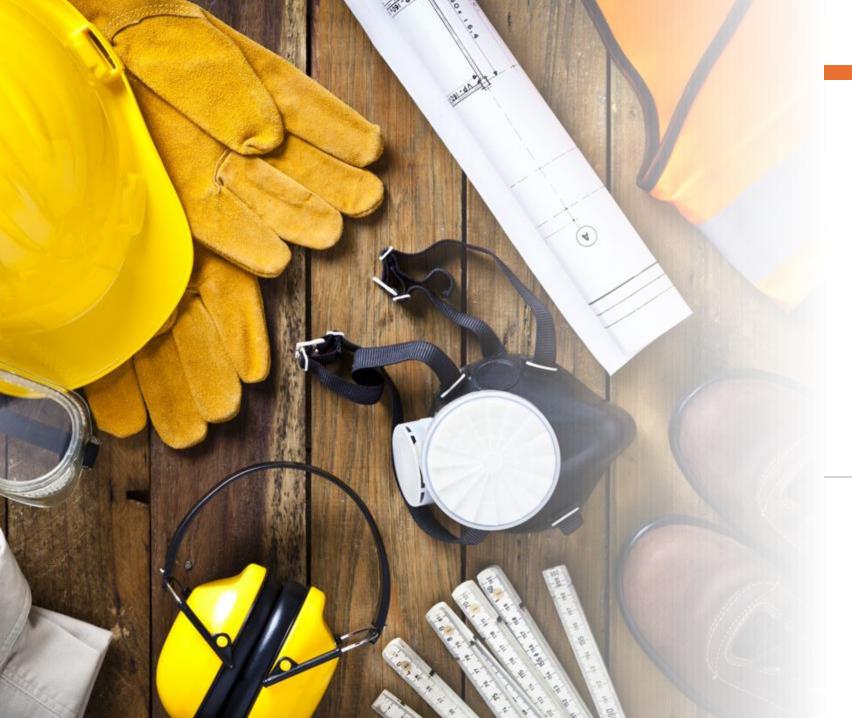
# Managing a Large-Scale Project with Limited Resources

**Limited Manpower** 



Contractors, engineering and survey companies?

 Locating field, utility
 companies and municipalities?





How many of you are veterans?



# BIO





Population over 50,000

**Customers 19,000 +** 



#### **Water Distribution System**

307 miles of water mains

2086 fire hydrants

4764 water valves

14,000+ meter pits (many are dual pits)

2 water treatment plants

5 water tanks

2 booster stations



#### **Sanitary Sewer System**

275 miles of gravity sanitary mains
105 miles of combined sewer
22 miles of force mains
5600 sanitary sewer manholes
83 lift stations
1 wastewater plant



Thank you for reaching out that is great to stat these discussions early as opposed to I am usually sending the first e-mail. As time goes on my team will be able to provide more color but below is a "general" idea of scale.

We hope to get to a point of about 8-10 Drill rigs that perform about 500' average per day that is a weekly total of 25k' and 5K' per day. If each ticket is roughly 1000' then we would need 5 tickets clear but in reality, we would want several tickets per drill so they can plan and maneuver for issues found in the field.

For planning purposes I would use the scenario below

Initially - 5 tickets per drill (50 tickets) this would occur while we mobilize and would have several weeks to get paint down.

On going - 1 tickets per drill per day to ensure that we can keep paint in front of the drills.

Month	Crews (Drills)	Tickets (1k' per	Footage (locate)	Production (Drill)
		ticket)		
May	3	60	60k	30-40K
June	6	120	120k	60-80K
July	10	200	200K	100-150K
August	10	200	200k	100-150K

Hopefully the above makes sense. Let me know if you want to discuss.

We cannot hire people from outside short term to help because of city policy



Locating is one of our responsibilities, it's not our only responsibility



There are only 2 guys that work for me in engineering



Very few days that we only have 1 person



There are days where we only have 2 people trying to protect our infrastructure because of vacations ,PTO days ,sick days, ect.





#### Start Up Fiber to House









**Emergency Locates** 



Our own crews needing attention to complete our mission



Contractors calling in bad info or wrong info



Other responsibilities that must have our attention and time



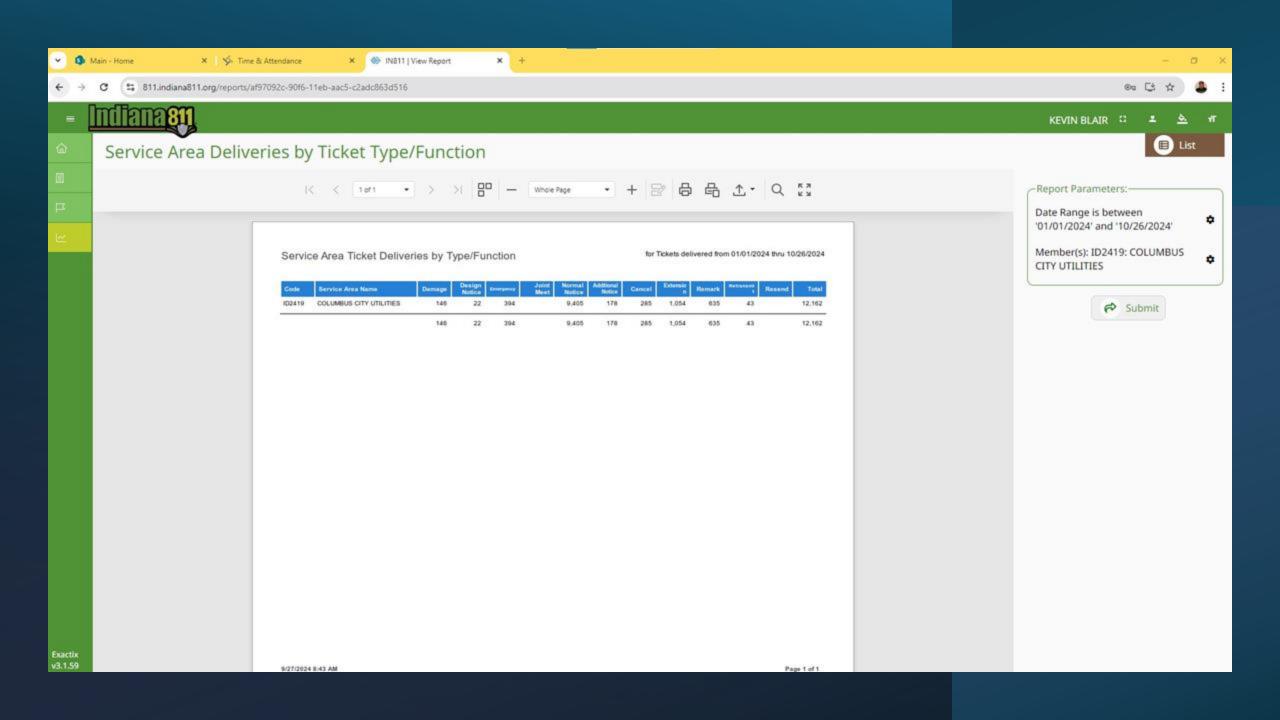
Problem troubleshooting locates



Weather



Soil conditions



#### **Communications**

**Bi-weekly meetings** 

Group texts with boring crew leaders, owners and foreman

Construction plans were provided

How 2-3 employees handled this for the most part

**Utilizing white lining** 

Utilizing rescheduling of dig tixs (law started January 2024)

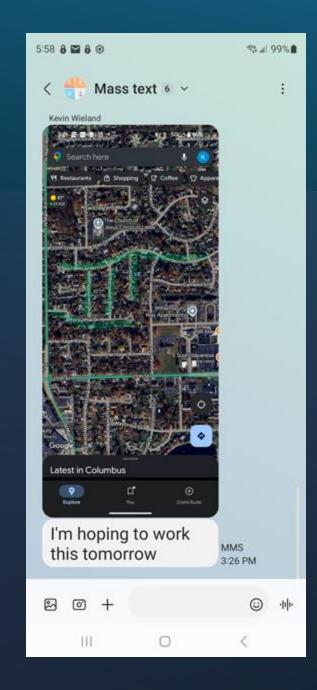
Attaching files to your dig request

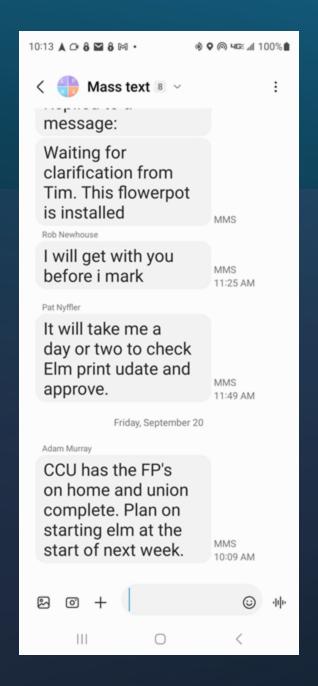


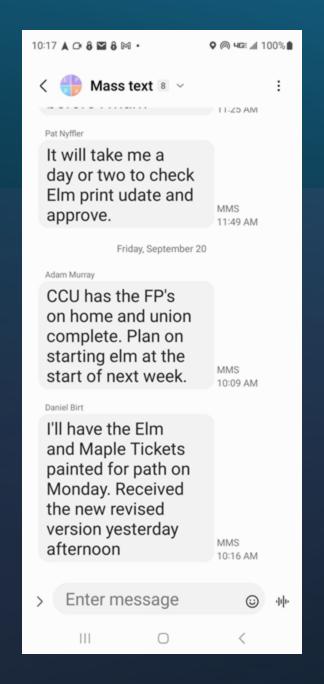
### Communications



- Phone Calls
- Emails
- Text Messages
- Onsite Visits
- Group Text Messages
- Positive Response







