



**WHY USE SEWER CAMERA TO  
PREVENT DAMAGES?**

## Jordan Partlow

- Quick Bio:
  - US Army Combat Engineer – 5 years
  - Pipeline Safety with Gas Company – 3 years
  - Private & Contract Locating – 22 years
  - Cubs Fan for life!



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## What we provide to help prevent damages and near misses

- Electromagnetic Locating (EM)
- Ground Penetrating Radar (GPR)
- Vacuum Excavating (Spot Holing)
- Sketch of utilities (GPS Technology Available)
- Other services – Concrete Scanning



Things may not be as they appear...



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- **Electromagnetic Locating (EM)**

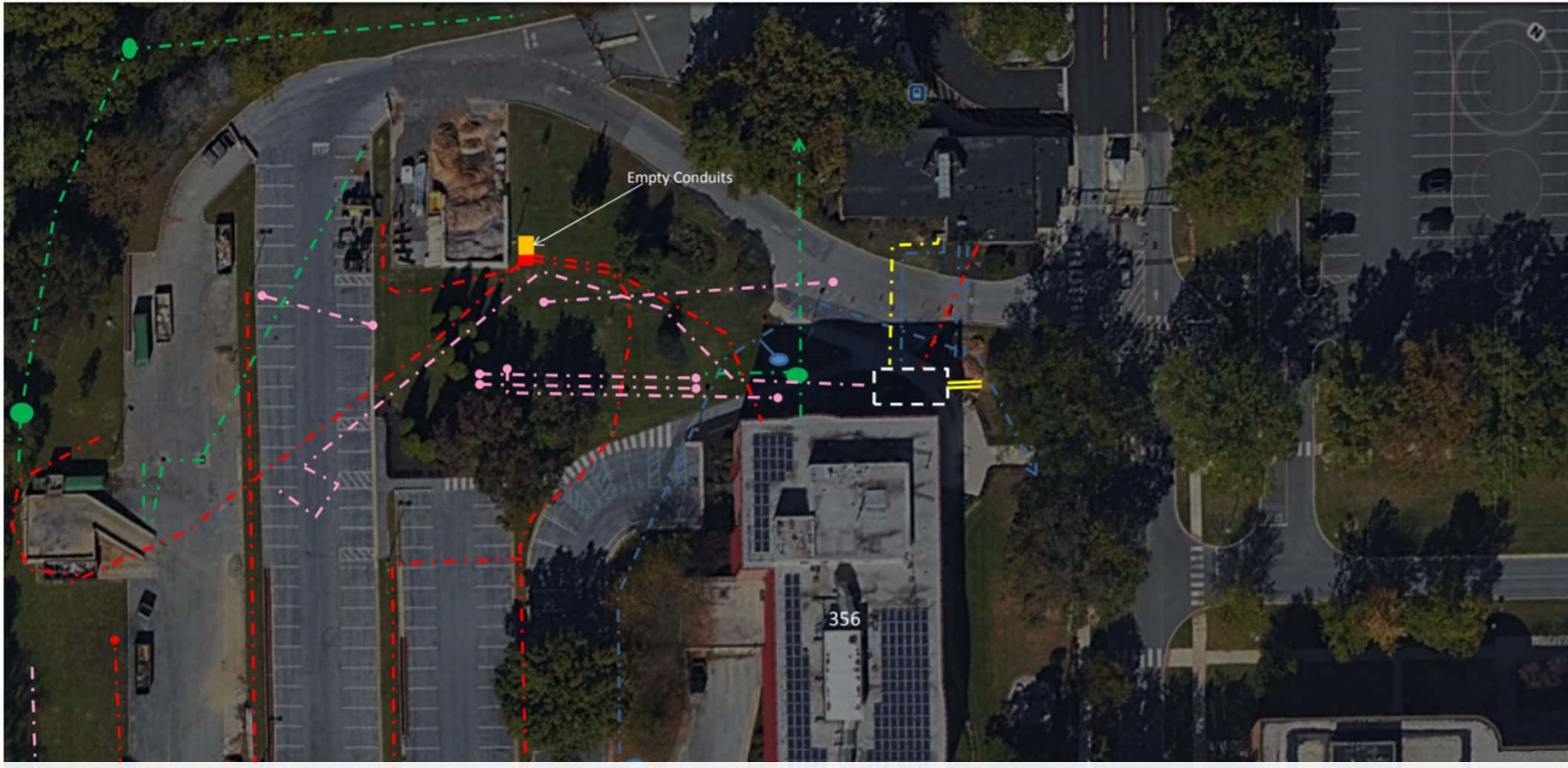


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# Ground Penetrating Radar (GPR)



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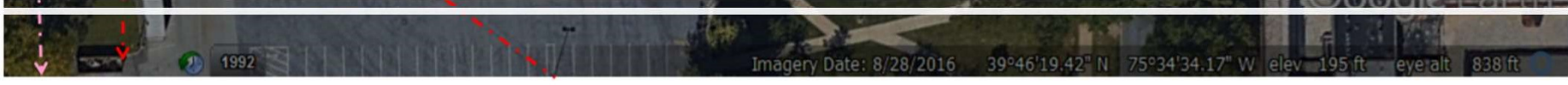
# Sketch



