



EXHIBIT B

APPROVALS AND PERMITS

(Franchises, Plan Review and Permit Status, Easements, Right-of-Ways, Construction Start and In-Service Date, Plant Retirements)



Franchises required – None

Plan Review and Permit Status - The District has reviewed and approved the plans and specifications prepared by Verdantas titled “SUB-DISTRICT ‘O’ WATER MAIN EXTENSION | KENTON COUNTY, KENTUCKY” dated May 2, 2025 and July 16, 2025 respectively.

The District received approval from the Division of Water on September 7, 2024 (see attached letter).

Easements and Right-of-Way Status - Easements for the project (one) have been secured and all right-of-way statements have been submitted (permits attached).

Start date of construction – November 2025

Proposed date in service – August 2026

Plant retirements – There are no retirements as a result of this project.

Kentucky Division of Water Approval



Andy Beshear
GOVERNOR

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

300 Sower Boulevard
Frankfort, Kentucky 40601
Phone: (502) 564-2150
Fax: 502-564-4245

Rebecca W. Goodman
SECRETARY

Anthony R. Hatton
COMMISSIONER

September 7, 2024

Kyle Ryan, P.E.
Northern KY Water District
2835 Crescent Springs Rd
Erlanger, KY 41018

RE: Sub-District O Water Main Extension
Campbell County, KY
Northern KY Water District
AI #: 2485, APE20240011
PWSID #: 0590220-24-011

Dear Mr. Ryan:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 24,166 linear feet (LF) of 8-inch PVC and 16,973 LF of 8-inch DI waterline. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

If you have any questions concerning this project, please contact Cassie Campbell at 502-782-6909.

Sincerely,

Terry Humphries, P.E.
Supervisor, Engineering Section
Water Infrastructure Branch
Division of Water

TH:CC
Enclosures

c: CT Consultants Inc
Campbell County Health Department
Division of Plumbing

Distribution-Major Construction

Northern KY Water District

Facility Requirements

Activity ID No.:APE20240011

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GACT0000000297 (Sub-District O Water Main Extension) 24,166 linear feet (LF) of 8-inch PVC, and 16,973 LF of 8-inch DI waterline:

Narrative Requirements:

Condition No.	Condition
T-1	Construction of this project shall not result in the water system's inability to supply consistent water service in compliance with 401 KAR 8:010 through 8:600. [401 KAR 8:100 Section 5]
T-2	The public water system shall not implement a change to the approved plans without the prior written approval of the cabinet. [401 KAR 8:100 Section 4(3)]
T-3	A proposed change to the approved plans affecting sanitary features of design shall be submitted to the cabinet for approval in accordance with Section 2 of this administrative regulation. [401 KAR 8:100 Section 4(2)]
T-4	During construction, a set of approved plans and specifications shall be available at the job site. Construction shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 3(1)]
T-5	Unless construction begins within two (2) years from the date of approval of the final plans and specifications, the approval shall expire. [401 KAR 8:100 Section 3(3)]
T-6	Upon completion of construction, a professional engineer shall certify in writing that the project has been completed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 4(1)]
T-7	The system shall be designed to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow. [Recommended Standards for Water Works 8.2.1, Drinking Water General Design Criteria IV.1.a]
T-8	Water lines should be hydraulically capable of a flow velocity of 2.5 ft/s while maintaining a pressure of at least 20 psi. [Drinking Water General Design Criteria IV.1.b]
T-9	The normal working pressure in the distribution system at the service connection shall not be less than 30 psi under peak demand flow conditions. Peak demand is defined as the maximum customer water usage rate, expressed in gallons per minute (gpm), in the pressure zone of interest during a 24 hour (diurnal) time period. [Drinking Water General Design Criteria IV.1.d]
T-10	When static pressure exceeds 150 psi, pressure reducing devices shall be provided on mains or as part of the meter setting on individual service lines in the distribution system. [Drinking Water General Design Criteria IV.1.c]
T-11	The minimum size of water main in the distribution system where fire protection is not to be provided should be a minimum of three (3) inch diameter. Any departure from minimum requirements shall be justified by hydraulic analysis and future water use, and can be considered only in special circumstances. [Recommended Standards for Water Works 8.2.2, Drinking Water General Design Criteria IV.2.b]

Distribution-Major Construction

Northern KY Water District

Facility Requirements

Activity ID No.:APE20240011

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GACT0000000297 (Sub-District O Water Main Extension) 24,166 linear feet (LF) of 8-inch PVC, and 16,973 LF of 8-inch DI waterline:

Narrative Requirements:

Condition No.	Condition
T-12	Water mains not designed to carry fire-flows shall not have fire hydrants connected to them. [Recommended Standards for Water Works 8.4.1.b]
T-13	Flushing devices should be sized to provide flows which will give a velocity of at least 2.5 feet per second in the water main being flushed. [Recommended Standards for Water Works 8.2.4.b, Recommended Standards for Water Works 8.4.1.b]
T-14	No flushing device shall be directly connected to any sewer. [Recommended Standards for Water Works 8.2.4.b, Recommended Standards for Water Works 8.4.1.b]
T-15	Pipe shall be constructed to a depth providing a minimum cover of 30 inches to top of pipe. [Drinking Water General Design Criteria IV.3.a]
T-16	Water mains shall be covered with sufficient earth or other insulation to prevent freezing. [Recommended Standards for Water Works 8.7]
T-17	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a depth of at least six inches below the bottom of the pipe. [Recommended Standards for Water Works 8.7]
T-18	Water line installation shall incorporate the provisions of the AWWA standards and/or manufacturer's recommended installation procedures. [Recommended Standards for Water Works 8.7]
T-19	All materials used for the rehabilitation of water mains shall meet ANSI/NSF standards. [Recommended Standards for Water Works 8.1]
T-20	Packing and jointing materials used in the joints of pipe shall meet the standards of AWWA and the reviewing authority. [Recommended Standards for Water Works 8.1]
T-21	All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.7]
T-22	All materials including pipe, fittings, valves and fire hydrants shall conform to the latest standards issued by the ASTM, AWWA and ANSI/NSF, where such standards exist, and be acceptable to the Division of Water. [Recommended Standards for Water Works 8.1]
T-23	Water mains which have been used previously for conveying potable water may be reused provided they meet the above standards and have been restored practically to their original condition. [Recommended Standards for Water Works 8.1]

Distribution-Major Construction

Northern KY Water District

Facility Requirements

Activity ID No.:APE20240011

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GACT0000000297 (Sub-District O Water Main Extension) 24,166 linear feet (LF) of 8-inch PVC, and 16,973 LF of 8-inch DI waterline:

Narrative Requirements:

Condition No.	Condition
T-24	Manufacturer approved transition joints shall be used between dissimilar piping materials. [Recommended Standards for Water Works 8.1]
T-25	The minimum size of water main which provides for fire protection and serving fire hydrants shall be six-inch diameter. [Recommended Standards for Water Works 8.2, Drinking Water General Design Criteria IV.2.a]
T-26	Pipes and pipe fittings containing more than 8% lead shall not be used. All products shall comply with ANSI/NSF standards. [Recommended Standards for Water Works 8.1]
T-27	Gaskets containing lead shall not be used. Repairs to lead-joint pipe shall be made using alternative methods. [Recommended Standards for Water Works 8.1]
T-28	Pipe materials shall be selected to protect against both internal and external pipe corrosion. [Recommended Standards for Water Works 8.1]
T-29	Dead end mains shall be equipped with a means to provide adequate flushing. [Recommended Standards for Water Works 8.2]
T-30	The hydrant lead shall be a minimum of six inches in diameter. Auxiliary valves shall be installed on all hydrant leads. [Recommended Standards for Water Works 8.4.3]
T-31	A sufficient number of valves shall be provided on water mains to minimize inconvenience and sanitary hazards during repairs. [Recommended Standards for Water Works 8.3]
T-32	Wherever possible, chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances to a distribution system, shall not be located in areas subject to flooding or in areas of high groundwater. Such chambers or pits should drain to the ground surface, or to absorption pits underground. The chambers, pits and manholes shall not connect directly to any storm drain or sanitary sewer. Blow-offs shall not connect directly to any storm drain or sanitary sewer. [Recommended Standards for Water Works 8.6]
T-33	At high points in water mains where air can accumulate provisions shall be made to remove the air by means of air relief valves. [Recommended Standards for Water Works 8.5.1]
T-34	Automatic air relief valves shall not be used in situations where flooding of the manhole or chamber may occur. [Recommended Standards for Water Works 8.5.1]
T-35	The open end of an air relief pipe from automatic valves shall be extended to at least one foot above grade and provided with a screened, downward-facing elbow. [Recommended Standards for Water Works 8.5.2.c]

