

Surveying And Mapping, LLC (SAM) 12480 DeBartolo Drive, Unit F North Jackson, OH 44451

Office: 330-794-4455

SUE QUALITY LEVEL A TEST HOLE #1 NEW ALBANY, OH 12" D.I. WATER

Project: **FRA 161 NOISE WALL** Date Performed: 1/11/2024

SAM, LLC Project # 1023078248 Client: ARCADIS

NEW ALBANY, OHIO 43084 Project Location:

Utility Location: SR 161 NEW ALBANY CONDIT ROAD UNDERPASS

Utility Sta./Offset:

Record Utility: 12" DUCTILE IRON WATER

Utility Owner: CITY OF NEW ALBANY

Contact: N/A

Phone/Email: N/A

Field Crew: TW/VS

Field Conditions: CLOUDY/ COLD

NATURAL GROUND Surface Material & Thickness:

Marker Elevation: 924.82

Surface Condition: Trench Material:

Utility Bedding Material:

Utility Found: 12" DUCTILE IRON WATER

Utility Condition:

GOOD

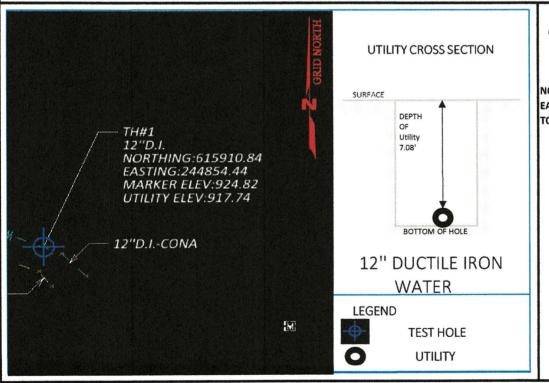
917.74

GOOD

CLAY

CLAY

7.08 **Utility Depth:**



PROJECT CONTROL

Coordinates shown are based on OHDOT LDP, Franklin CO, Grid, derived from GPS observations utilizing the Trimble

EXCAVATION CENTERLINE COORD.

NORTHING 615910.84 EASTING 244854.44 TOP ELEV.



Comments

- 1. SAM, LLC laid out this Test Hole by designating the water prior to excavation of the utility.
- Field crew unable to get visual ID on pipe due to large amounts of backfilling water.



SR 161 NEW ALBANY CONDIT ROAD UNDERPASS

SUE QUALITY LEVEL A TEST HOLE #2 NEW ALBANY, OH 8" PLASTIC GAS

Project:

FRA 161 NOISE WALL

Date Performed:

1/11/2024

SAM, LLC Project #

1023078248

Client:

ARCADIS

Project Location:

NEW ALBANY, OHIO 43084

Surface Material & Thickness:

NATURAL GROUND

Utility Location:

Surface Elevation:

922.80

Utility Sta./Offset:

Surface Condition:

Record Utility:

8" PLASTIC GAS

Trench Material:

GOOD CLAY

Utility Owner:

COLUMBIA GAS

Utility Bedding Material:

CLAY

Contact:

N/A

Utility Found:

8" PLASTIC GAS

Phone/Email:

N/A

Utility Condition:

GOOD

Field Crew:

TW/VS

Utility Depth:

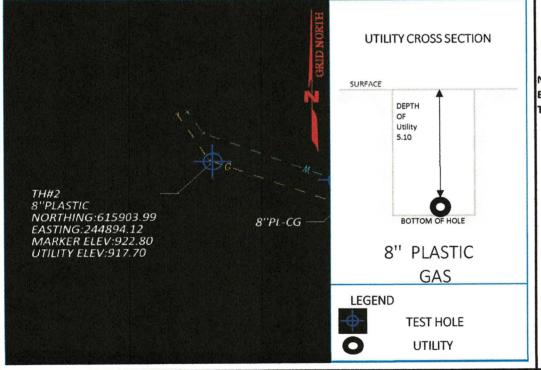
5.10

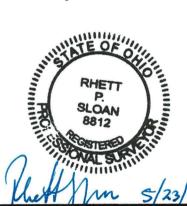
Field Conditions:

CLOUDY/ COLD



PROJECT CONTROL Coordinates shown are based on OHDOT LDP, Franklin CO, Grid, derived from GPS observations utilizing the Trimble





Comments

1. SAM, LLC laid out this Test Hole by designating the gas prior to excavation of the utility.

Field crew unable to get visual ID on pipe due to large amounts of backfilling water.