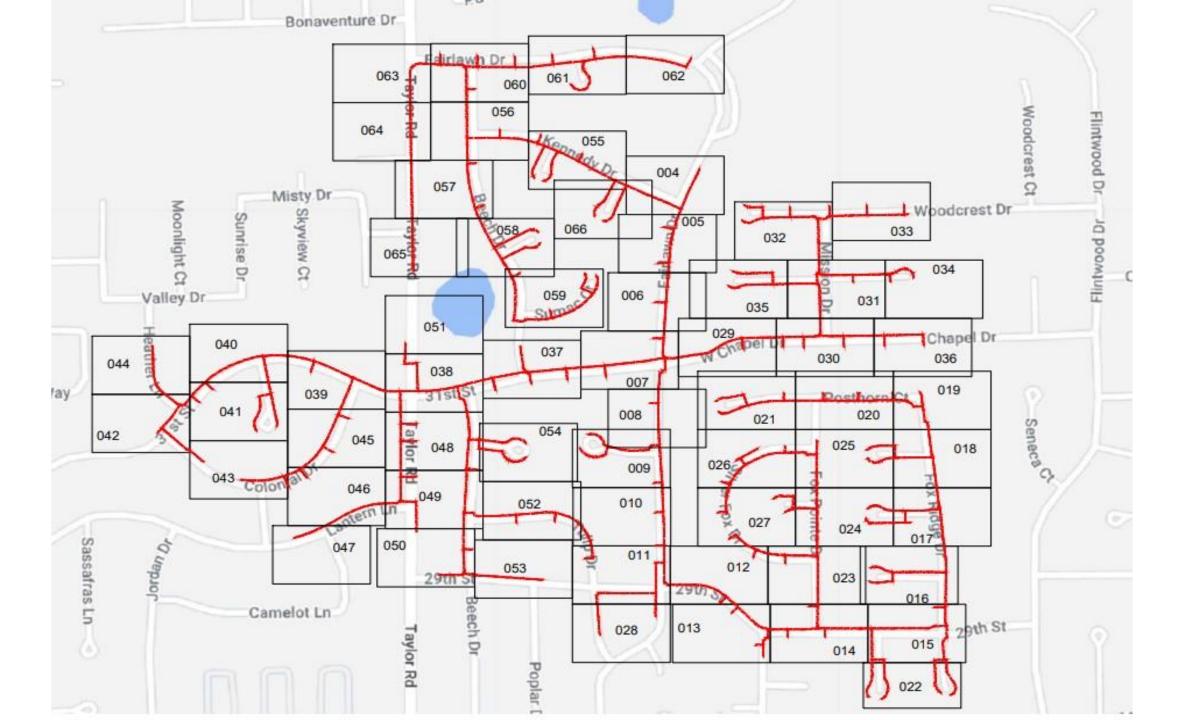


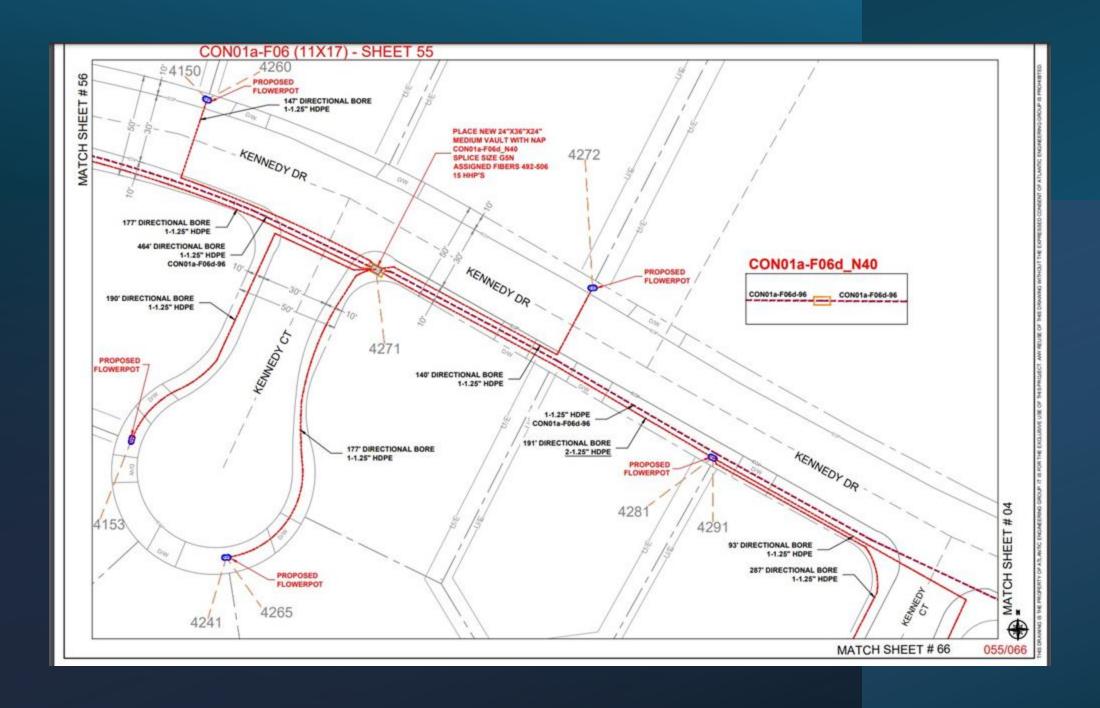
## **Bi-weekly meetings**

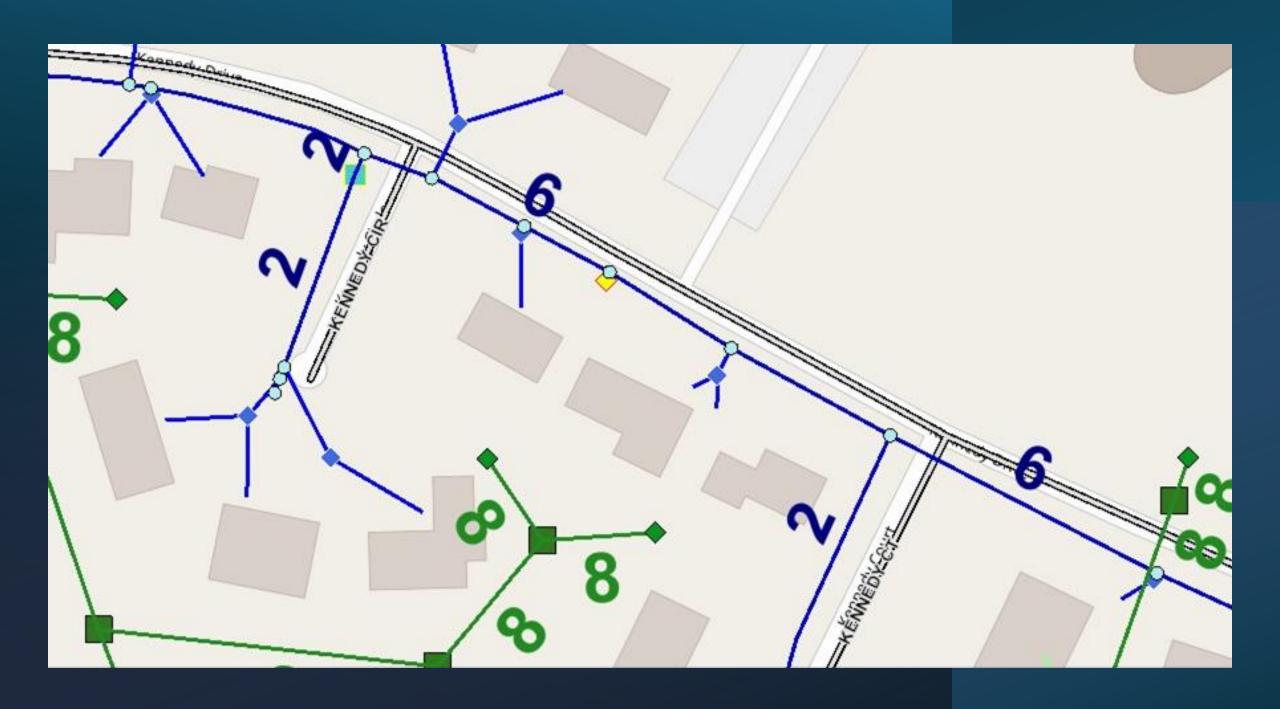


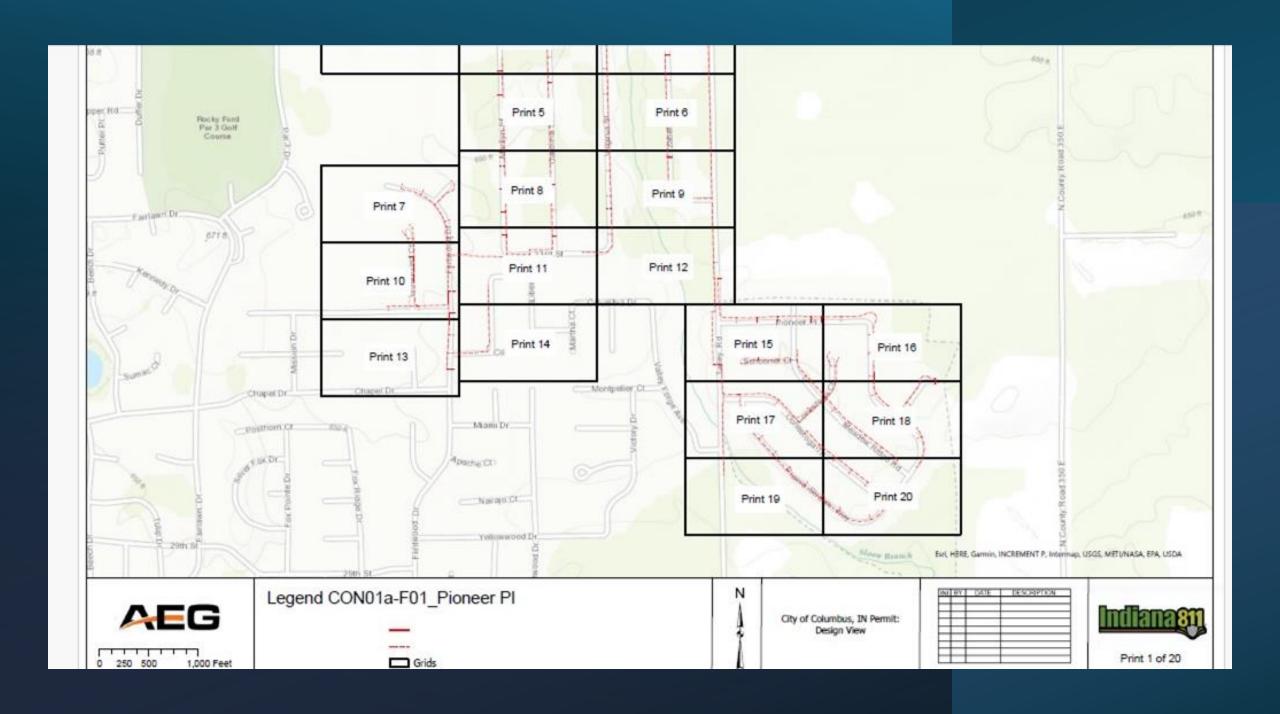
 Held every other Thursday at 10:30 AM using Microsoft **Teams Meeting with the** consultant engineering company ,utilities companies ,contract locate companies ,the boring crew leaders along with damage prevention personnel from Centerpoint Energy. Recently an IN811 board member has joined our meetings.

