NORTH CAROLINA
Department of Transportation

GeoEnvironmental Phase II Tips

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Geo^{3}T^2 April, 9, 2019 Cary, NC

"Begin With The End in Mind"

Franklin Covey

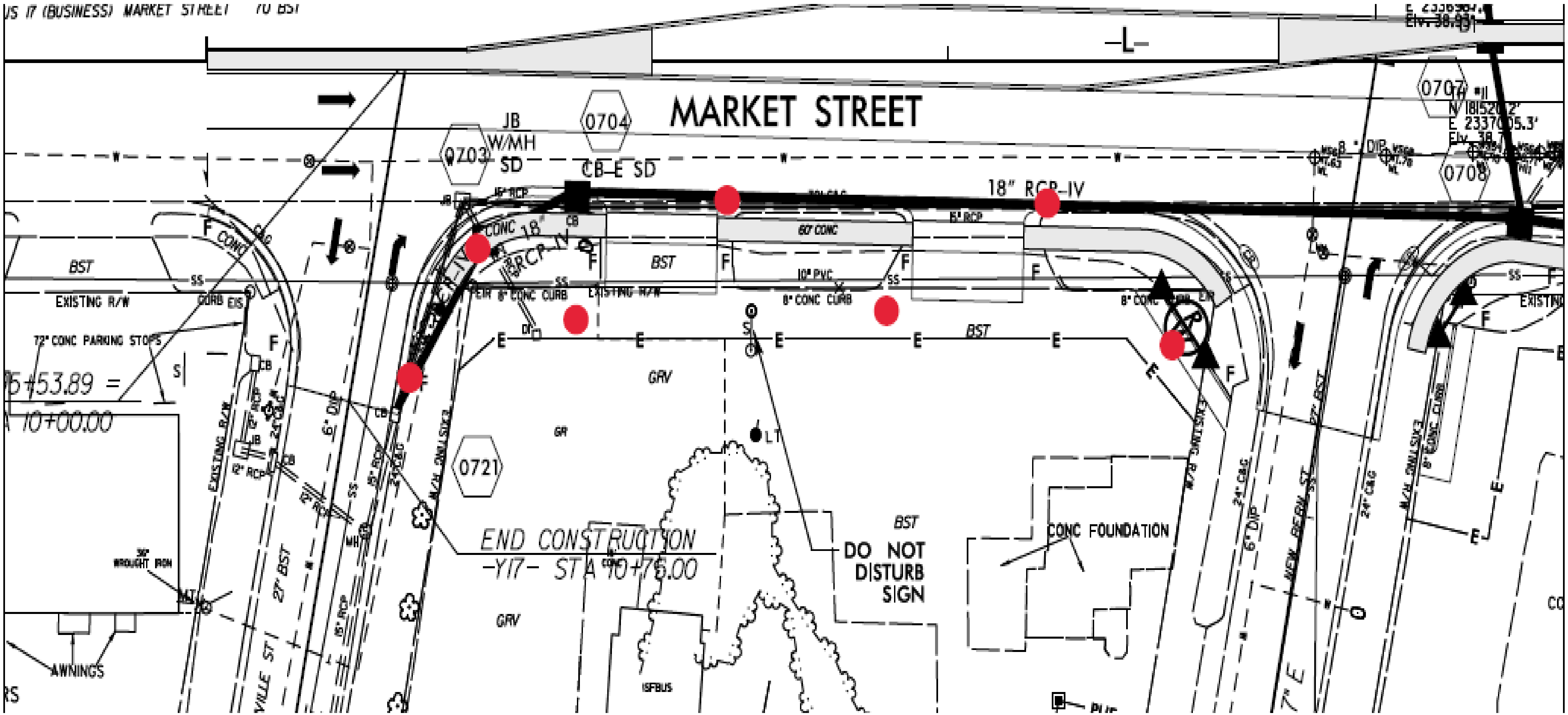
- Design your investigations to answer these questions
  - What risks are we acquiring?
  - What is in conflict with the project?
  - What will the contractors encounter during each phase of construction?

"Begin With The End in Mind"

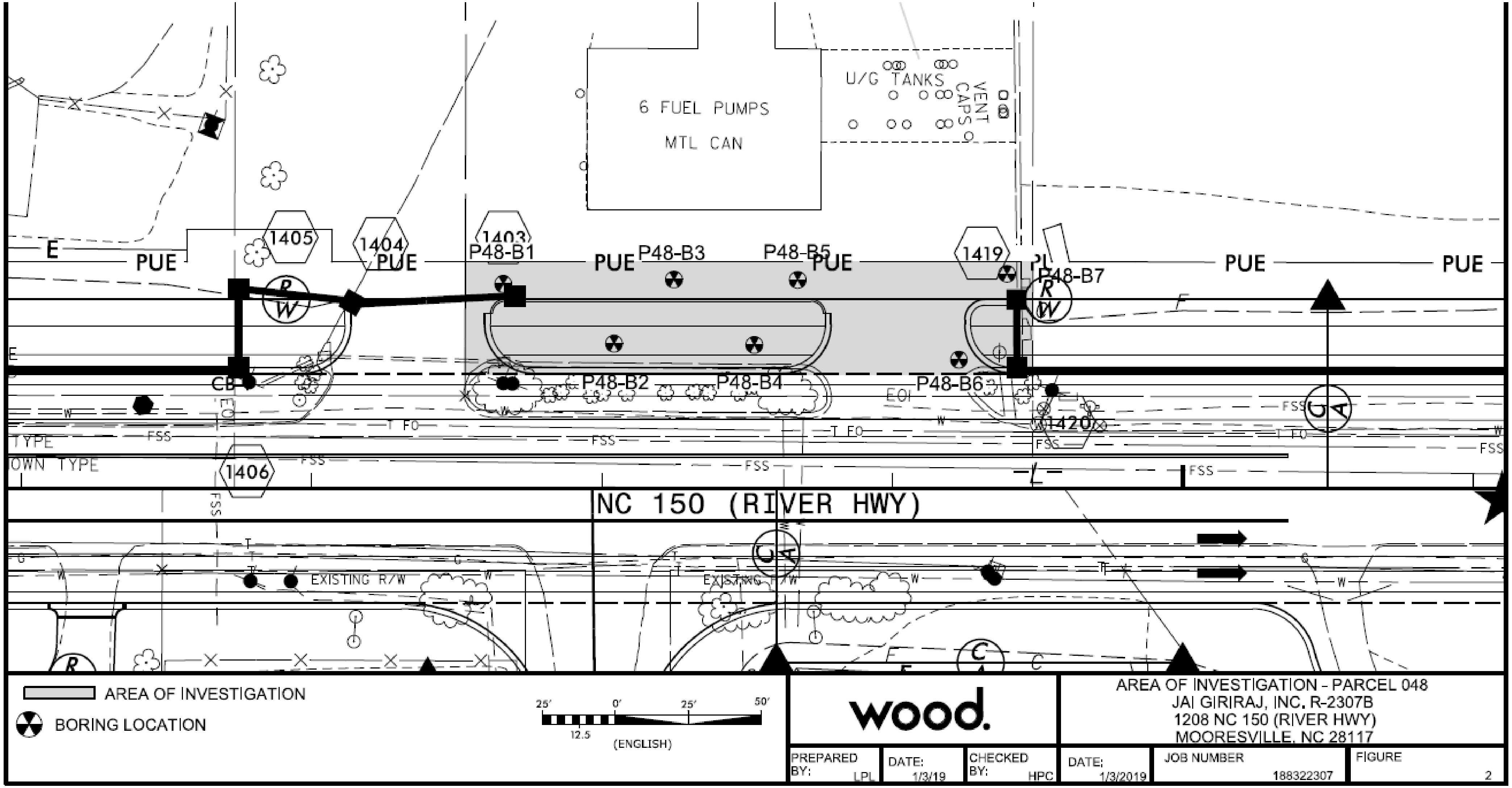
Franklin Covey

- Understand the Right of Way
- Understand the Design
- **Coordinate with the Project Manager**