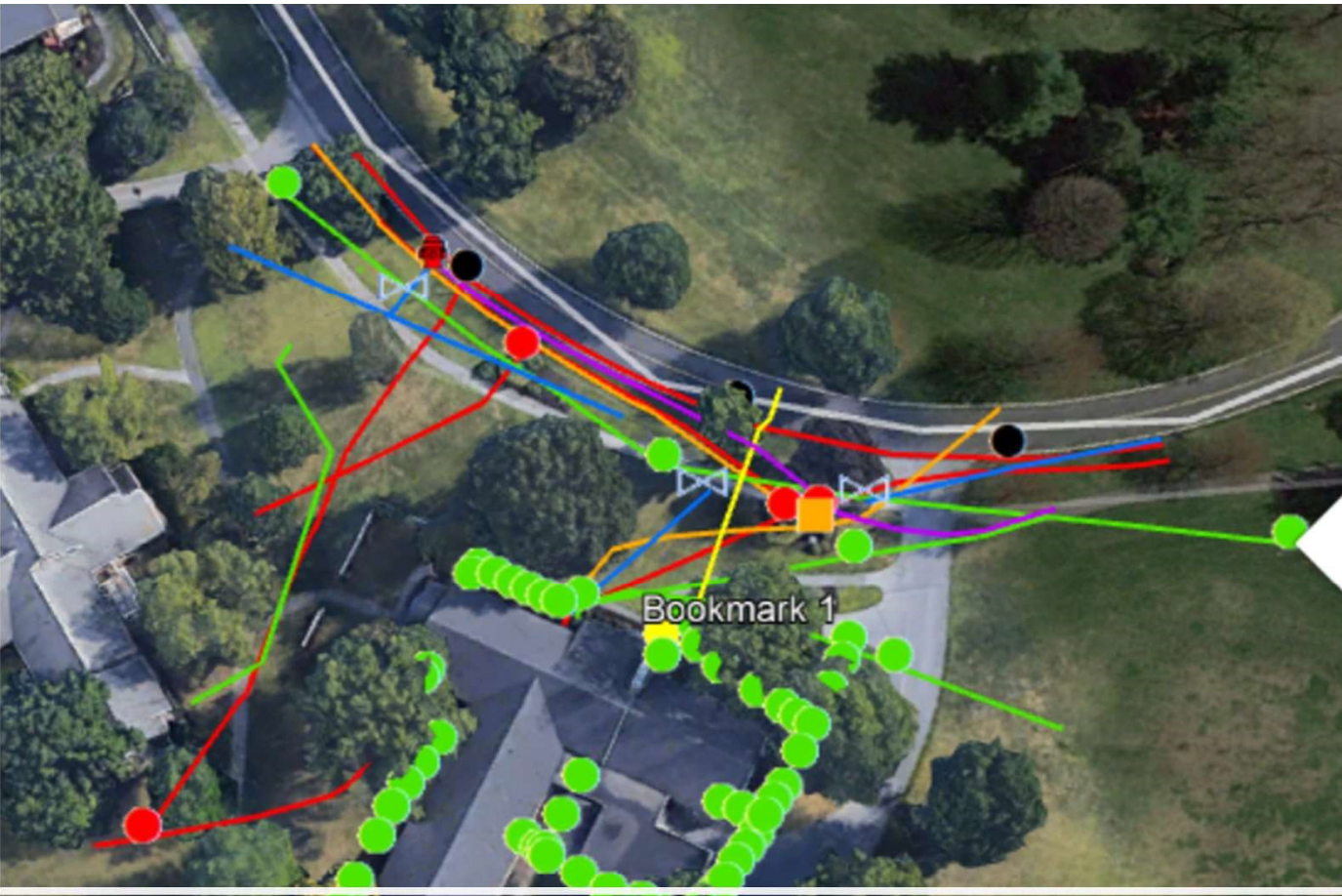
Brownsville, IN  
888-858-9830

This map is provided for information purposes only. The Contractor is responsible for locating all utilities prior to commencing site work. PULS, Inc. disclaims all liabilities for damage caused by the execution of site work.

Utilities Legend	
	Handhole
	Valve
	Meter
	Manhole
	Fire Hydrant
	Well
	Transformer
	Sanitary Clean-Out
	Grate Clean-out
	Manhole Inlet
	Survey Control Point
	Test Hole



Red - Electric



## GPS – Mapping

FID	0
Number_of_	2
Depth_of_S	
Comment	
Picture	
Max_PDOP	1.9
Max_HDOP	1
Corr_Type	L1L2 Postprocessed Carrier Float
Rcvr_Type	Geo 7X (H-Star)
GPS_Date	6/12/2019
GPS_Time	03:44:52am
Update_Sta	New
Feat_Name	Sanitary
Datafile	143763 MILTON HERSHE
Unfilt_Pos	7
Filt_Pos	7
Data_Dicti	Blood Hound
GPS_Week	2057
GPS_Second	312309
GNSS_Heigh	279.079
Vert_Prec	0.1
Horz_Prec	0.1
Std_Dev	0.018673
Northing	343523.661
Easting	2280462.226
Point_ID	18
Offset	



# Vacuum Excavating (Spotting The Utilities)



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750 Patrick Place  
Brownsburg Indiana 46112  
888-858-9830

# Utility Spotting Information

## Utility Test Hole Report

Order Number:	151645
Name:	Dupont Powder Mill Rd
	KBR
	Old 331 Dupont-Powder Mill Rd
	08/22/19
	JH, BM.

Test Hole Number:	PH8
Utility(s) Requested:	12" CWR
Utility(s) Found:	12" CWR
Material Type:	Ductile Iron
Size of Pipe(s):	12"
Pavement Type:	Soil
Pavement Thickness:	n/a

### Backfill

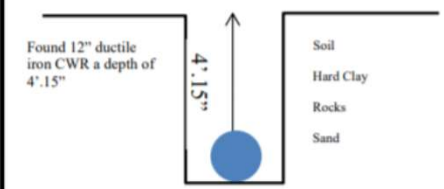
Backfill with native soil.

