WELCOME	
<b>KEYHOLE MEETING</b>	

# **AGENDA:**

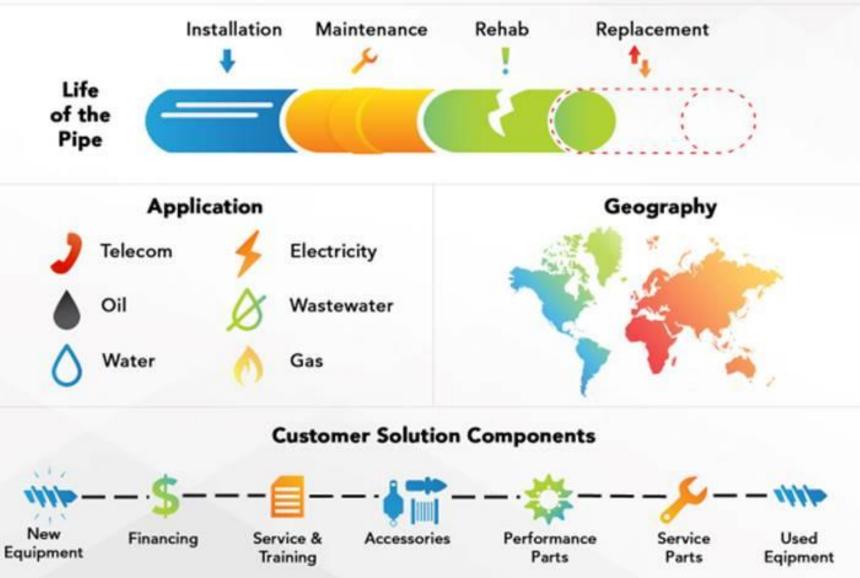
GAS LINE SLITTING- PVC, ALDYL-A, & MDPE

> SERVICE & MAIN

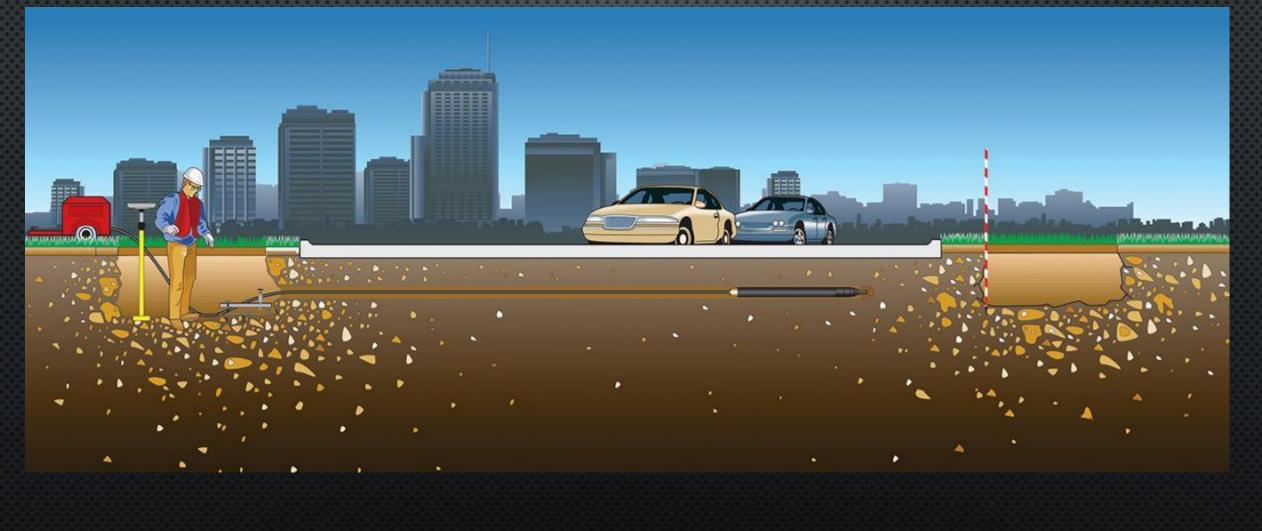
> STEEL PIPE TRANSMISSION & DISTRIBUTION REPLACEMENT



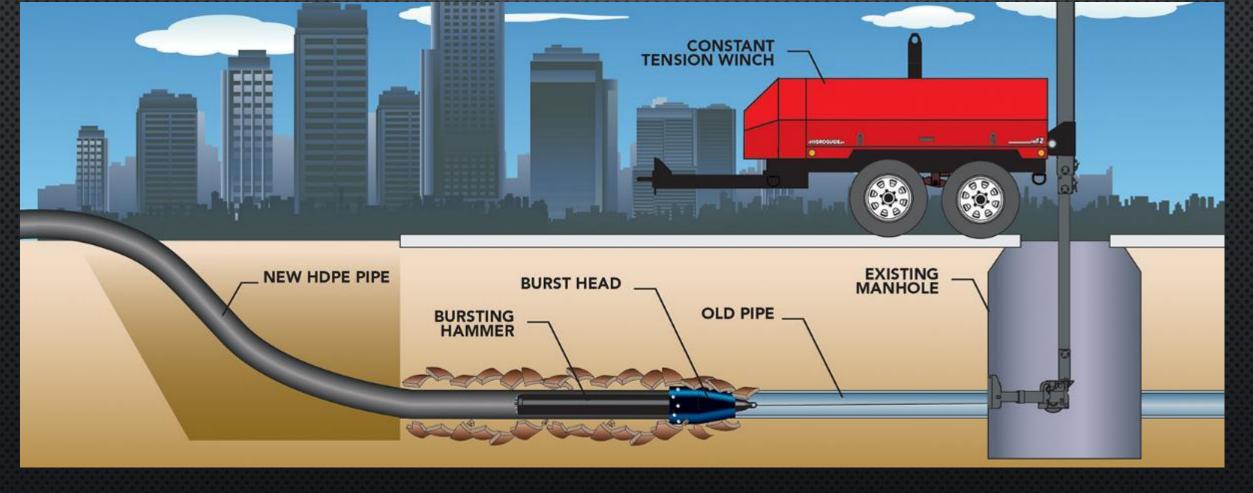
### **Underground Pipe & Cable Market**



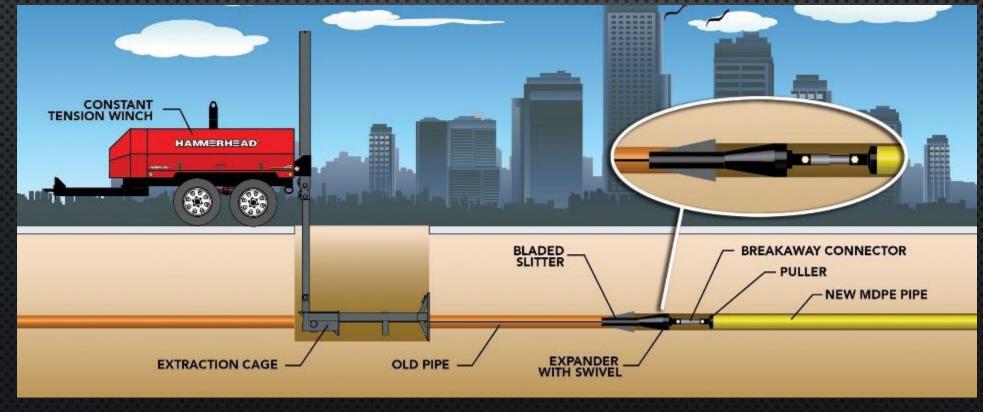
## PIERCING TOOL COMPACTION DEVICES



### PNEUMATIC PIPE BURSTING



## GAS LINE SLITTING



# PE PIPE SPLITTING 1/2" TO 4"

# ✓ PROVEN



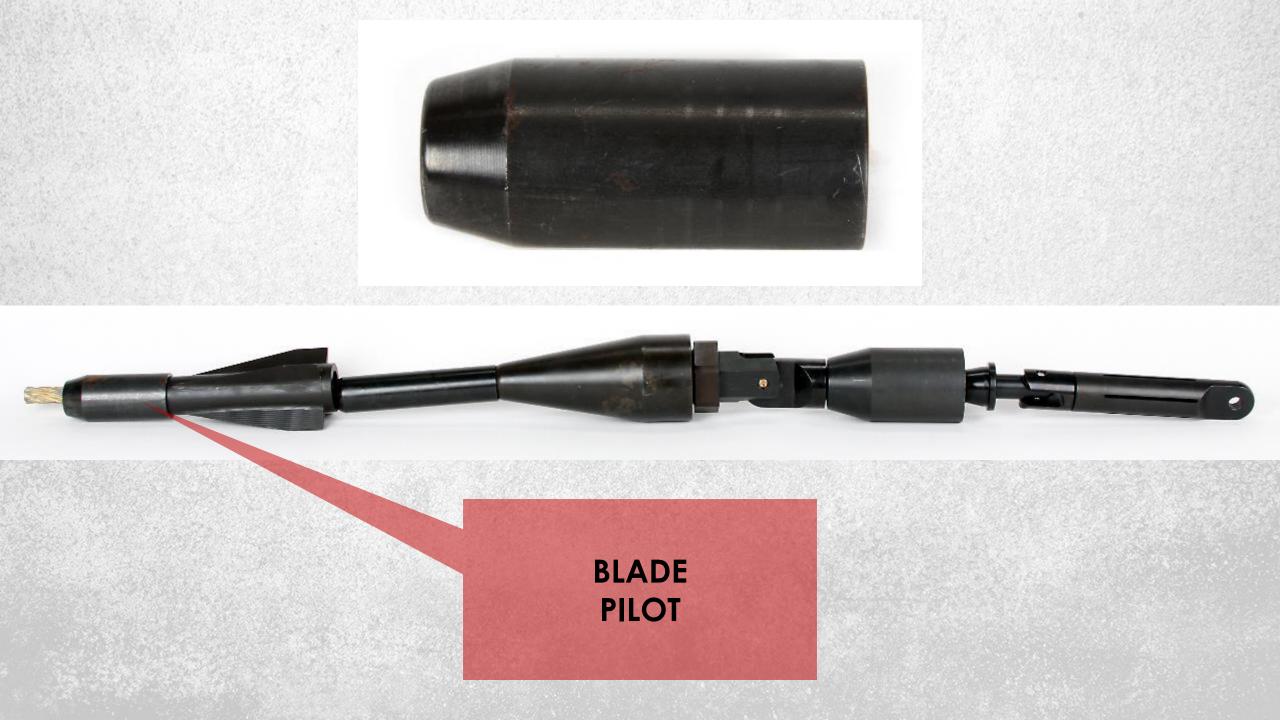
