

#### **Photos Courtesy of:**

National Welding Corp. Midvale, UT Victaulic Depend-O-Lok Doraville, GA

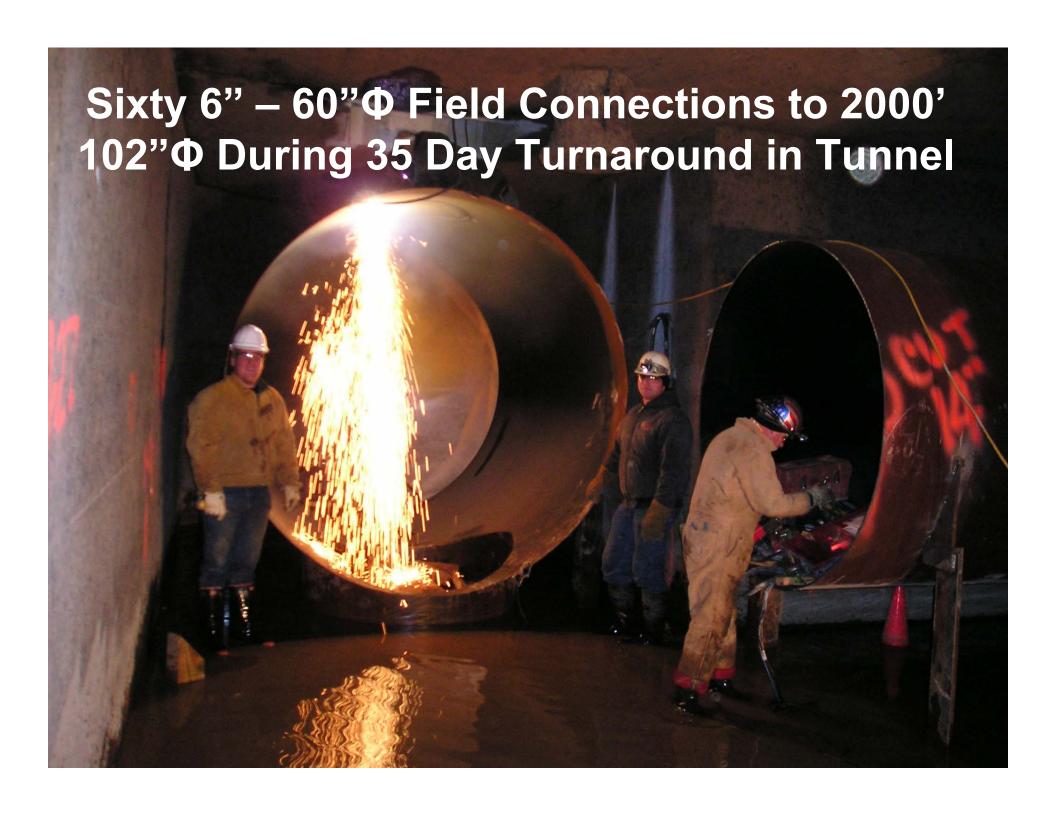
# STEEL PIPE INSTALLATIONS







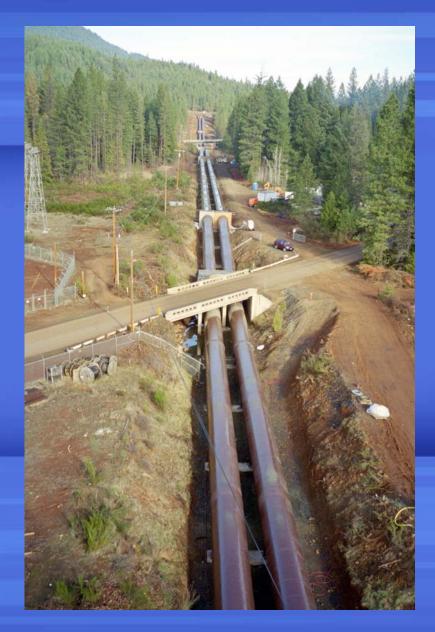




#### Economies of Steel

- Steel Pipe Construction 144" Φ & Greater
- Economy in Installation
- Longer Length Reduces Number of Field Joints
- Lighter Weight than Concrete
- Homogeneous Structural Composition
- Precision Rolled to Any Diameter





Penstock 7000' – 90"Φ



# Strength of Steel

- High Ductility
- Flexible Pipe Design Works in Combination with the Soil
- High Strength Handles High Working Pressures & Surges
- Great for Horizontal Directional Drilling

