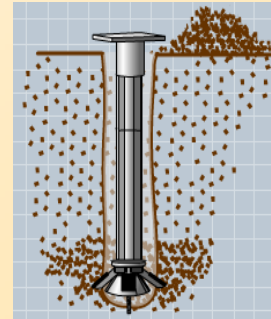
- The ability to avoid underground obstructions is optimized by the size of the foundation and the installation process.
- Ideal in congested underground areas
- Underground water is no problem with the Metal Fin Pipe Foundation

METAL FOUNDATIONS.... INSTALLATION PROCEDURE



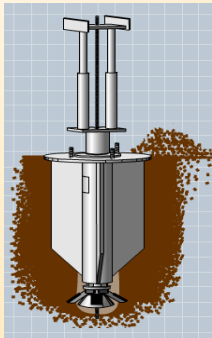
1. AUGER HOLE & INSTALL ANCHOR...

A small hole is augered to the appropriate diameter and depth. An anchor is placed in the hole.



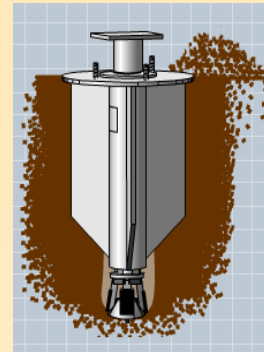
2. EXPAND ANCHOR PLATES

As the plates are expanded, they compact and consolidate the soil locking the anchor into place.



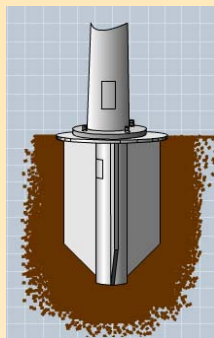
3. INSTALL FOUNDATION

A foundation is positioned and aligned above the anchor. The hydraulic system is used to pull against the anchor and push the foundation into position.



4. REMOVE ANCHOR

The anchor is withdrawn through the center of the Foundation and soil removed during auguring is used to fill the foundation column.



5. ATTACH STRUCTURE

The foundation is ready for immediate use - no waiting days for concrete cure time.

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**PLEASE FORWARD ALL
QUESTIONS TO:**

METAL FOUNDATIONS

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