✓ CLEAN

✓ FAST

✓ COST EFFECTIVE !!!!

# HAMMERHEAD

- > AMERICAN MADE EQUIPMENT
- AMERICAN MADE TOOLING
- LOCAL MACHINES, LOCAL SUPPORT, LOCAL TRAINING
- > TRACKING, ELECTRICAL STRIKE INDICATOR DEVICE



#### **STANDARD BLADE SET**

Slice through pipe, tees and couplers. Slit extracted pipe, available from  $\frac{1}{2}$ " – 4".





**EXPANDER** With incorporated swivel assembly and cable wedge connection assembly. Available from ½" – 4".



#### **SLEEVED PULLER**

1

Secure and protected connection of new pipe installed. Available from 1" – 4".



#### **BEACON HOUSING**

Monitor progress and ID location of tooling. Easily incorporated into existing tooling string.

### OPTIONAL FOR JOINT TRENCH

#### LOW PROFILE BLADE SET

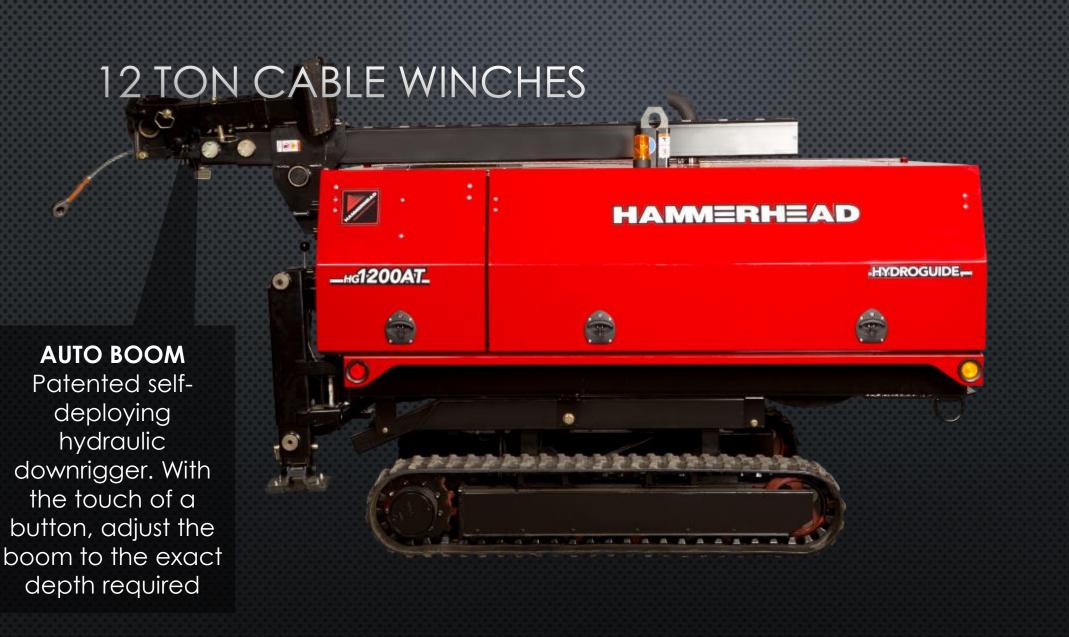
Swap out standard blade set for low profile blade set when adjacent utilities are in close proximity and shots are without couplers or service connections.