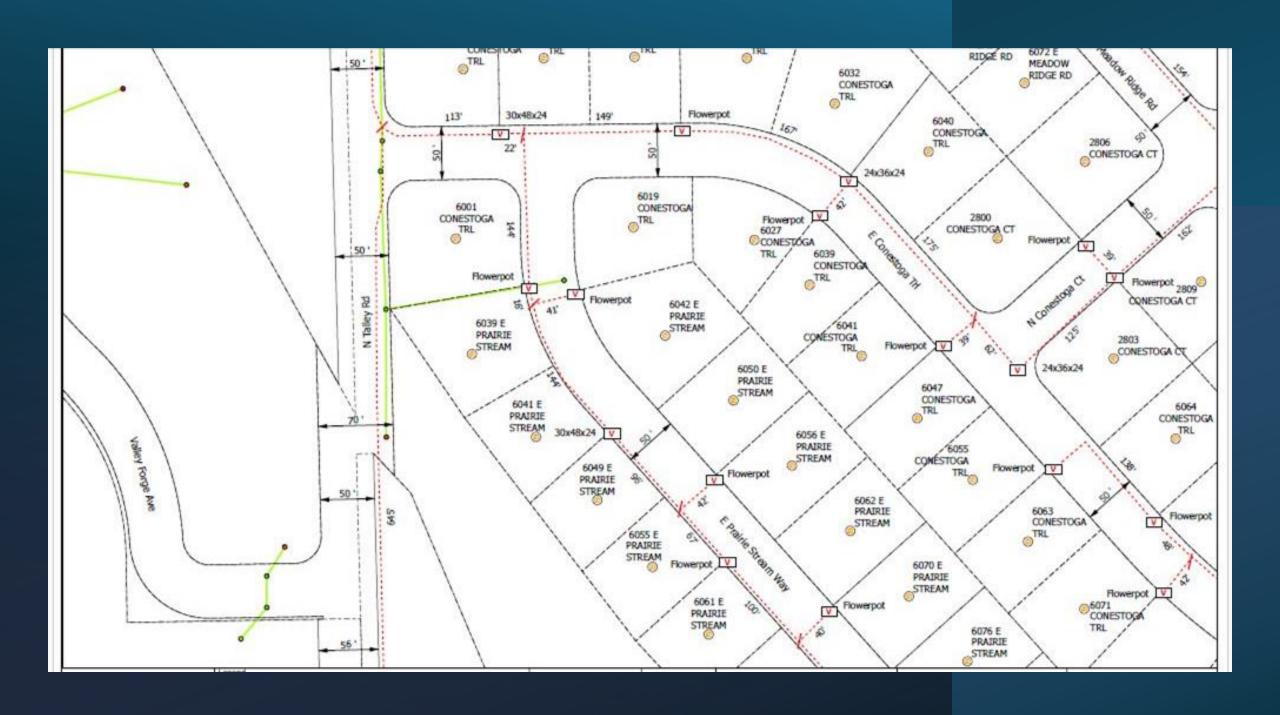


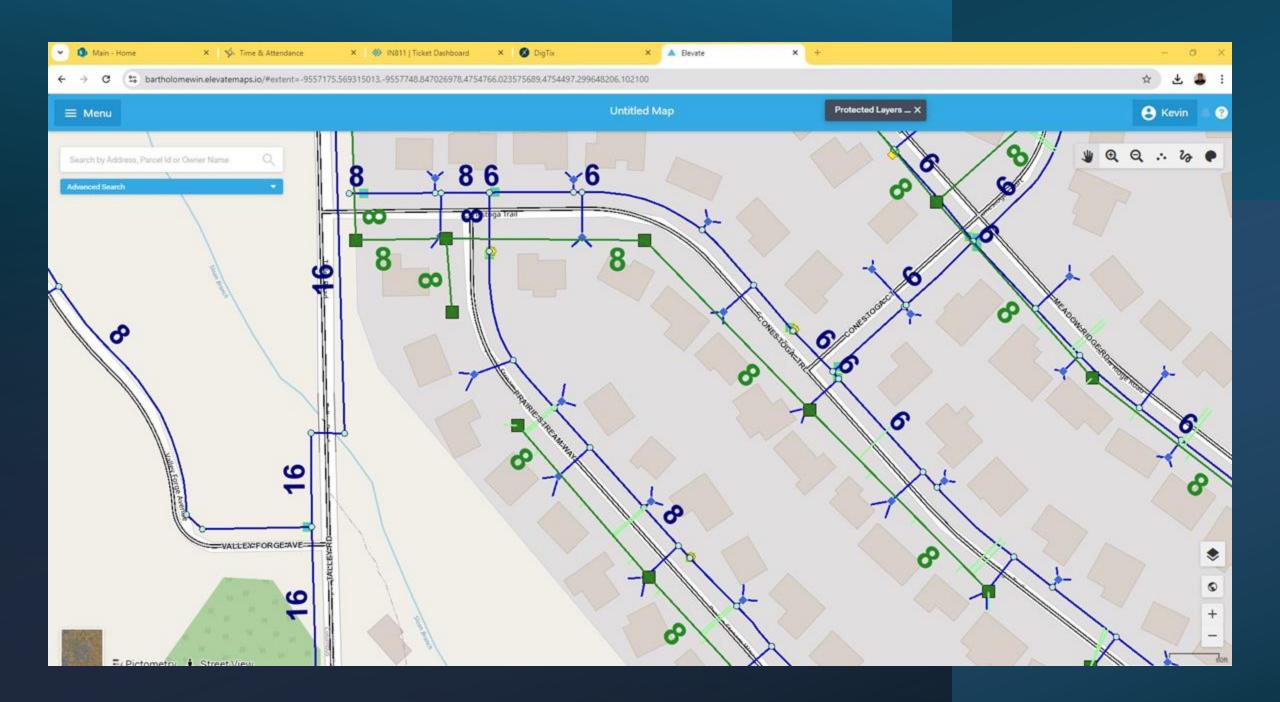










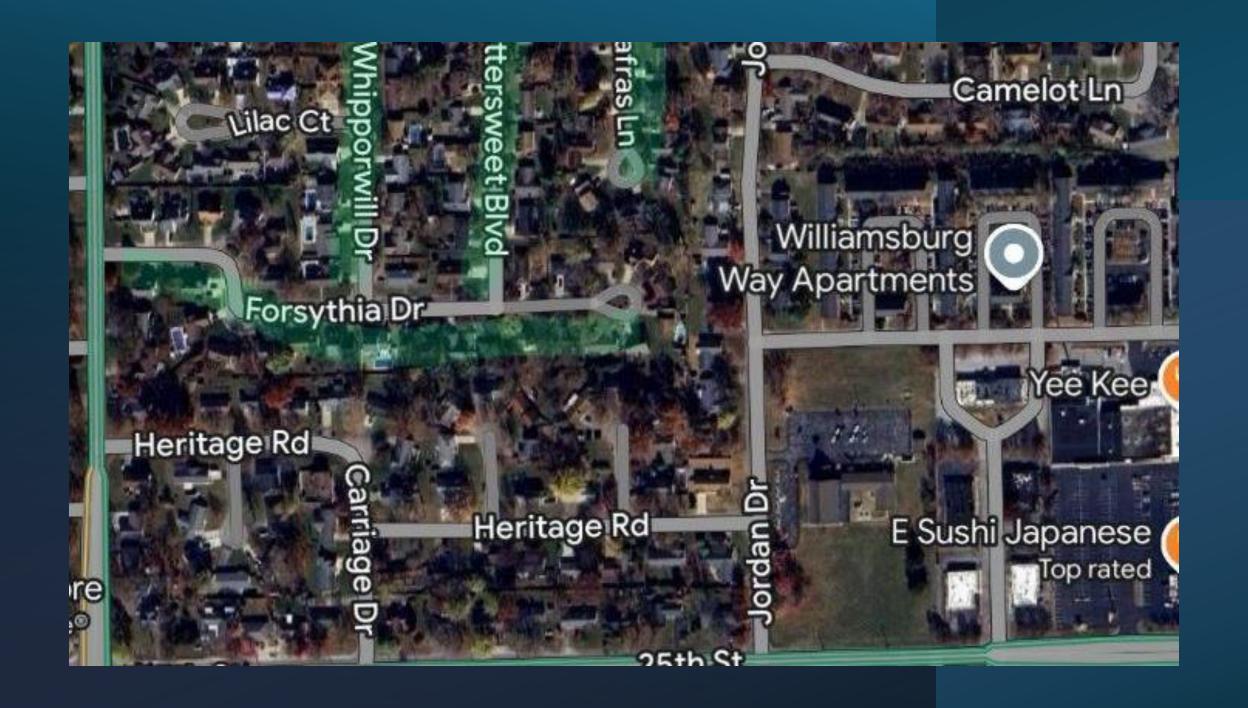


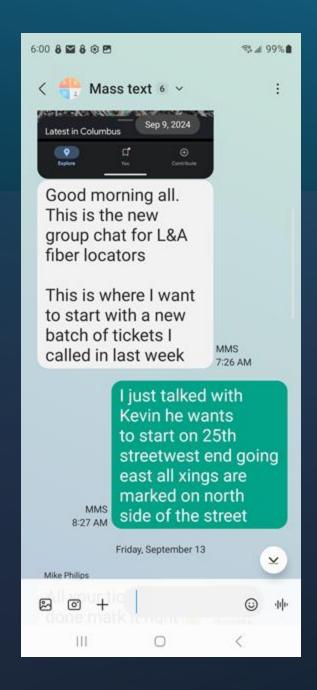


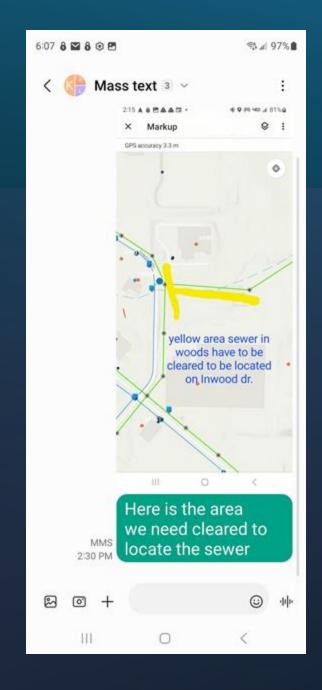
#### FTH with 3 of us working on the projects

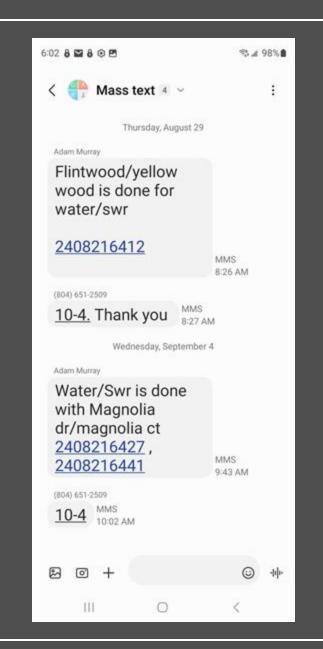
- The first 3-4 hours of each day the three of us would be working on FTH project for approximately 4-5 hours working on regular dig tixs
  - (9–12 hours for FTH project)
  - Days with us utilizing a 2-person project team and 1 person working all regular dig tixs
    - (14-16 hours for FTH project)
  - When using 2-person project team we would rotate each day the person doing regular dig tixs so they we would not suffer burnout being on the 2-person project team day after day