# 120" Φ Expansion Joint 12,000' of Pipe





#### Almost Done! 90" Penstock



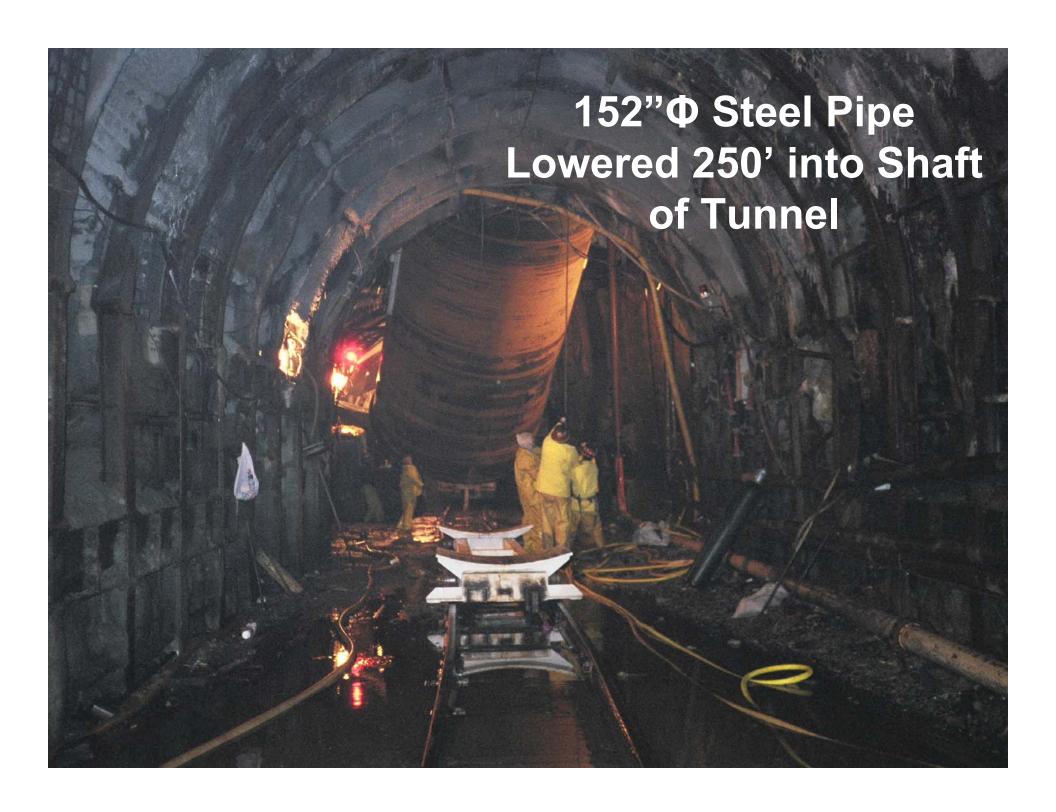
### Install it Anywhere

- Underground or Aboveground
- Tunnels
- Power Plants & Penstocks
- Under Bridges
- Inside Structures
- Etc.