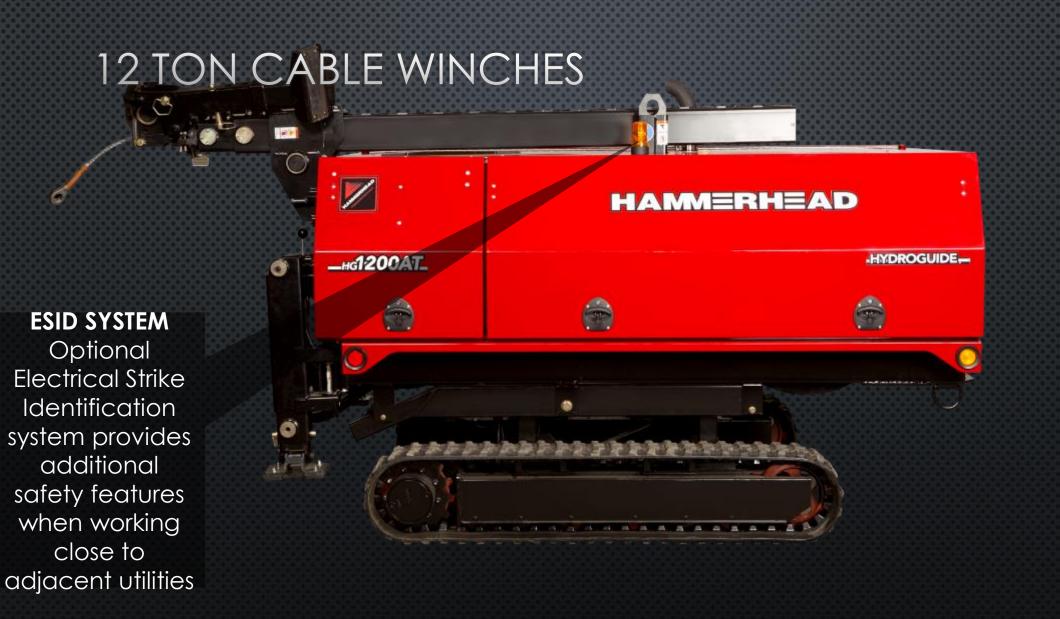


#### **INTEGRATED BREAKAWAY ASSEMBLY**

Ensures pulling load does not exceed manufacturer and design specifications. Designed to integrate directly into pulling expander. Available for 2" and larger expanders.