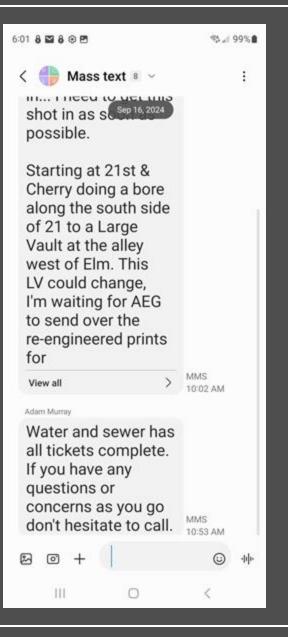










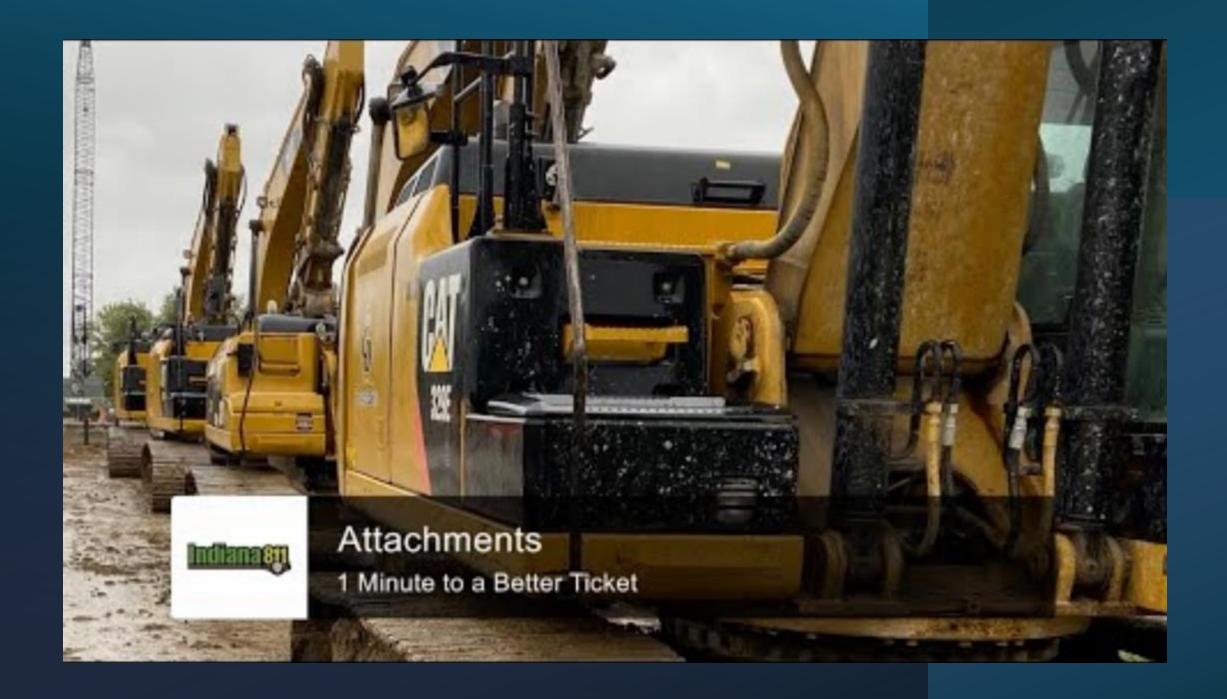




## **Utilizing white lining**

A clearly delineated proposed work area allows facility owners/operators and locators to avoid unnecessary work created by locating facilities that are not affected by the planned excavation, and ensure that underground facilities within the intended work area are well marked. Electronic white lining provides a method where excavators may indicate their defined dig area visually by electronic data entry (lines or polygons) without the need for a physical site visit. Premarking, on-site and/or electronically, allows excavators to accurately communicate to the 811 center, facility owners/operators, or their locator where excavation is to occur.