Discuss Your Plan



Borings within the Study Area



Notes on Bore Logs

Mid Atlantic Engineering & Environmental Solutions
409 Rogers View Ct.
Raleigh NC 27610
Ph: (919) 250-9918

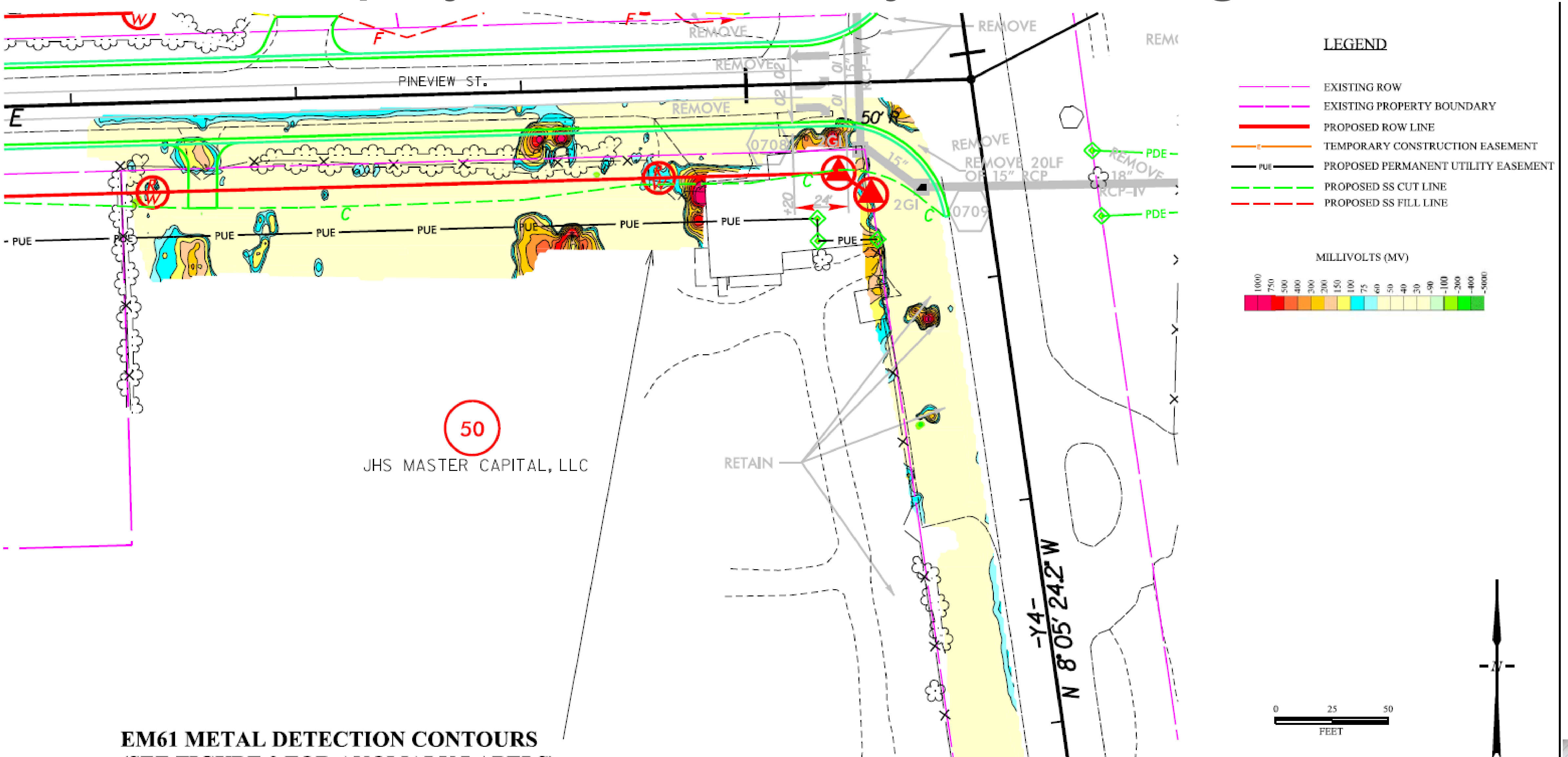
LOG OF BORING: SB-P143-3

Page: 1 of 1

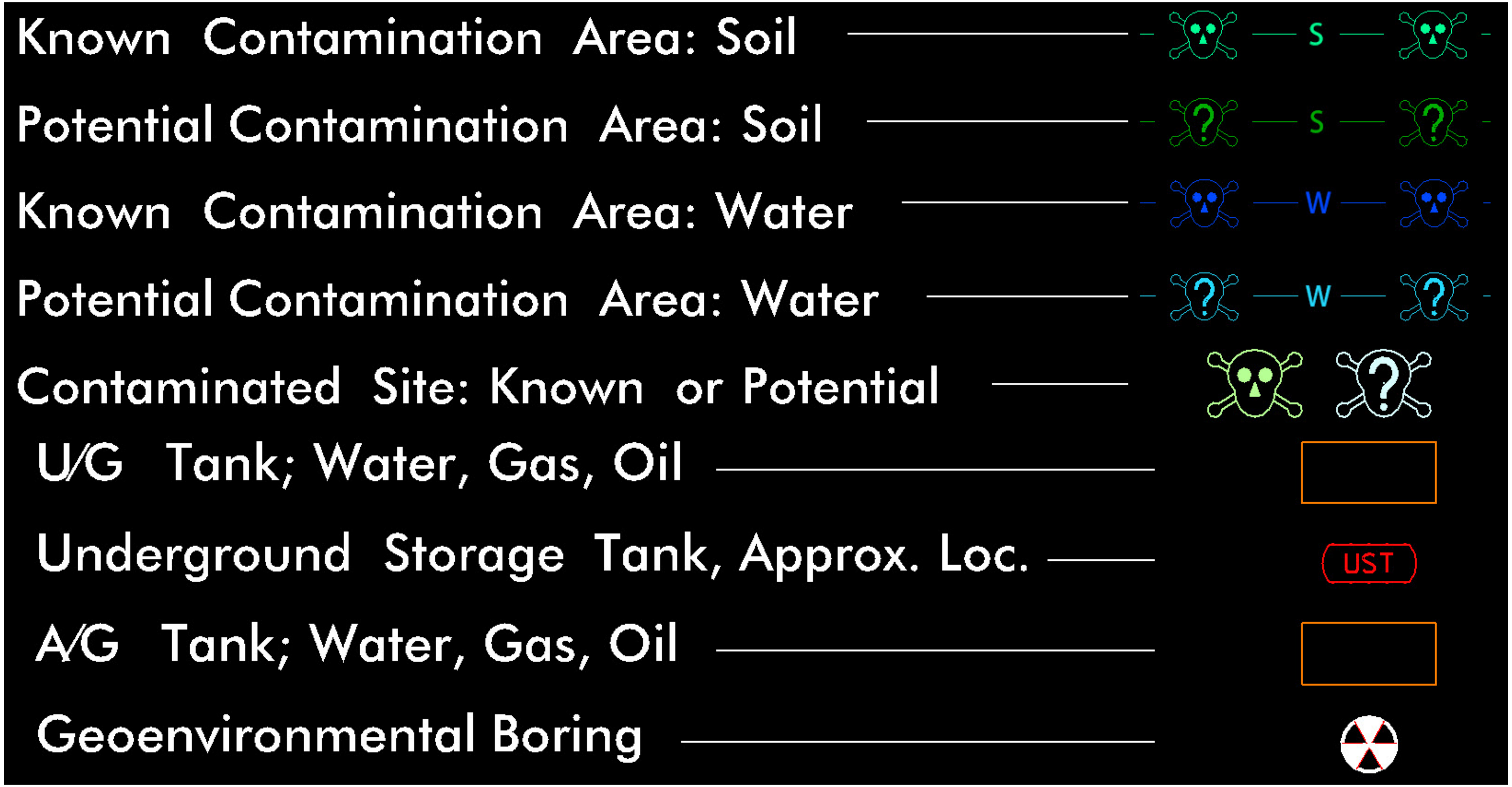
Site Name:	NCDOT U-5729 PSA	Drilling/Boring Method:	Geoprobe	Total Boring Depth (ft):	5
Project Number:	000R3287.00	Sampling Method:	Macrocore	Well Depth (ft):	N/A
Location:	Wilmington NC	Subcontractor/Drillers:	Quantex, Inc.	Screen Depth (ft):	N/A
Date Started:	1/16/2019	Driller :	James Barker	DTW (ft):	N/A
Date Completed:	1/16/2019	Monitoring Equipment:	RKI GX6000 PID	MAA Field Staff:	Gary Fischer