TEST HOLE #3
NEW ALBANY, OH
12" STEEL GAS

NATURAL GROUND

990.22

POOR

CLAY

UNK

N/A

UNK

Project: FRA 161 NOISE WALL Date Performed: 1/19/2024

SAM, LLC Project # 1023078248 Client: ARCADIS

JAN, EE Project #

Project Location: NEW ALBANY, OHIO 43084 Surface Material & Thickness:

Utility Location: SR 161 NEW ALBANY RD EXIT RAMP Surfa

Utility Sta./Offset: N

Record Utility: 12" STEEL GAS

Utility Owner: TC ENERGY

Contact: N/A

Phone/Email: N/A

Field Crew: RA/JP

Field Conditions: CLOUDY/ COLD

urface Material & Thickness:

Surface Elevation: Surface Condition:

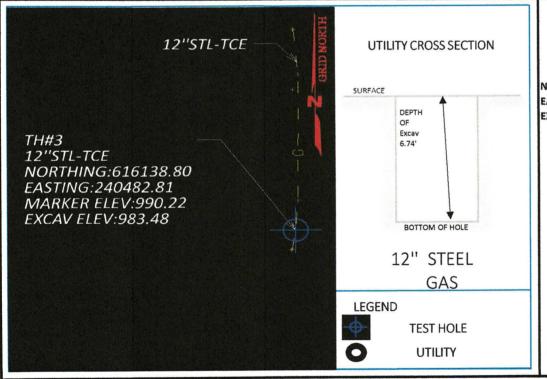
Trench Material:

Utility Bedding Material:

Utility Found:

Utility Condition:

Excav Depth: 6.74

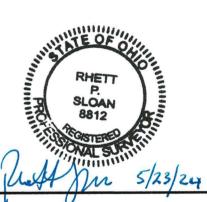


PROJECT CONTROL

Coordinates shown are based on OHDOT LDP, Franklin CO, Grid, derived from GPS observations utilizing the Trimble Network.

EXCAVATION CENTERLINE COORD.

NORTHING 616138.80
EASTING 240482.81
EXCAV ELEV. 983.48



Comments

1. SAM, LLC laid out this Test Hole by designating the gas prior to excavation of the utility.

2. Dug to a depth of 6.74' was unable to continue due to ground conditions. The crew encountered a rock shelf while performing vaccum excavation. SAM field staff spoke with Christian Grillo and were advised to not use the jack hammer to penetrate the rock to expose the pipeline. SAM field staff made additional efforts to locate the gas line north of the off ramp and surveyed the 2 other locations where vaccum excavation took place by others. This confirmed the horizontal alignment for the pipeline and provided electronic depths that coincide with information from TC Energy stating "The south side of 161 this line is approx. 12' to top of pipe and on the North side of 161 the line is approx. 15'6" to Top of pipe"



SUE QUALITY LEVEL A TEST HOLE #4 NEW ALBANY, OH 12" STEEL GAS

Project:

FRA 161 NOISE WALL

Date Performed:

1/19/2024

SAM, LLC Project #

1023078248

Client:

ARCADIS

Project Location:

NEW ALBANY, OHIO 43084 SR 161 NEW ALBANY ROAD EXIT NATURAL GROUND

Utility Location:

Surface Material & Thickness: Surface Elevation:

Utility Sta./Offset:

N/A

Surface Condition:

991.20

Record Utility:

12" STEEL GAS

Trench Material:

Utility Bedding Material:

CLAY

Utility Owner:

TC ENERGY

Utility Found:

UNK

POOR

Phone/Email:

Contact:

N/A N/A

Utility Condition:

N/A UNK

Field Crew:

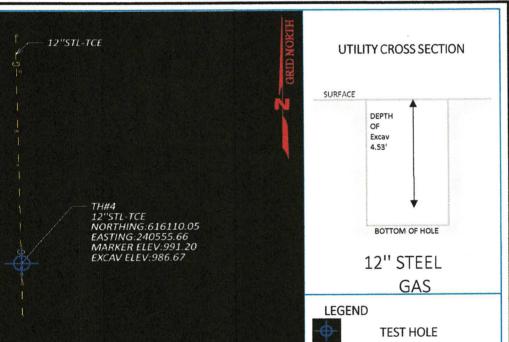
TW/VS

Excav Depth:

DUG:4.53 PROBE:6.33

Field Conditions:

CLOUDY/ COLD



PROJECT CONTROL

Coordinates shown are based on OHDOT LDP, Franklin CO, Grid, derived from GPS observations utilizing the Trimble Network.

EXCAVATION CENTERLINE COORD.

NORTHING EASTING

616110.05 240555.66

TOP ELEV. 986.67



Comments

UTILITY

1. SAM, LLC laid out this Test Hole by designating the gas prior to excavation of the utility.

2. Dug to a depth of 4.53' probe to 6.33' was unable to continue due to ground conditions and obstructions. The crew encountered a rock shelf while performing vaccum excavation. SAM field staff spoke with Christian Grillo and were advised to not use the jack hammer to penetrate the rock to expose the pipeline. SAM field staff made additional efforts to locate the gas line north of the off ramp and surveyed the 2 other locations where vaccum excavation took place by others. This confirmed the horizontal alignment for the pipeline and provided electronic depths that coincide with information from TC Energy stating "The south side of 161 this line is approx. 12' to top of pipe and on the North side of 161 the line is approx. 15'6" to Top of pipe"



SUE QUALITY LEVEL A TEST HOLE #5 NEW ALBANY, OH 6" STEEL GAS

Project:

FRA 161 NOISE WALL

Date Performed:

1/19/2024

SAM, LLC Project #

1023078248

Client:

ARCADIS

Project Location:

