



Damage Prevention

Presentation

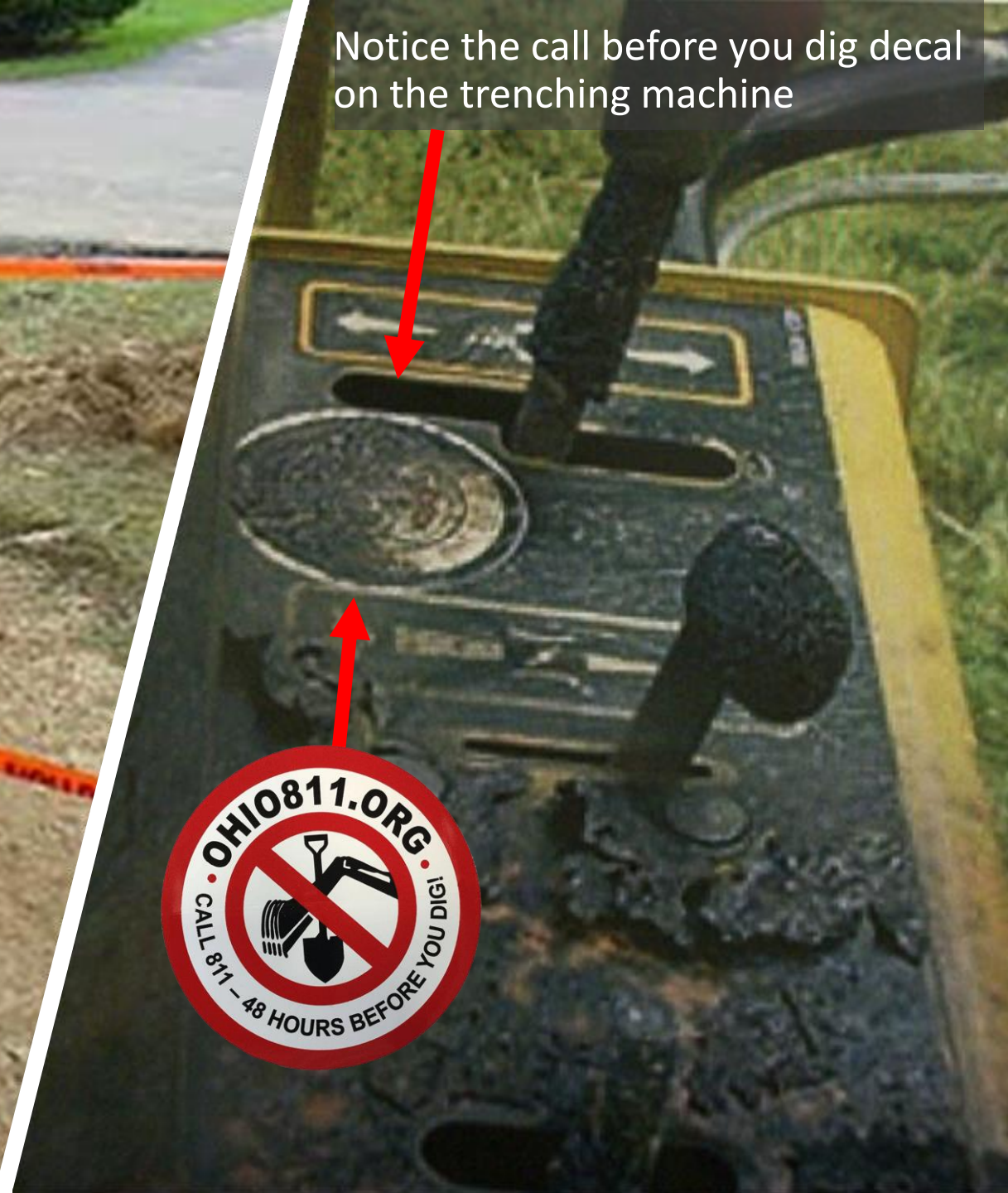
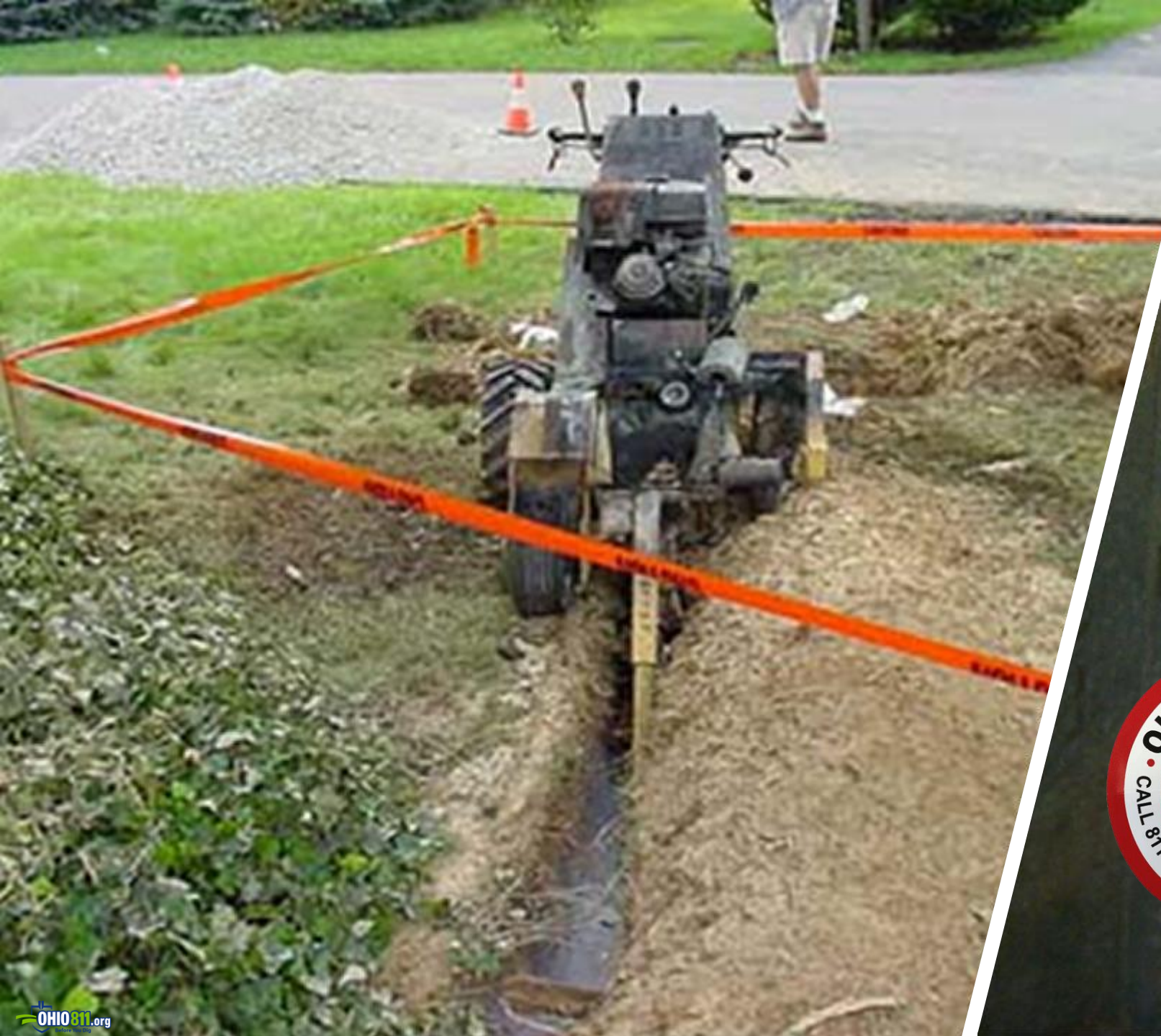


OHIO811 is the
“Call Before You Dig”
notification center
for the state of Ohio.

OHIO811 is the communication
link between those who own
and operate underground utility
facilities and those with a desire
to excavate.