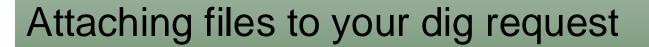


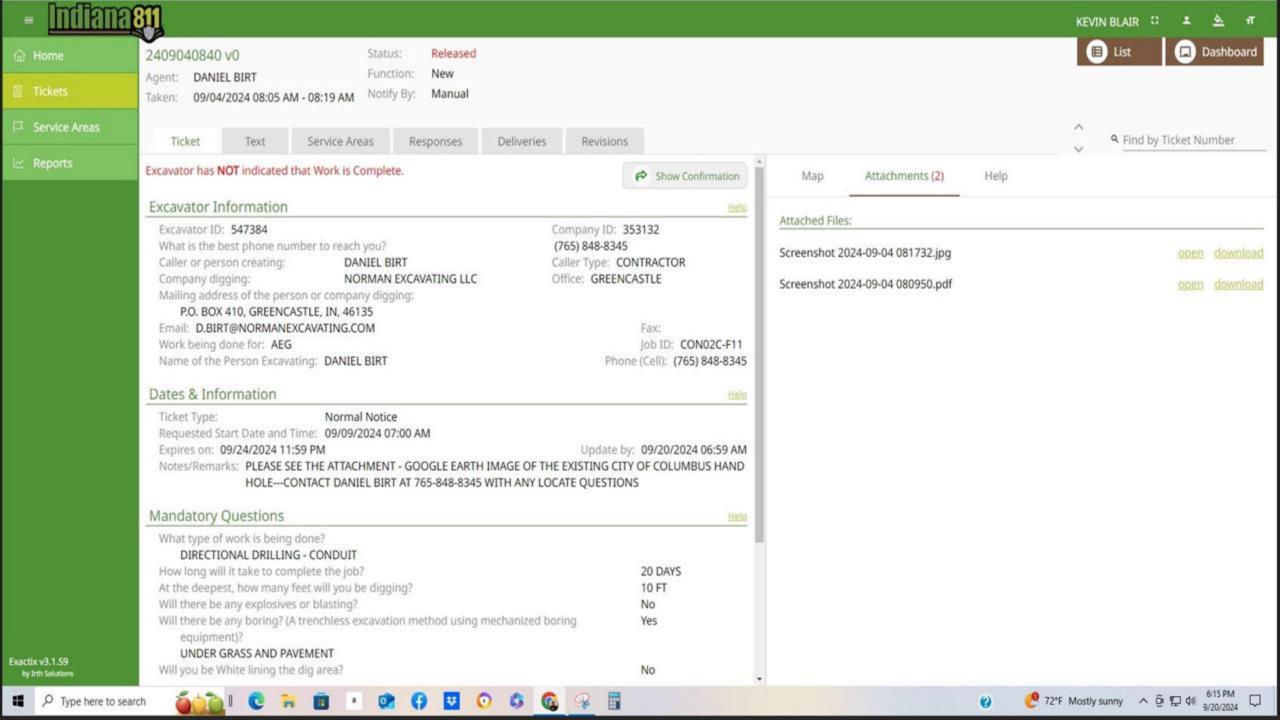


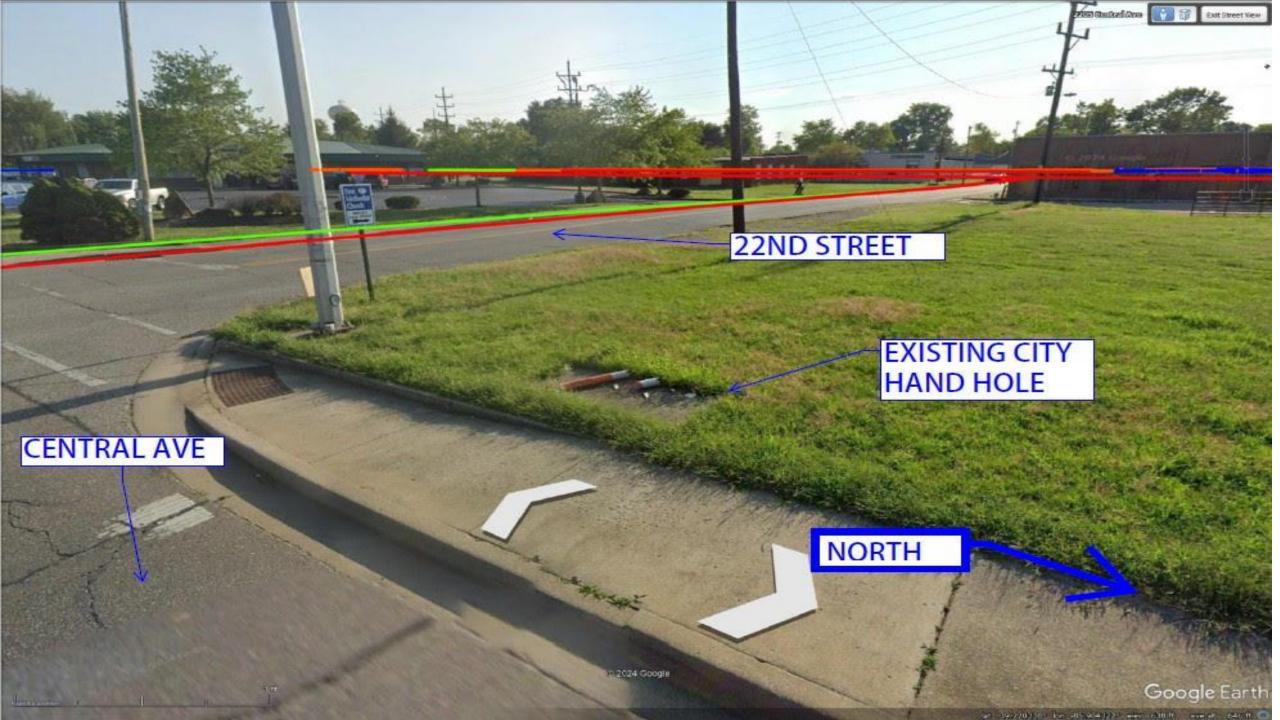


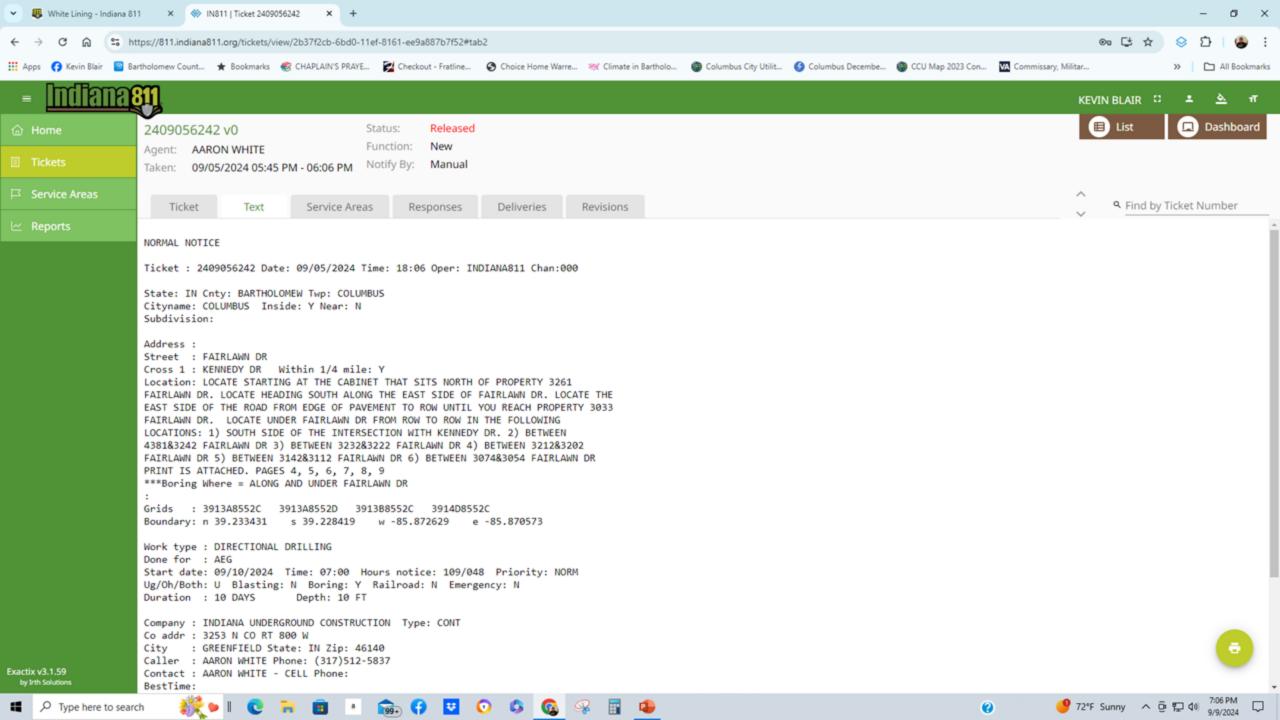


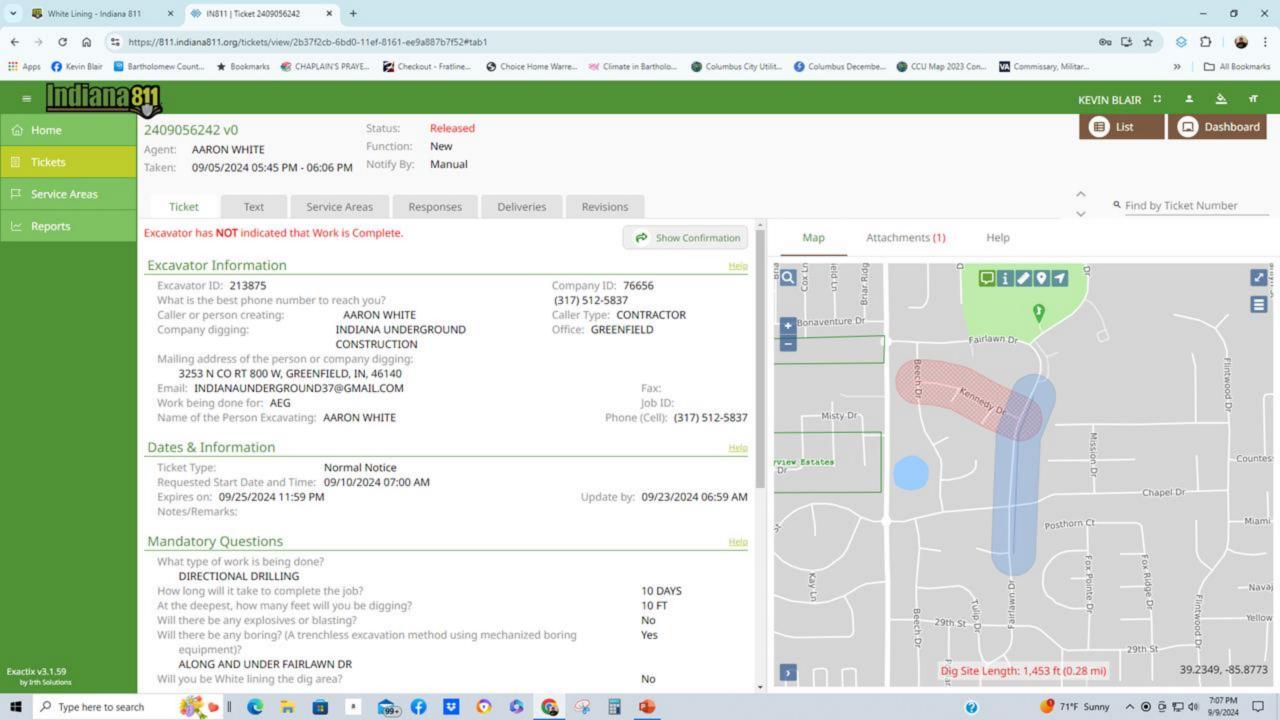


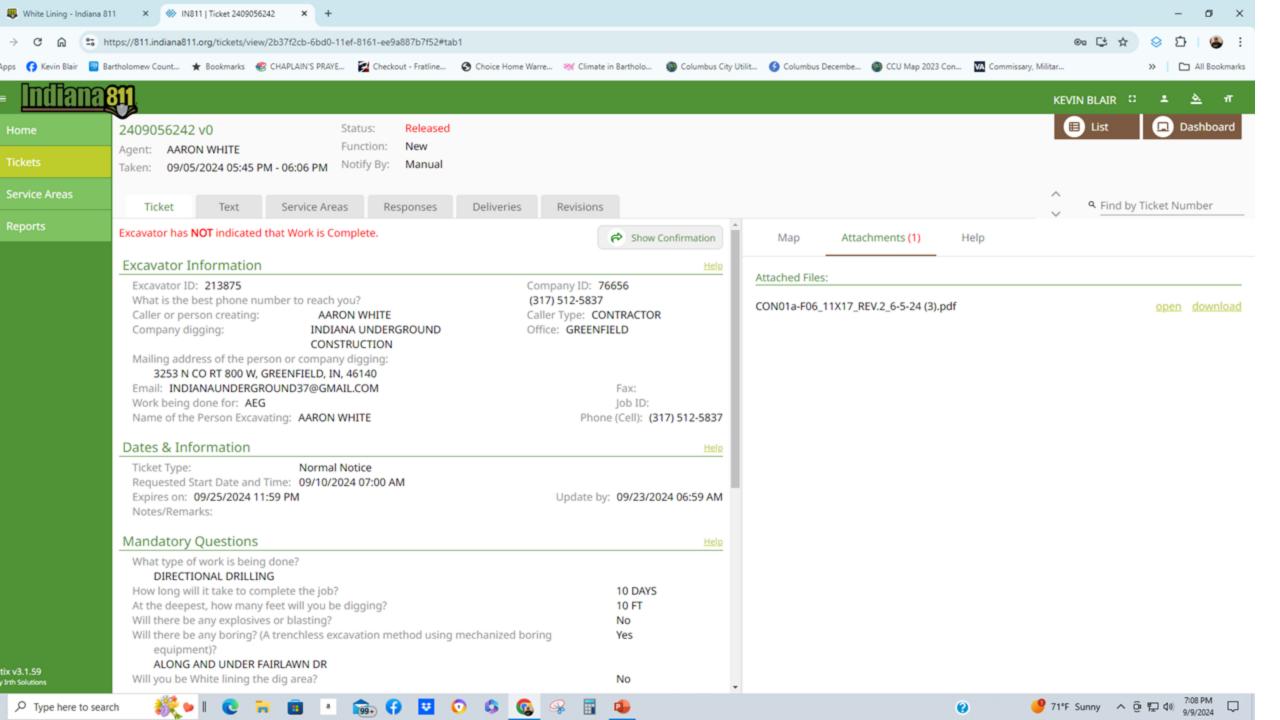












### RE: White Lining Issues



⊕ ← Reply ← Reply A

Kevin:

We go over this with all the crews when they are on-boarded, but I will make sure to cover it again this week with all the crews to make sure that they are doing it. Some of the newer crew but we will make sure to reiterate the point.