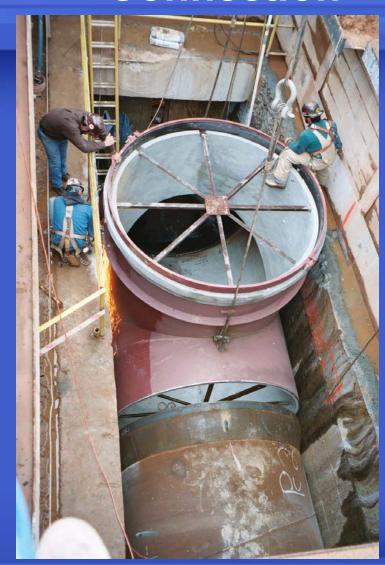


54" Pipe Inside Structure

48" Φ Pipe Hangs on Bridge



# Cooling Tower Connection

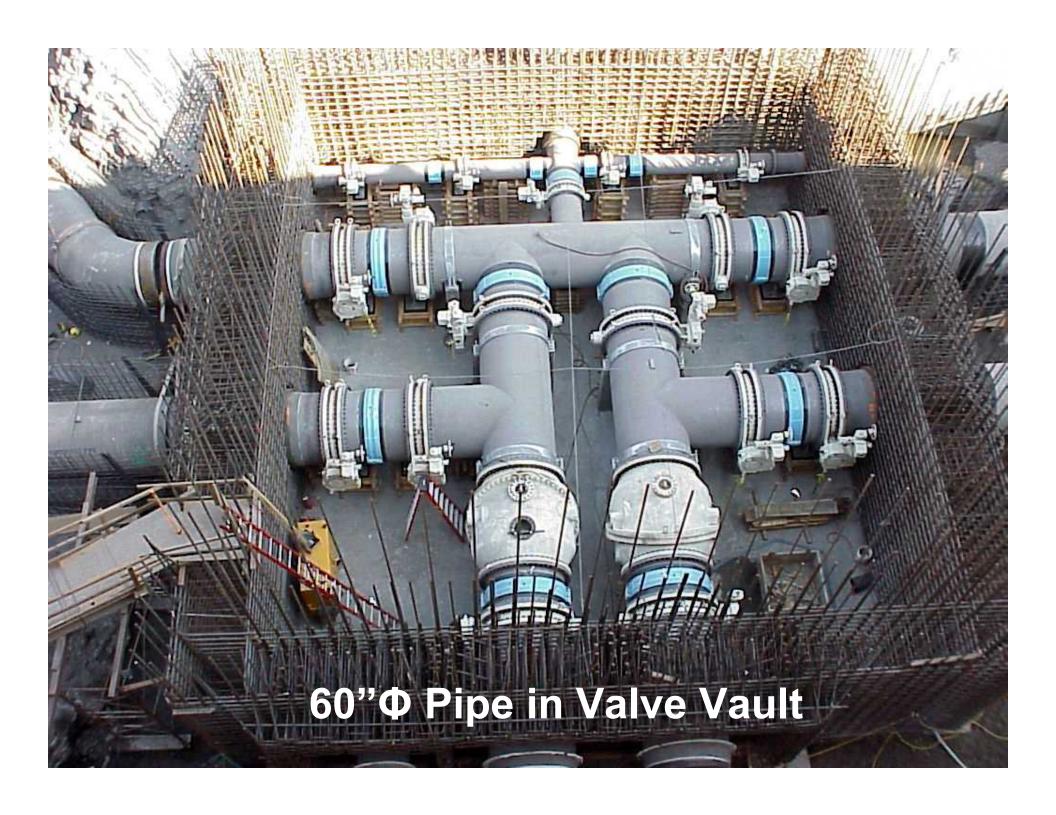




**Field Joint** 

## Steel Pipe Design is Adaptable

- Pre-Fabricated Fittings
   Customized to any Dimension
- Can be Easily Modified in the Field