Notice the call before you dig decal on the trenching machine



AGENDA

- OHIO811
- Excavator Responsibilities
- OHIO811 Process - Being A Prepared Caller
- Utility Owner Responsibilities
- Marking Standards
- Senate Bill 378



Our History

- Serving Ohio for 52 Years
- Not-For-Profit
- Free Service
- Open 365 days a year
 - Call Center – 6am-6pm
 - Emergencies/RTE – 24/7
- Protection Service: OHIO811 **does not** mark lines

Excavator Responsibilities

ORC 3781.25 (I) DEFINITION OF AN EXCAVATION

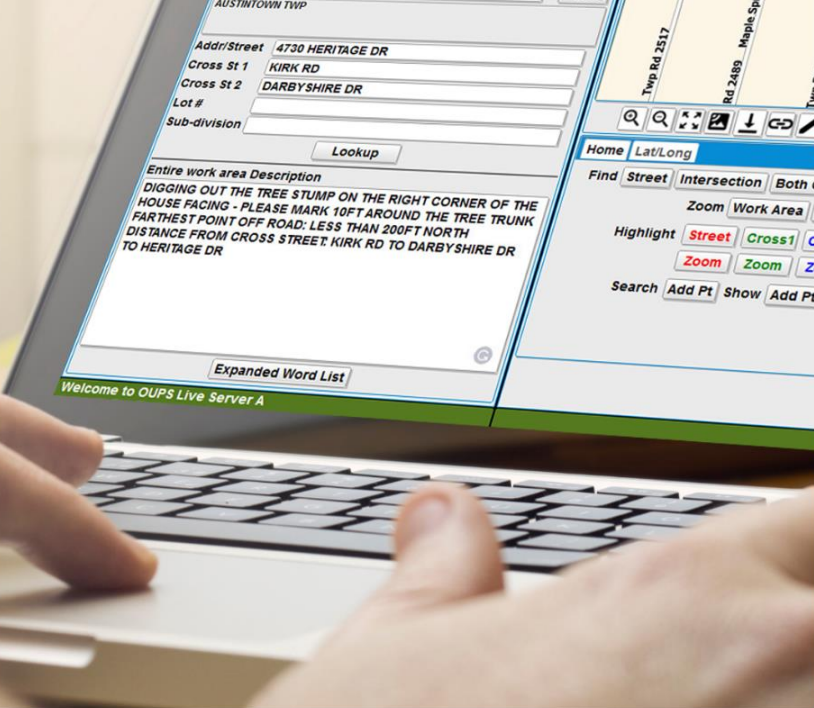
“Excavation means the use of hand tools, powered equipment, or explosives to move earth, rocks, or other materials in order to penetrate or bore or drill into the earth...”
Excavator Manual Page 6





Plan Work

- ORC 3781.29 (D)(F)(1-4) Pre-marking in *White Excavator Manual Page 21*
- Excavator shall define and pre-mark the approximate location.
- Proposed construction or excavation markings shall be made in white through the use of an industry-recognized method such as:
 - Chalk-based paint
 - Flags
 - Stakes
 - Other method applicable to the specific site
- When possible, indicate the excavator's identity by:
 - Name
 - Abbreviation
 - Initials



(F) “An excavator is **NOT** required to pre-mark the approximate location of an excavation as provided in division (D) of this section in any of the following situations:

- (1) The utility can determine the precise location, direction, size, and length of the proposed excavation site by referring to the notification provided by the protection service.
- (2) The excavator and the affected utility have had an on-site preconstruction meeting for the purpose of pre-marking the excavation site.
- (3) The excavation involves replacing a pole that is within five feet of the location of an existing pole
- (4) Pre-marking by the excavator would clearly interfere with pedestrian or vehicular traffic control.”



LOCATE WORK ORDER

CALL 48 HOURS BEFORE YOU DIG – 800-362-2764 or 8-1-1

COLOR CODES: **Red** = Electric **Orange** = Phone/Cable TV **Yellow** = Gas **Blue** = Water **Green** = Sewer
Purple = Reclaimed Water, Irrigation and Slurry Lines **Pink** = Temporary Survey Markings
White = Proposed Excavation

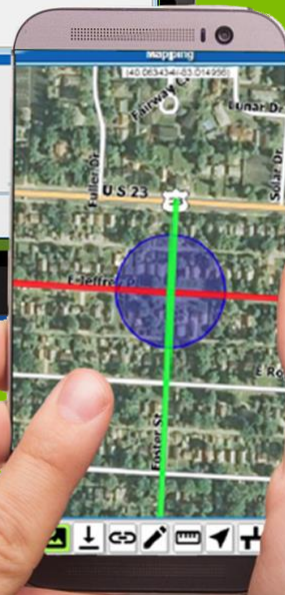
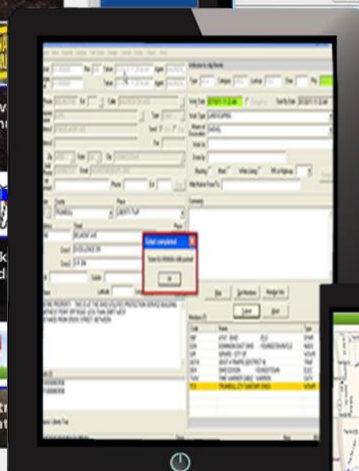
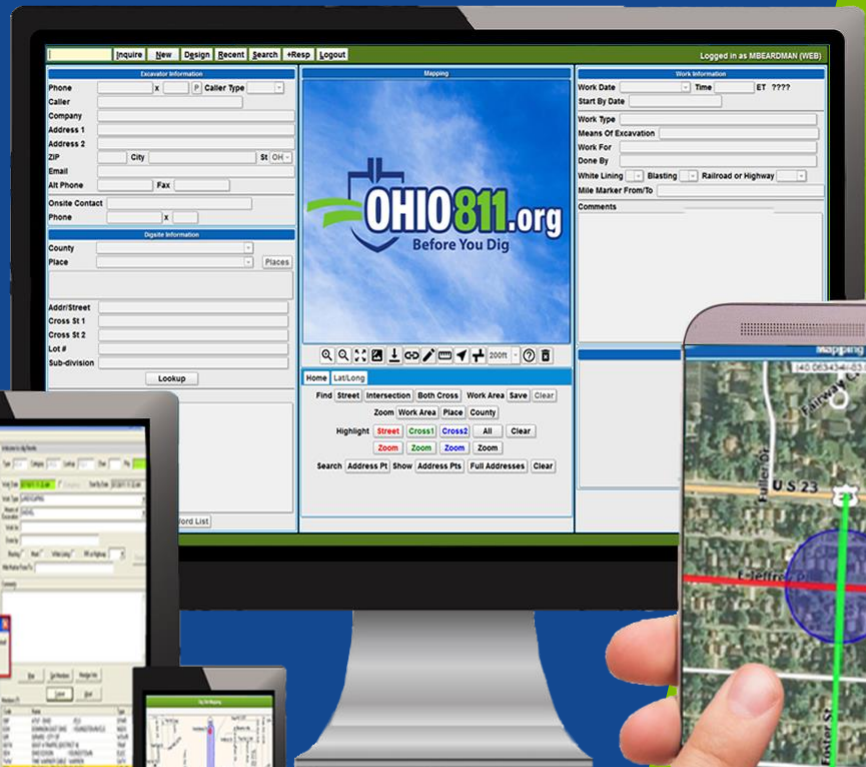
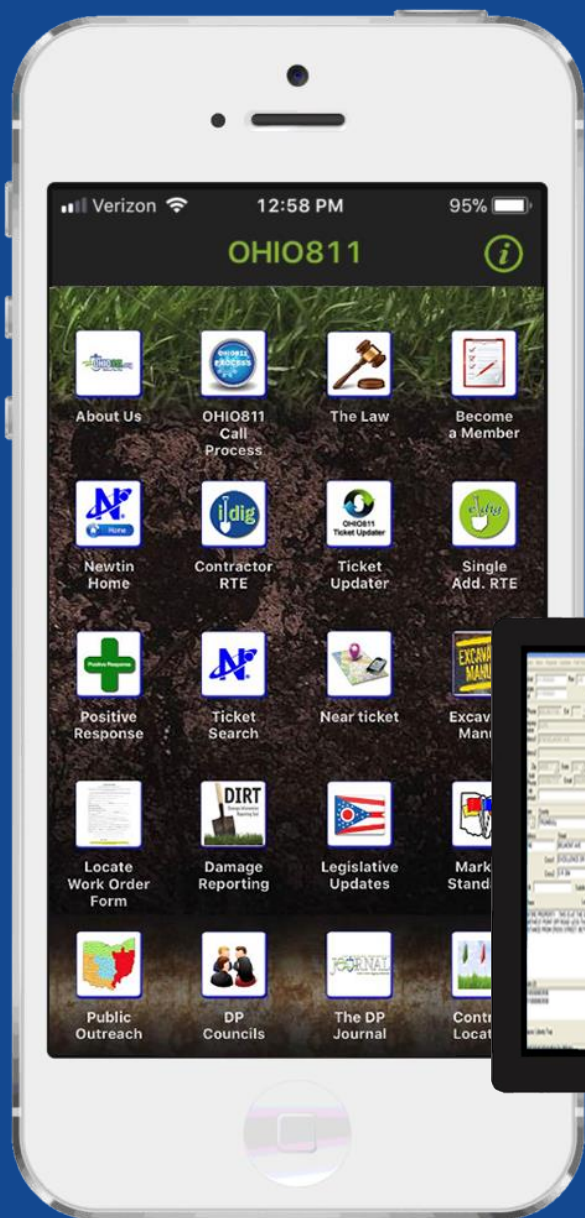
HAVING ALL REQUIRED INFORMATION HELPS TO ENSURE A MORE ACCURATE & TIMELY LOCATE

