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Technology Summit 2019



MICROTRENCHING



Chris Thompson

Ditch Witch

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MICROTRENCHING 101

Austin 2019

PRODUCTS IN ACTION:
MICROTRENCHING







WHY USE MICROTRENCHING?

- Speed
 - Up to 12 meters (40') per minute
- Less disruptive
 - Less dust / debris (vs saws)
 - Not on private property
- Location
 - Avoids crowded easements
- Safety
 - Distance from existing utilities can reduce chance of utility strikes
- Labor
 - Less training required (vs HDD)
- Can be less expensive
 - For all the reasons above





OTHER CONSIDERATIONS

- Homeowner Impact
 - Noise Levels
 - Dust Control
 - Traffic Impact
 - Lawn / Personal Property
- Skilled Labor Availability
- Traffic Control Costs
- Insurance Costs
- Permitting
- Speed



VS:



VS:



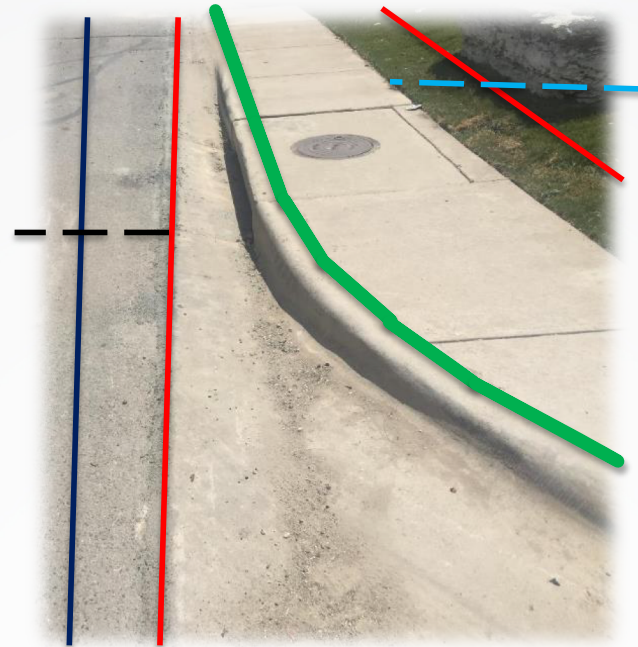
VS:





MICROTRENCH JOBSITE VARIABLES

- Design
- Location
- Product
- Dimensions
- Reinstatement
- Other



Every job is different...

