



Midwest

DAMAGE PREVENTION TRAINING CONFERENCE

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Tips and Tricks for Advanced Locating

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Data trending reveals troubling increases.

Damages per 1,000 transmissions to 811

+9.34%*

Damages per construction spending

+12.35%*

*Change between 2021 and 2022; based on comparable dataset.

More than half a trillion dollars allocated to new infrastructure over next 5 years.

Every 6 minutes

an underground utility line is damaged because someone decided to dig without first calling 811.

811

VAC-TRON
EQUIPMENT

The top six root causes continue to make up nearly 76% of all damages:

1. No notification to 811
2. Not marked due to locator error
3. Failed to maintain clearance
4. Marked inaccurately due to locator error
5. Improper excavation practice
6. Failed to verify by potholing



213,792 reported damages in 2022



Over \$2 Billion in damages annually



Average major league baseball player earns \$4.5 million per year.

Average salary \$180 million/team.



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Tips and Tricks for Advanced Locating Summary

1. History of Locating
2. Theory of Locating – Peak vs. Null
3. Amps, Volts, Ohms and Frequency
4. Steps to Locating – Ground, Amps, Scan, Pinpoint, Trace
5. How to get a good signal
6. How to get a good ground
7. Transmitter features including:
 - 90 Volts
 - Battery usage
 - Wattage vs Signal
8. Transmitter and Ground Stake placement to direct the signal
9. Receiver features including:
 - Current Direction
 - Power Harmonics
 - Self-test
 - e-Calibration
 - Depth Accuracy
 - Antenna Modes



Tips and Tricks for Advanced Locating Summary

10. Tips to care for your equipment
11. Amps
 - Current Measurement vs Current Signal
 - Depth vs Current Signal
12. Locating Methods – Passive and Active
13. Tips using Induction
14. Scan the Area
15. Pinpoint Target Line
16. Trace the Target Line