ft-bgs	Sampling Interval, Odors	PID (ppm)	Sample to Laboratory	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction Details	ft-bgs
	None	0.2	Yes	Light brown silty very fine SAND with gravel		
2	Slight Odor	0.4		Light brown very fine SAND	▼	2
4		1.6				4
				Boring Terminated at 5 ft-bgs		

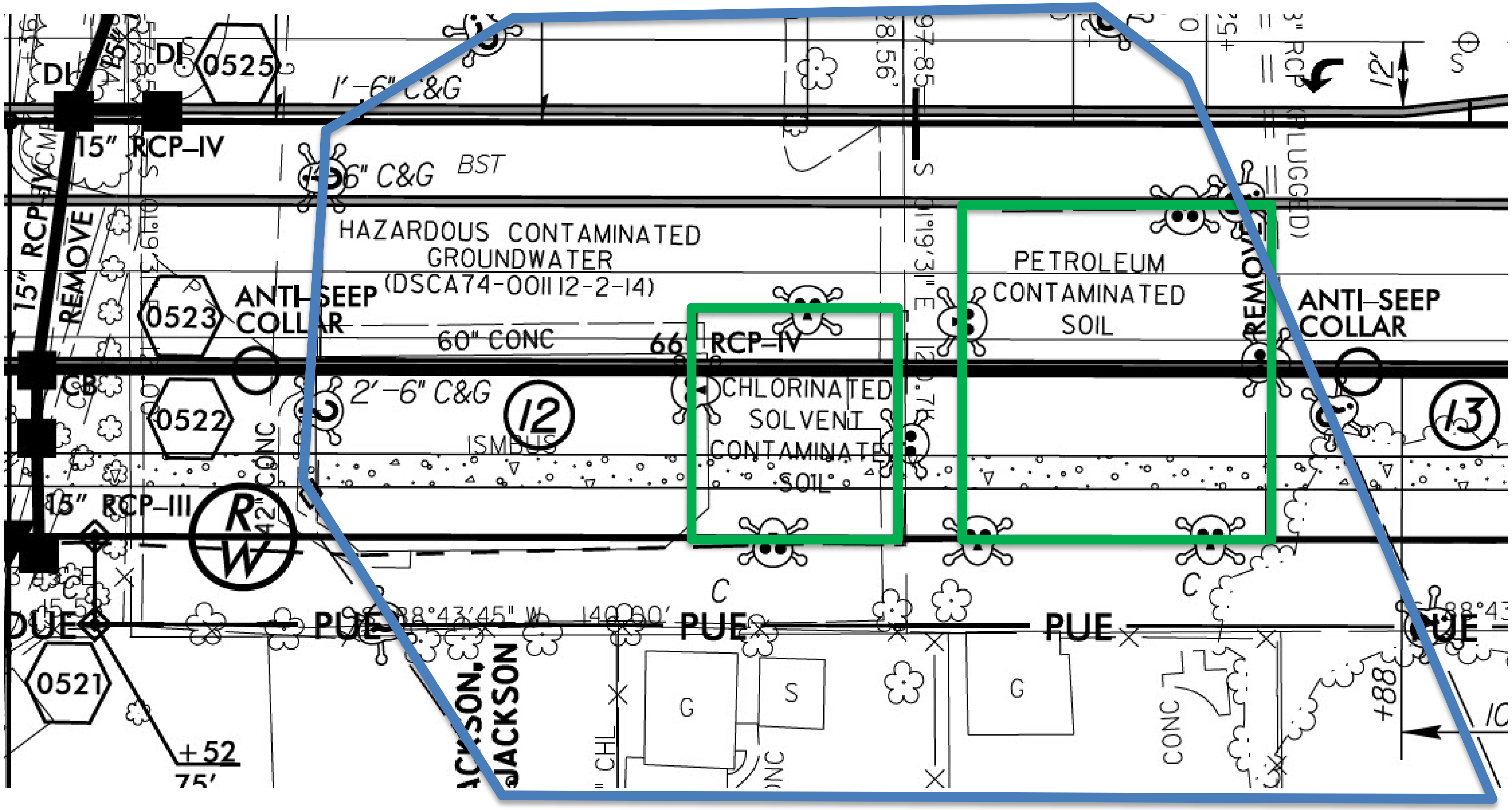
Geophysical Overlay on Design



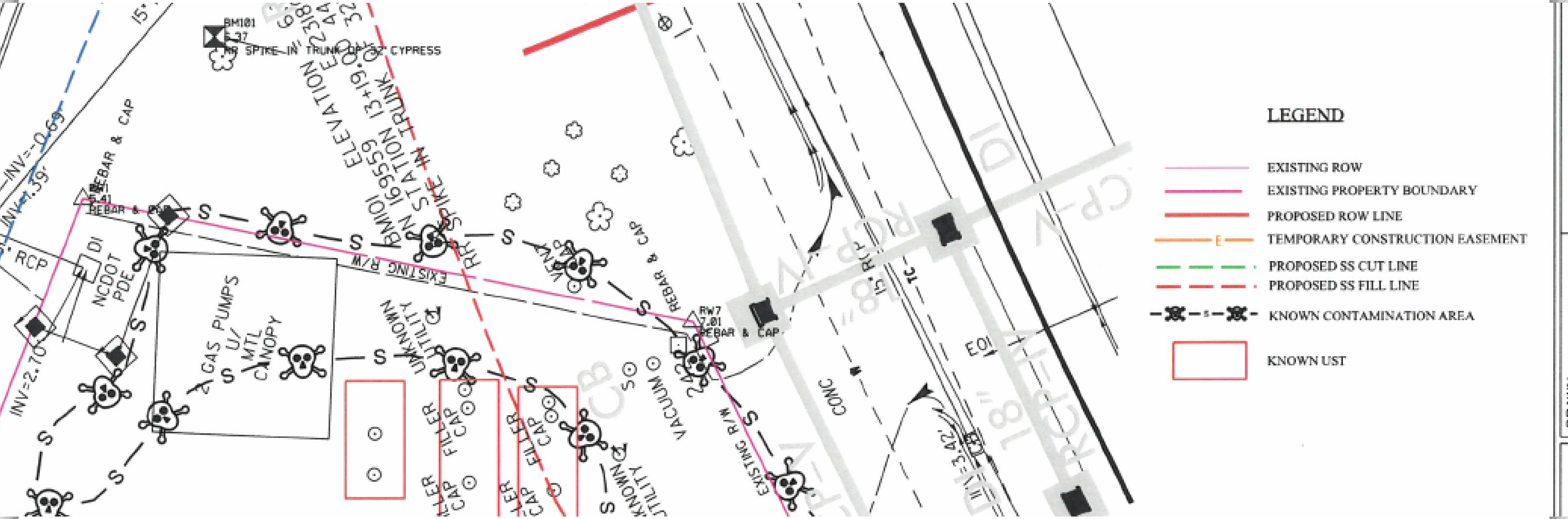
GeoEnvironmental Symbology



GeoEnvironmental on Final Plan Sheet



Use the Correct Symbology



NCDOT Workspaces

- CADD for Consultants Page
- https://connect.ncdot.gov/resources/CADD/Pages/default.aspx