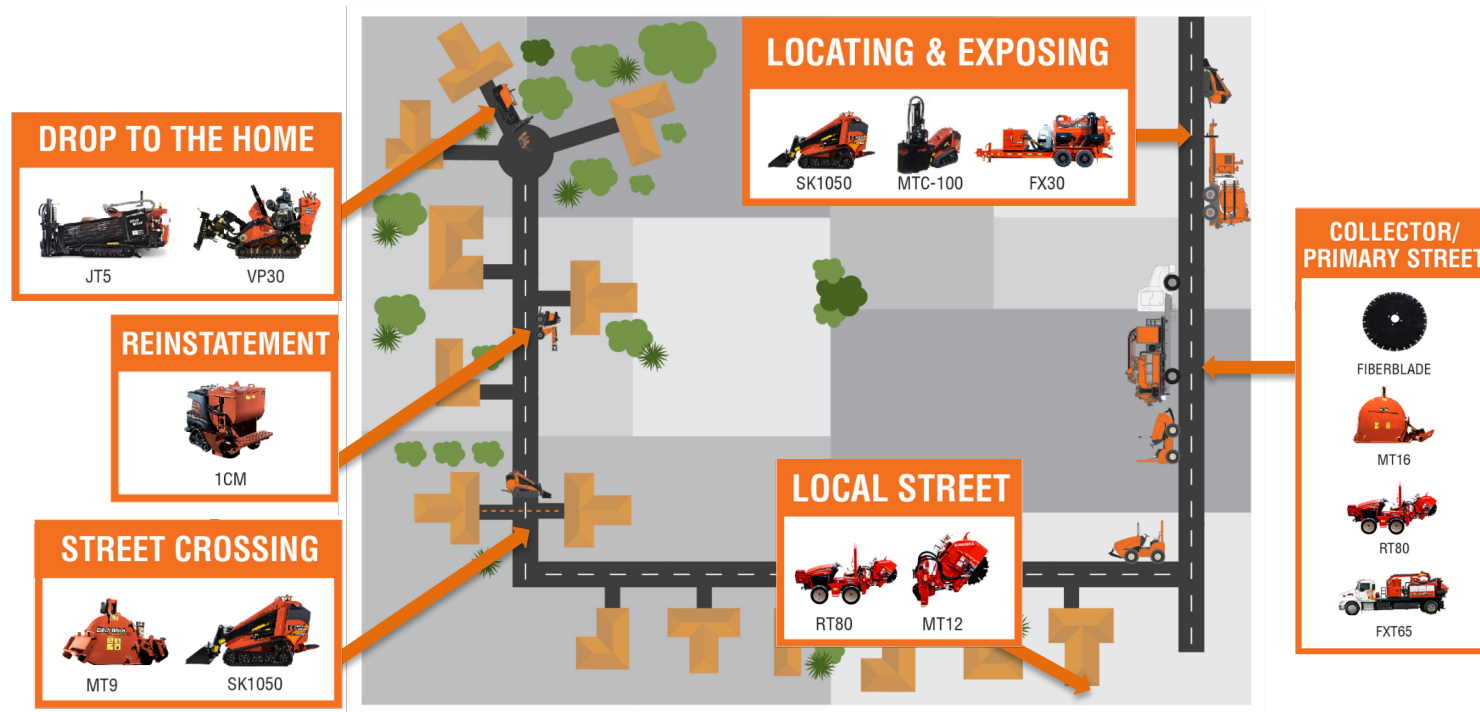


Microtrenching Requires A System!





MICROTRENCHING RESIDENTIAL AREAS





UTILITY LOCATION AND EXPOSURE





MAINLINE MICROTRENCHER

- Depth 0-40cm (0"-16")
- Width 10-50mm (0.375"- 2.0")
- Traversing offset
- Tilts & Swings
- Floating housing follows ground contour with constant pressure





RESIDENTIAL MICROTRENCHER



- Depth 0-40cm (0-12")
- Width 10-40mm (.375"-1.50")
- Tilts & Swings
- Traversing offset
- Standard or High-Speed Motor options



SIDEWALK OR BEHIND-THE-CURB



- Extended offset



VACUUM EXCAVATOR

- Used for pre-job “potholing” and to remove microtrencher spoils during cutting process
- 29m³/minute (1000 ft³/min) recommended
- 3000 L (800 gal) recommended
- Cyclonic filter required
- Use of a vac is always recommended





CONCRETE MIXER

- Auger driven mixer
- 380L (100 gal or ½ yard) mixing tank
- Mix, fill and level in one pass
- Hydraulic hopper
- Adjustable vibrating chute
- Any flowable fill





JOB PHOTOS: AUSTIN, TEXAS





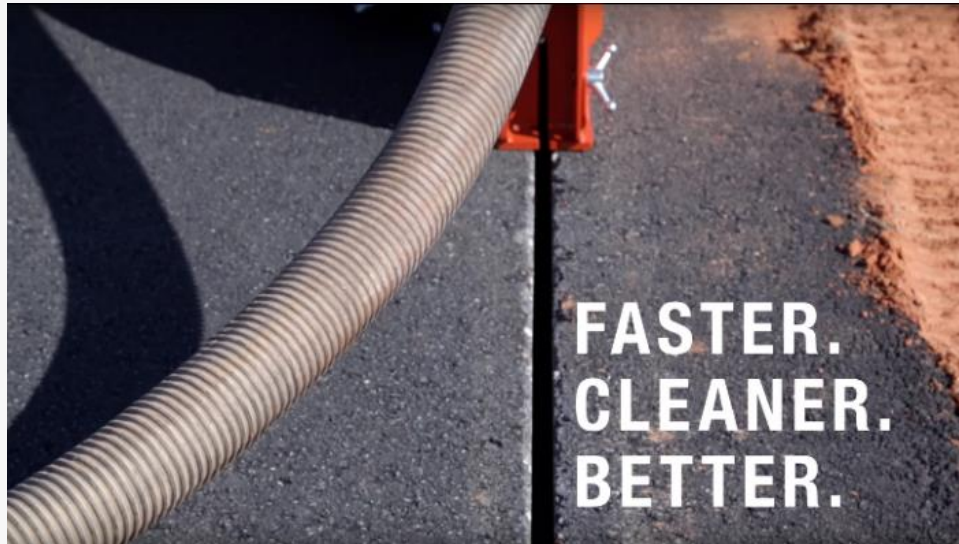
RESULTS





MICROTRENCHING TODAY

- Currently educating versus traditional methods
- Gaining acceptance by DOT's and municipalities





SUMMARY

Questions ?





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