Distribution-Major Construction

Northern KY Water District

Facility Requirements

Activity ID No.:APE20240011

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GACT0000000297 (Sub-District O Water Main Extension) 24,166 linear feet (LF) of 8-inch PVC, and 16,973 LF of 8-inch DI waterline:

Narrative Requirements:

Condition No.	Condition
T-36	Discharge piping from air relief valves shall not connect directly to any storm drain, storm sewer, or sanitary sewer. [Recommended Standards for Water Works 8.5.2.d]
T-37	Water pipe shall be constructed with a lateral separation of 10 feet or more from any gravity sanitary or combined sewer measured edge to edge where practical. If not practical a variance may be requested to allow the water pipe to be installed closer to the gravity sanitary or combined sewer provided the water pipe is laid in a separate trench or undisturbed shelf located on one side of the sewer with the bottom of the pipe at least 18 inches above the top of the gravity sanitary or combined sewer pipe. [Drinking Water General Design Criteria IV.3.b]
T-38	Water lines crossing sanitary, combined or storm sewers shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sanitary, combined or storm sewer with preference to the water main located above the sanitary, combined or storm sewer. [Drinking Water General Design Criteria IV.3.c]
T-39	At crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible. [Recommended Standards for Water Works 8.8.3.b]
T-40	There shall be no connection between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system. [Recommended Standards for Water Works 8.10.1]
T-41	Water utilities shall have a cross connection program conforming to 401 KAR 8. [Recommended Standards for Water Works 8.10.1]
T-42	Installed pipe shall be pressure tested and leakage tested in accordance with the appropriate AWWA Standards. [Recommended Standards for Water Works 8.7.6]
T-43	New, cleaned and repaired water mains shall be disinfected in accordance with AWWA Standard C651. The specifications shall include detailed procedures for the adequate flushing, disinfection, and microbiological testing of all water mains. In an emergency or unusual situation, the disinfection procedure shall be discussed with the Division of Water. [Recommended Standards for Water Works 8.7.7]
T-44	A minimum cover of five feet shall be provided over pipe crossing underwater. [Recommended Standards for Water Works 8.9.2]
T-45	Valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair; the valves shall be easily accessible, and not subject to flooding for pipes crossing underwater. [Recommended Standards for Water Works 8.9.2.b]
T-46	Permanent taps or other provisions to allow insertion of a small meter to determine leakage and obtain water samples on each side of the valve closest to the supply source for pipes crossing. [Recommended Standards for Water Works 8.9.2.c]

Easement

PIDN: 073-00-00-012.00

Group No: IND

Address: 11236 Mann Road, Covington, KY 41015

KENTON COUNTY CLERK

10/04/2024 09:23:14 AM

EASEMENT

CHERYL RUST

KC 308 438-442 5

\$50.00

214263

24100405900065



UTILITY EASEMENT

This PERMANENT UTILITY EASEMENT is made and executed this 28th day of August by and between **VINCENT W. POWELL & KATHLEEN POWELL**, husband and wife, ("Grantor") to the **NORTHERN KENTUCKY WATER DISTRICT** ("Grantee") (Whenever used herein, the terms "Grantor" and "Grantee" shall mean to include all the parties to this instrument and their respective heirs, assigns, successors and legal representatives).

RECITALS

WHEREAS, the Grantor is the owner of the real property situate, lying and being commonly located at 11236 Mann Road, Covington, KY 41015, being part of the same real estate conveyed to Grantor herein by deed recorded in Deed Book 1865, Page 216 of the Kenton County Clerk's records at Covington, Kentucky and is more particularly described in the attached and incorporated herein Exhibit A ("Subject Property");

WHEREAS, the Grantee specifically desires a perpetual, exclusive easement on the Subject Property for the construction, reconstruction, operation, use, maintenance, repair, replacement, enlargement and/or removal of a water main, water service lines and branches and other facilities and appurtenances necessary or appropriate from time to time for the furnishing of a water supply; and

WHEREAS, the Grantor is willing to grant a perpetual, exclusive easement on a portion of Subject Property, said portion is more particularly described and depicted in the attached and incorporated herein Exhibit B ("Easement Area") to the Grantee.

NOW THEREFORE, for and in consideration of **Eight Hundred Twenty-Two Dollars and 23/100 Cents (\$822.23)**, mutual covenants made herein, and other good and valuable considerations, the Grantor does hereby grant unto the Grantee, its successors and assigns, subject to the terms herein, an easement, in perpetuity, in, on, over, under, and across the Easement Area.

1. Recitals Incorporated. The foregoing recitals are incorporated by reference and made a part of this Easement.

2. Grant of Easement. The Grantor hereby grants Grantee a perpetual, exclusive easement in, on, over, under, and across the Easement Area described in Exhibit B for the construction, reconstruction, operation, use, maintenance, repair, replacement, enlargement and/or removal of a water main, water service lines and

branches and other facilities and appurtenances necessary or appropriate from time to time for the furnishing of a water supply. This grant of easement shall not be construed as a dedication to the public of the underlying fee simple ownership of the Easement Area nor grant the District the right to construct any building or pump station on the Grantor's property. Grantor reserves the right to use the Easement Area for any purpose so long as such use does not interfere with the full and free use of the Easement Area by the Grantee. Without limitation of the foregoing, Grantor shall not (i) erect any building or other structure in the Easement Area or (ii) excavate or place fill in the Easement Area without Grantee's written consent.

3. License. In addition to the grant of easement herein, Grantor irrevocably grants in perpetuity the Grantee the right to traverse the Subject Property with vehicles and equipment for the purpose of travel between the Easement Area and the public right of way to the extent reasonably necessary for the Grantee to exercise the rights granted herein.

4. Title Warranties. Grantor warrants that Grantor has good and indefeasible fee simple title to and possession of the Easement Land and that it has good and lawful right to grant this Easement.

5. Covenants Running with the Land. All of the rights and obligations set forth herein shall be, and shall be deemed to be, covenants running with the land, and shall inure to the benefit of and be binding upon, as the case may be, Grantor and the Grantee and their respective heirs, executors, successors and assigns.

6. Restoration of Land. Grantee shall, after doing any work in connection with the construction, reconstruction, repair, replacement, or removal of said improvements, restore the surface of all easement areas to the condition in which the same were found before such work was undertaken.

7. Notification. Grantor shall promptly notify the Grantee of any maintenance or repair that it knows or suspects is required with respect to any water main, water service lines and branches and other facilities and appurtenances in the Easement Area.

8. Enforcement of Easement Rights. In addition to any remedies available to Grantee in law or equity, Grantor acknowledges and agrees that injunctive relief and specific performance are appropriate remedies in the event Grantor breaches the obligations herein.

9. Waiver. No consent to or waiver by either party of any breach or default of any provision of this grant of easement, whether express or implied, shall constitute or be interpreted as a consent to, waiver of or excuse any subsequent breach or default of the same or any other provision of this grant of easement.

10. Severability. In the event that any one or more of the provisions of this grant of easement, or any part of a provision, shall be judicially determined to be contrary to law or otherwise invalid or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision or part of a provision of this grant of easement; and such provision or part of a provision shall be reformed so that it would be legal, valid and enforceable or this Agreement shall be reformed, interpreted and construed as if such provision or part of a provision had never been included in this grant of easement.

11. Captions and Headings. The captions and headings of the paragraphs of this grant of easement have been inserted for convenience and reference only and shall in no way affect the interpretation of any of the terms and provisions of this Agreement.

12. Temporary Construction Easement. Grantor further grants to Grantee for its use and benefit during installation and construction of water main, water service lines and branches and other facilities and appurtenances necessary or appropriate from time to time for the furnishing of a water supply in the Easement Area, a temporary easement in the area described and/or depicted as the Temporary Construction Easement on Exhibit B attached hereto and incorporated herein. Said Temporary Construction Easement

shall terminate automatically and revert to Grantor upon completion of the installation and construction in the Easement Area.

IN WITNESS WHEREOF, the Grantor confirms receipt of the consideration above and has caused this Easement to be executed this Easement to be executed as of the date first written above.

GRANTOR(S):

By: Vincent W. Powell
Name: VINCENT W. POWELL
Title: Owner

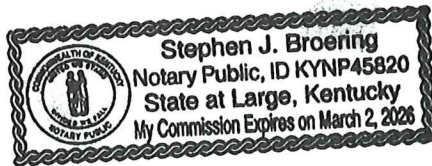
By: Kathleen Powell
Name: KATHLEEN POWELL
Title: Owner

COMMONWEALTH OF KENTUCKY :

: SS

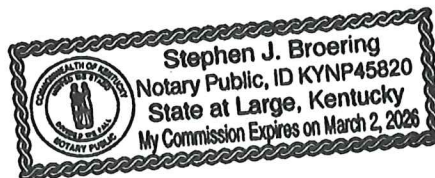
COUNTY OF KENTON :

The foregoing instrument was subscribed and sworn by VINCENT W. POWELL before me this 28th day of August, 2024.