Contact Phone #: 123-234-2233 Additional Phone #: 123-234-3456
Caller Name: John Doe Company Name: ABC Excavating
Company Address: 456 Excavating Road
Email: jd@abcexcavating.org Onsite Contact/Phone #: 123-234-3333
County: Clermont City/Township: Goshen/Stonelick
Address/Location of Work: 123 South Bend Road
Extent of Work: Front/Sides/Rear: Front of Property
Farthest Distance/Direction back off Road: 300 Feet North of
Lot #: 3 Subdivision: Valley View Builder Name: N/A
Cross / Between Streets: _____
Distance & Direction from Cross Street: ¼ Mile North of Sycamore
Date of Excavation: June 1, 2019 Start Time of Excavation: 0800 hrs
Type of Work: Water line install Means of Excavation: Mini Excavator
Working for Company: QRS Water Work Done By Company: ABC Excavating
Blasting: No Pre Markings: No Meet: No RR Right of Way: Yes Highway: No
Mile Marker At/From: N/A
Comments: Area pre-marked with white flags. Please locate
25ft in all directions of pre-marks.
Reference Number: A915500134

Locate Work Order

Excavator Manual Page 9

This form is only meant to be used as a reference for anyone requesting locates for an excavation. If the information on this form is gathered prior to contacting us, your time on the phone will be significantly reduced.
All locates must be called into the center. No email or fax requests are accepted.



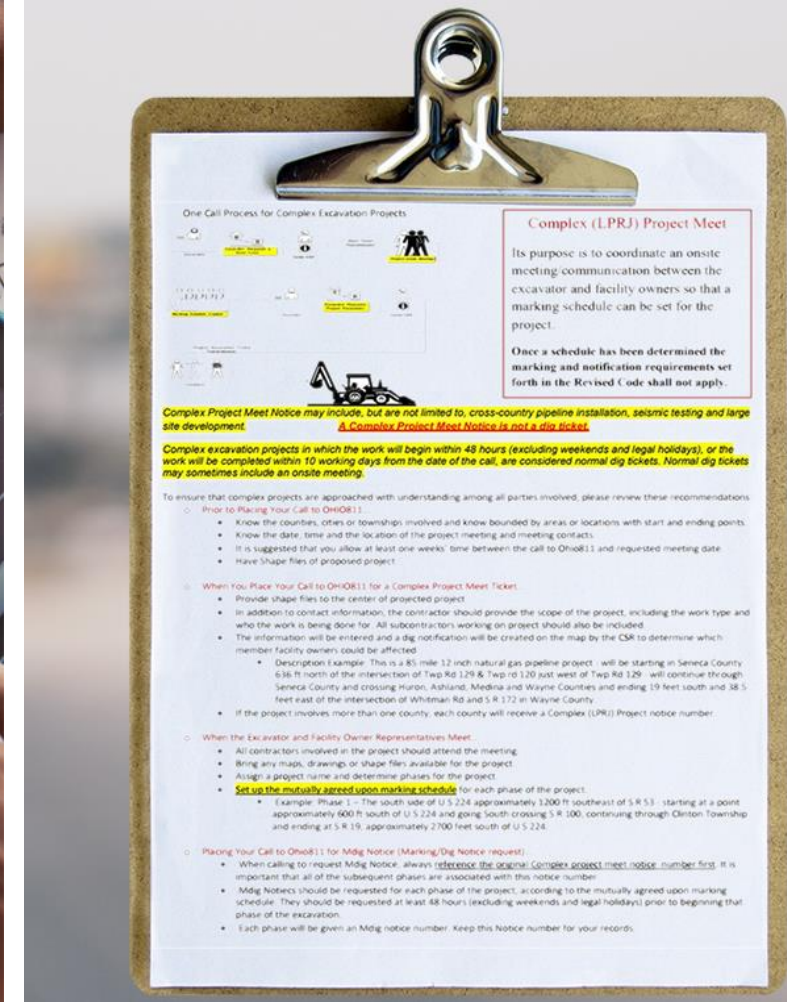
- Click, Call or Tap the App – *Excavator Manual Page 8*
- Remote Ticket Entry
 - i-dig
 - e-dig
 - Ticket Updater
 - Call 800-362-2764 or 811



ROUTINE 48 HOUR
TICKET



DESIGN TICKET



COMPLEX PROJECT
(LPRJ)

Three Types of Tickets



Routine 48 hour ticket

- ORC 3781.28(A) "... at least forty-eight hours but not more than 10 working days before commencing excavation, the excavator shall notify a protection service of the location of the excavation site..."

Emergencies

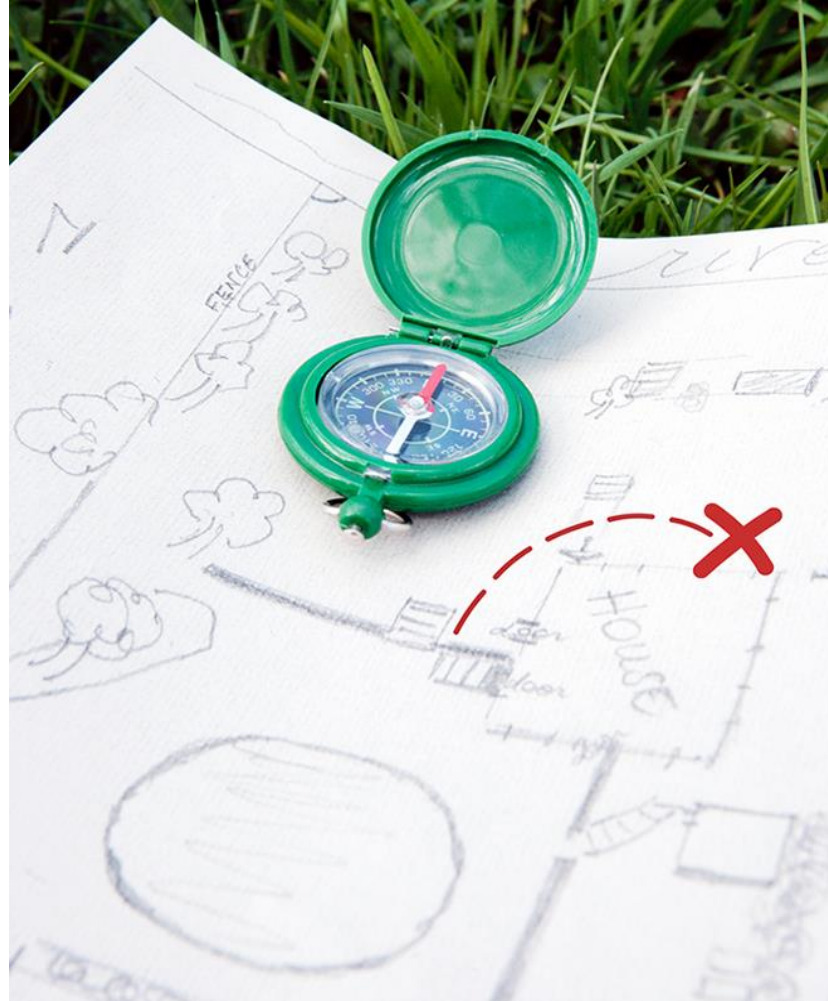
- ORC 3781.25(V) "sudden or unexpected occurrence involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to life, health property, or essential public services"

OHIO811 Ticket Process





ALL INFORMATION SUBMITTED ON
A TICKET IS IMPORTANT WHEN
DETERMINING THE PROPER
EXCAVATION AREA TO BE MARKED



A DESCRIPTION IS LIKE AN X ON A
TREASURE MAP



REQUESTING SPECIFIC DIG AREAS
AND PRE-MARKING IN WHITE HELP
ASSURE MORE ACCURATE AND
TIMELY MARKINGS



CAN THE FACILITY
OWNER/LOCATOR FIND THE DIG
AREA VIA YOUR DESCRIPTION



REQUESTING UNNECESSARY
LOCATE AREAS CAN HAVE A
NEGATIVE EFFECT ON RECEIVING
TIMELY LOCATES



SUBMITTING A TICKET REQUEST
TOO FAR IN ADVANCE AND
REQUESTING REMARKS WITHOUT A
SCHEDULED DIG DATE CAN HINDER
MULTIPLE STAKEHOLDERS

- CSR Verification – Listen Closely
- Reference Number
- We Notify Our Members But **Not All Utilities Are Registered** With OHIO811
- Wait 48 Hours Before You Begin Excavation
- Check Positive Response – *Excavator Manual Page 10*
 - Excavator has an obligation to check positive response
 - www.oups.org/positive-response/ or 800-445-3894



001 NO CONFLICT

Underground facilities operated by this member are not in conflict based on information provided in the Excavation Request.

