

Utility Engineering

The Subsurface Experts

Presented by: Laurie LeBlanc, C. Tech.

Agenda

What is a Utility Engineer?

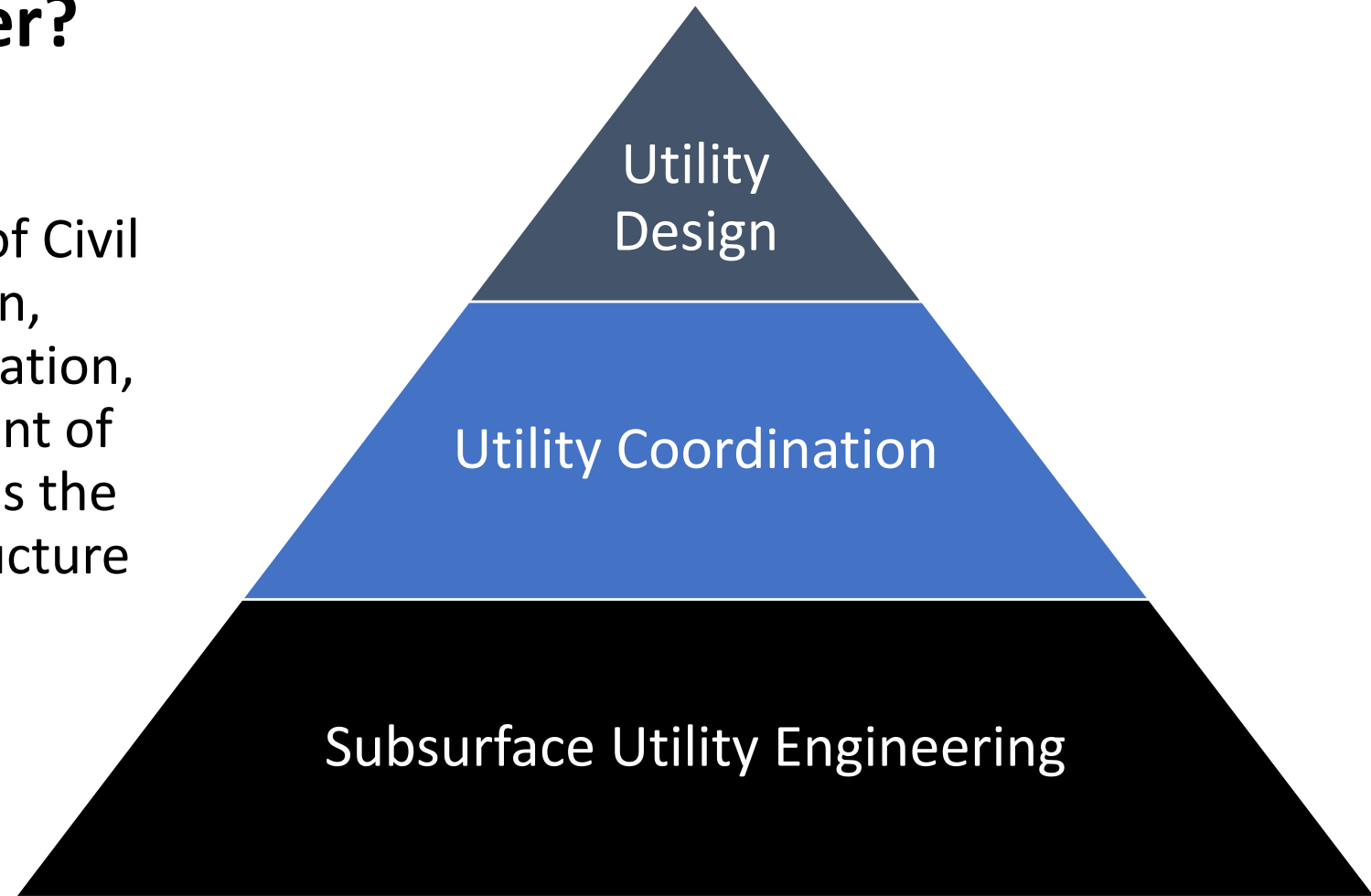
Alternative Problems and
Solutions faced by the Utility
Engineer

Conclusion



What is a Utility Engineer?

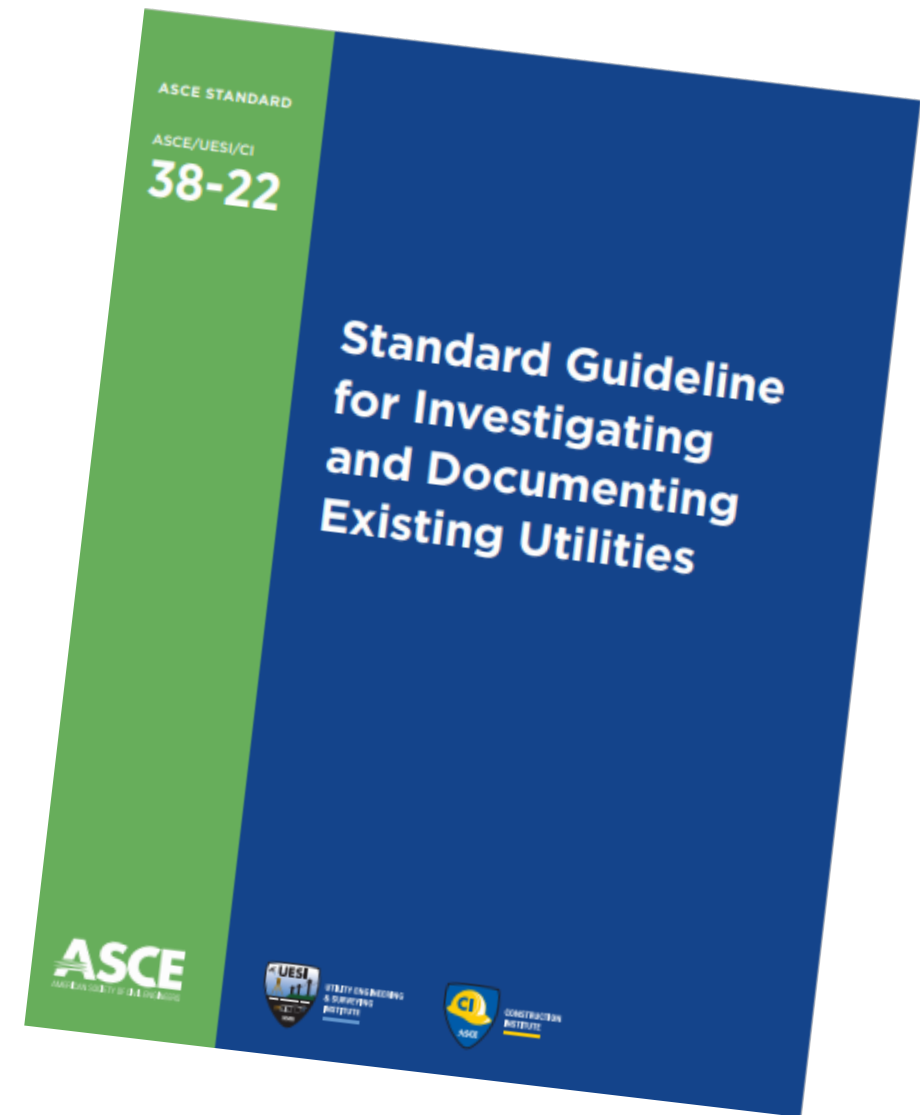
Utility Engineering (UE): A branch of Civil Engineering that focuses on the plan, position, design, construction, operation, maintenance, and asset management of any and all Utility systems, as well as the interaction between utility infrastructure and other civil infrastructure.