Thanks,

Dan

From: Blair, Kevin < kblair@columbusutilities.org>

Sent: Tuesday, September 10, 2024 9:31 AM

To: Steve Apraham <steve.apraham@aeg.cc>

Cc: Dan Heavner < dan.heavner@aeg.cc>

Subject: White Lining Issues

Morning Dan and Steve,

Can I get you guys to do me a favor and make sure the newest bore crews are white lining their jobs so we can be more efficient so we can stay ahead of them by us not taking the eare not needed and slow us down. You all almost need Kevin with L and A teach them he does a wonderful job with it. Mainly Norman, JGB and Indiana Underground needs to start Appreciate any help you can give us on this.

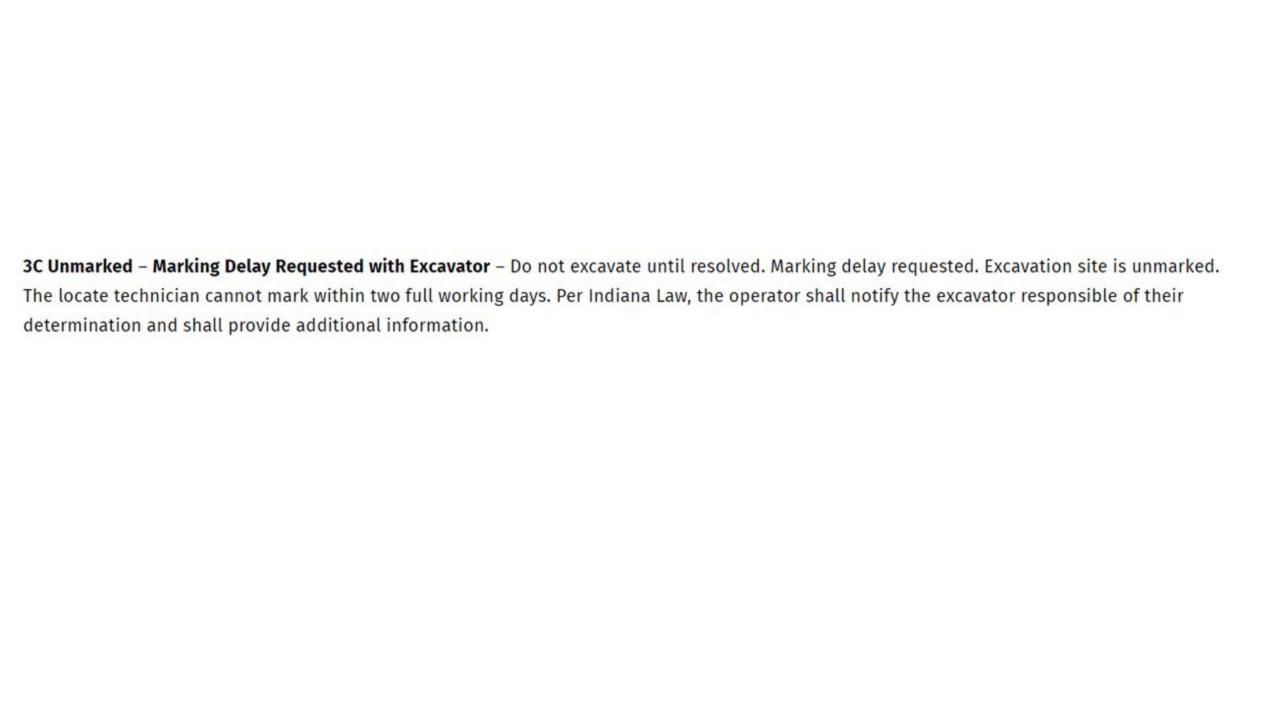


#### Kevin Blair

Engineering Supervisor 1111 McClure Road | P.O. Box 1987 Columbus, IN 47202-1987

Phone: 812-344-6070 (cell)





1A: Do not excavate. A high-profile utility is in the area of the proposed excavation; the utility owner WILL attempt to contact you to schedule surveillance.

1B: A high-profile utility is <u>in the area of</u> the proposed excavation; the utility owner MAY attempt to contact you to schedule surveillance.

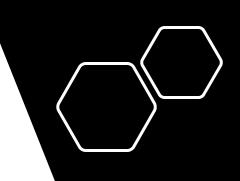
1C: The work is being done by the facility owner or the facility owners' master contractor is responsible for locating facilities.1: Underground facilities in the proposed excavation area have been marked.

2: No underground facilities are in the proposed excavation or design area.

3A: Do not excavate until resolved. The locate technician could not gain access to property; the excavator must provide access and submit a new ticket.

3B: Do not excavate until resolved. Incorrect address information. Contact Indiana 811.

3C: Do not excavate until resolved. Marking delay requested. Excavation site is unmarked. The locate technician cannot mark within two full working days. Per Indiana Law, the operator shall notify the excavator responsible of their determination and shall provide additional information.



3D: Do not excavate until resolved. The locate instructions are unclear. Contact Indiana 811.

3E: The excavator has performed the excavation prior to the locators' arrival.

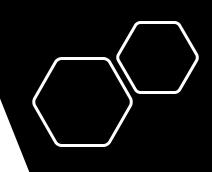
3F: Do not excavate until resolved. The line is <u>untonable</u> and the utility has been notified to resolve the issue. Per Indiana Law, the operator shall notify the excavator responsible of their determination and shall provide additional information.

3G: The locate technician has partially marked an area but cannot mark the entire proposed excavation area within two full working days. Per Indiana Law, the operator shall notify the excavator responsible of the operator's determination and shall provide additional information. Do not excavate the proposed excavation area that has not been located.

4: Private Line - This is a private <u>line</u> and it is not the responsibility of the members of Indiana 811 to locate private facilities. For more information, please visit <a href="https://indiana811.org/myutilities/">https://indiana811.org/myutilities/</a>.

5A: Design Notice - Installation records, maps, or other documents have been provided.

5B: Design Notice - Underground facilities have been marked.



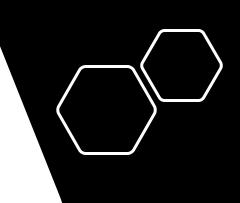
6A: Your proposed meeting is in conflict, and we are unable to meet on site. The utility owner may attempt to contact you.

6B: Request accepted at stated date and time.

6C: The meeting has taken place.

7: Damage notification acknowledged.

9Z: This is an 811 assigned code used for testing purposes. Please disregard.





### DigTix On-Time Report (by Facility Owner)

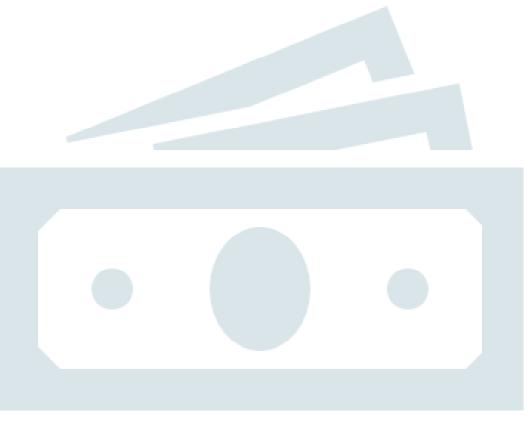
(CSV)