002 MARKED

Underground facilities operated by this member at the site of proposed excavation have been marked up to the privately owned facility.

003 EXCAVATOR REQUEST CANCELLED (CNCL)

Excavator has cancelled this excavation request.

004 LOCATOR COORDINATION

Locate request has not been completed. **Locator** has/will contact the excavator to coordinate markings.

005 FACILITY OWNER OR OPERATOR COORDINATION

Locate request has not been completed. **Facility Owner or Operator** will contact the excavator to coordinate markings.

006 HIGH PROFILE OR CRITICAL FACILITY

Facility Owner or Operator requests to be present for the excavation in accordance with ORC 3781.31 (A). Excavator must provide notification of at least one full working day prior to commencing excavation.

007 COMPLEX PROJECT (LPRJ)

This response is designated for use with a Complex Project notification only.

008 DESIGN NOTIFICATION (DSGN)

Facility Owner or Operator has completed the design request in accordance with ORC 3781.27 (C) or 153.64 (B) (2).

009 WORK COMPLETE

The Facility Owner or Operator or their representatives has deemed the excavation to have been completed prior to the legal start date.

999 NO RESPONSE (LATE)

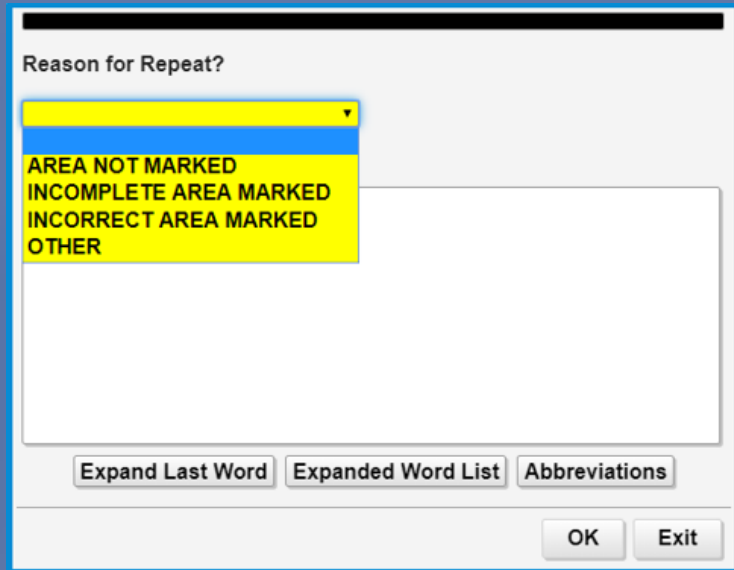
The Facility Owner or Operator or its representatives has not posted a Positive Response prior to the legal start date. A "LATE" notification has automatically been sent to the Facility Owner or Operator.

Remember to...

- Perform Site Assessment
- Dig With Care
- Update Faded Or Marks That Are No Longer Visible



When to Repeat and/or Update a Ticket.....



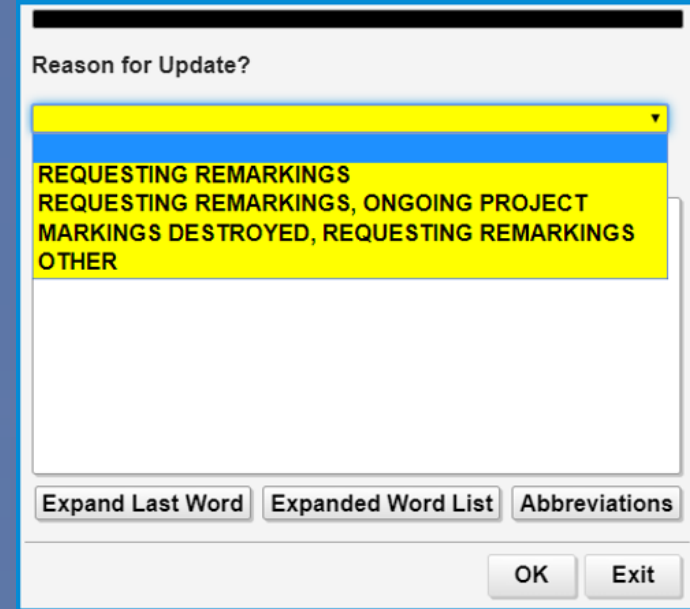
Reason for Repeat?

AREA NOT MARKED
INCOMPLETE AREA MARKED
INCORRECT AREA MARKED
OTHER

Expand Last Word Expanded Word List Abbreviations

OK Exit

- When a notification request was not marked within the 48 hour notice
- Markings are incorrect or incomplete for any reason



Reason for Update?

REQUESTING REMARKINGS
REQUESTING REMARKINGS, ONGOING PROJECT
MARKINGS DESTROYED, REQUESTING REMARKINGS
OTHER

Expand Last Word Expanded Word List Abbreviations

OK Exit

- When a notification request needs to be remarked by the facility owners due to markings being destroyed or removed
- You never started your work within the 10 working days of the original start date and time



Use of Trenchless Technologies

Excavator Manual Page 5

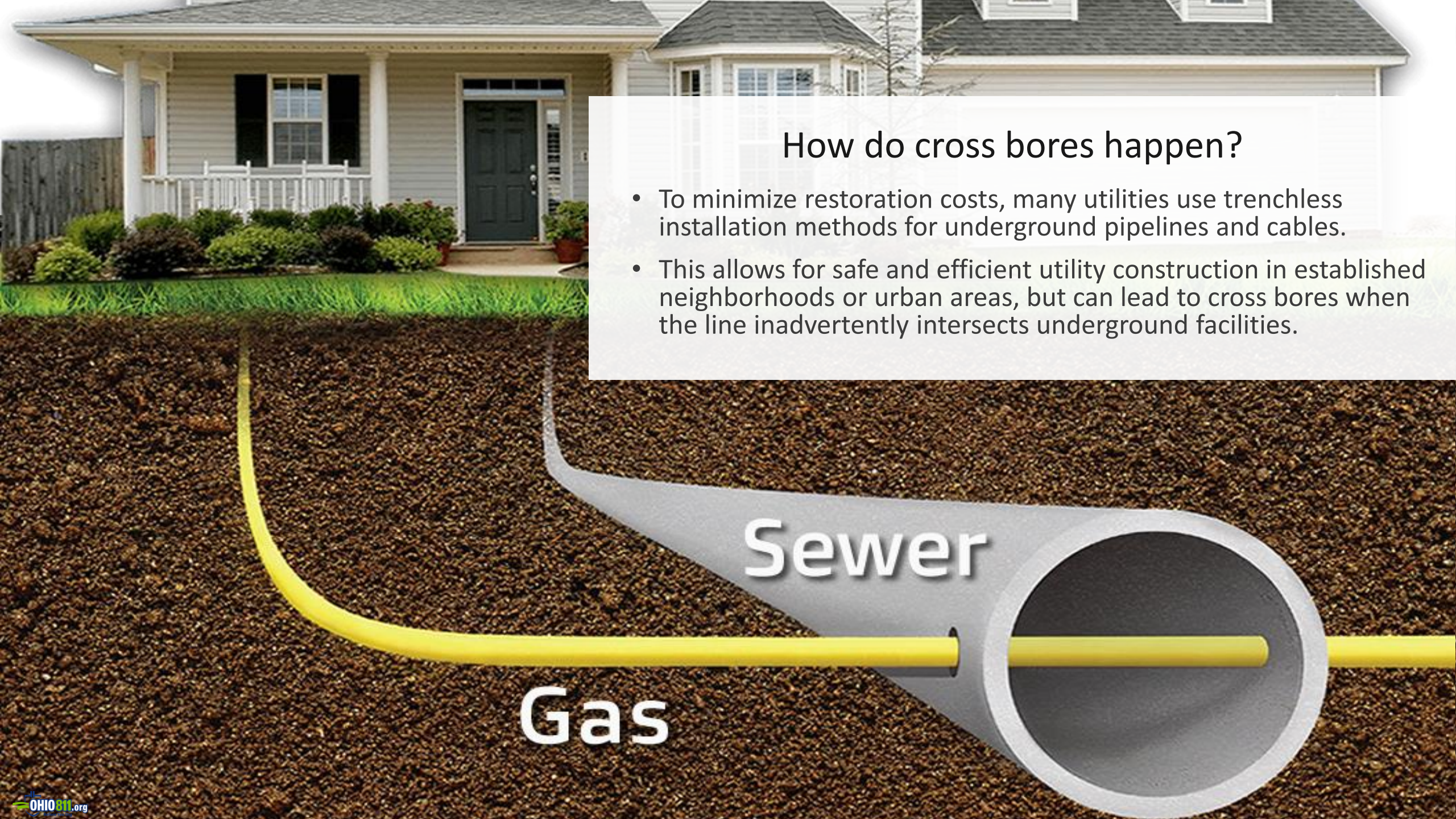
When utilizing trenchless excavation methods, the excavator must comply with the following requirements:

1. Expose all underground utility facilities at each crossing point to the installation depth of the new facility.
2. Expose all parallel facilities at the beginning and end. If in the tolerance zone, facility shall be exposed every 100 ft.
3. Maintain the proper clearances of existing facilities.