What is a Utility Engineer?

Subsurface Utility Engineering (SUE):

The specialty practice of Civil Engineering's Utility Engineering branch that includes the investigation, analysis, judgment, and documentation of existing Utility networks.



What is a Utility Engineer?

Utility Coordination (UC):

Utility coordination is the process of coordinating the planning, design, and construction of infrastructure projects with the existing utility systems in the area. This involves identifying and addressing potential conflicts between the proposed project and existing utility systems, and ensuring that the project does not negatively impact the functioning of those systems.



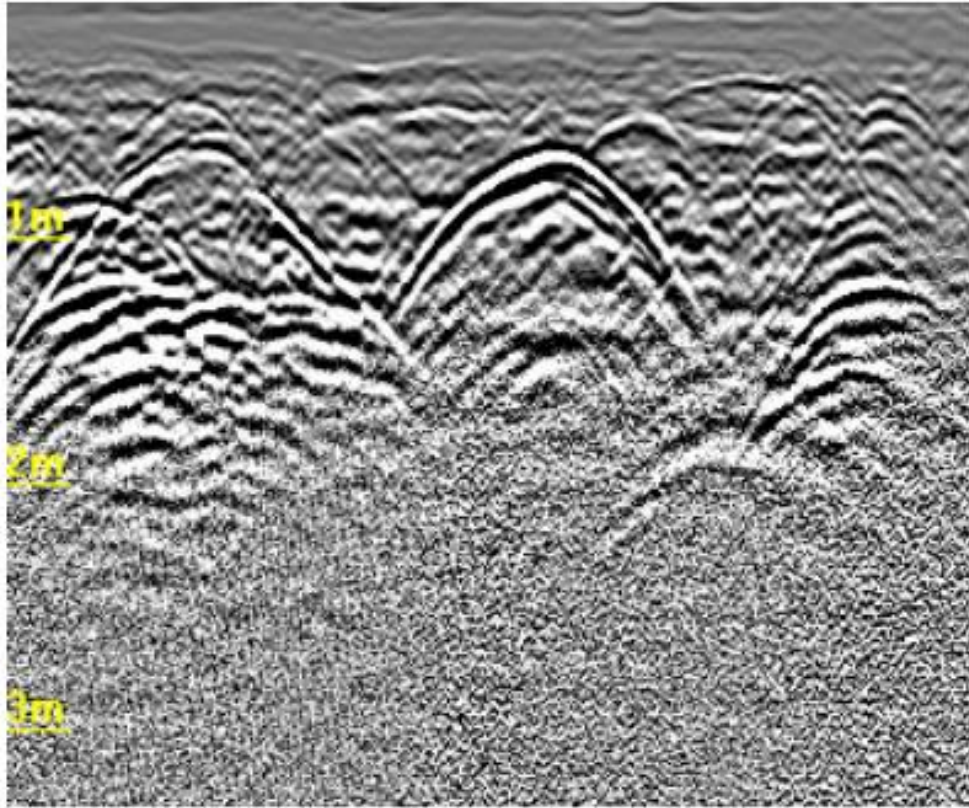
What is a Utility Engineer?

Utility Design:

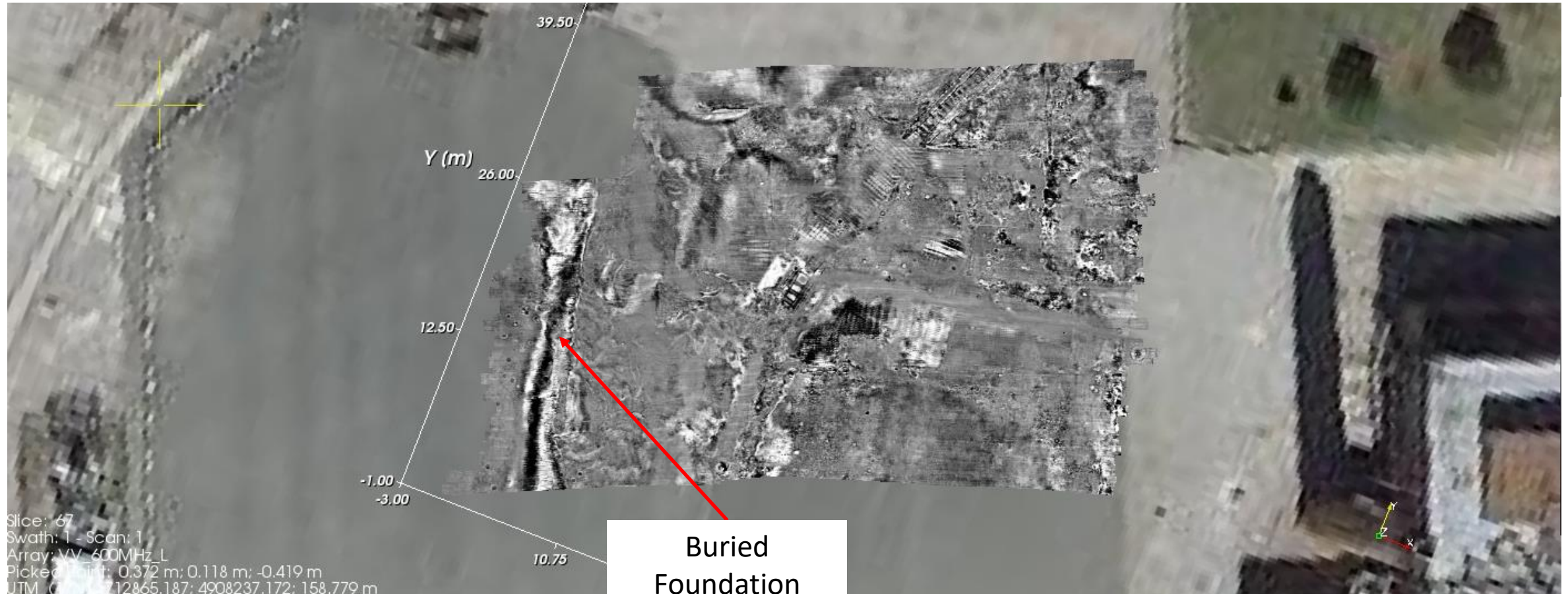
Utility design is the process of designing the infrastructure that provides services such as telecommunications, electricity, water, and gas. This includes the design of the systems and equipment that are needed to distribute these services to customers, as well as the design of the facilities and structures that are used to generate and store these services.