CADD Services You Tube Channel

CADD Services has its own official You Tube Channel that will be used to host videos that are applicable to both internal and external clients. Check it out at:

https://www.youtube.com/playlist?list=PLKjJYg0oIE-X713CLrKz7I88BMJsG5SVW

NCDOT CADD Standards

The CADD standards information is designed for users of MicroStation & other CADD related software (i.e. DesCartes, Geopak, IPlot, etc.) on NCDOT projects. It is our intent to provide the latest information and enhancements to increase productivity and promote standardization throughout the NCDOT.

NCDOT CADD Hardware
CADD hardware currently being used by the NCDOT

NCDOT CADD Software Versions
CADD software Currently being used by the NCDOT

CADD Standards - File Name Unit Codes.pdf
File Name Unit Codes for NCDOT CADD projects

CADD Standards - File Names.pdf
File naming standarts for NCDOT CADD projects

CADD Standards - File Types.pdf
File type standards for NCDOT CADD Projects

CADD Standards - Geopak Point Numbers.pdf
Geopak point number information.

TIP Project Folder Template
zip file containing the TIP Project folders (as of 06.04.14)

CADD Videos
CADD Services videos that are applicable to both internal and external clients.

CADD Newsletter January 2010.pdf

Workspace Resources

Alternate CADD Workspaces for Consultants.pdf
pdf file on an alternate way to install the NCDOT workspaces on a non-NCDOT workstation.

CADD Consultant Workspace Setup.zip
zip fie containing information on how to acquire and install the NCDOT workspaces on an non-NCDOT PC

Installing the NCDOT_ORD Connect Workspaces (Testing Only)
a PDF file describing how to install the NCDOT Workspaces for OpenRoads Connect edition.

Installing_NCDOT_Standard_Workspaces.pdf
Instructions on installing the NCDOT workspaces

Setting up a Supplemental Workspace.pdf
pdf on how to setup a supplemental workspace within the NCDOT workspaces.

UpdateWS
The workspace update program (UpdateWS.exe) will allow the user to check and update any of the standard NCDOT Workspaces

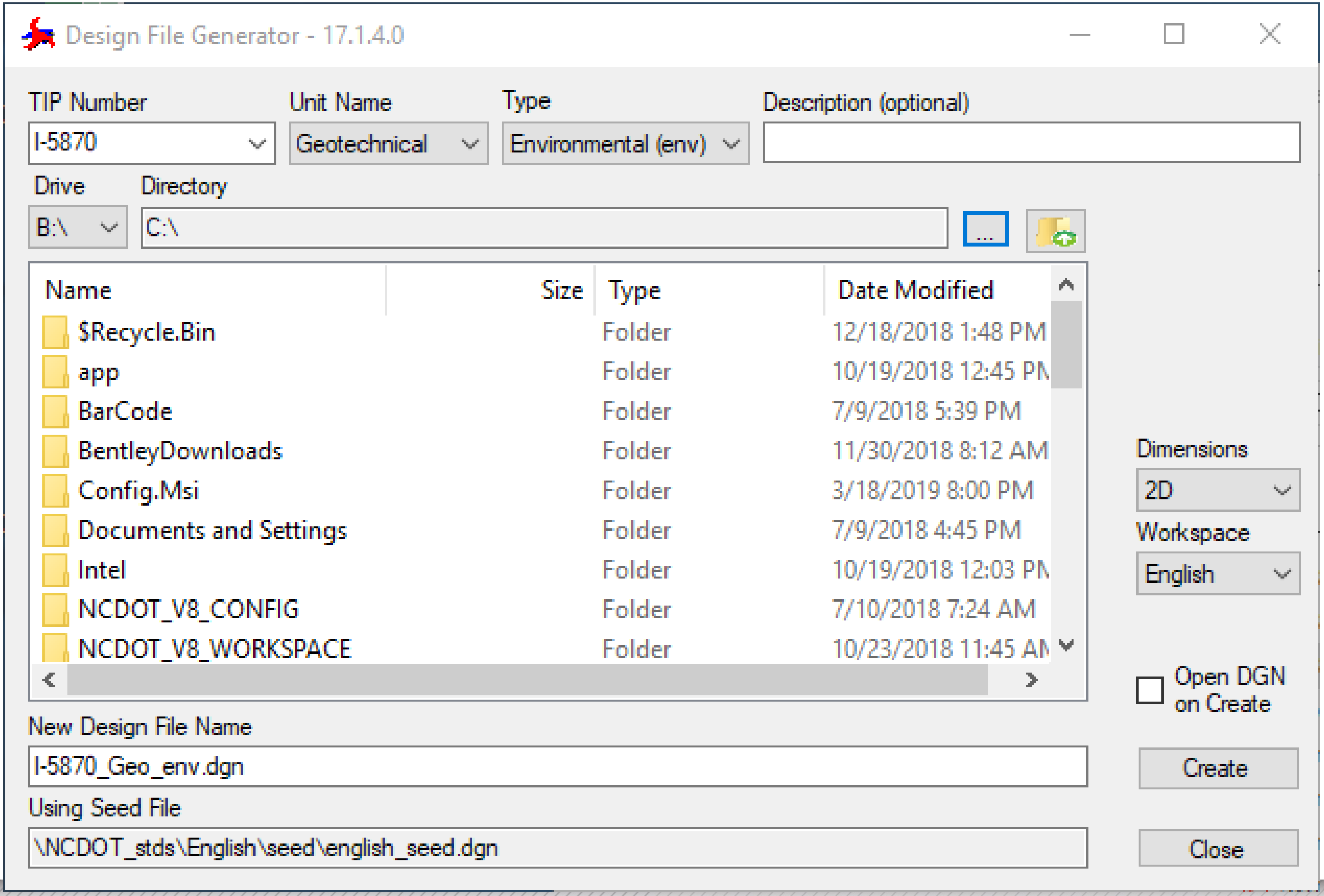
UpdateConnectWS – (Testing only)
This program administers the new CONNECT ORD workspaces. Be aware that NCDOT is still in early stages of development of ORD Workspaces. Please do not use for Production!