#### HYDRAULIC LEVELING JACKS

This optional feature makes for easy adjustments down hole increasing efficiency

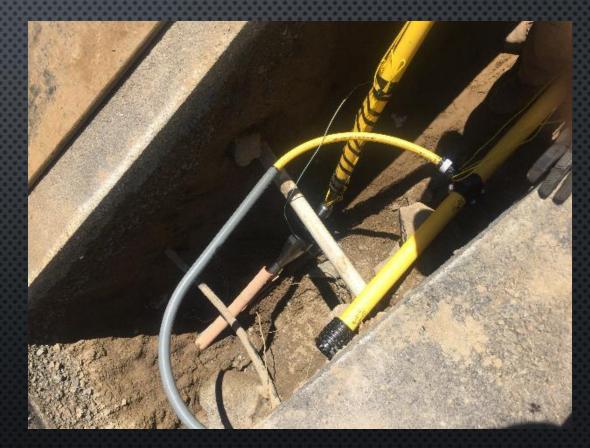
## ADVANTAGES

- SAME PATH
- REDUCED RISK OF CROSS BORE
- SPEED/LOWER COST
- SHORT LEARNING CURVE

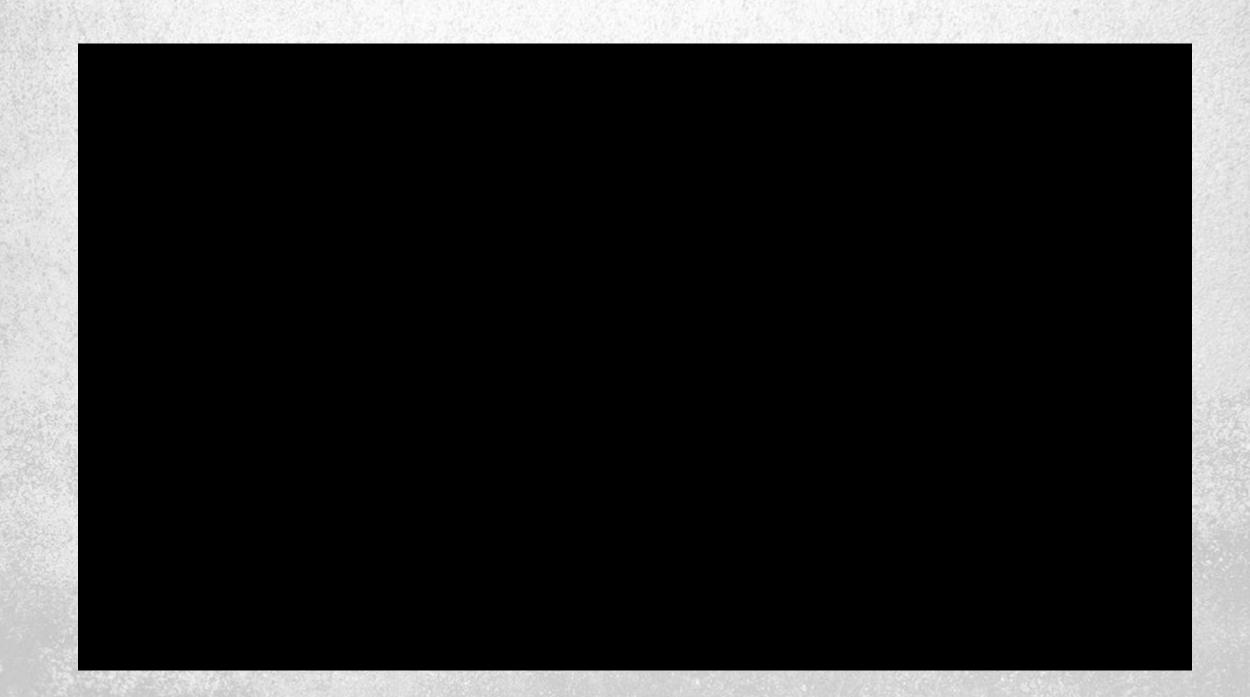


### ADVANTAGES

- PROVEN TECHNOLOGY
  NEW APPLICATION VS. NEW
  PRODUCT
- ILLUMINATES NEED TO DECOMMISSION OLD PIPE
- SAME PROCESS MAY BE USED TO DECOMMISSION PIPE WHEN HDD PROCESS IS UTILIZED