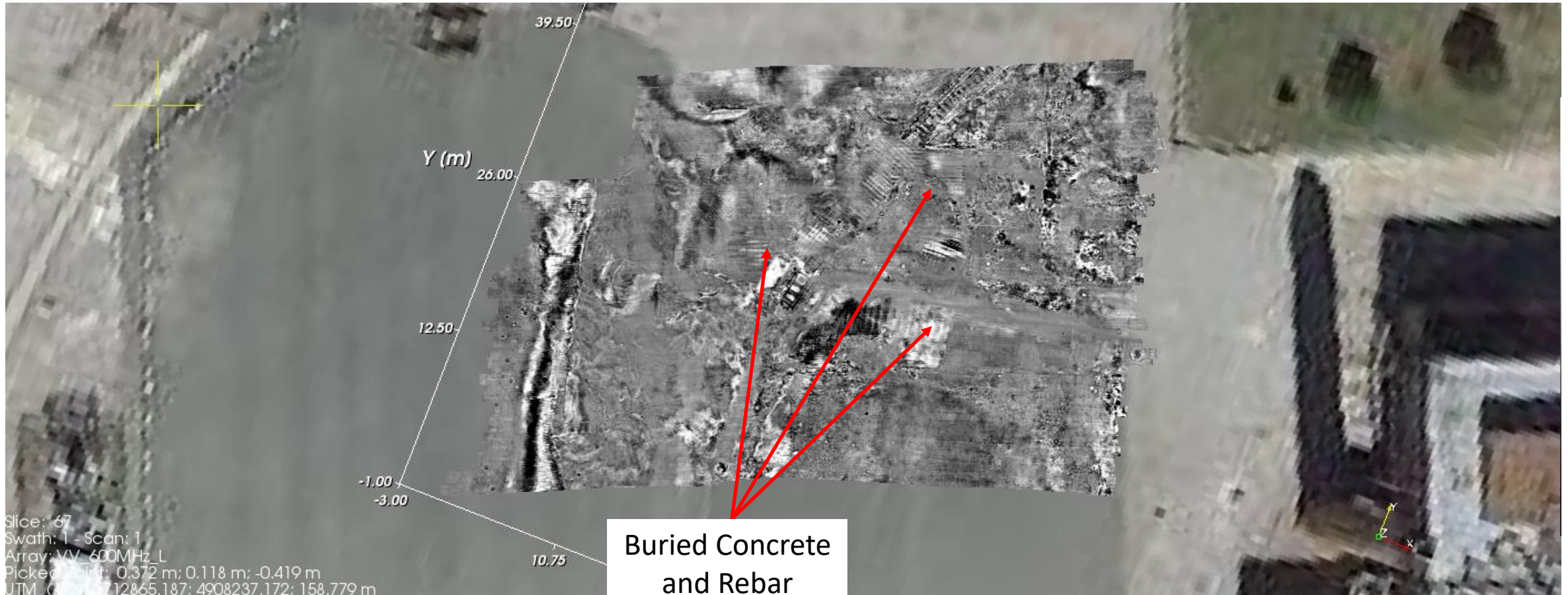
The Curse of Oak Island



Foundations and Buried Debris



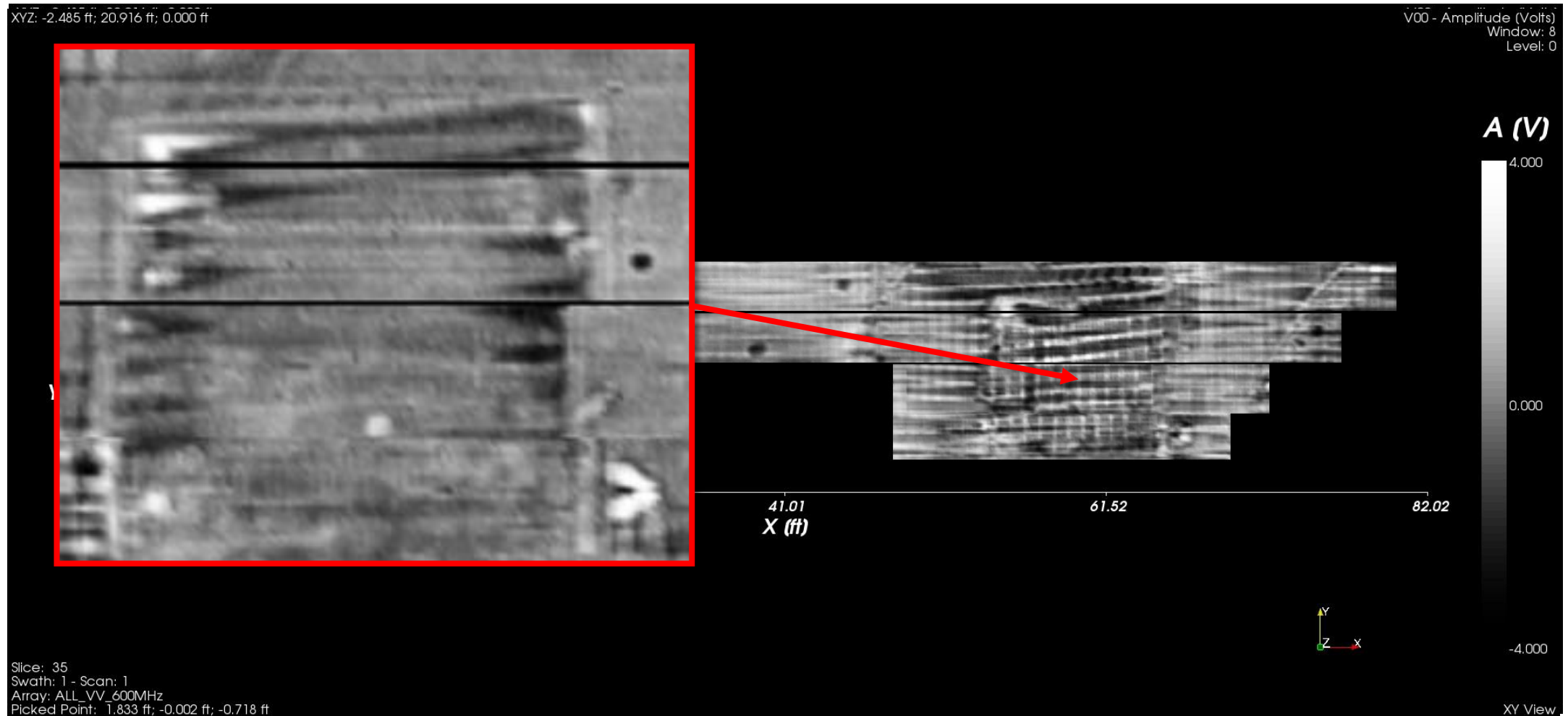
Foundations and Buried Debris