CADD Downloads

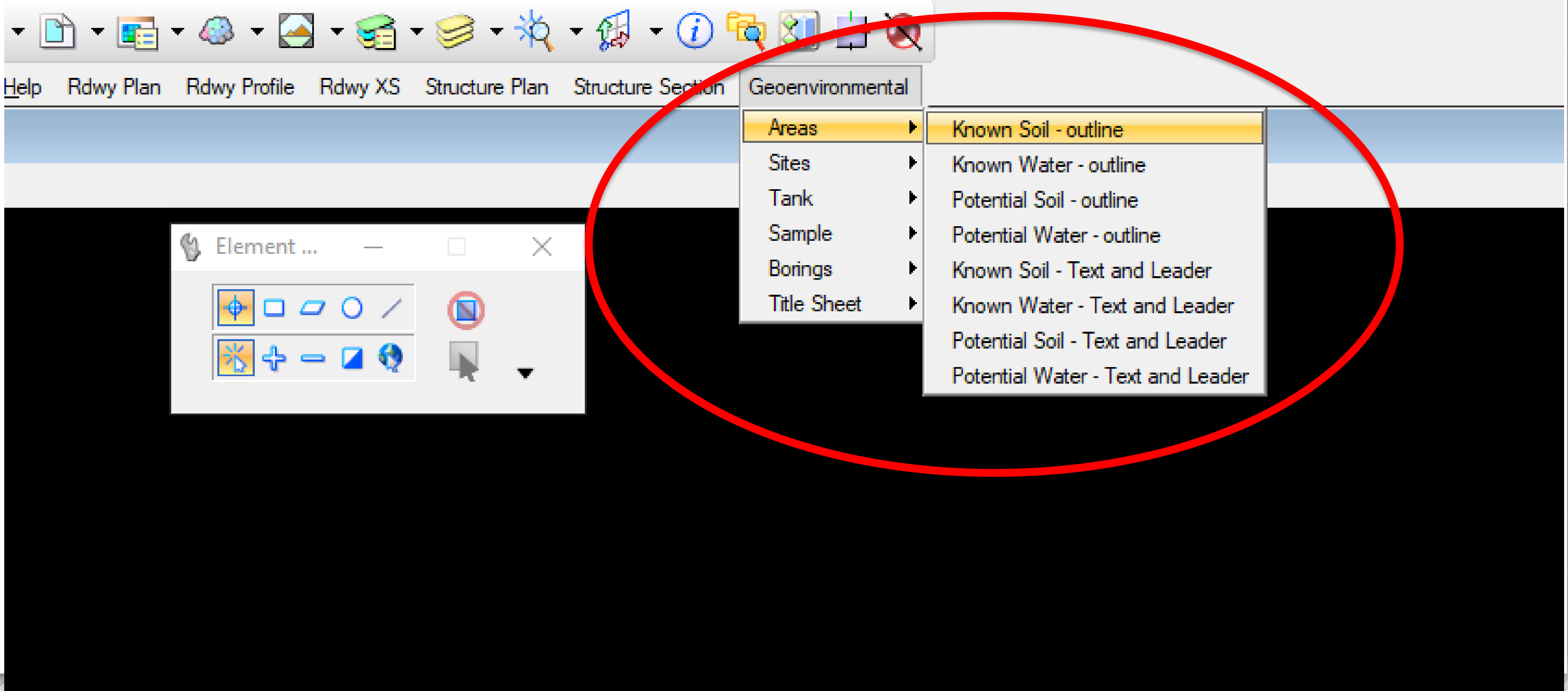
SrvConn App

CADD VBA-instructions.pdf

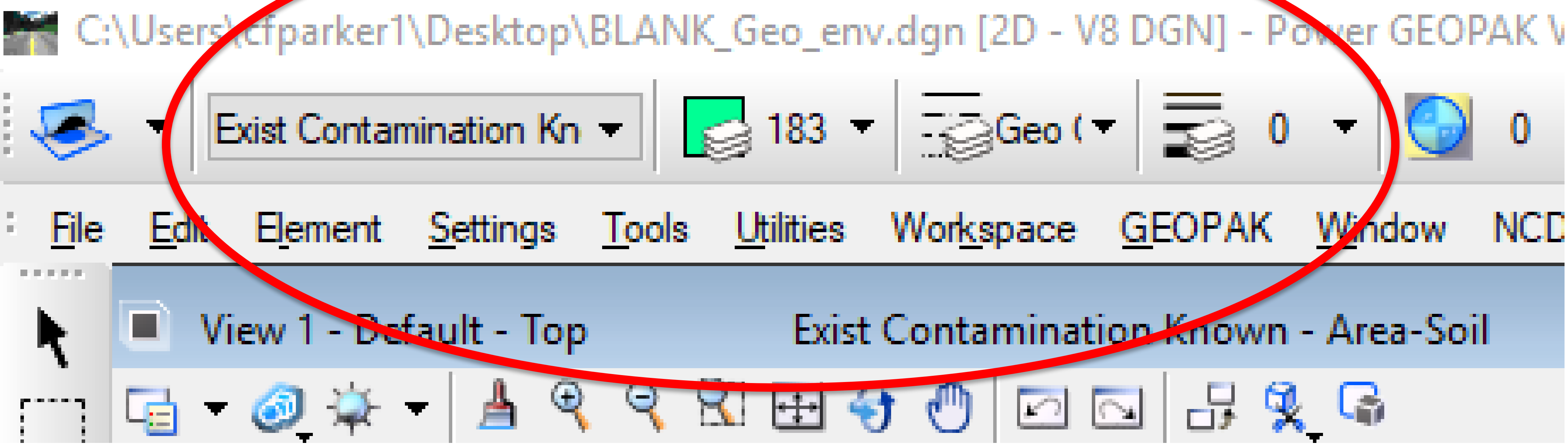
GeoEnvironmental Cadd File



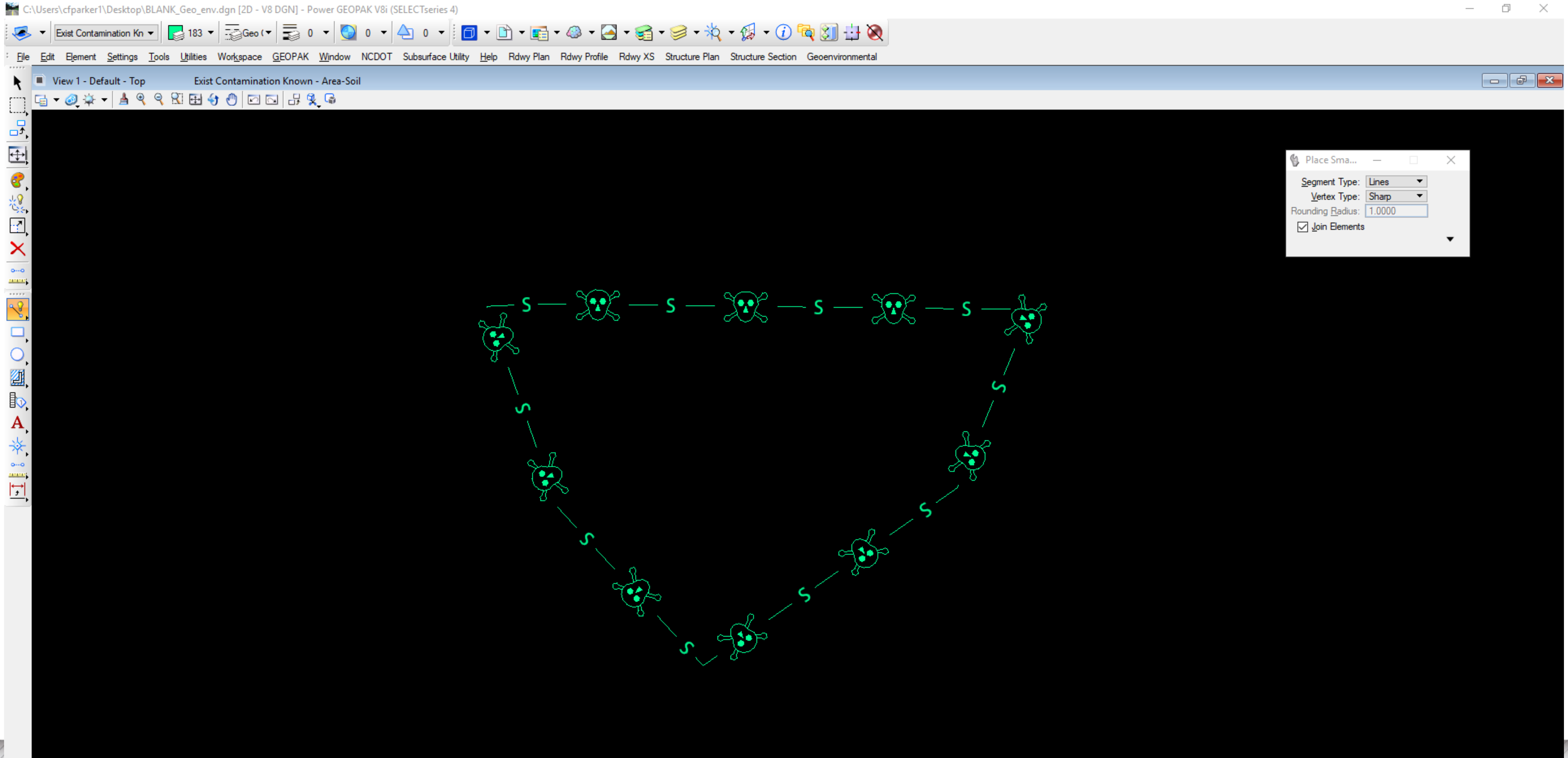
GeoEnvironmental Tool in MicroStation



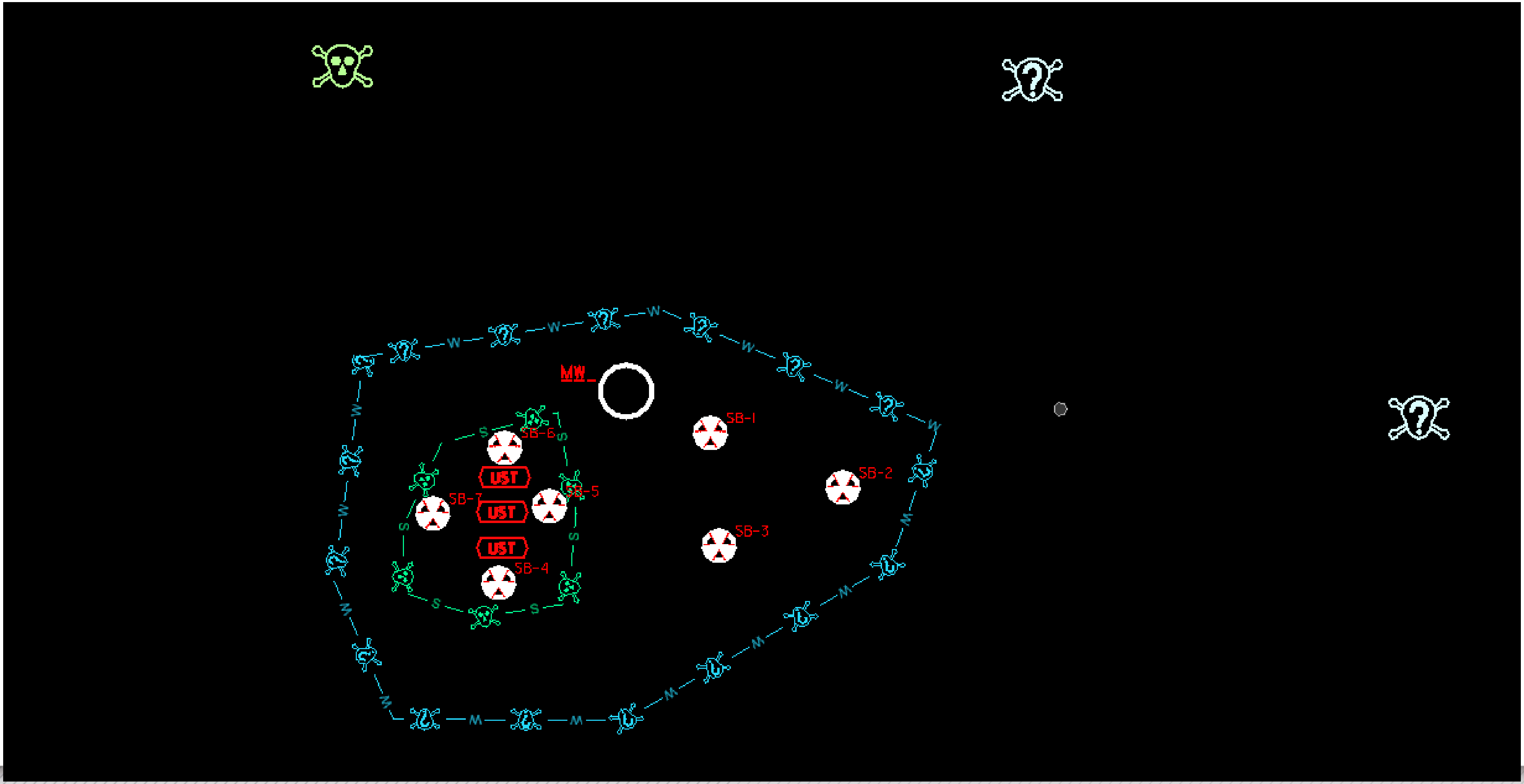
GeoEnvironmental Tool in MicroStation



GeoEnvironmental Tool in MicroStation



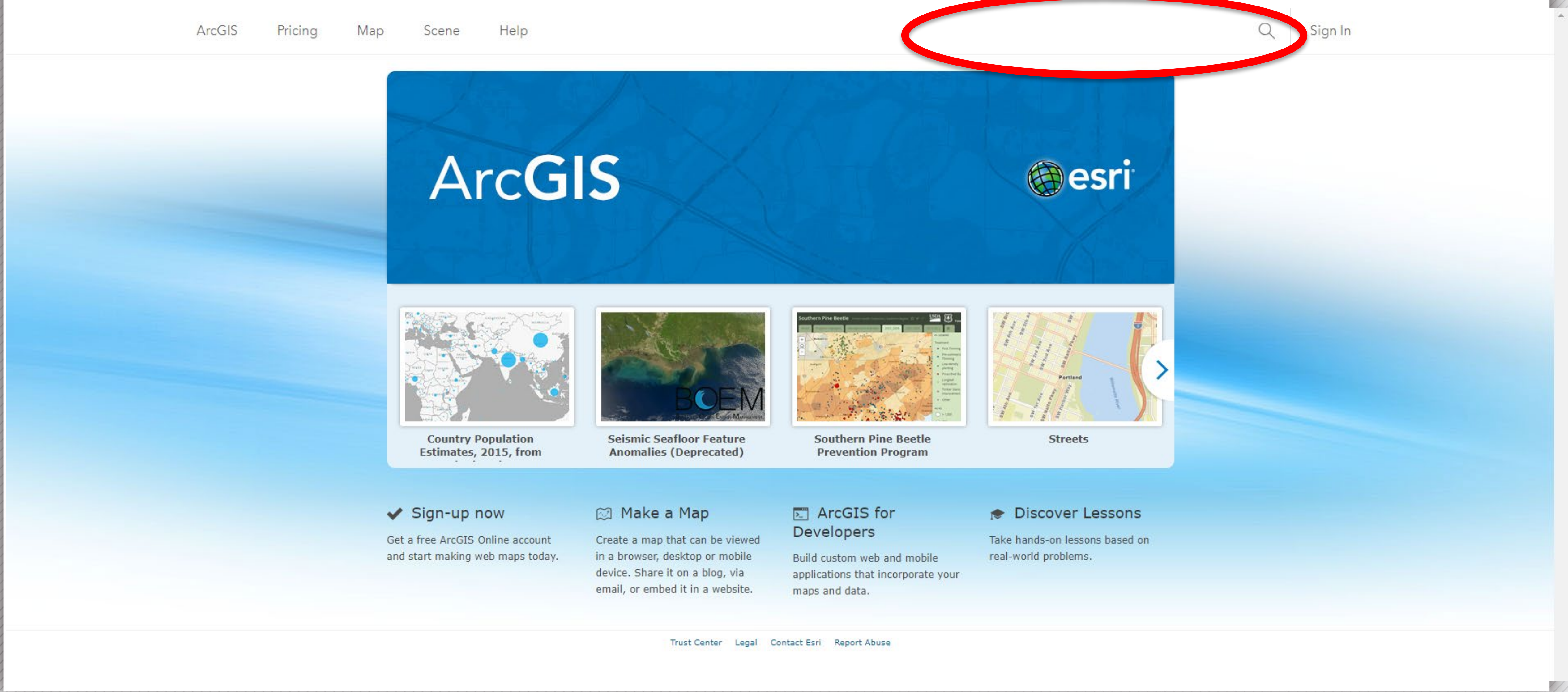
MicroStation File TIP_GEO_ENV.DGN



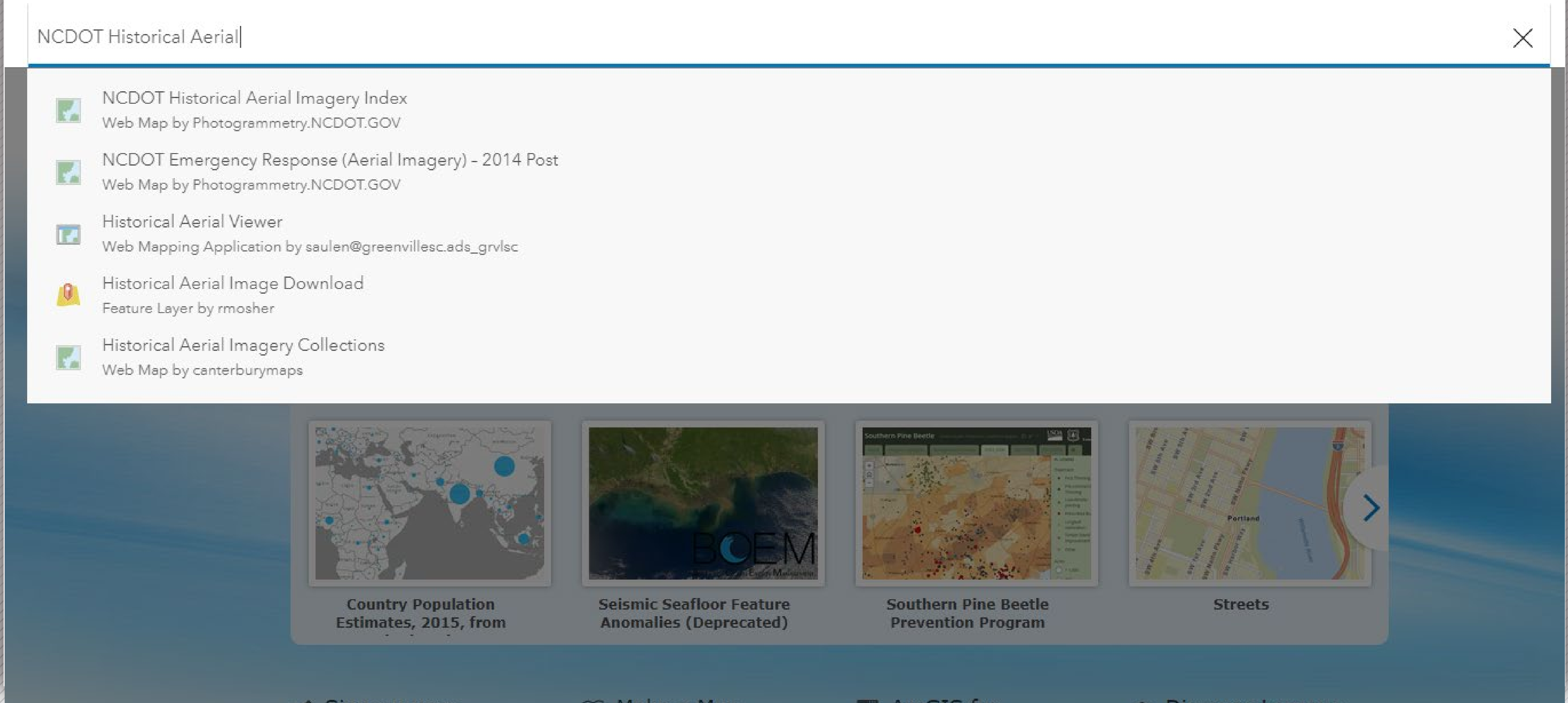
Historical Aerials Online

- Web Search “AGOL”
- In ArcGIS Online Search “NCDOT Historical Aerials”