Stephen J. Broering
Notary Public, Kentucky at Large
Notary ID Number: KYNP 45820
My Commission Expires: 3-2-2024

The foregoing instrument was subscribed and sworn by KATHLEEN POWELL before me this 28th day of August, 2024.



Stephen J. Broering
Notary Public, Kentucky at Large
Notary ID Number: KYNP 45820
My Commission Expires: 3-2-2024

PREPARED WITHOUT EXAMINATION OF TITLE BY:

Tom Edge
Tom Edge, Esq. (KBA #95534)
General Counsel
Manager of Legal, Compliance, and Regulatory Affairs
Northern Kentucky Water District
2835 Crescent Springs Rd.
Erlanger, Kentucky 41018
Phone: (859) 578-5457
Email: tedge@nkywater.org

Return Recorded Document to:
NKWD Engineering Dept
2835 Crescent Springs Road
Erlanger, Kentucky 41018

**Legal Description
Water Line Easement
Vincent W. Powell**

Situated in the City of Covington, County of Kenton, State of Kentucky and being on the West Right of Way of Mann Road, at the intersection with Steep Creek Road, and being part of the lands of Vincent W. Powell, as conveyed by Deed Book I-1865, Page 216, of the Kenton County Kentucky Deed Records, and being more particularly described as follows:

Beginning at the intersection of the West Right of Way of said Mann Road and the East Right of Way of said Steep Creek Road, and with said West Right of Way the following five (5) courses;

Thence	South 48°51'55" East, 90.90 feet;
Thence	with a curve to the left, having a radius of 325.00 feet, an arc length of 76.29 feet, and a chord that bears South 55°35'24" East, 76.12 feet'
Thence	South 62°18'54" East, 29.17 feet;
Thence	with a curve to the right, having a radius of 75.00 feet, an arc length of 53.28 feet, and a chord that bears South 41°57'49" East, 52.17 feet;
Thence	South 21°36'43" East, 3.67 feet;
Thence	departing said West Right of Way and through said Powell lands the following three (3) courses;
Thence	North 59°19'37" West, 107.85 feet;
Thence	North 48°04'37" West, 117.35 feet;
Thence	South 89°24'05" West, 12.01 feet to a point on said East Right of Way of Steep Creek Road;
Thence	with said East Right of Way, North 02°49'21" West, 25.30 feet to the point of beginning;

Containing or 3,213.0 square feet of land, more or less, and being subject to all rights-of-way, easements, restrictions, covenants and/or conditions of record.

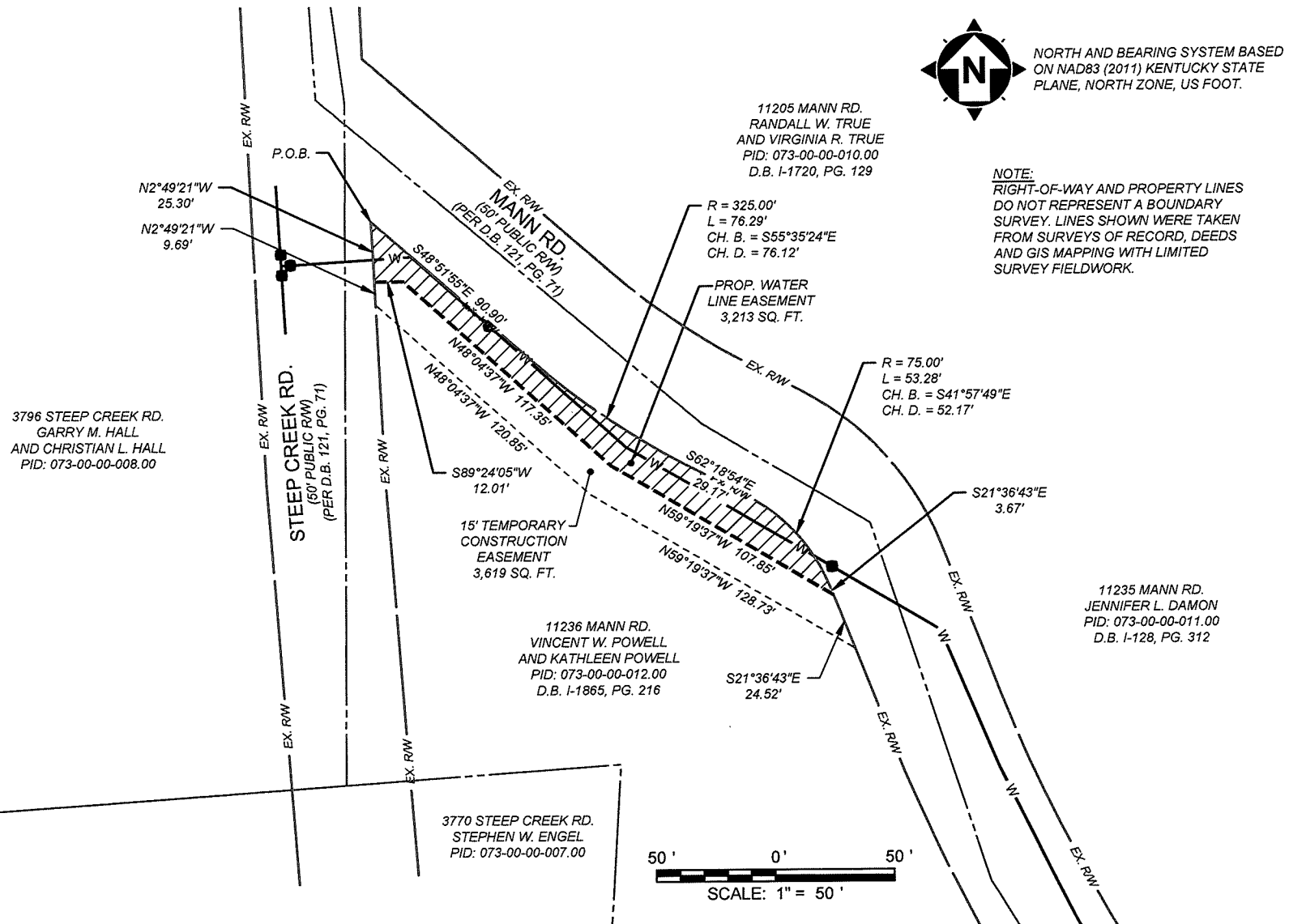
Basis of Bearings: NAD83(2011), Kentucky State Plane Coordinates, North Zone.

your trusted advisor
consultants
—
engineers
architects
planners

11236 MANN RD.
KENTON COUNTY, KENTUCKY

EXHIBIT 1 - WATER LINE EASEMENT

OF
1



Kentucky Transportation Cabinet
Right-of-Way Encroachment Permits

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

PERMITTEE

Name: Northern Kentucky Water District
Contact Person: Steve Broering
Address: 2835 Crescent Springs Road
City: Erlanger
State: Kentucky
Zip: 41018
Telephone: (859) 991-1652

PROJECT IDENTIFICATION

Permit Number: 06-2024-00696

I wish to notify the Department of Highways that the above mentioned permit work and any necessary right-of-way restoration have been completed and are ready for final inspection.

Permittee

Please return this form to the address below when work is completed and ready for final inspection.

Please Return to: Permit Engineer
Department of Highways, District 6 Office
421 Buttermilk Pike
Covington, Kentucky 41017
(859) 341-2700
www.transportation.ky.gov/

LOCATION(S)			
Description	County - Route	Latitude	Longitude
FISKBURG ROAD FROM GOSHORN ROAD TO ALEXANDER ROAD WATER MAIN INSTALL	Kenton - KY 2046	38.819728	-84.483648

APPROVED
MARCH 29, 2025
KENTUCKY TRANSPORTATION CABINET
06-2024-00696



Andy Beshear
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Department of Highways, District 6 Office
421 Buttermilk Pike
Covington, Kentucky 41017
(859) 341-2700
www.transportation.ky.gov/

Jim Gray
Secretary

March 20, 2025

Northern Kentucky Water District
Steve Broering
2835 Crescent Springs Road
Erlanger, Kentucky 41018

Subject: Permit #: 06-2024-00696
Permit Type: Utilities - Water
Approval

Dear Applicant:

Attached is your permit approval and documentation for the subject permit.

Be advised that all work must be done in conformity with permit and application conditions. If you have any questions, please contact the Permits Section at this office.

Sincerely,

A handwritten signature in black ink that reads "Linzy Brefeld".