Foundations and Buried Debris



Basements



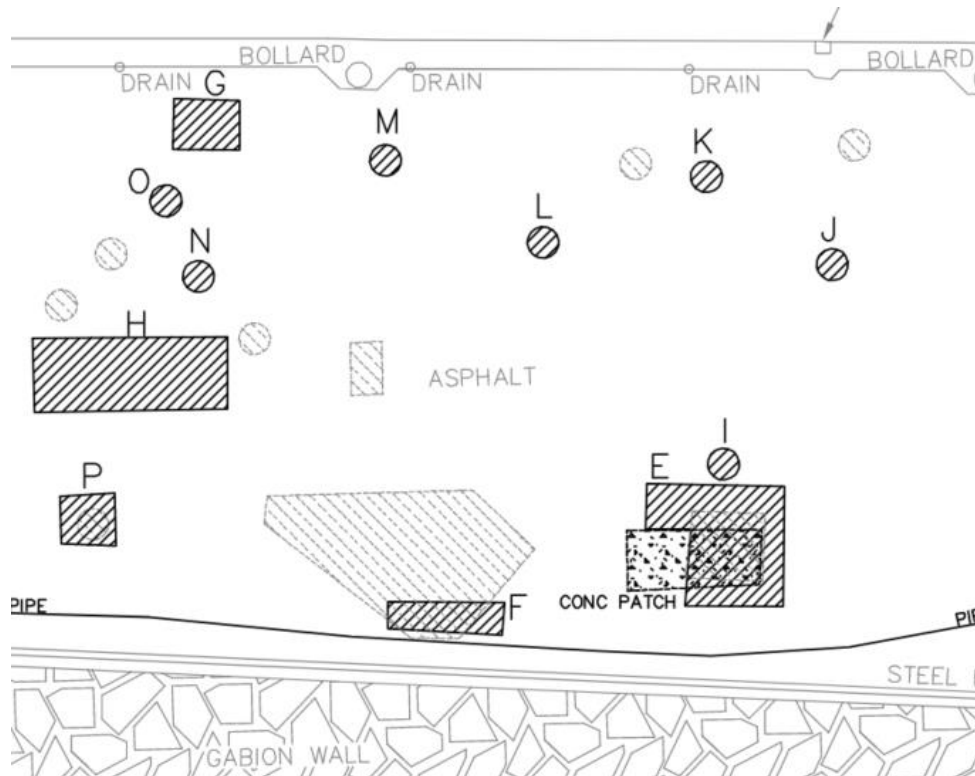
Basements



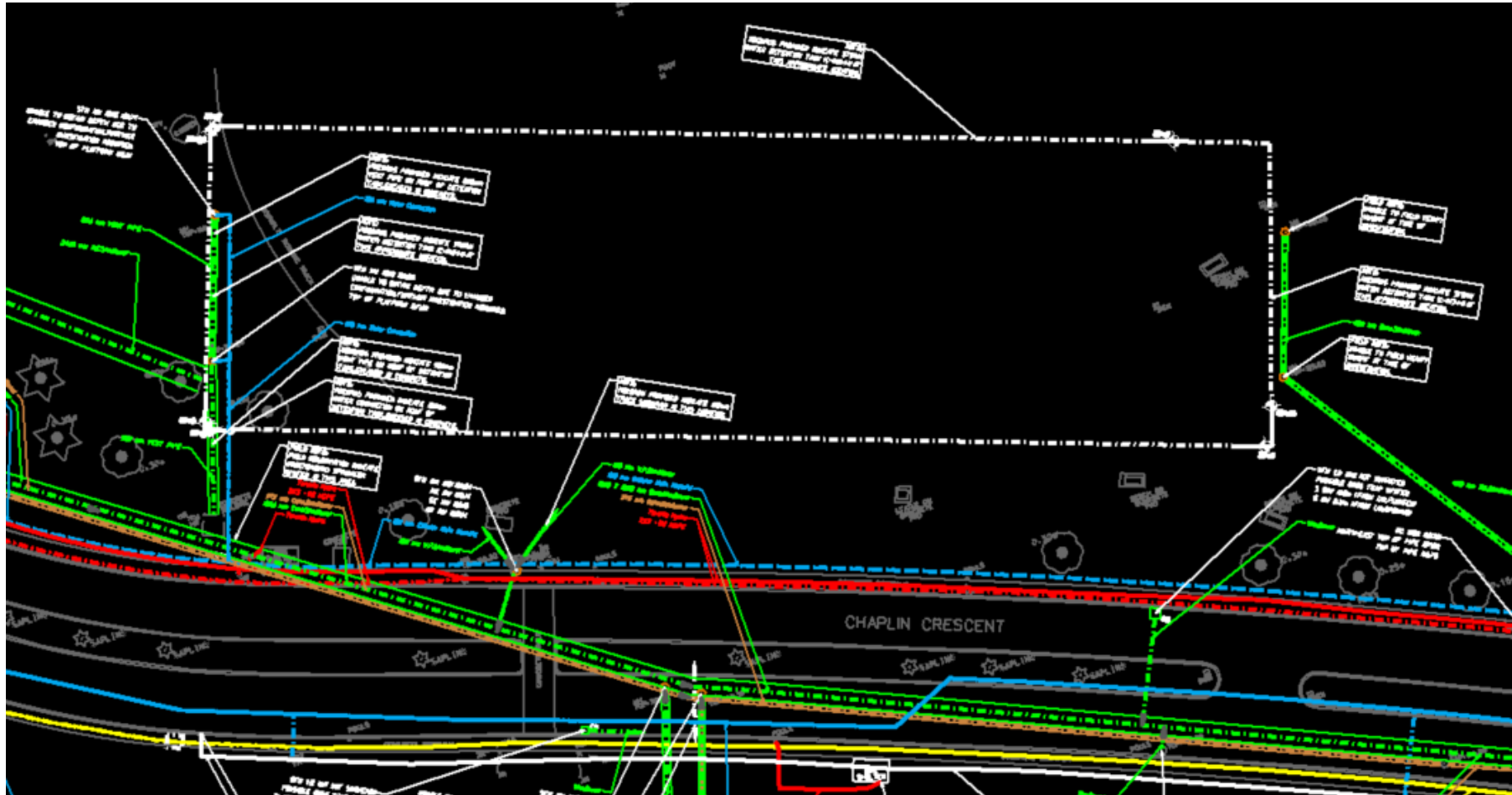
Basements



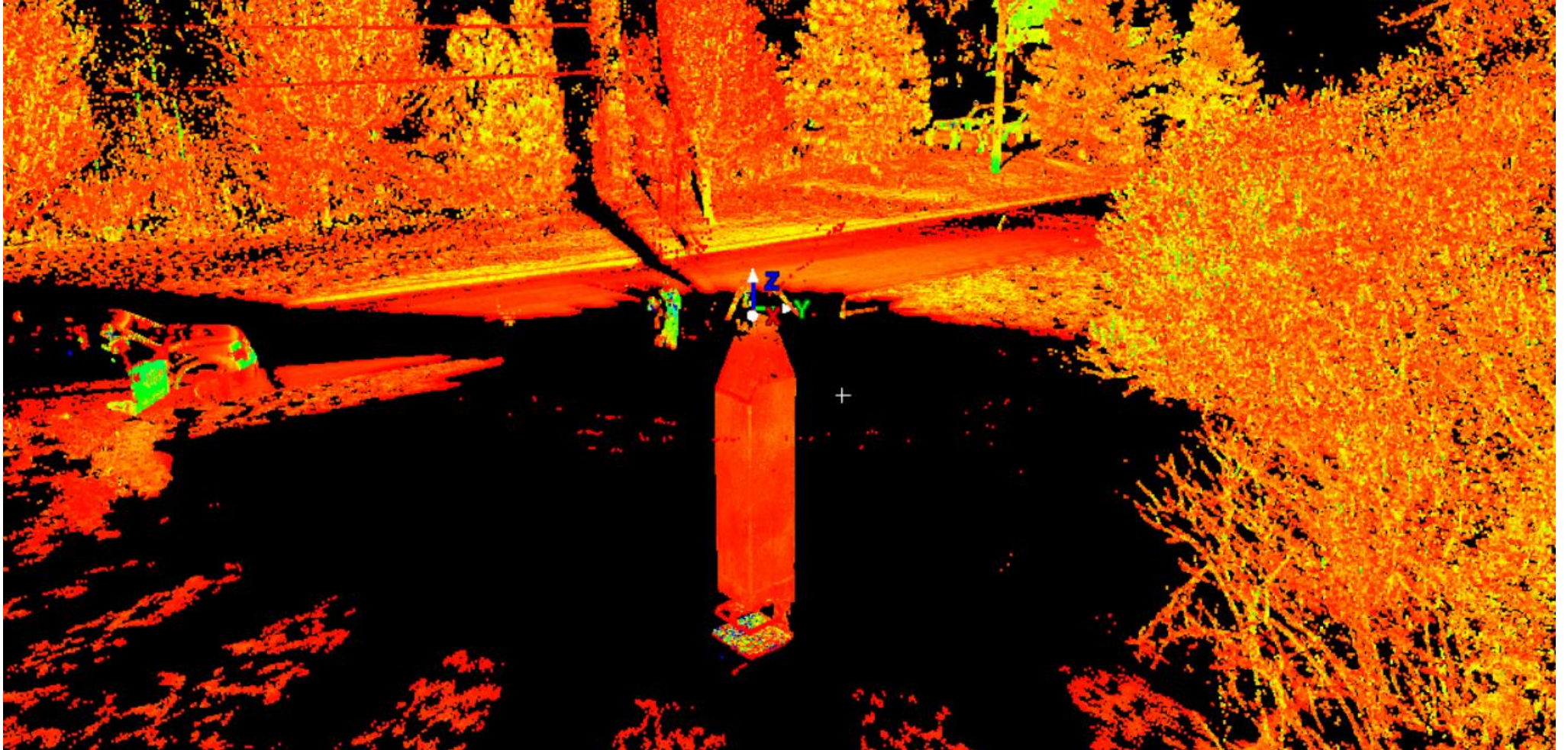