- Limited Selection of NCDOT aerials from 1950’s to 1990’s in low, medium and high resolution.
- For complete archive visit NCDOT’s Photogrammetry Unit.

Search “NCDOT Historical Aerial”

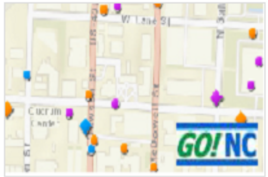


Search “NCDOT Historical Aerial”



NCDOT Historical Aerial Imagery Index

Overview



NCDOT Photogrammetry Unit's Historical Aerial Imagery Thumbnails in resolution layers.

Web Map by Photogrammetry.NCDOT.GOV

Created: May 5, 2015 Updated: May 23, 2017 View Count: 3,941

Open in Map Viewer

Open in ArcGIS Desktop

Description

NCDOT Photogrammetry Unit has 9 inch format aerial imagery from 1955 to 2008. This map covers 1955 through 1992. The aerial film was scanned at 100 dots per inch and then Geo-located so these images may be several hundred feet off from their true position. We call these images geo located thumbnails.

Display of the data was broken down by decade and then by scale.

High resolution is any imagery under a scale of 1" = 460 feet. This is the most detailed imagery, but each frame covers a small area.

Medium resolution is any imagery greater than or equal to 1" = 460 feet to less than or equal to 1" = 1200 feet.

Low resolution is any imagery over 1" = 1200 feet. This is the least detailed imagery but covers large areas.