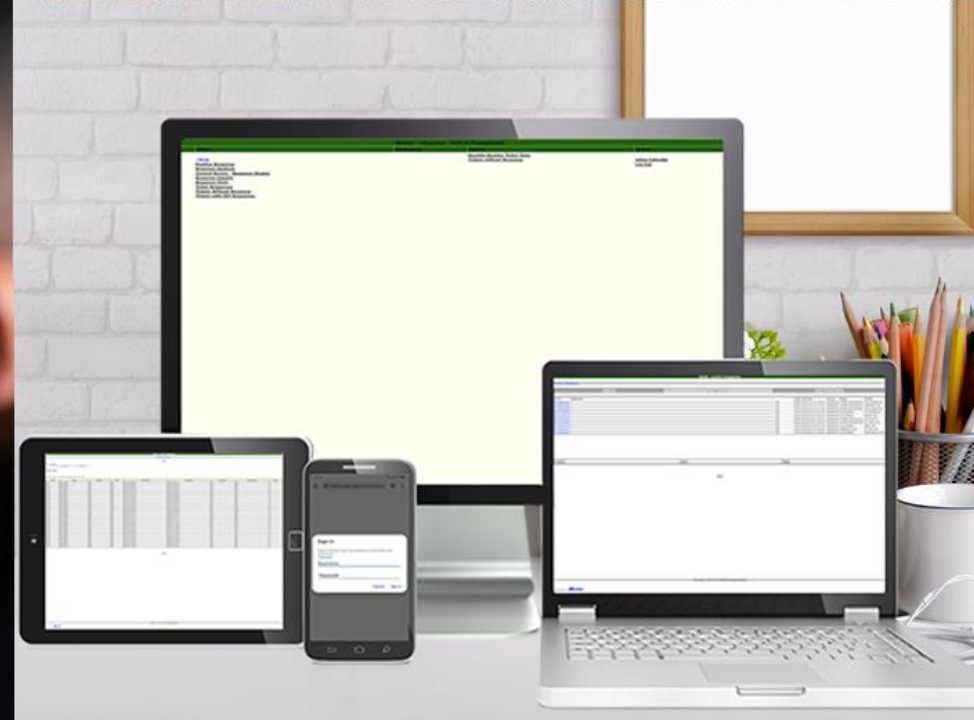
How do cross bores happen?

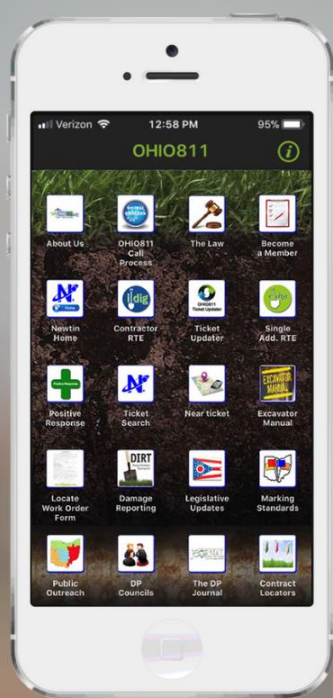
- To minimize restoration costs, many utilities use trenchless installation methods for underground pipelines and cables.
- This allows for safe and efficient utility construction in established neighborhoods or urban areas, but can lead to cross bores when the line inadvertently intersects underground facilities.



Facility Owner Responsibilities

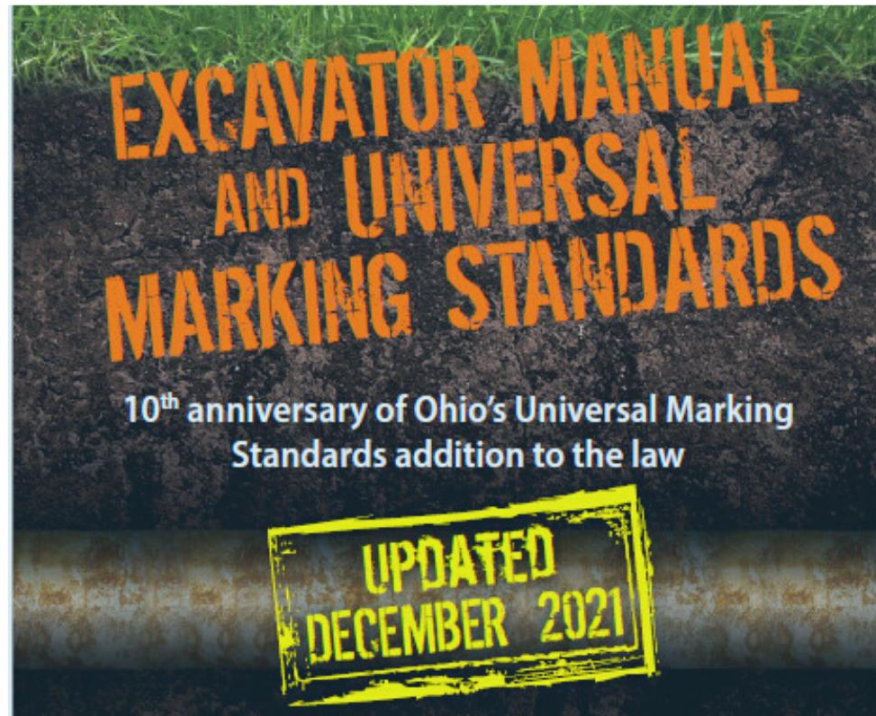
- ✓ Required To Participate In A Protection Service
- ✓ Required To Mark The Approximate Location Within 48 Hours
- ✓ Respond To Design Tickets in 10 Days
- ✓ Required To Provide Positive Response Within 48 Hours





Mobile App Features

- The Law
- Excavator Manual
- Positive Response
- Near Ticket
- Ticket Updater
- i-dig
- e-dig



Positive Response

- Positive response is a closing of the communication loop.

ORC 3781.26 (D)

“Each utility fully participating in a protection service pursuant to this section shall also participate in its affiliated positive response system. Each utility participating in a protection service on a limited basis shall directly communicate to the excavator the presence or absence of any conflict between the existing underground utility facilities and the proposed excavation site.”

09:23 LTE

OHIO811

Newtin

Ticket Submit

Copyright (c) 20

Powered by Newtin

Done

Q W E R T Y U I O P

A S D F G H J K L

↑ Z X C V B N M ↵

123 space go

😊 🎤

11:27

OHIO811

Newtin - A (OUPS Youngstown)

Response Display

Ticket Submit

Ticket	Revision	Address	Street	Cross street	Company
Latest revision: 00B	3810	MIAMI AVE	W 38TH ST		

Code	Name	Response	Description	Responded	Revision	URL
LORS	LORAIN - CITY OF (SEWER)	001	No Conflict - Underground facilities operated by this member are not in conflict based on information provided in the Excavation Request.	02/03/22 11:25:49	00B	
LORTR	LORAIN - CITY OF (TRAFFIC)	001	No Conflict - Underground facilities operated by this member are not in conflict based on information provided in the Excavation Request.	02/03/22 11:50:11	00B	
LORW	LORAIN - CITY OF (WATER)	002	Marked - Underground facilities operated by this member at the site of proposed excavation have been marked up to the privately owned facility.	02/04/22 09:52:30	00B	
OED	OHIO EDISON - (USIC)	002	Marked - Underground facilities operated by this member at the site of proposed excavation have been marked up to the privately owned facility.	02/07/22 06:19:13	00B	
PIFP	COLUMBIA GAS OF OHIO-LORAIN (UTILIQUEST)	002	Marked - Underground facilities operated by this member at the site of proposed excavation have been marked up to the privately owned facility.	02/04/22 13:53:17	00B	

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Near Ticket

- Near ticket application displays notifications within 28 days and a 1,000ft in all directions from the point you are standing.