Sink Holes and Voids



Underground Storage Tanks



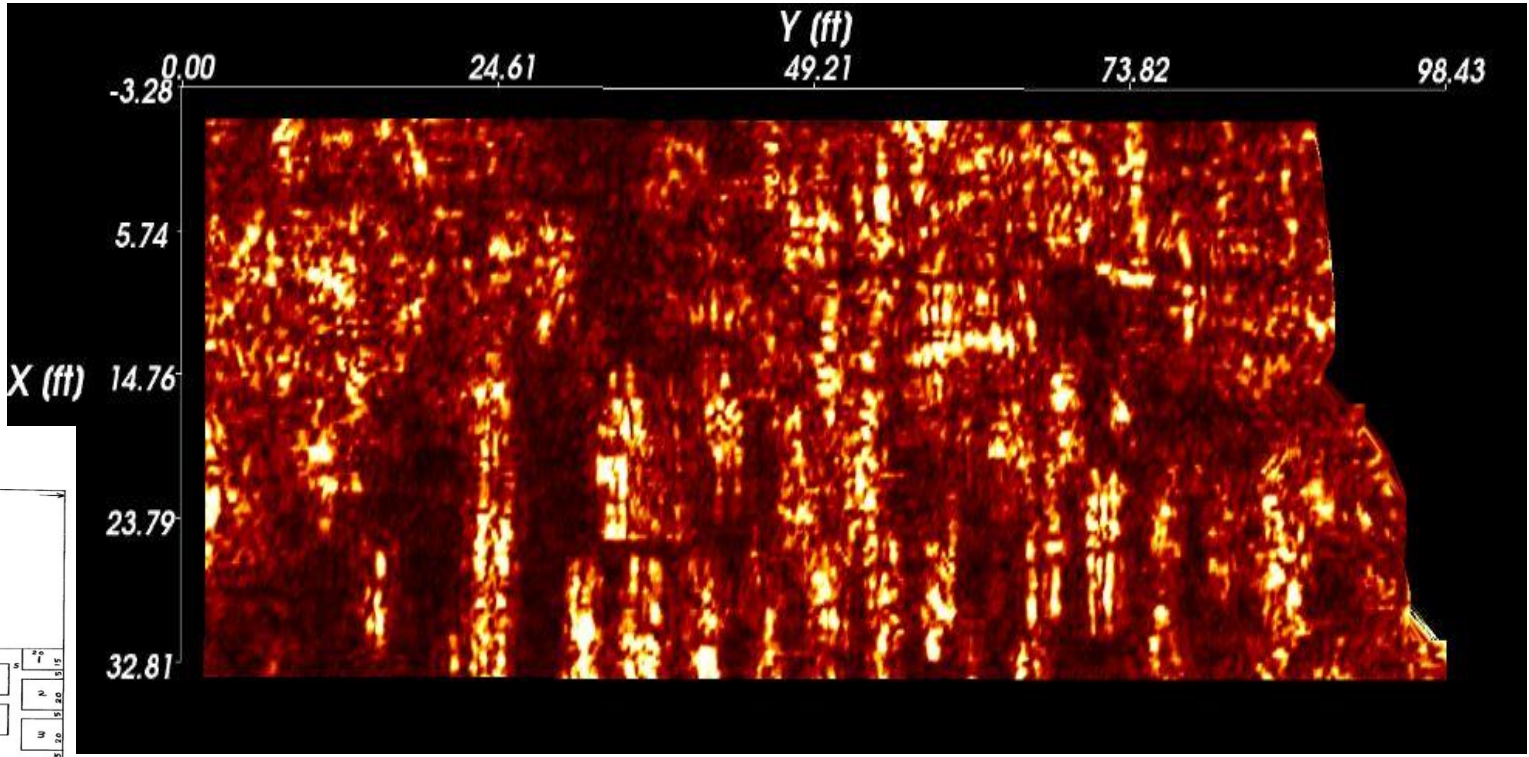
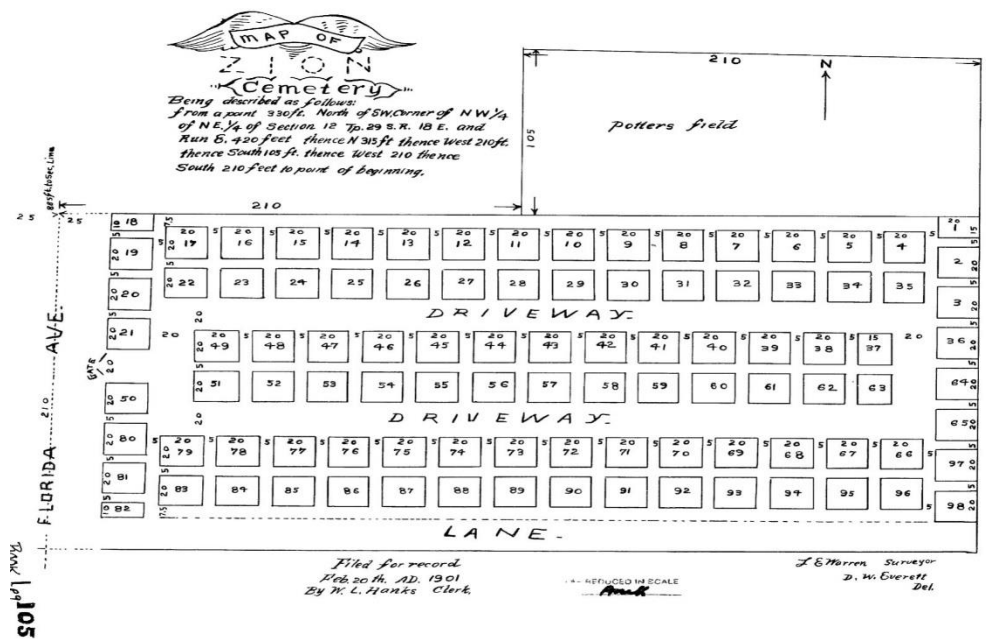
Underground Storage Tanks