See this link for more information about the NCDOT Photogrammetry Unit: https://connect.ncdot.gov/resources/photogrammetry/Pages/default.aspx

Layers

DIL_1950_Low

DIL_1950_Medium

DIL_1950_High

DIL_1960_Low

Details

Size: 107 KB

Owner

Photogrammetry.NCDOT.GOV

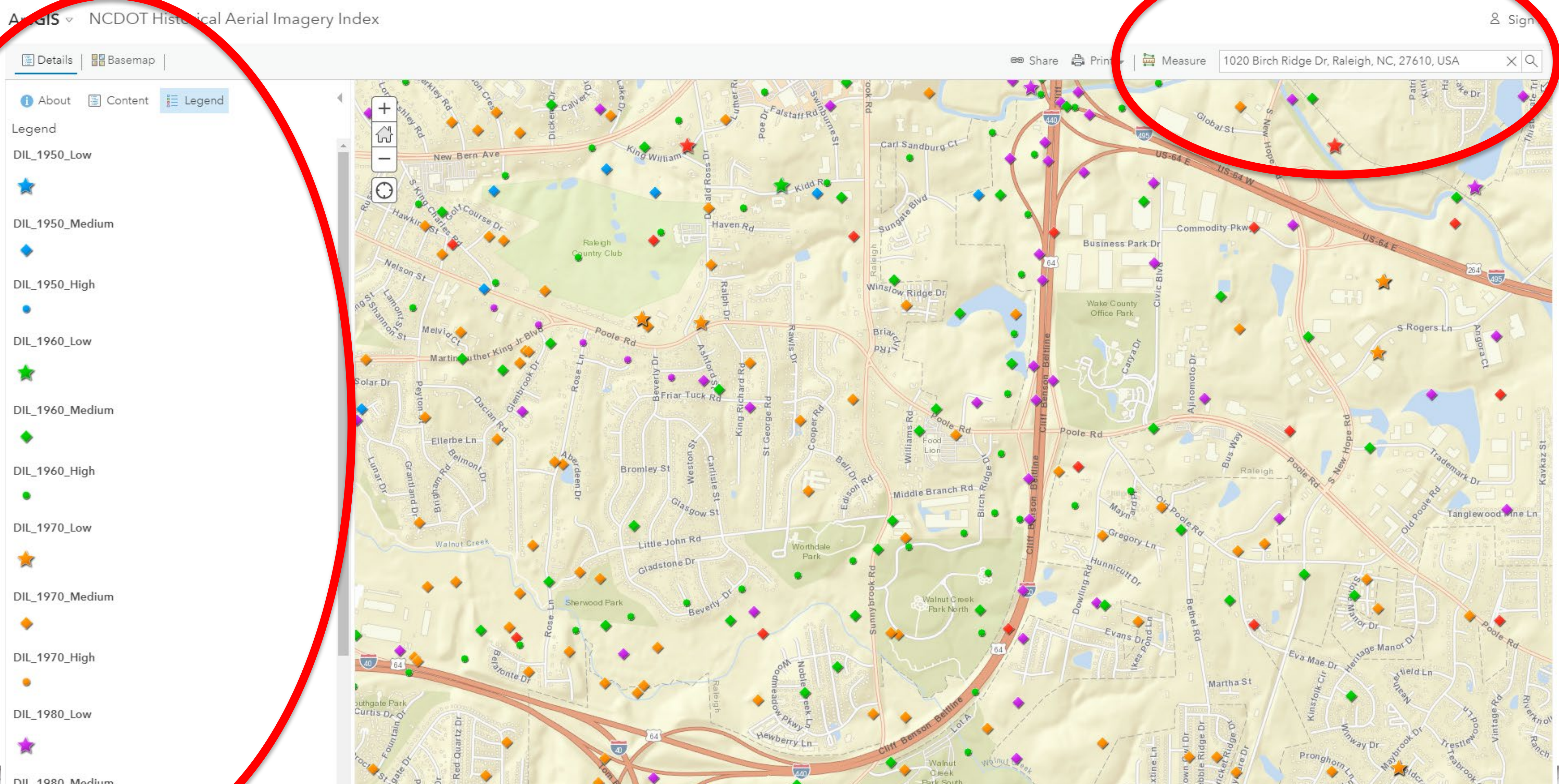
Tags

NCDOT, NCDOT Photogrammetry, NCDOT Photogrammetry Unit, NC, Historic Imagery, aerial imagery, Official NCDOT, North Carolina

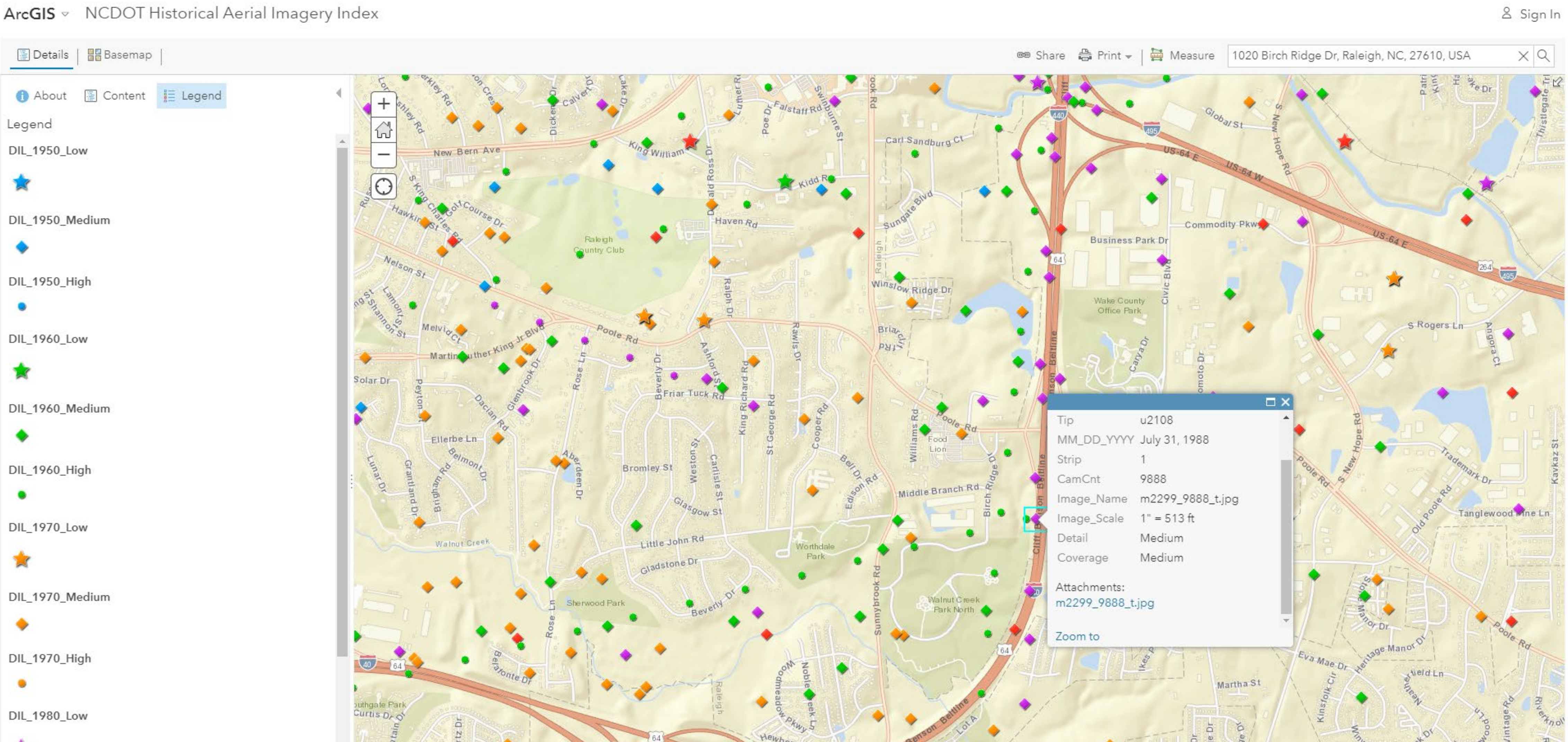
Credits (Attribution)

NCDOT Photogrammetry Unit

Image Search



Select Image




M-2299
8-1-88
1"-500
NC DOT DIV HWYS PHTGM UNIT

ArcGIS Online

- https://www.arcgis.com/home/index.html