Linzy Brefeld
D6 Permits Supervisor

Attachments



An Equal Opportunity Employer M/F/D

APPROVED
MARCH 20, 2025
KENTUCKY TRANSPORTATION CABINET
06-2024-00696



Kentucky Transportation Cabinet
Department of Highways
Division of Maintenance
Permits Branch

TC 99-1 (B)
07/2018
Page 1 of 1

ENCROACHMENT PERMIT

KYTC KEPT #: 06-2024-00696

Permittee: Northern Kentucky Water District

Permit Type / Subtype: Utilities / Water

Work Completion Date: 7/23/2025

INDEMNITIES		
Type	Amount Required	Tracking Number
Performance Bond	\$0.00	
Cash / Check	\$0.00	
Self-Insured	\$0.00	
Payment Bond	\$0.00	
Liability Insurance	\$0.00	

This permit has been: **APPROVED** ☒ **DENIED** ☐

Linzy Brefeld	D6 Permits Supervisor	3/20/2025
SIGNATURE	TITLE	DATE

The TC 99-1(B), including the application TC-99 1(A) and all related and accompanying documents and drawings make up the permit. It is not a permit unless both the TC 99-1(A) and TC 99-1(B) are both present.

LOCATION(S)			
Description	County - Route	Latitude	Longitude
FISKBURG ROAD FROM GOSHORN ROAD TO ALEXANDER ROAD WATER MAIN INSTALL	Kenton - KY 2046	38.819728	-84.483648



Know what's below. Call before you dig

To Submit a Locate Request:
24 Hours a Day, Seven Days a Week:
Call 811 or 800-752-6007

APPROVED
MARCH 20, 2025
KENTUCKY TRANSPORTATION CABINET
06-2024-00696

APPLICATION FOR ENCROACHMENT PERMIT

KYTC KEPT #: 06-2024-00696

SECTION 1: APPLICANT CONTACT INFORMATION

APPLICANT NORTHERN KY WATER DISTRICT	ADDRESS 2835 CRESCENT SPRINGS PIKE		
EMAIL sbroering@nkywater.org	CITY ERLANGER	STATE KY	ZIP 41018
CONTACT NAME 1 Steve Broering	EMAIL sbroering@nkywater.org	PHONE # 859-426-2728	
		CELL #	
CONTACT NAME 2 (if applicable)	EMAIL	PHONE #	
		CELL #	

SECTION 2: PROPOSED WORK LOCATION

ADDRESS	CITY MORNING VIEW	STATE Kentucky	ZIP 41063
COUNTY KENTON	ROUTE # 2046	MILE POINT 6.9 - 7.7	LONGITUDE (X) 84D28'30"W
			LATITUDE (Y) 38D49'08"N

ADDITIONAL LOCATION INFORMATION:

FISKBURG ROAD FROM GOSHORN ROAD TO ALEXANDER ROAD

FOR KYTC USE ONLY

PERMIT TYPE: ☐ Air Right ☐ Entrance ☒ Utilities ☐ Vegetation Removal ☐ Other: _____

ACCESS: ☐ Full ☐ Partial ☒ by Permit **LOCATION:** ☐ Left ☐ Right ☐ Crossing

SECTION 3: GENERAL DESCRIPTION OF WORK

PROPOSED 8" WATER MAIN INSTALLATION ALONG FISKBURG ROAD THAT TIES INTO EXISTING 8" WM ON FISKBURG AND INCLUDES PROPOSED WATER MAIN TIE-INS ON GOSHORN, PFANSTIEL AND ALEXANDER ROADS

THE UNDERSIGNED APPLICANT(s), being duly authorized representative(s) or owner(s), DO AGREE TO ALL ORIGINAL UNEDITED TERMS AND CONDITIONS ON THE TC 99-1A, pages 1-4.

Steve Broering
SIGNATURE

7-15-2024
DATE

This is not a permit unless and until the applicant(s) receives an approved TC 99-1B from KYTC. This application shall become void if not approved by the cancellation date. The cancellation date shall be a minimum of one year from the date the applicant submits their application.

APPROVED
MARCH 23, 2025
KENTUCKY TRANSPORTATION CABINET
06-2024-00696

APPLICATION FOR ENCROACHMENT PERMIT

TERMS AND CONDITIONS

1. The permit, including this application and all related and accompanying documents and drawings making up the permit, remains in effect and is binding upon the Applicant/Permittee, its successors and assigns, as long as the encroachment(s) exists and also until the permittee is finally relieved by the Department of Highways from all its obligations.
2. Applicant shall meet all requirements of the Clean Water Act if the project will disturb one acre or more, the applicant shall obtain a KPDES KYR10 Permit from the Kentucky Division of Water. All disturbed areas shall meet the requirements of the Department of Highway's Standard Specifications, Sections 212 and 213, as amended.
3. **INDEMNITY:**
 - A. **PERFORMANCE BOND:** The permittee shall provide to the Department a performance bond according to the Permits Manual, Section PE-203 as a guarantee of conformance with the Department's Encroachment Permit requirements.
 - B. **PAYMENT BOND:** At the discretion of the department, a payment bond shall be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
 - C. **LIABILITY INSURANCE:** Liability insurance shall be required of the permittee (in an amount approved by the department) to cover all liabilities associated with the encroachment.
 - D. It shall be the responsibility of the permittee, its successors and assigns, to maintain all indemnities in full force and effect until the permittee is authorized to release the indemnity by the Department.
4. A copy of this application and all related documents making up the approved permit shall be given to the applicant and shall be made readily available for review at the work site at all times.
5. Perpetual maintenance of the encroachment is the responsibility of the permittee, its successors and assigns, with the approval of the Department as required, unless otherwise stated.
6. Permittee, its successors and assigns, shall comply with and agree to be bound by the requirements and terms of (a) this application and all related documents making up the approved permit, (b) by the Department's Permits Manual, and (c) by the Manual on Uniform Traffic Control Devices, both manuals as revised to and in effect on the date of issuance of the permit, all of which documents are made a part thereof by this reference. Compliance by the permittee, its successors and assigns, with subsequent revisions to applicable provisions of either manual or other policy of the Department may be made a condition of allowing the encroachment to persist under the permit.
7. Permittee agrees that this and any encroachment may be ordered removed by the Department at any time, and for any reason, upon thirty days written notice to the last known address of the applicant or to the address at the location of the encroachment. The permittee agrees that the cost of removing and of restoring the associated right-of-way is the responsibility of the permittee, its successors and assigns.
8. Permittee, its successors and assigns, agree that if the Department determines that motor vehicular safety deficiencies develop as a result of the installation or use of the encroachment, the permittee, its successors and assigns, shall provide and bear the expenses to adjust, relocate, or reconstruct the facilities, add signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department within a reasonable time after receipt of a written notice of such deficiency. The period within which such adjustments, relocations, additions, modifications, or other corrective measures must be completed will be specified in the notice.
9. Where traffic signals are required as a condition of granting the requested permit or are thereafter required to correct motor vehicular safety deficiencies, as determined by the Department, the costs for signal equipment and installations shall be borne by the permittee, its successors and assigns and the Department in its reasonable discretion and only in accordance with the Department's current policy set forth in the Traffic Operations Manual and Permits Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easements) on private property shall be the responsibility of the permittee, its successors and assigns, at no expense to the Department.

APPROVED
MARCH 22, 2021
KENTUCKY TRANSPORTATION CABINET
06-2021-03543

APPLICATION FOR ENCROACHMENT PERMIT

10. The requested encroachment shall not infringe on the frontage rights of an abutting owner without their written consent as hereinafter described. Each abutting owner shall express their consent, which shall be binding on their successors and assigns, by the submission of a notarized statement as follows, "I (we), _____, hereby consent to the granting of the permit requested by the applicant along Route _____, which permit does affect frontage rights along my (our) adjacent real property." By signature(s) _____, subscribed and sworn by _____, on this date _____.
11. The permit, if approved, is subject to the agreement that it shall not interfere with any similar rights or permit(s) previously granted to any other party, except as otherwise provided by law.
12. Permittee shall include documentation which describes the facilities to be constructed. Permittee, its successors and assigns, agree as a condition of the granting of the permit to construct and maintain any and all permitted facilities or other encroachments in strict accordance with the submitted and approved permit documentation and the policies and procedures of the Department. Permittee, its successors and assigns, shall not use facilities authorized herein in any manner contrary to that prescribed by the approved permit. Only normal usage as contemplated by the parties and by this application and routine maintenance are authorized by the permit.
13. Permittee, its successors and assigns, at all times from the date permitted work is commenced until such time as all permitted facilities or other encroachments are removed from the right-of-way and the right-of-way restored, **shall defend, protect, indemnify and save harmless** the Department from any and all liability claims and demands arising out of the work, encroachment, maintenance, or other undertaking by the permittee, its successors and assigns, related or undertaken pursuant to the granted permit, due to any claimed act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party nor operate to enlarge any liability of the Department beyond that existing at common law or otherwise if this right to indemnity did not exist.
14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.
15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.
16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the expense of the permittee, except where the Department is required by law to pay any or all of those costs.