# Connecting Water Main to Water Treatment Plant - 180" Diameter Steel Pipe







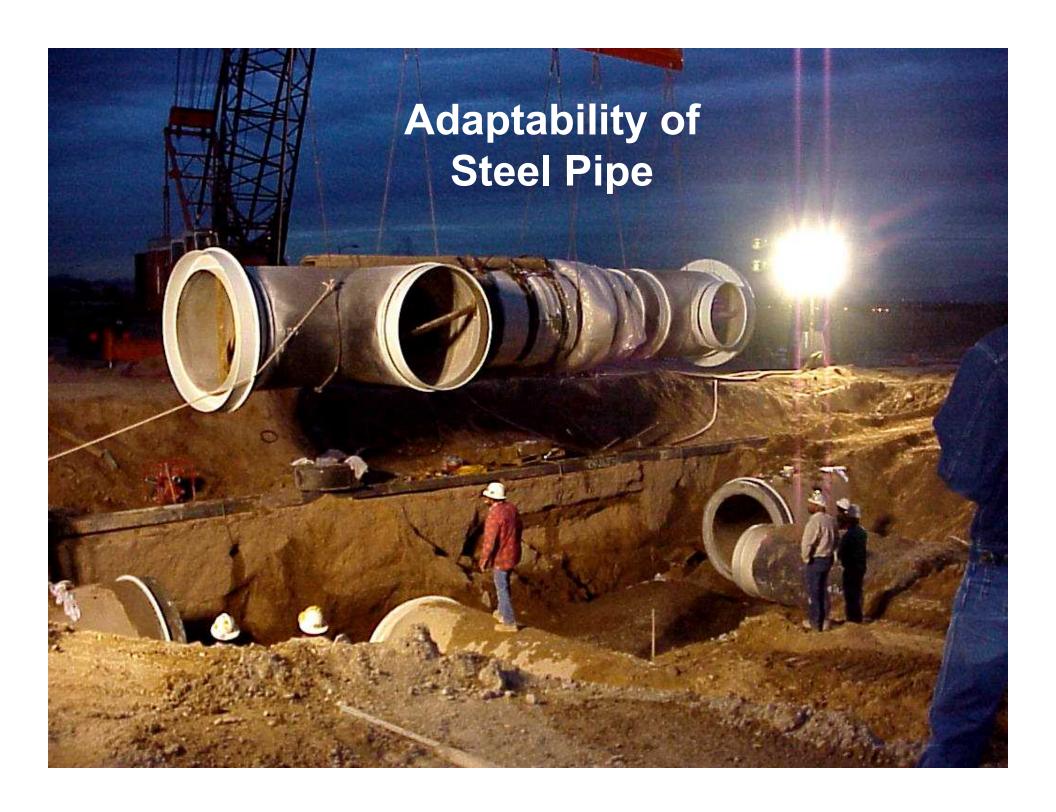




# **Special Fittings to Handle Large Thrusts**

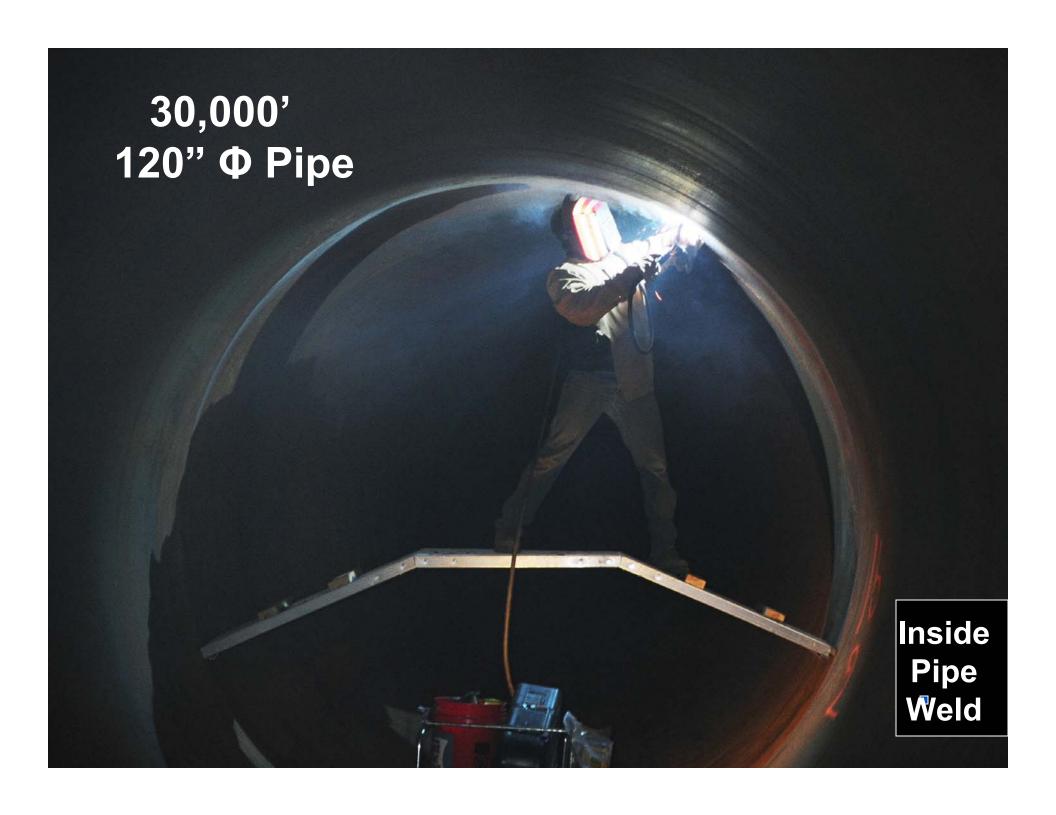






### Steel Pipe Welded Joints

- Water Tight
- Welded Joints Provide Restraint from Full Thrust Forces & Zero Leakage
- Great Beam Strength
- Single Lap Welds are Normally Adequate
- Capable of Being Welded After Bedding & Backfilling



### **Field Joining Operations**









#### Corrosion Resistant

- Tape Wrap Coatings
- Polyurethane Linings & Coatings
- Cement Mortar Linings & Coatings
- Assured Corrosion Protection
- Does Not Fail Catastrophically