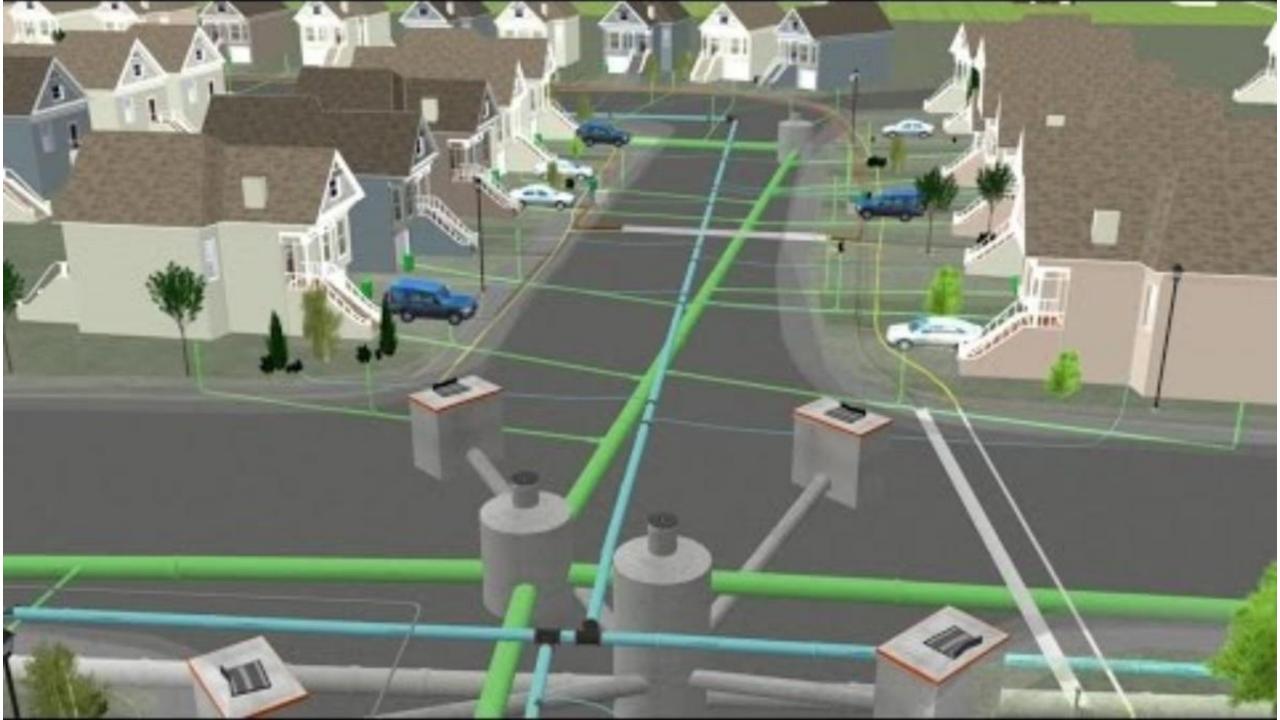
Responses Sent 09/01/2024 to 09/27/2024 (calculated using positive response due date)

Facility Owner	Responses Due	Responses Due And Sent On- Time	Responses Due And Sent Late / Overdue	Responses Due And On-Time %	Responses Sent	Sent On-Time	Sent Late	Sent On-Time %
Columbus IN	1307	1170	137	89.52	1345	1175	170	87.36

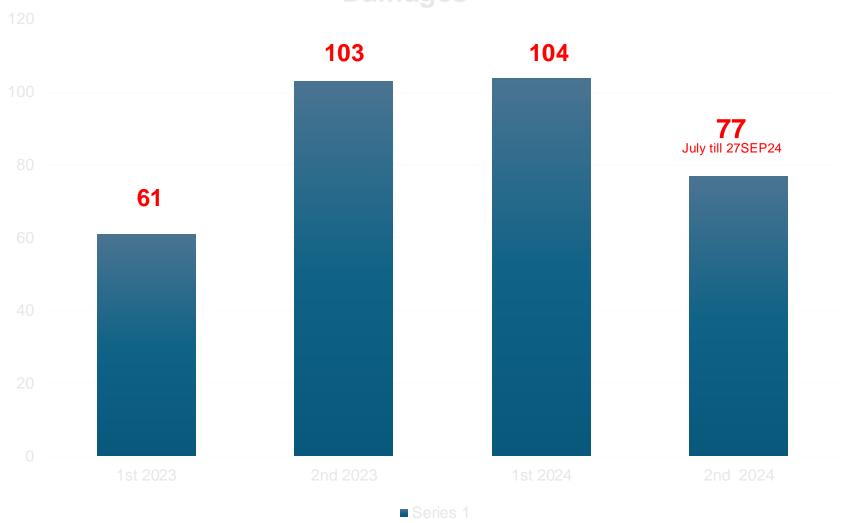
# DAMAGES



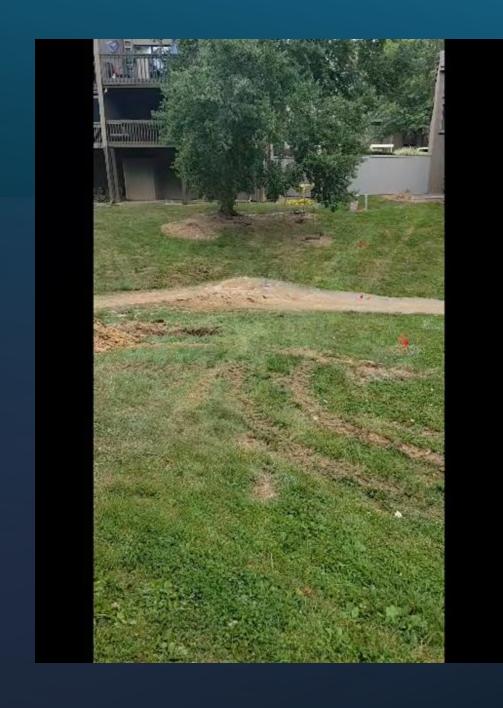




### **Damages**





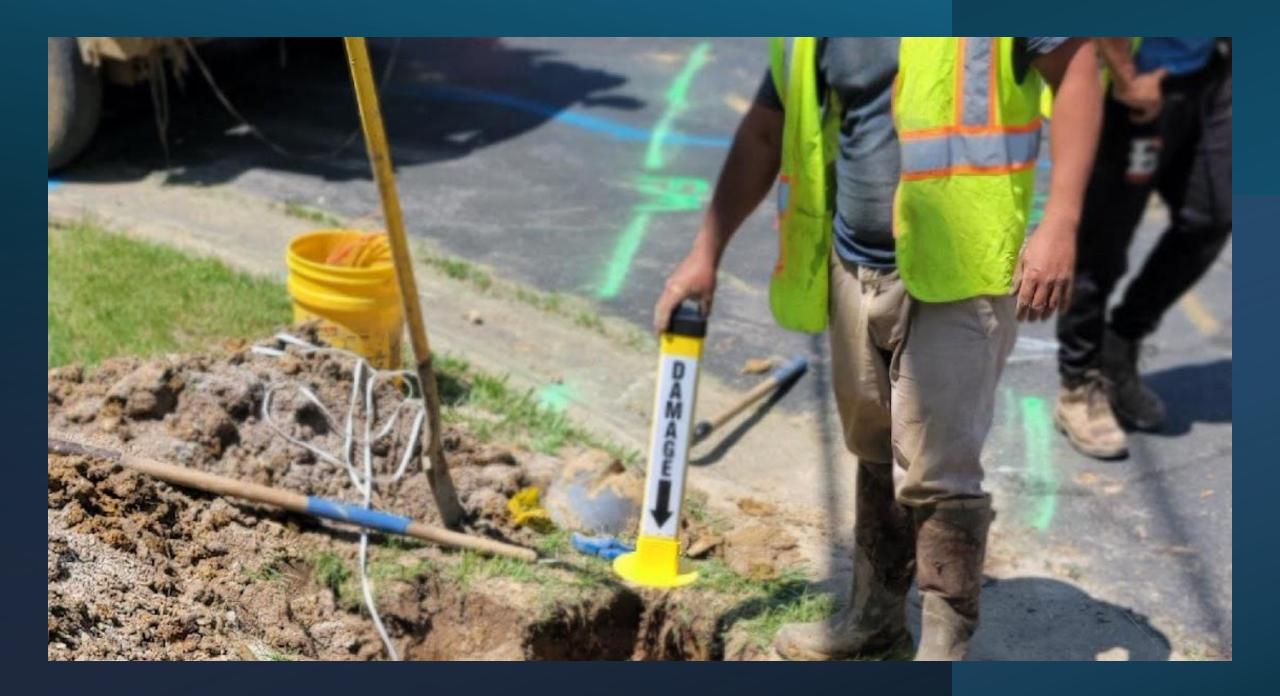






- Pictures and hit kits are great tools to have on any damage
- Pictures when the dig request is located is evidence that the utility was marked
- Pictures by contractor before starting job can show what was marked







## **Underground Protection Formula**

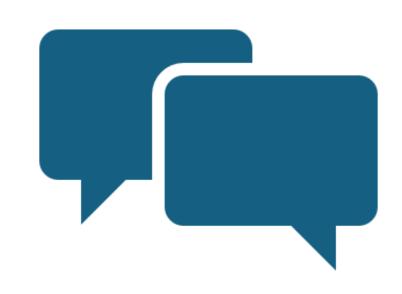
Team Desire + Team Dedication +
Hard Work = <u>Successful</u>
<u>Infrastructure Protection</u>



QUESTION S



COMMENT S





### • 1 Final Question

How many of you in here are actual locators?

• The real answer is none of you!





A locator is what you use to find underground utilities, you purchase or use locators.

Remember this - you are an Underground Infrastructure Protection Specialist