APPROVED
MARCH 23, 2025
KENTUCKY TRANSPORTATION CABINET
06-2024-00696

APPLICATION FOR ENCROACHMENT PERMIT

17. Permittee agrees that the authorized permit is personal to the permittee and shall remain in effect until such time as (a) the permittee's rights to the adjoining real property to have benefitted from the requested encroachment have been relinquished, (b) until all permit obligations have been assumed by appropriate successors and assigns, and (c) unless and until a written release from permit obligations has been granted by the Department. The permit and its requirements shall also bind the real property to have benefitted from the requested encroachment to the extent permitted by law. The permit and the related encroachment become the responsibility of the successors and assigns of the permittee and the successors and assigns of each property owner benefitting from the encroachment, or the encroachment may not otherwise permissibly continue to be maintained on the right-of-way. (Does not apply to utility encroachments serving the general public.)
18. If work authorized by the permit is within a highway construction project in the construction phase, it shall be the responsibility of the permittee to make personal contact with the Department's Engineer on the project in order to coordinate all permitted work with the Department's prime contractor on the project.
19. This permit is not intended to, nor shall it, affect, alter or alleviate any requirement imposed upon the permittee, its successors and assigns, by any other agency.
20. Permittee, its successors and assigns, agree to contain and maintain all dirt, mud, and other debris emanating from the encroachment away from the surrounding right-of-way and the travel way of the highway hereafter and at all times that its obligations under the permit remain in effect.
21. Before You Dig: The contractor is instructed to call 1-800-752-6007 to reach KY 811, the One-Call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that the owners of underground facilities are not required to be members of the KY 811 One-Call Before U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Clerk to determine what utility companies have facilities in the area.
22. The undersigned Utility acknowledges ownership and control of the facilities proposed to be installed, modified, or extended by the Applicant/Permittee and agrees to be bound by the requirements and terms of this application and all related documents making up the approved permit, by the Department's Permits Guidance Manual, and by all applicable regulations and statutes in effect on the date of issuance of the permit. This information and application is certified correct to the best knowledge and belief of the undersigned Utility.

NORTHERN KENTUCKY WATER DISTRICT

UTILITY

Steve Broering
NAME (Utility Representative)

Steve Broering
SIGNATURE (Utility Representative)

Engineering Technician
TITLE (Utility Representative)

7-15-2024
DATE



Know what's below. Call before you dig.

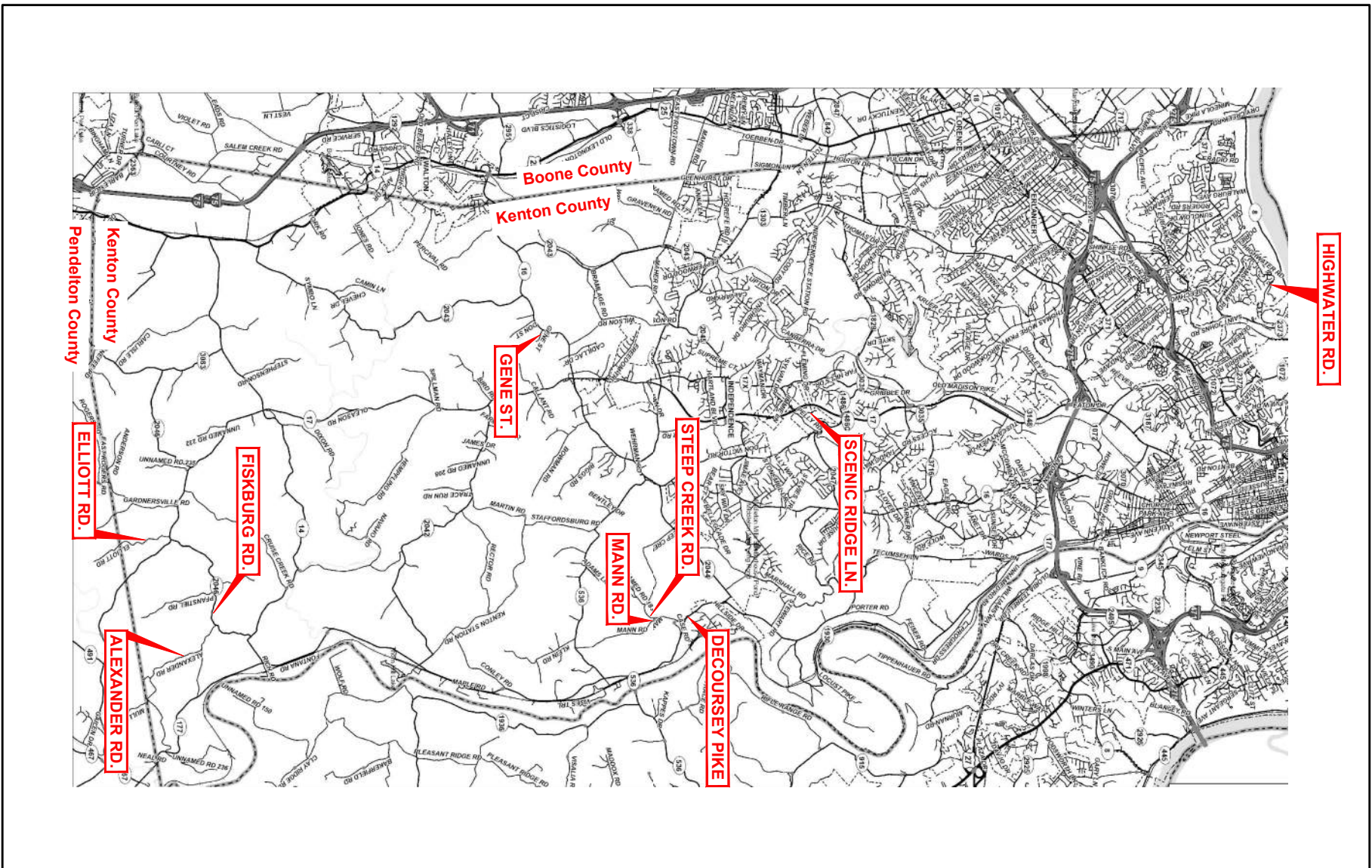
To Submit a Locate Request
24 Hours a Day, Seven Days a Week:
Call 811 or 800-752-6007

APPROVED
MARCH 23, 2025
KENTUCKY TRANSPORTATION CABINET
06-2024-00496

NORTHERN KENTUCKY WATER DISTRICT SUB-DISTRICT 'O' WATER MAIN EXTENSION KENTON COUNTY, KENTUCKY 231591

INDEX OF SHEETS		
NO.	DWG NAME	SHEET NAME
1	TTL	TITLE
2	G-01	GENERAL NOTES & LEGEND
3	G-02	DETAILS
4	G-03	DETAILS
5	G-04	DETAILS
6	G-05	DETAILS
7	G-06	EROSION CONTROL DETAILS
8	C-01	HIGHWATER ROAD
9-10	C-02 to C-03	SCENIC RIDGE DRIVE
11-15	C-04 to C-08	STEEP CREEK ROAD
16	C-09	STEEP CREEK / DECOURSEY
17	C-10	MANN ROAD
18	C-11	GENE STREET
19-22	C-12 to C-15	FSKBURG ROAD
23-24	C-16 to C-17	ALEXANDER ROAD
25-28	C-18 to C-21	ELLIOTT ROAD

NORTHERN KENTUCKY WATER DISTRICT OFFICIALS	
PRESIDENT / CEO LINDSEY RECHTIN, CPA	
COMMISSIONERS	
FRED A. MACKE, JR. (Chair)	
JODY R. LANGE (Vice-Chair)	
DOUGLAS C. WAGNER (Secretary)	
NICHOLAS E. WINNIKE (Treasurer)	
GARY E. HOLLAND (Commissioner)	
JOSEPH J. KOESTER (Commissioner)	



VICINITY MAP

NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS

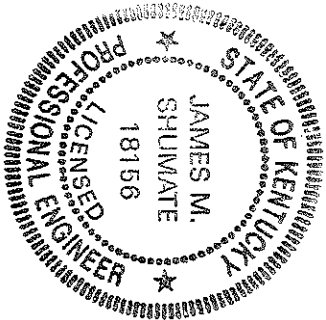
THE LATEST STANDARD SPECIFICATIONS AND DRAWINGS OF THE NORTHERN KENTUCKY WATER DISTRICT FOR THE INSTALLATION OF WATER MAIN AND METER PITS SHALL GOVERN ALL WATER MAIN CONSTRUCTION ITEMS ON THIS PROJECT.