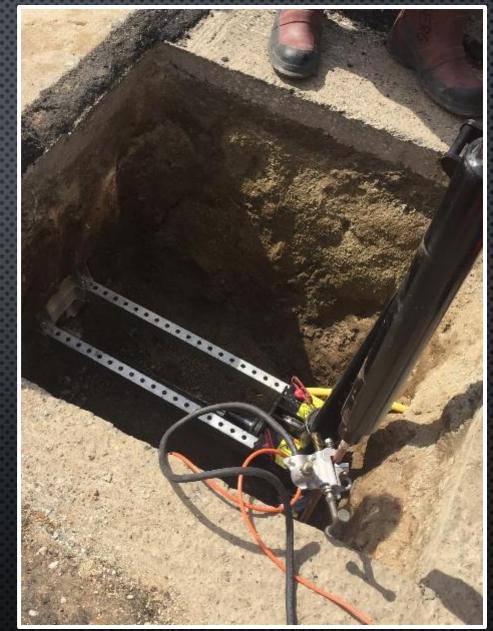






## JOB SIGHT PHOTOS HG375T $\frac{1}{2}$ " - 2"













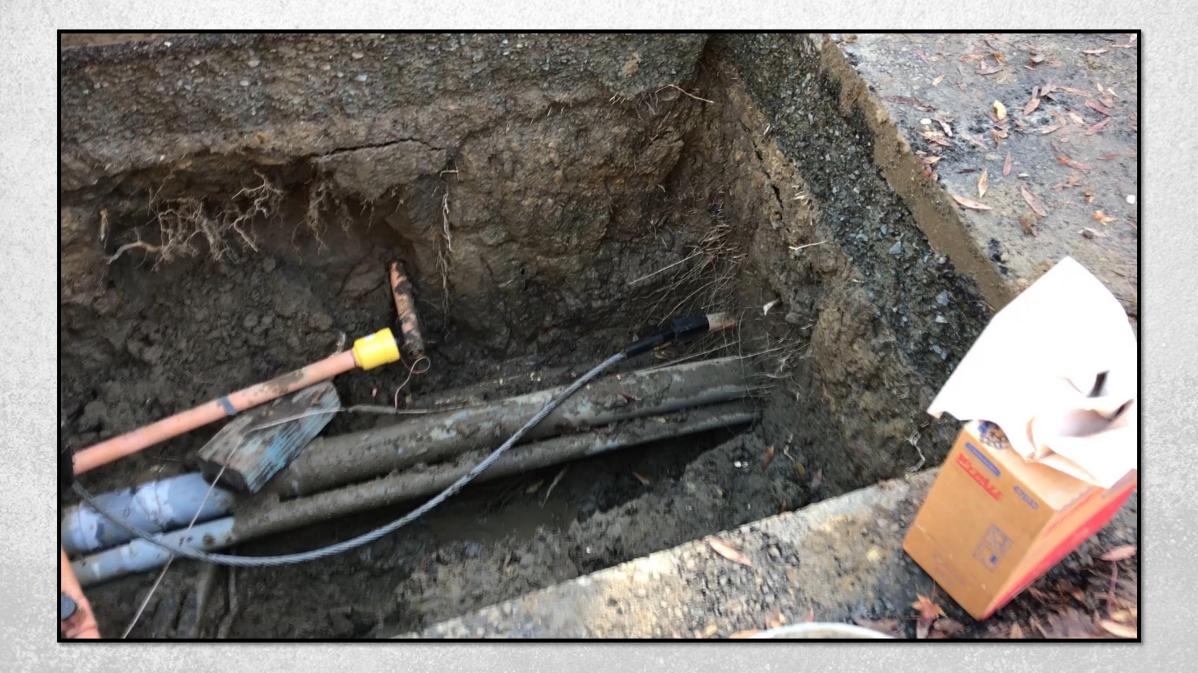






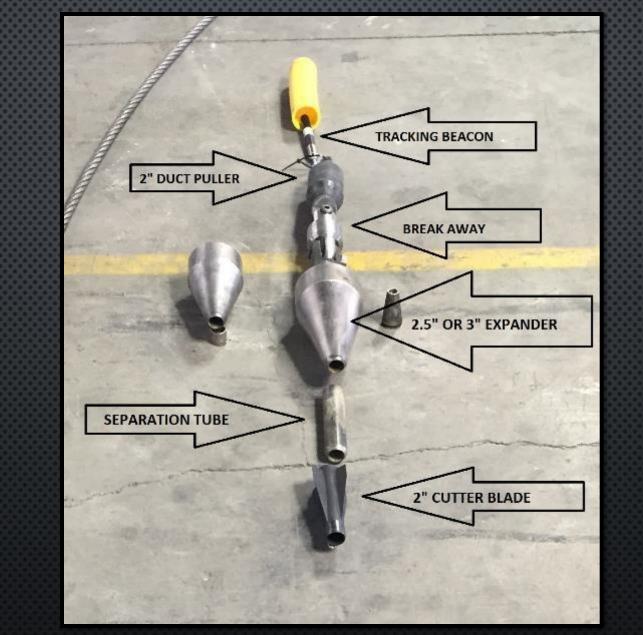
Electrical Grounding Blanket Operator Personal Protective Grounding Grid Electrical Strike Indicator Standard





