## e Meter Setter



## **Break Out Of The Stone Age** With Uni-Flange Restraints

## MECHANICAL RESTRAINT VS. CONCRETE THRUST BLOCKS

- STABLE COST HISTORY HISTORICAL COST INCREASES
- CAN BE INSTALLED ABOVE GROUND WITH EASY ACCESS, THEN LOWERED INTO TRENCH
- **BELOW GROUND INSTALLATION -**REQUIRES FORMS, TIME & MATERIAL
- LESS EXCAVATION REQUIRED
- LARGER EXCAVATION AREAS REQUIRED
- MINIMAL DISPLACED DIRT -
- MORE TIME AND COST TO EXCAVATE AND
  - MOVE DISPLACED DIRT
- **RESTRAINTS TAKE LITTLE ROOM UNLIKELY** INTERFERENCE WITH EXISTING STRUCTURES
- INTERFERENCE MORE LIKELY
- RESTRAINTS ON SITE WHEN NEEDED
- POSSIBLE DELIVERY DELAYS
- **USE WHEN NEEDED**
- REQUIRES SCHEDULING DELIVERY
- USE ONLY AS MANY AS NEEDED -IMMEDIATE RESTRAINT -
- WASTE IS LIKELY
- CONCRETE CURE TIME REQUIRED CURE TIME AND QUALITY AFFECTED BY
- WEATHER INDEPENDENT -
  - RAIN, SUN, WIND AND TEMPERATURE
  - IMMEDIATE TEST -IMMEDIATE BACKFILL
- CANNOT TEST UNTIL SUFFICIENTLY CURED **BACKFILL CAN AFFECT CURE TIME**
- LEAST DEPENDENT ON GROUND STABILITY
  - SUBJECT TO GROUND EROSION AND INSTABILITY
- EXTENSIVE LABOR TO REMOVE CONCRETE UPON
- SIMPLE DISASSEMBLY
- LEAKAGE, INSTALLATION ERROR, OR PLAN CHANGES
- SIMPLE. ECONOMICAL REASSEMBLY
- CANNOT RE-INSTALL A THRUST BLOCK, MUST REMOVE AND POUR NEW CONCRETE
- SUITABLE FOR ABOVE GROUND APPLICATION
- ABOVE GROUND THRUST BLOCKS ARE IMPRACTICAL