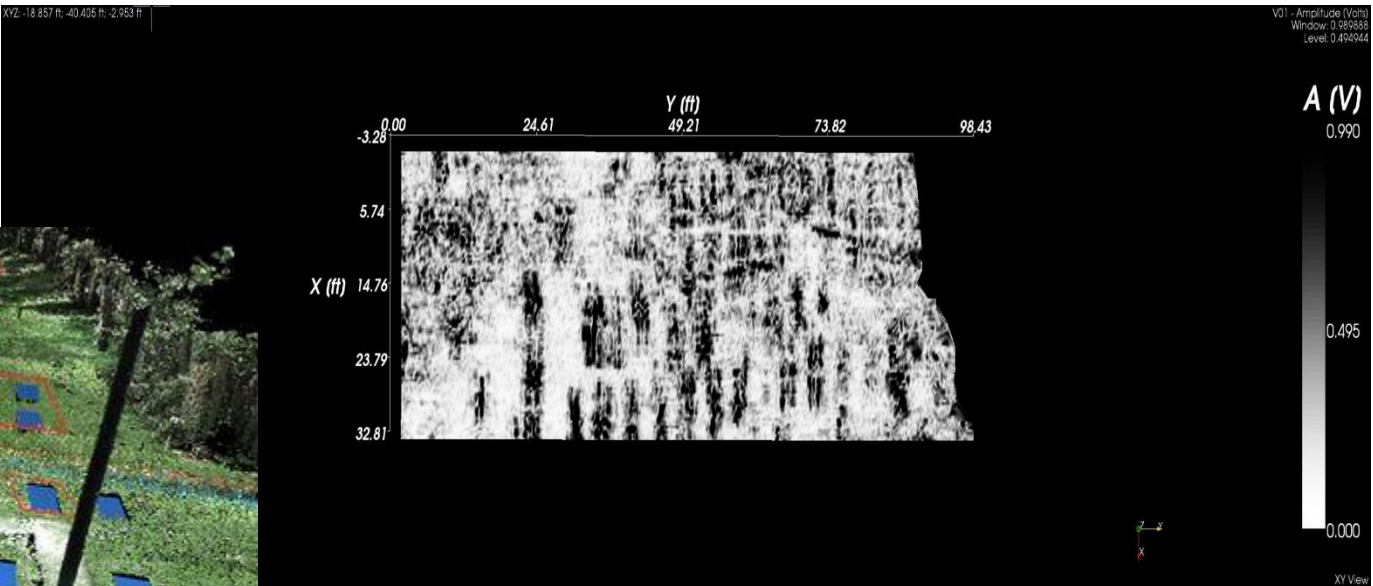
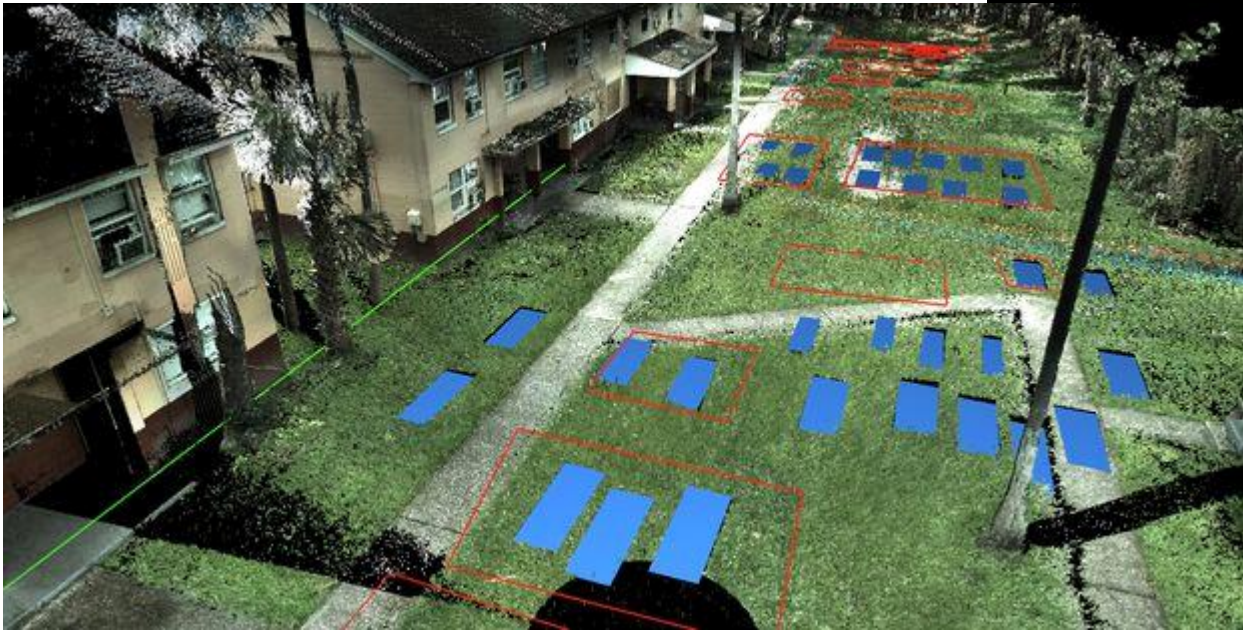
Cemetery Mapping