Clay

marker was set

### Cross-Section View of Test Hole

Existing Grade Depth at Top of Utility: 4'.15"



### Site Diagram / Location Details



# Concrete Scanning

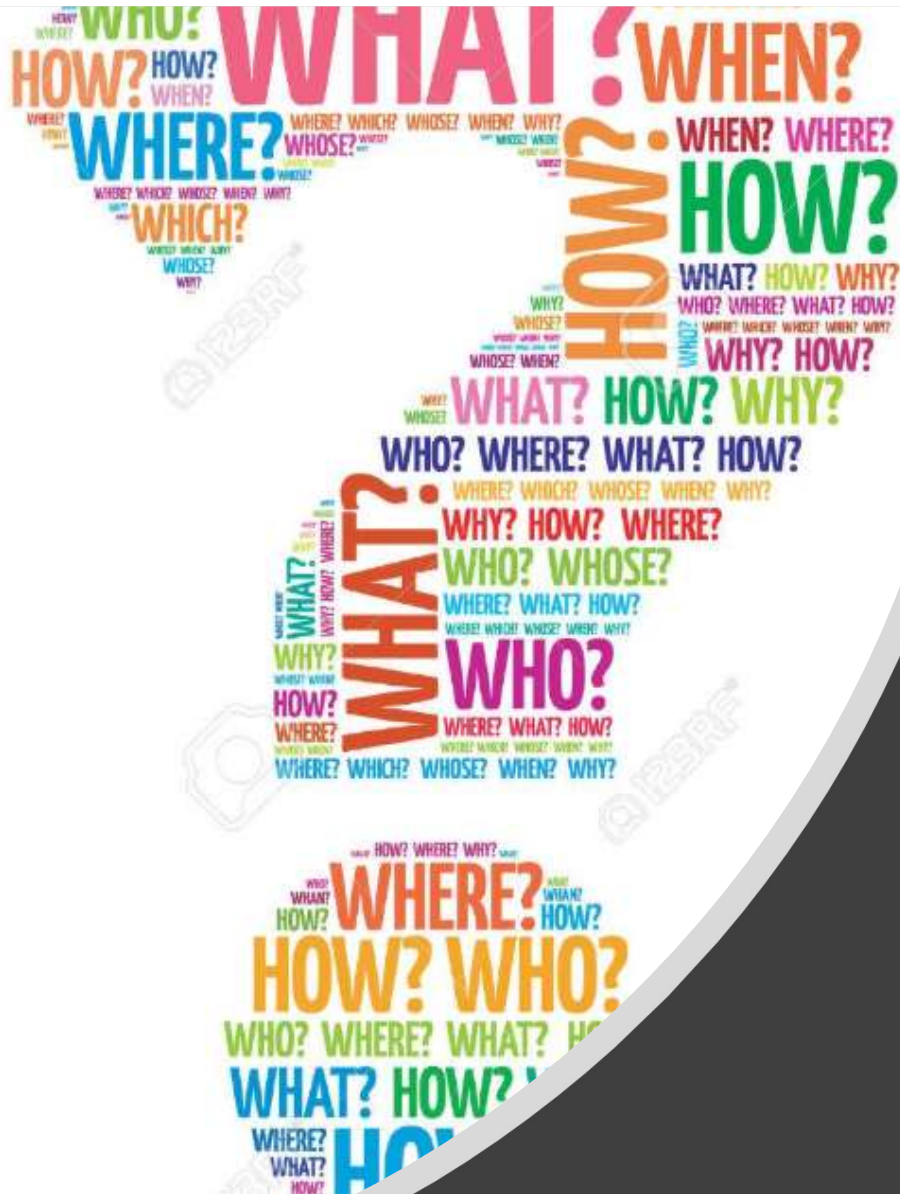


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# Reduce Risk!!

- If I gave you a map to a buried treasure with detailed information to it's location and Captain Jack Sparrow only had his compass and a bottle of rum, who finds the treasure in a safer way??
- Who wins when these details provided to the excavator in the field?
  - Excavator – He is more productive, no more hunting and pecking
  - Engineer – Less of a chance for scope changes
  - Local operations – Better project management
  - Community – Less chance of incident





Questions?