



# Piping and Valve Repair and Replacement Method IDEA Thermal Distribution Workshop

Austin, TX

February 8-9, 2016

Nathan Jones and Reuben Bernal

Texas A&M University Utilities & Energy Services



# Have You Found This...







Followed By Something Like This



# Or This?





# The Thermal Distribution Systems on the Texas A&M University are Composed of Piping Materials That Include:

- Concrete wrapped steel cylinder (Gifford Hill or Hanson)
- Asbestos wrapped (AC)
- Steel
- Ductile
- Copper
- PVC
- High Density Polyethylene (HDPE)



# But Before You Start...Locates





# Pipe Repairs are More of an Art Than a Science























































































NO. 6027 TURKEY



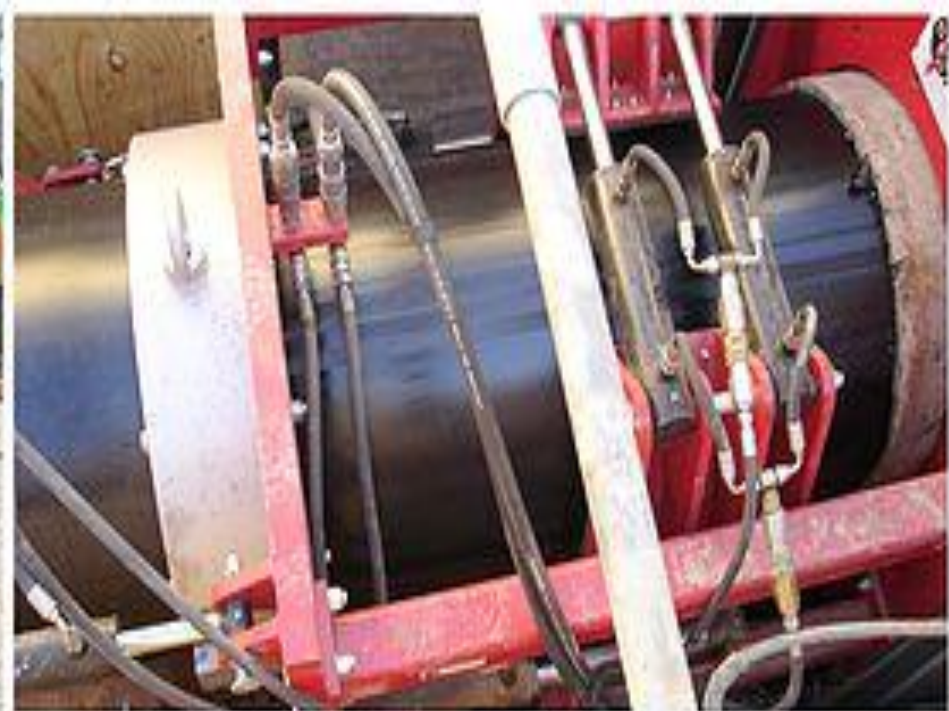


# Trenchless Methods









**LIFE EXTENDING TECHNOLOGY**  
FOR NEW AND EXISTING PIPELINES





























# Contacts

- Reuben Bernal
  - Supervisor for Plumbing Distribution
  - (979) 845-4614
  - [rbernal@tamu.edu](mailto:rbernal@tamu.edu)
- Nathan Jones
  - Manager, Water & Environmental Services
  - (979) 862-4606
  - [nathan.jones@tamu.edu](mailto:nathan.jones@tamu.edu)