# TRACKING ELECTRONICS





# SAMPLE TOOLING STRING



# JOINT TRENCH TOOLING



#### VIDEO:

#### SLITTING 2" PVC & ALDYL-A AND INSTALLING NEW HDPE IN BIG BEAR, CA

states a track provide

#### VIDEO:

#### SLITTING 2" ALDYL-A AND INSTALLING NEW HDPE IN AUBURN, CA

# GAS LINE SLITTING VIDEO AVISTA GAS 4" ALDYL-A- 4" MDPE





### STEEL GAS LINE SLITTING VIDEO

#### **TRENCHLESS TELEVISION**



## STEEL GAS LINE EXTRACTION GROUT BEHIND



# STEEL GAS LINE EXTRACTION PIPELINE REPLACEMENT VIDEO



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die

# STEEL GAS LINE EXTRACTION DISTRIBUTION REPLACEMENT VIDEO



### TRAINING DAY(S)

#### 1,2,3 DAY FORMATS

## PGet Step 2: Emergency Ticket

4216(f): "Emergency" means a sudden, unexpected occurrence Immediate action to prevent or mitigate loss of, or damage

· Examples of emergencies:

 Hazards substance released. into the environment

 Construction equipment in contact with an electric line

Liquid line causing a sinkhole

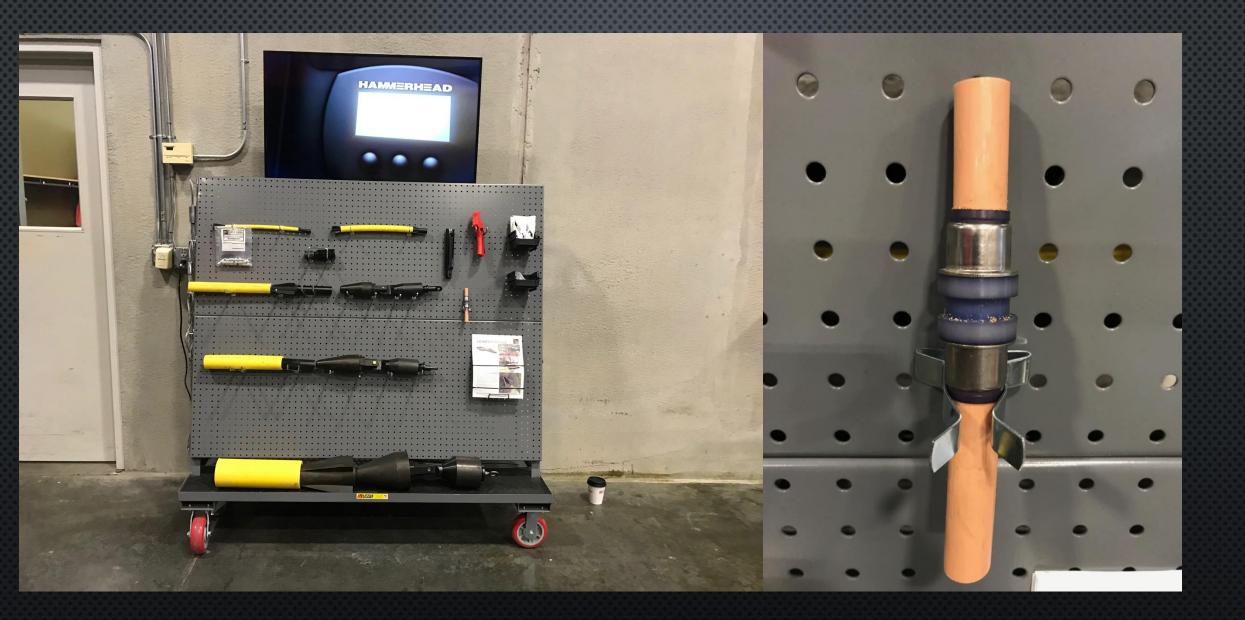
- 911 Call center down due to telecommunications line contact Calling in an emergency does not absolve you of the labition

After hours emergencies require contacting utilities directly. PG&E after-hours emergency number is 1-800-743-5000. This Dee Call Process In party we have an fugure (

### HammerHead University



### HammerHead University





## QUESTIONS