KENTUCKY TRANSPORTATION CABINET SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND KENTON COUNTY SUBDIVISION REGULATIONS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF OUNDARY AND TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A SURVEY BY CT CONSULTANTS, INC.
THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED ON PLANNING AND DEVELOPMENT SERVICES (P.D.S.) G.I.S. MAPPING.



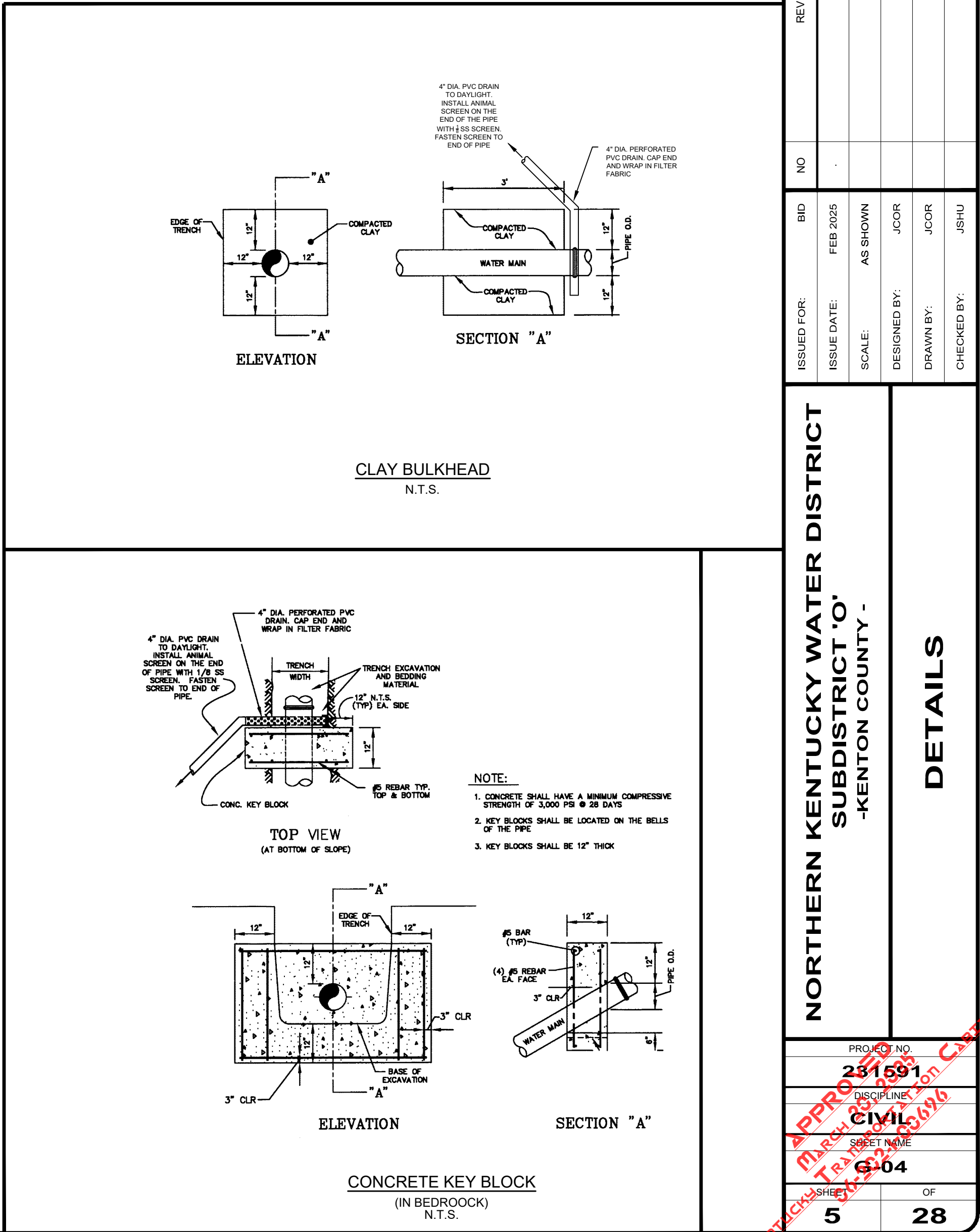
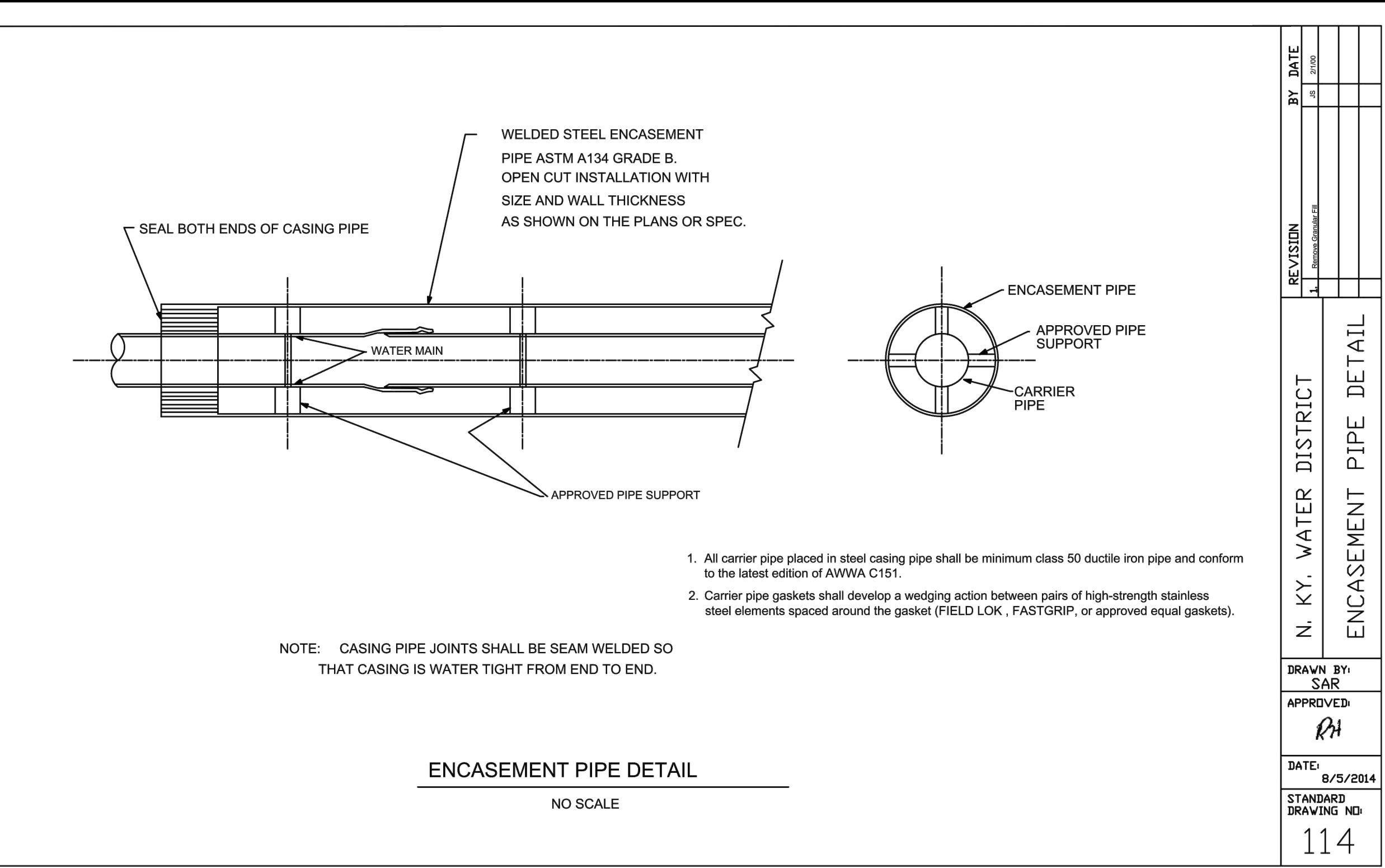
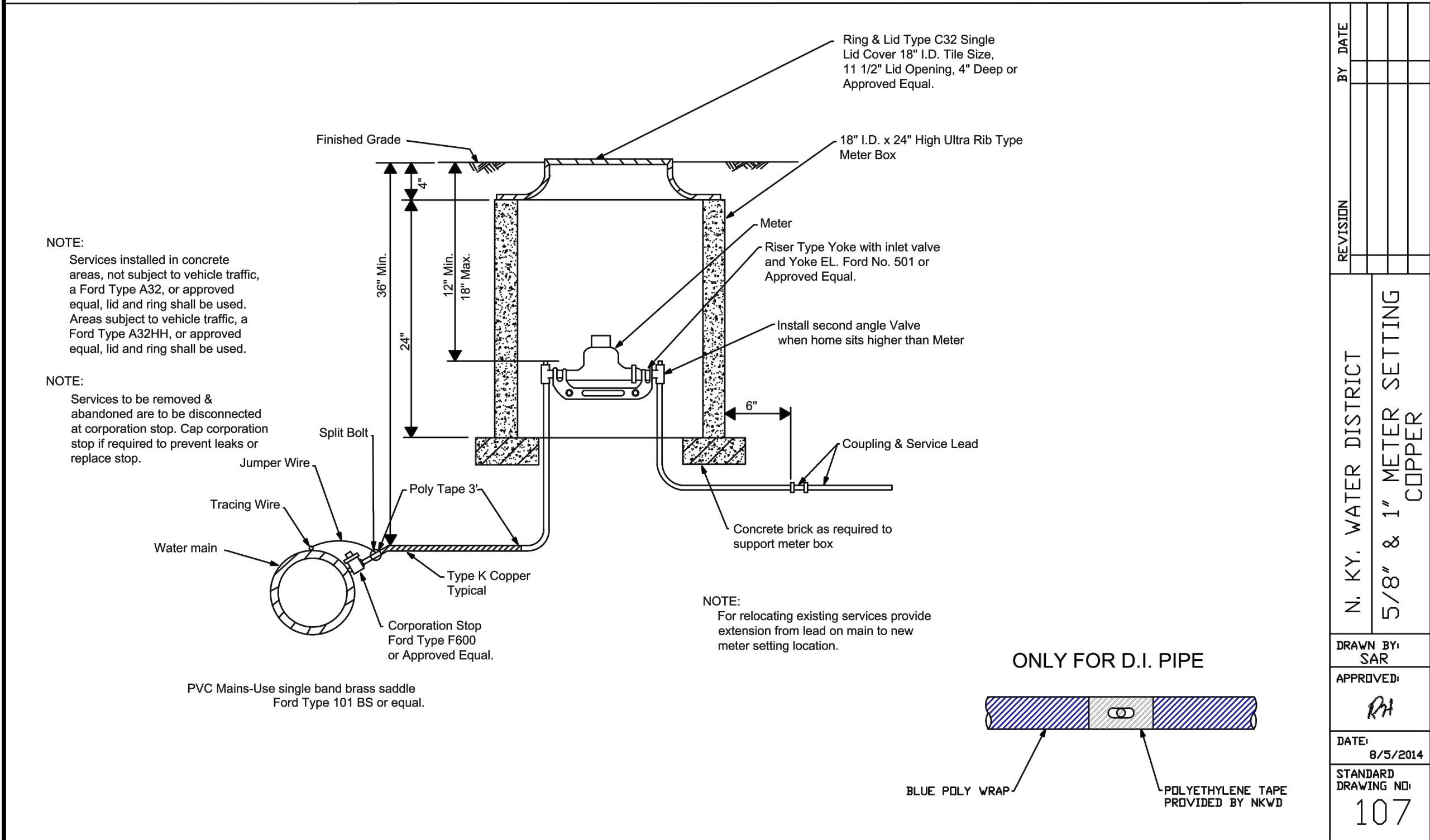
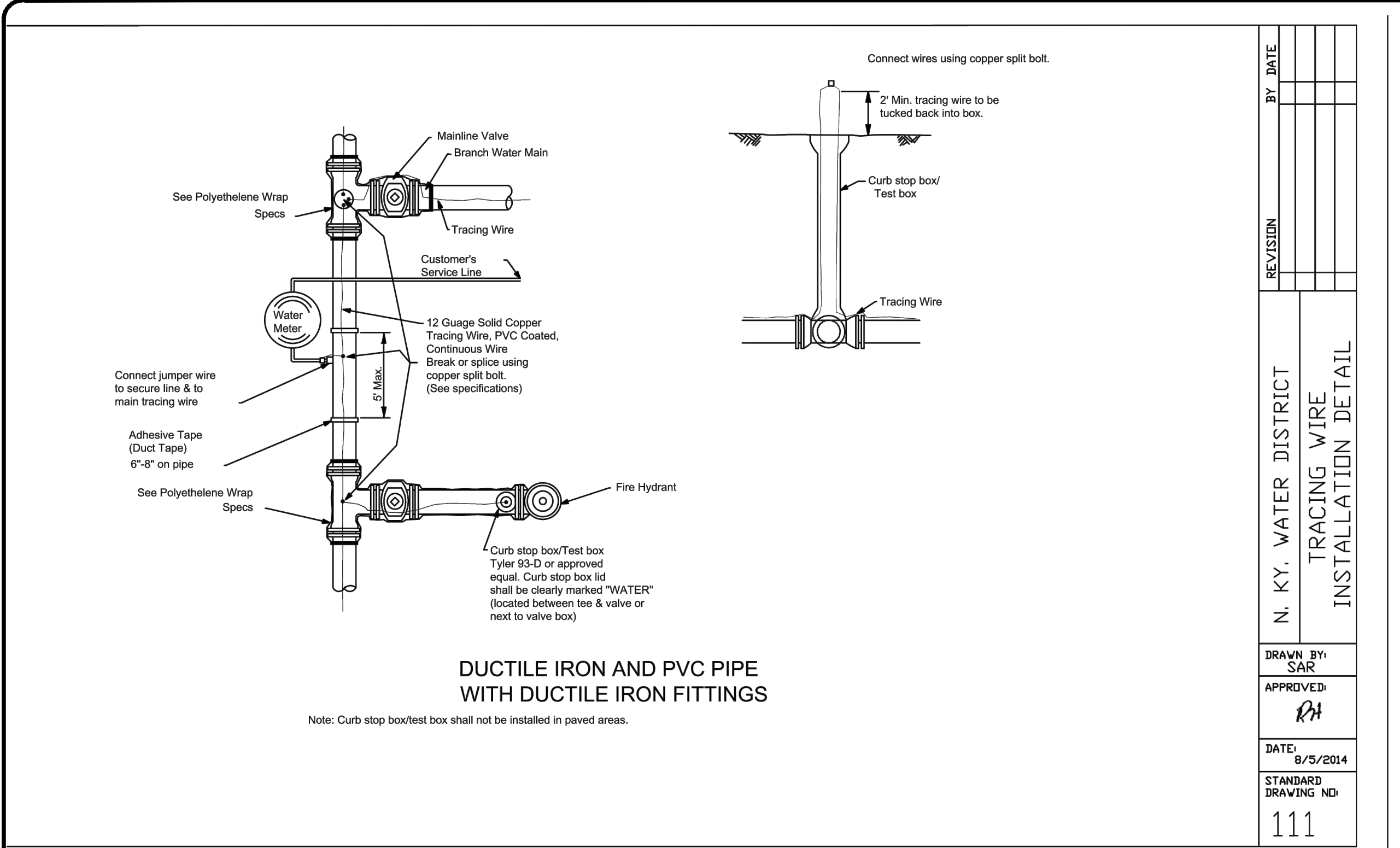
DATE	REVISION	NO	BID	ISSUED FOR:
				FEB 2025
				SCALE: AS SHOWN
				DESIGNED BY: JCOR
				DRAWN BY: JCOR
				CHECKED BY: JSHU