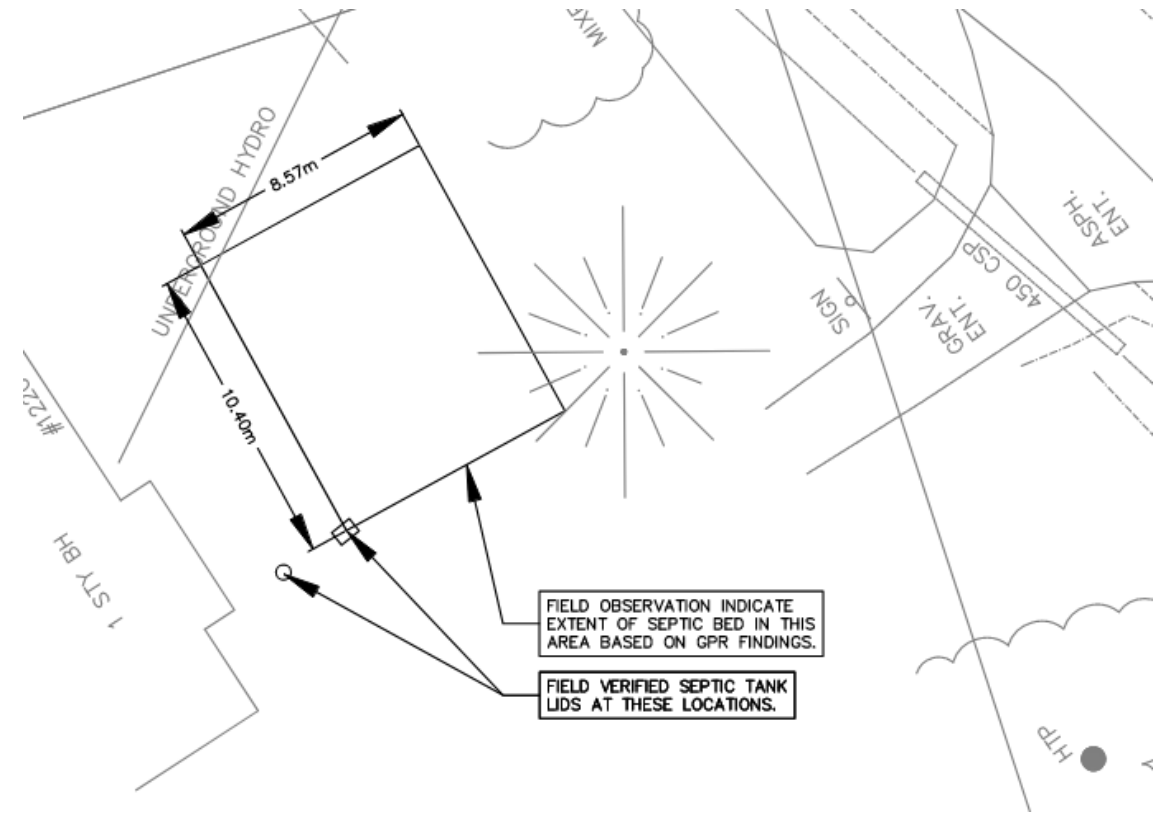
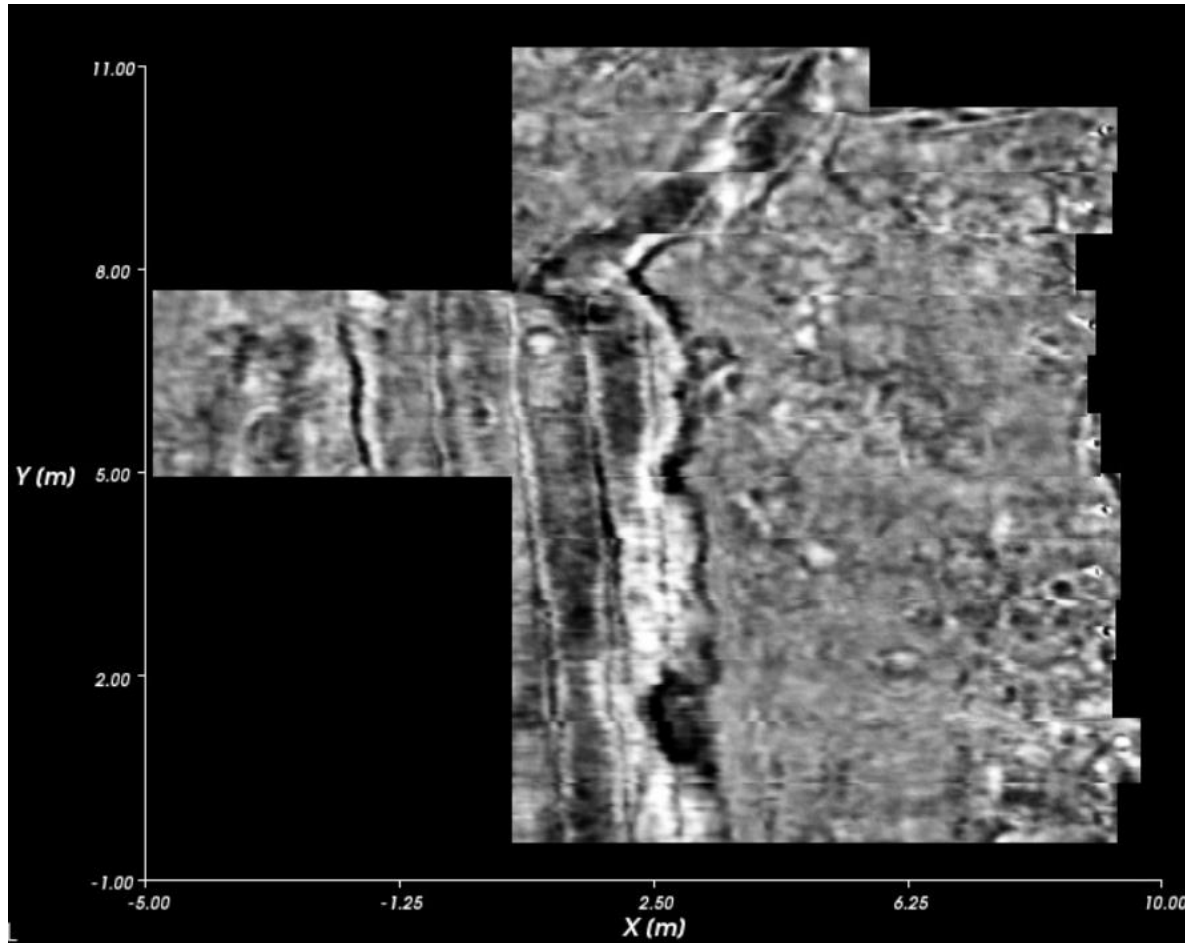
Cemetery Mapping