Verizon LTE8:26 AM99%

<OHIO811

Newtin Near Ticket

Get Tickets

Ticket	Address
B202100331-00B	COMMISSIONER DR / undefined
A203500010-00A	MAHONING AVE / undefined
A202601146-00A	MAHONING AVE / undefined

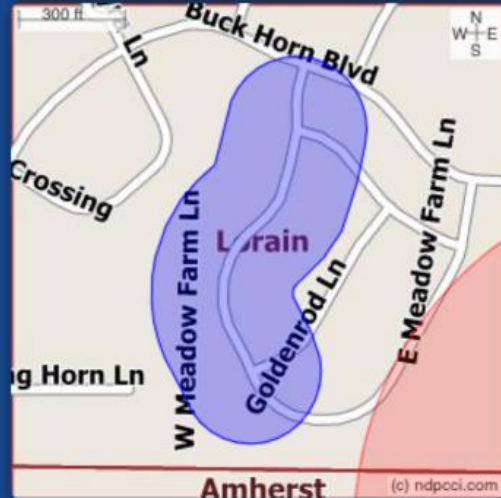
© 2015 Norfield Development Partners

09:21LTE

<OHIO811

A001200328-00A6196 W MEADOW FARM LN

Details for: A936401138-00A
State: OH
County: LORAIN Place: LORAIN
Street: 6196 W MEADOW FARM LN
Cross 1: BUTTERCUP LN
Cross 2: GOLDENROD LN
Location: ENTIRE PROPERTY- FROM HOUSE TO PED FARTHEST POINT OFF ROAD: LESS THAN 200 FT DISTANCE FROM CROSS STREET: ADDRESS BETWEEN AREA IS MARKED IN TEMP LINE
Company: UNDERGROUND TECHS LLC
Work Type: PHONE LINE INSTALLATION
Work Date/Time: 01/30/2020 10:37:00 AM



Rev: -00A AMM

09:22LTE

<OHIO811

Rev: -00A AMM
WIDE OPEN WEST - CLEVELAND
001 No conflict
12/30/2019 12:06:00

Rev: -00A LORS
LORAIN - CITY OF (SEWER)
001 No conflict
12/31/2019 09:01:22

Rev: -00A LORTR
LORAIN - CITY OF (TRAFFIC)
001 No conflict
12/30/2019 13:11:21

Rev: -00A LORW
LORAIN - CITY OF (WATER)
001 No conflict
12/30/2019 12:49:46

Rev: -00A OED
OHIO EDISON - (USIC)
002 Marked - up to privately owned utility
12/30/2019 14:55:54

Rev: -00A PIF
COLUMBIA GAS OF OHIO-LORAIN (UTILIQUEST)
001 No conflict
12/30/2019 14:30:10

Rev: -00A UTBP
CTLCL - CENTURYLINK (USIC)
~~001 No conflict~~

Ticket Updater

- OHIO811 Ticket Updater application allows excavators to update a locate request that has been processed through OHIO811 within the past 90 days.
- Please be aware that you must provide the ticket number and the phone number used when the ticket was originally processed to gain access to this application.
- No emergency.
- No request that is less than the required 48 hours and not more than 10 days (excluding weekends and legal holidays).
- No Pre-Planning/Design requests.

The image displays two overlapping screenshots of the 'Ticket Updater' application. The top screenshot shows the initial form with a green header 'Ticket Updater' and 'Ohio Utilities Protection Service'. Below the header, it prompts the user to 'Please enter the ticket number and who is requesting the update'. The form includes input fields for 'Ticket #', 'First Name', 'Last Name', 'Phone #', and 'Email Address (optional)', followed by a 'Submit' button. The bottom screenshot shows the application after submission, displaying the ticket details: 'Ticket A730790001-00A' and 'Start by 11/20/2017'. It features buttons for 'Update Another' and 'Exit to OUPS', along with the 'OHIO Utilities Protection SERVICE' logo and the slogan 'Click, Call or Tap Before You Dig'.

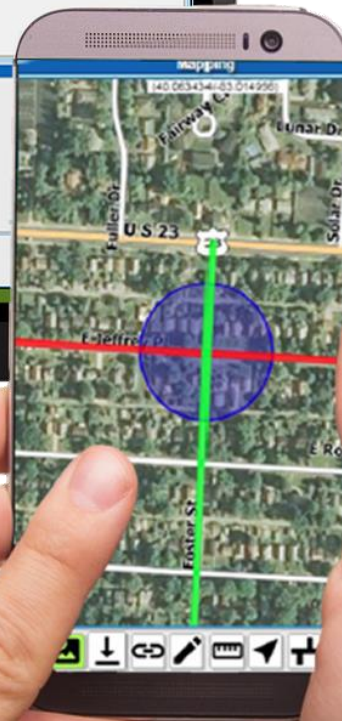
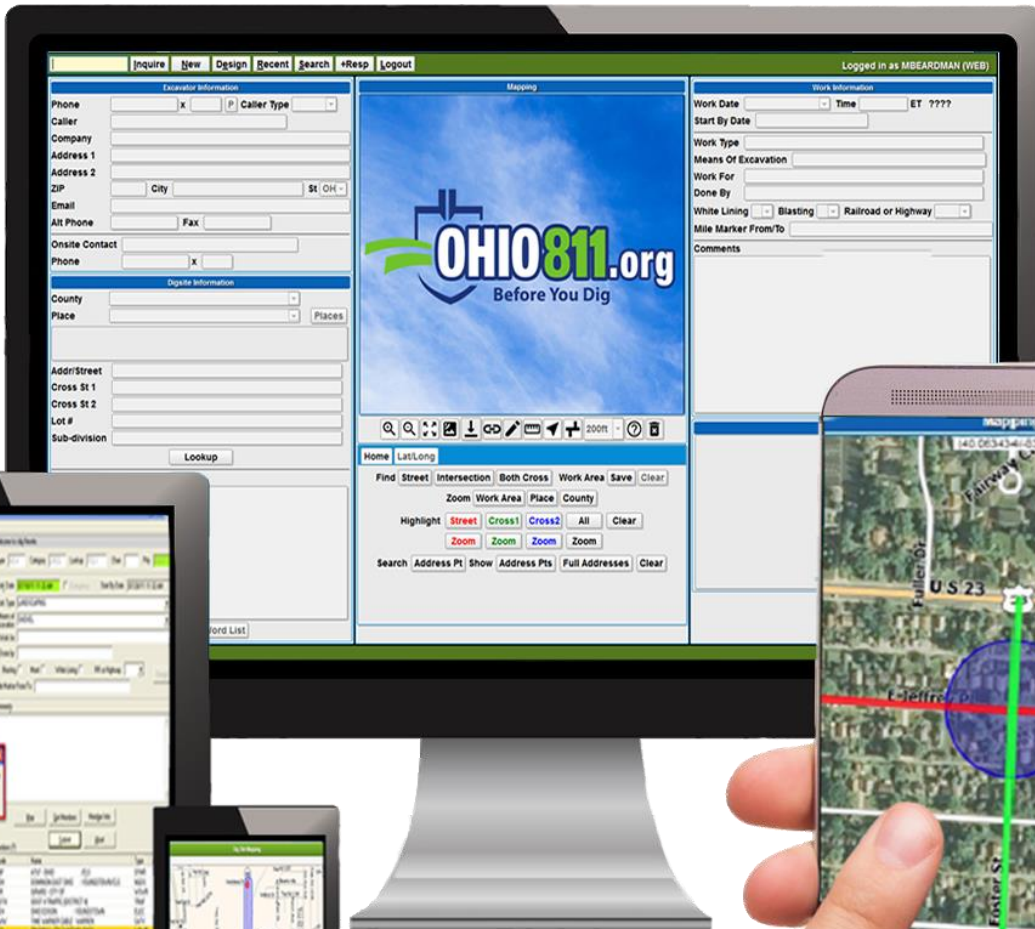


Remote Ticket Entry

i-dig Remote Ticket Entry (RTE) is a real time, Web-based ticket entry system for professional excavators, contractors and utility facility owners.

If interested and want to start using i-dig please do the following:

- Visit www.oups.org/idig and view the training videos, manuals and take the questionnaire
- Contact: i-dig Department at 800-240-7190 Anytime Monday-Friday 8am-4:30pm
- Email: idig@oups.org





e-dig HTML5 – Ticket Entry For Homeowners

Restrictions and Requirements:

- ✓ Single addresses only, not extending markings beyond the addresses boundaries
- ✓ No Emergency or less than 48 hour notice requests
- ✓ No Pre-Planning/Design requests
- ✓ Valid email address
- ✓ The 48-hour notice does not start until you receive an email receipt confirmation showing the ticket number and start date and time. These requests may take up to 24 hours to process excluding weekends and legal holidays

Submitted requests will be processed by OHIO811 prior to the start of the next working day (working day is defined as Monday through Friday 8:00am to 5:00pm, excluding legal holidays).

Excavator Manual Page 20





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© 2010 Google

Google earth

APWA Color Code

ORC 3781.29 (C) | “A utility shall mark its underground facilities using the following color codes:...”