NEW ALBANY, OHIO 43084

Surface Material & Thickness:

NATURAL GROUND

Utility Location:

SR 161 NEW ALBANY CONDIT ROAD UNDERPASS

Surface Elevation:

973.56

Utility Sta./Offset: Record Utility: N/A

POOF

Utility Owner:

6" STEELGAS
COLUMBIA GAS

UNK

Contact:

N/A

Utility Bedding Material: Utility Found:

Surface Condition:

Trench Material:

N/A

Phone/Email:

N/A

Utility Condition:

UNK

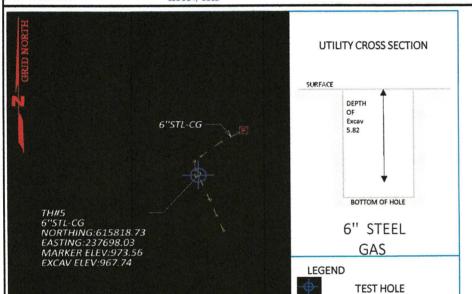
Field Crew: Field Conditions: TW/VS

Excav Depth:

DUG:5.82 PROBE:7.86

CLOUDY/ COLD

COLD

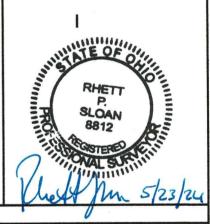


PROJECT CONTROL

Coordinates shown are based on OHDOT LDP, Franklin CO, Grid, derived from GPS observations utilizing the Trimble Network.

EXCAVATION CENTERLINE COORD.

NORTHING EASTING TOP ELEV. 615818.73 237698.03 967.74



Comments

UTILITY

1. SAM, LLC laid out this Test Hole by designating the gas prior to excavation of the utility.

2. Dug to a depth of 5.82' and probed to 7.86' was unable to continue due to ground conditions and obstructions. No pipeline was exposed. This test hole was on a NiSource/Columbia Gas line on the north side of FRA 161 and was difficult to detect directly under FRA 161 and was only detected on the slopes of either side of the hgihway. Per a Teams call with Arcadis/SAM/Columbia there is only one gas line crossing just west of Harlem Road.

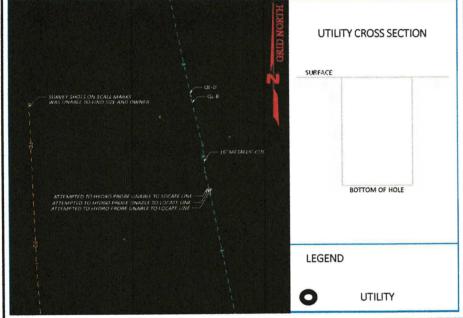


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SUE QUALITY LEVEL A
HARLEM RD WATER
NEW ALBANY, OH
16" METALLIC WATER

4/12/2024 **Date Performed:** Project: **FRA 161 NOISE WALL** SAM, LLC Project # 1023078248 Client: ARCADIS Project Location: NEW ALBANY, OHIO 43084 NATURAL GROUND Surface Material & Thickness: SR 161/HARLEM RD UNDERPASS 975.41 Utility Location: Surface Elevation: Surface Condition: POOR Utility Sta./Offset: N/A Record Utility: 16" METALLIC WATER Trench Material: CLAY Utility Bedding Material: Utility Owner: UNK CITY OF COLUMBUS Contact: **Utility Found:** N/A N/A **Utility Condition:** UNK Phone/Email: N/A PROBE Field Crew TW/VS **Excav Depth:**



PROJECT CONTROL

Coordinates shown are based on OHDOT LDP, Franklin CO, Grid, derived from GPS observations utilizing the Trimble Network.

EXCAVATION CENTERLINE COORD.

 NORTHING
 615909.36

 EASTING
 237875.48

 TOP ELEV.



Comments

We made an attempt on the water line but encountered a few issues. We gathered as much data as we could to help build a narrative for you to try to move forward with the design/construction. Tom Turner was on site with us and provided information as to how the water mark got where it is. Tom stated

- 1.The water is 73' feet from the CL of Harlem Rd.
- 2.It is estimated at 15' in depth near the fence line
- 3.The water is under the 54" CMP storm drain that crosses the area

Our equipment could not detect the water line with accuracy where Tom had it marked by the ROW fence, but north of the ROW we could detect it. We feel comfortable saying the horizontal alignment is "close" but not to the level as we did at the ramp or the other utilities. We have a signal at the blow off valve back away from 161 but the signal dies there. We took a depth measurement at the valve but hit an obstruction at 6'. Due to the "weak" signal we had with our pipe and cable locator and some GPR data we have depicted the location in the SUE base map.

We did attempt to dig and hydro probe on the one-call marks but encountered lots of roots and then rock below that at 3' at the preferred location and along the line in other locations. We depicted some of the probing locations for reference. Being that there is minimal hope for finding this line with out some major additional efforts, and being that there is an engineered drawing, I would advise to use the water record to build the vertical profile into your design for this area. I know all of this is not ideal, but we put a lot of effort into just getting this far.