Cemetery Mapping



Septic Mapping



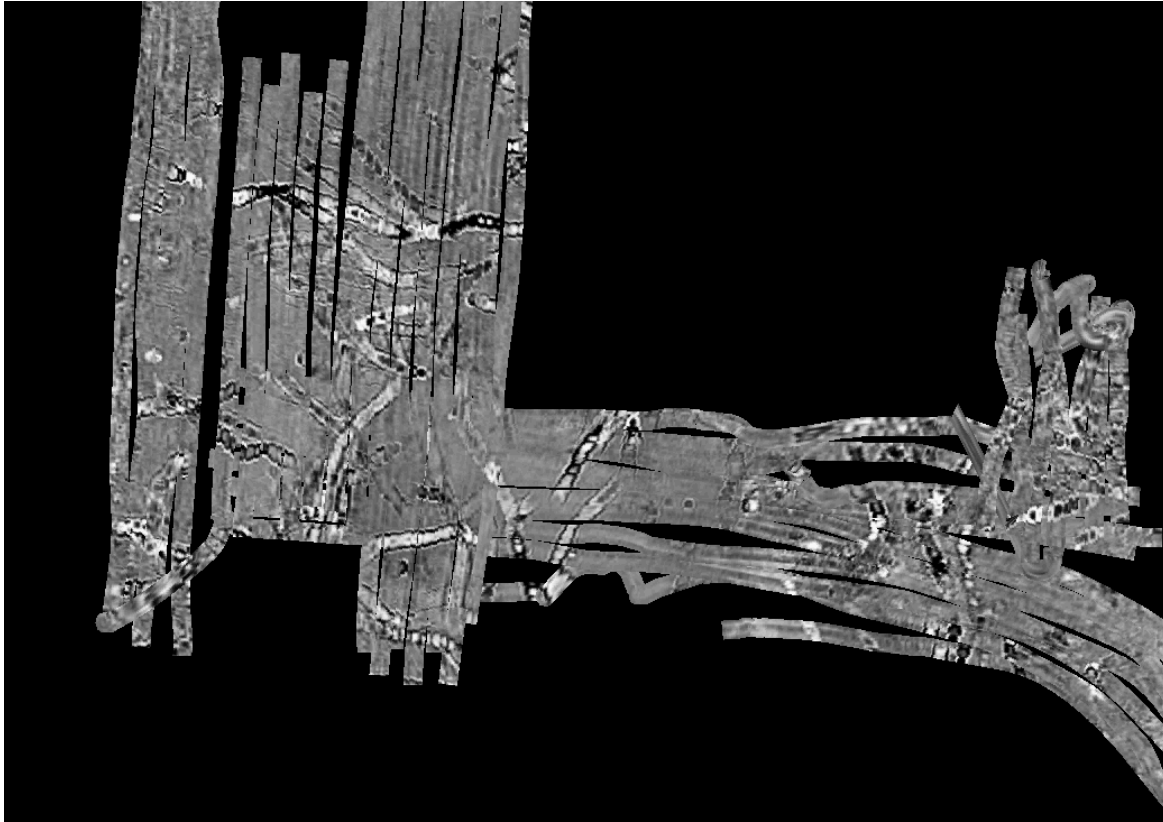
Abandoned Train Tracks



CCTV



Preserving Urban Trees



QUESTION AND ANSWER

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Utility Engineering the Subsurface Experts
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