RED	Electric power lines, power conduits, lighting cables, and other energized wires, such as traffic signals	BLUE	Drinking / potable water
ORANGE	Telecommunication lines, fiber optic cables, alarm or signal lines, cable TV or conduits	PURPLE	Reclaimed Water, Irrigation and Slurry Lines
YELLOW	Natural gas, oil, steam, liquid petroleum, or other gaseous or flammable material	PINK	Temporary Survey Marking
GREEN	Sewers and Drain Lines	WHITE	Proposed Excavation

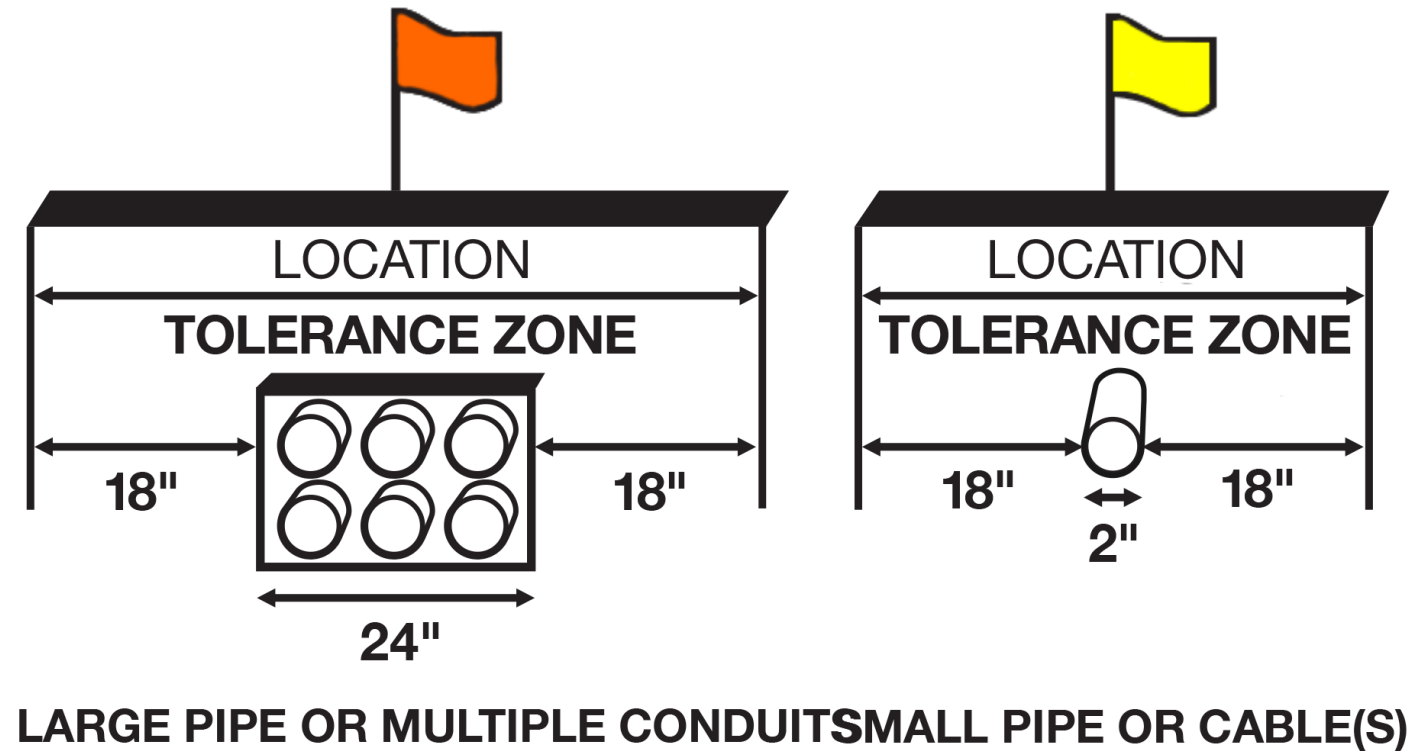


Tolerance Zone

ORC 3781.25(E) "...the site of the underground utility facility including the width of the underground utility facility plus eighteen inches on each side of the facility."

Excavator Manual Page 13

Ohio law requires that the excavator observe the tolerance zone during excavation....



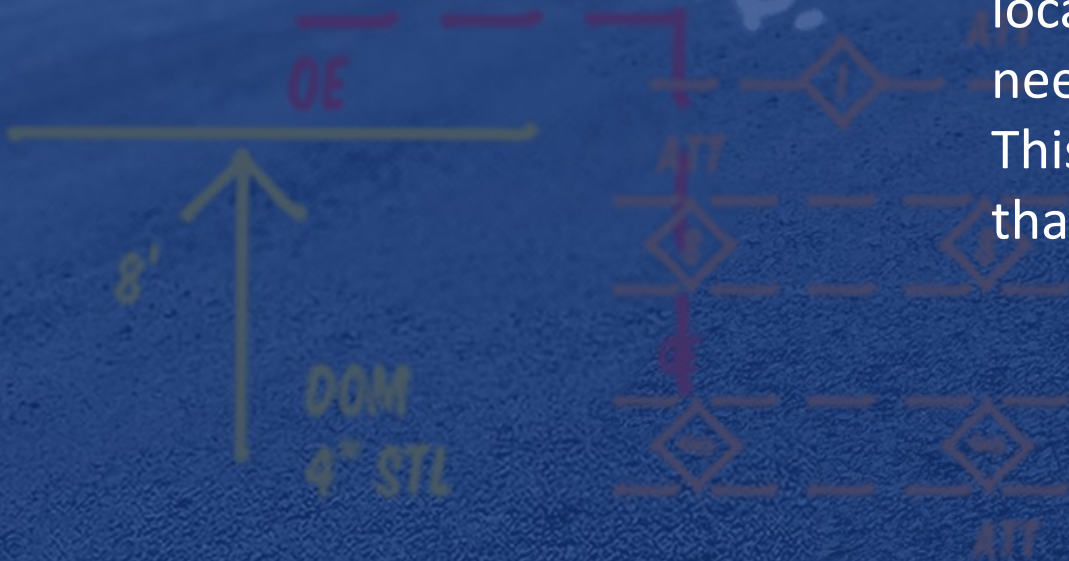
What is required with your marks?

1. Identify who owns the facility
2. Size
3. Material type

IDENTIFICATION ABBREVIATIONS

When marks are placed at the excavation site, the owner/ operator of a utility line shall be indicated by a letter or letters utilizing the APWA color code. These letters shall be legible and placed at the beginning and end of the locate and at intervals throughout the locate as needed to clearly identify the owner/operator. This may also be achieved by the use of flags that indicate the owner/operator of the facility.

— — — — —
4" STL CG



MATERIAL TYPE ABBREVIATIONS

AC Asbestos Cement

BRK Brick Sewer

CI Cast Iron

CPR Copper

C/ST Coated Steel

DI Ductile Iron

FG Fiberglass

FO Fiber Optic

FM Forced Main

GI Green Infrastructure

PI Plastic Line Inserted into Steel

PL Plastic

PVC Polyvinyl Chloride

RCP Reinforced Concrete Pipe

SCC Steel Cylinder Concrete

STL Steel

TR Transite

VCP Vitrified Clay Pipe

When marks are placed at the excavation site, the owner/operator of a utility line shall be indicated by a letter or letters utilizing the APWA color code.

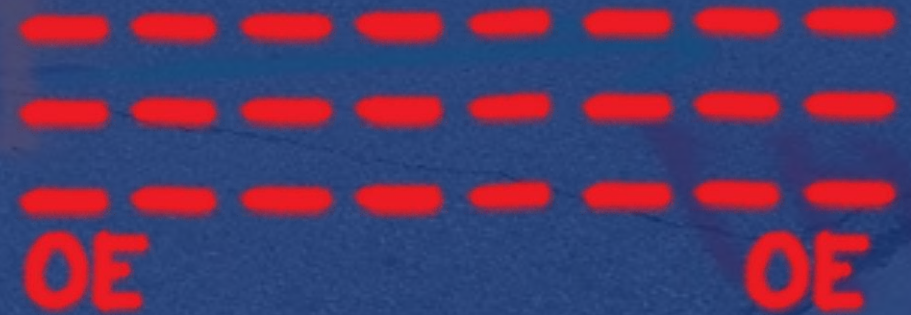
Cables

Underground utility lines of the same type in the same trench owned by the same company shall be marked individually.

A. If a single underground facility is present, it shall be marked by placing a single mark over the approximate center of the facility. It is recommended that this mark be a minimum of 1" wide and 12" in length.



B. If multiple underground facilities are present, they shall be marked by placing a single mark over the approximate center of each underground facility. It is recommended that this mark be a minimum of 1" wide and 12" in length.



Marks shall be placed at the beginning and the end of the locate and at a minimum interval of two feet but not more than fifty feet throughout the locate as needed to clearly identify the route of the underground utility.

PIPELINES

A. Pipelines 2 inches and smaller (nominal size):
The physical location of a pipeline shall be represented by a single mark.

— — — — —
STL CG STL CG

B. Pipelines larger than 2 inches (nominal size):
The physical location of a pipeline shall be represented by a single mark. The nominal size shall be noted.

— — — — —
4" STL CG

For all pipelines:

1. The owner/operator shall be identified. Flags, as well as paint, shall be deemed acceptable as identifying the owner/operator.
2. When known, the material type of the pipeline shall be indicated using the “material type” abbreviation index.
3. When the facility is installed in casing the facility shall be marked as follows: “diameter and material type / casing diameter and material type”. If the casing size or material is unknown it shall be indicated by “UNKN” and, the excavator, designer, or engineer should contact the facility owner. All parties involved shall work jointly to establish accurate information.

— — — — —
4" STL CG/12" DI 4" STL CG/UNKN

4. Marks shall be placed at the beginning and the end of the locate and at a minimum interval of two feet but not more than twenty-five feet (25') or anytime the facility changes direction, (maximum interval length does not apply to design tickets) throughout the locate as needed to clearly identify the owner/operator, pipeline location, material, and width.
5. All numbers identifying width shall be in inches.

CONDUIT/DUCT BANK

The term “conduit” shall be used for a single enclosure containing one or more facilities; the term “duct bank” shall be used for a structure containing two or more conduits.

A. For banks constructed with conduits sized 2 inches or less, the following information will be provided:

1. A single mark is used.
2. A diamond is placed within the mark.
3. The number of small-diameter conduits shall be indicated within the diamond symbol.



B. For duct banks containing conduits larger than 2 inches, the following information will be provided:

1. The duct bank boundary (the “width”) is identified with marks after locating the outermost ducts within the bank.
2. The number of conduits shall be placed within the diamond. This diamond shall be placed within the duct bank boundary marks.



In situations where multiple conduits/ducts which are owned and/or operated by different companies are placed together in a bundle fashion, a conduit structure or duct bank marking symbol shall be used by the first operator marking the facility. Other operators owning facilities within the bundle shall verify the marks and add their owner/operator letter designation.



C. For all conduits and duct banks:

1. The owner(s)/operator(s) shall be indicated using the facility owner identification code.
2. Marks shall be placed at the beginning and the end of the locate and at a minimum interval of two feet but not more than twenty-five feet (25') or anytime the facility changes direction, (maximum interval length does not apply to design tickets) throughout the locate as needed to clearly identify the owner/operator, the conduit/duct bank location, and the number of conduits. If known, indicate number of conduits in a duct bank.

TERMINATION POINTS

Termination points, stub outs, and dead ends shall be marked as shown. Marking could also be accompanied by adding the letters “TP”.



CHANGE IN DIRECTION

When deviations in the direction of a facility are known to exist, the deviations shall be marked in a manner which clearly identifies the route of the facility.



OFFSET MARKS

In areas prone to the frequent destruction of marks, offset marks may be used in conjunction with the marks placed at the actual location of a facility. They are intended to be used as a supplemental means of marking.

1. A line is placed in conjunction with an arrow and a measurement (stated in feet), which specifies the distance from the reference line to the actual location of the facility.
2. The arrow indicates the direction from the reference line to the actual location of the facility.
3. The arrow shall be oriented at 90 degrees to the reference line.
4. The distance to the actual location of the facility, from the reference line, shall be placed on one side of the arrow.
5. The locator shall provide all of the necessary information which adequately identifies the specific facility in accordance with the marking standards. This information shall be placed on the side of the arrow which is not utilized for the “distance” information.



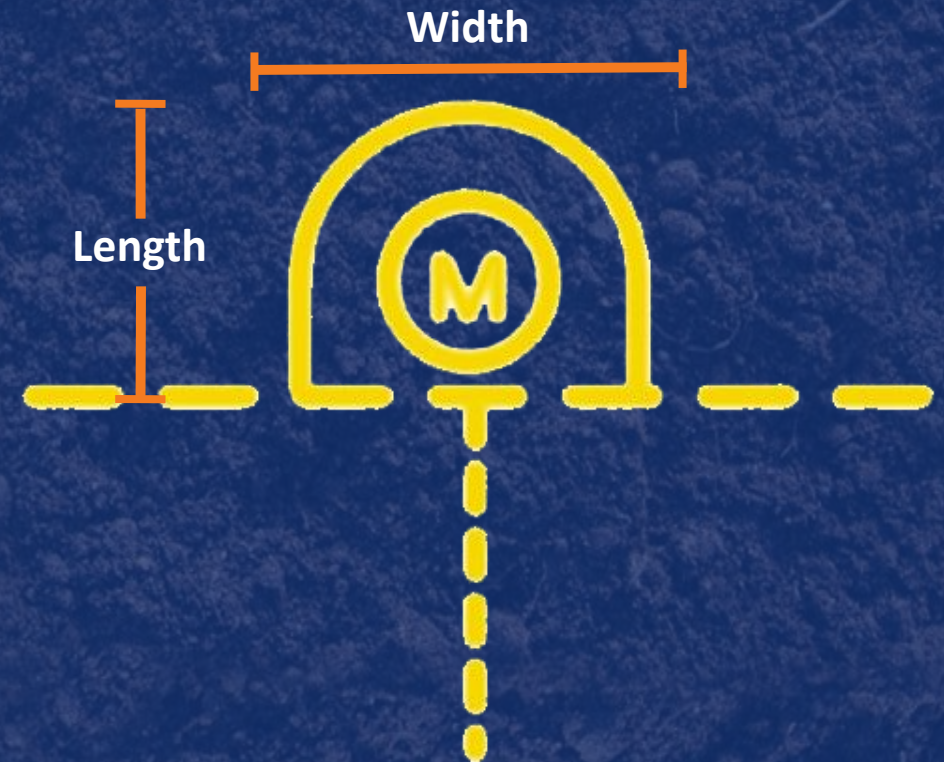
FACILITIES MARK ACCORDING TO RECORD

Facilities not marked via electronic equipment should be indicated in this manner, in appropriate facility color code.



BACK TIED/LOOP SERVICE

When known by records or documentation, the symbol shall be a $\frac{1}{2}$ circle equaling 36" in width and 36" in length unless greater amount is identified.



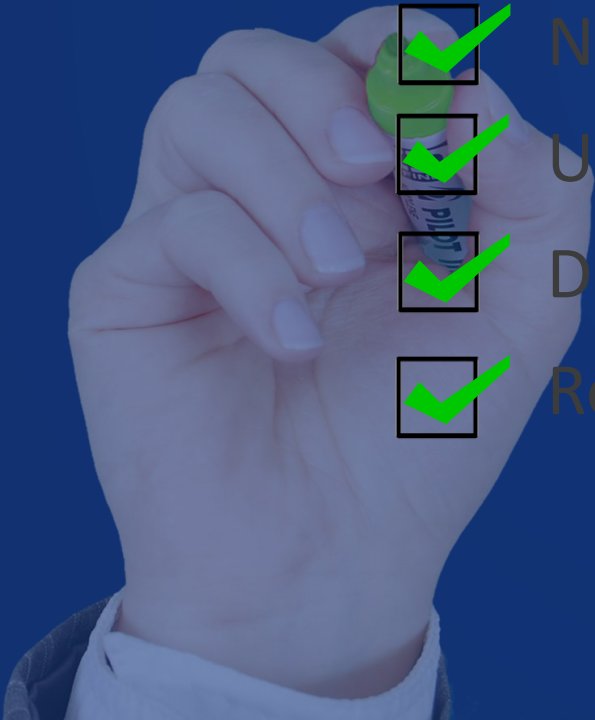
FACILITIES GREATER THAN 36 INCHES

For facilities greater than 36" in diameter, a rectangle with lines extending from each end that represent the direction of the facility shall be drawn using the appropriate APWA color. Facility owner information and, when known, the size and type of the facility shall be placed inside the rectangle.



Things To Remember

- ☒ Contact OHIO811 48 hours before you dig
- ☒ Check Positive Response
- ☒ Preserve and Protect The Marks
- ☒ Don't Work Off Someone Else's Ticket
- ☒ Not All Utilities Are Registered With OHIO811
- ☒ Utilities May Not Run In A Straight Line
- ☒ Do Not Assume Depth
- ☒ Report All Damages



OHIO811 Contact Information

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Call 800-362-2764 or 811



Mobile App - www.oups.org/oups-apps



i-dig - www.oups.org/idig



e-dig - www.oups.org/edig



Meet the Liaison Team



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ANY QUESTIONS