NORTHERN KENTUCKY WATER DISTRICT SUBDISTRICT 'O' -KENTON COUNTY -	
TITLE SHEET	

JAMES M. SHUMATE

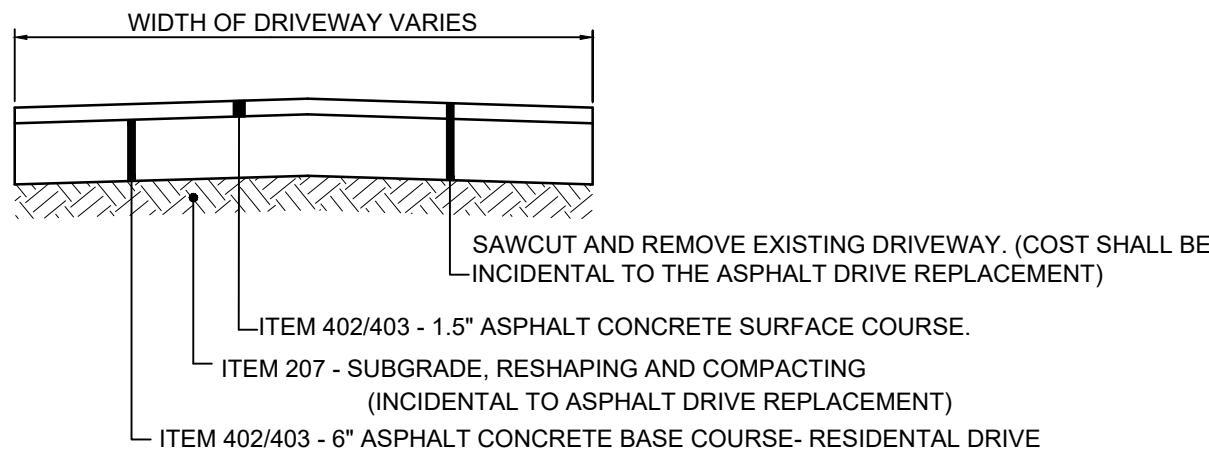
P.E. #18156

PROJECT NO.	231591
DISTRICT	Civil
SHEET NAME	TTL
SHEET	1
OF	28

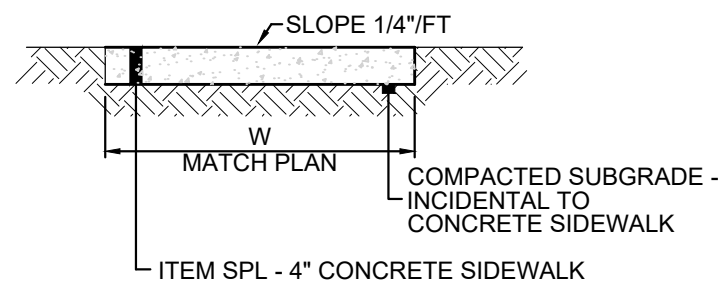
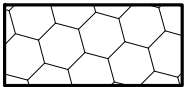


ISSUED FOR:	BID	NO	REVISION	DATE
ISSUE DATE:	FEB 2025			
SCALE:	AS SHOWN			
DESIGNED BY:	JCOR			
DRAWN BY:	JCOR			
CHECKED BY:	JSHU			

PROJECT NO.	231591
DISCIPLINE	CIVIL
SHEET NAME	G-04
SHEET	5
OF	28

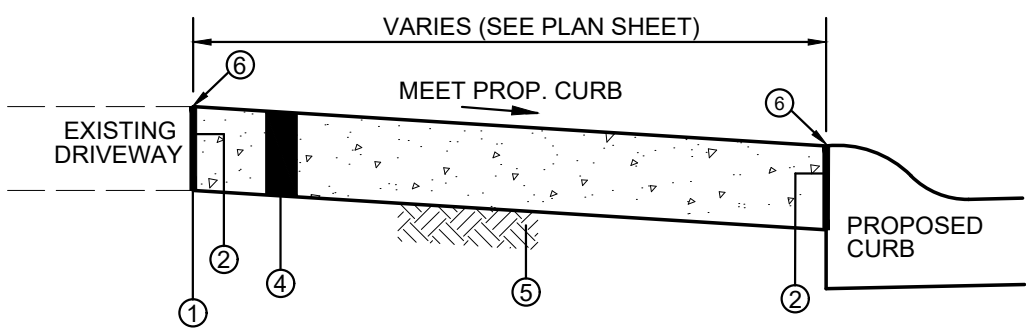
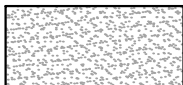


ASPHALT DRIVEWAY REPLACEMENT
N.T.S.



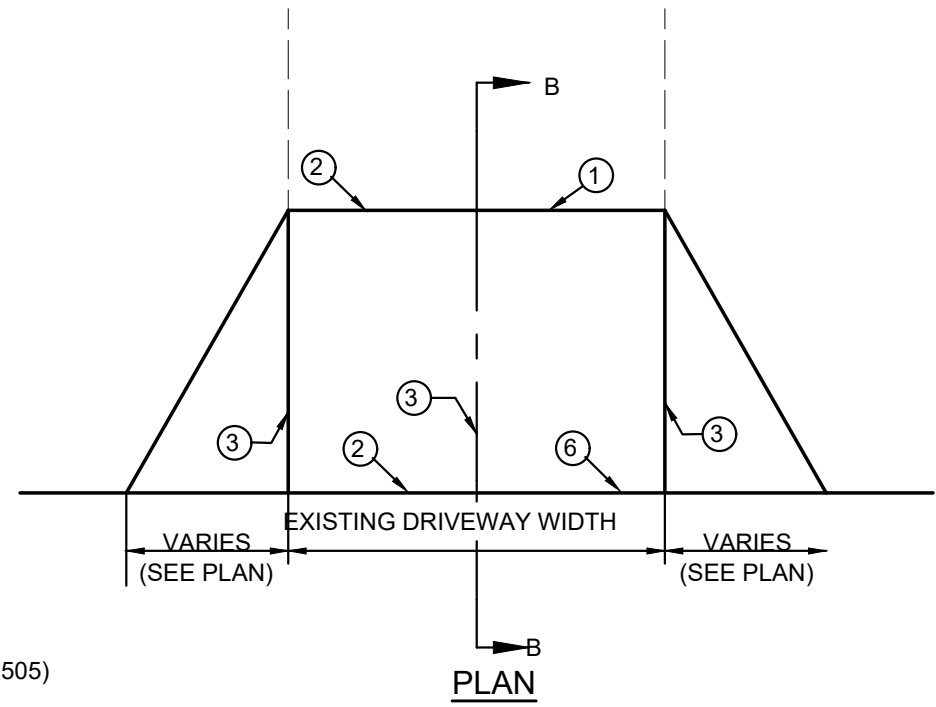
4" CONCRETE SIDEWALK
REPLACEMENT DETAIL

(SAWCUTTING AND REMOVAL OF EXISTING CONCRETE SIDEWALK AND EXCAVATION TO PROPOSED SUBGRADE INCIDENTAL TO SIDEWALK REPLACEMENT)



SECTION B-B

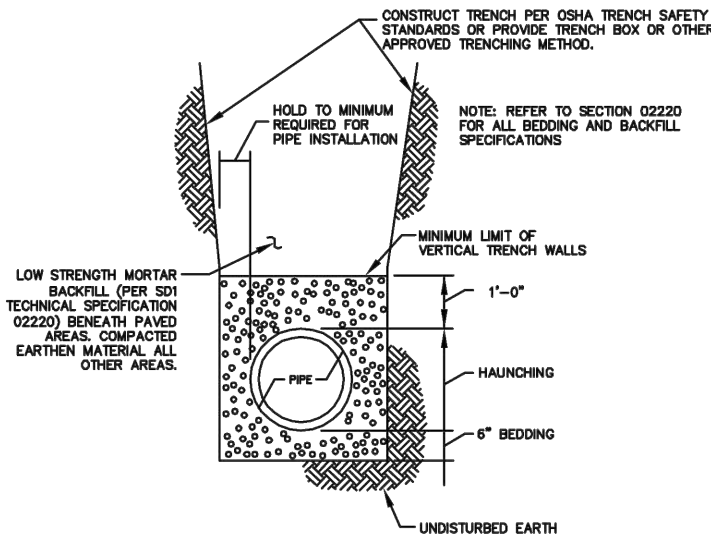
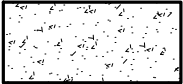
- SAWCUT AT NEAREST JOINT AND REMOVE EXISTING CONCRETE PAVEMENT (INCIDENTAL TO ITEM 505)
- 1" PREFORMED EXPANSION JOINT MATERIAL (FLEXIBLE FOAM-CERAMAR BY W.R. MEADOWS OR APPROVED EQUAL)
- TOOLED JOINT
- ITEM 505 - 6" CONCRETE DRIVEWAY/APRON (OR MATCH EXISTING WHICHEVER IS GREATER)
- COMPACTED SUBGRADE (INCIDENTAL TO ITEM 505 - 6" CONCRETE DRIVEWAY/APRON)
- SEAL JOINT WITH GRAY SELF LEVELING SEALANT (SIKA FLEX OR APPROVED EQUAL)



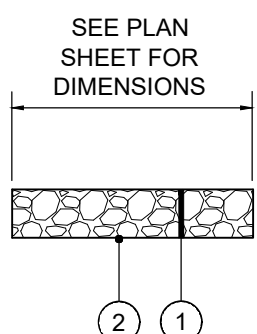
NOTE:

- ANY YARD AREA DISTURBED BY THE CONSTRUCTION OF THE DRIVEWAY APRON SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH (INCIDENTAL TO CONCRETE DRIVEWAY APRON REPLACEMENT).
- ALL EXCAVATION REQUIRED FOR THE PLACEMENT OF THE PROPOSED DRIVEWAY SHALL BE INCIDENTAL TO CONCRETE DRIVEWAY REPLACEMENT BID ITEM.

CONCRETE DRIVEWAY REPLACEMENT
N.T.S.

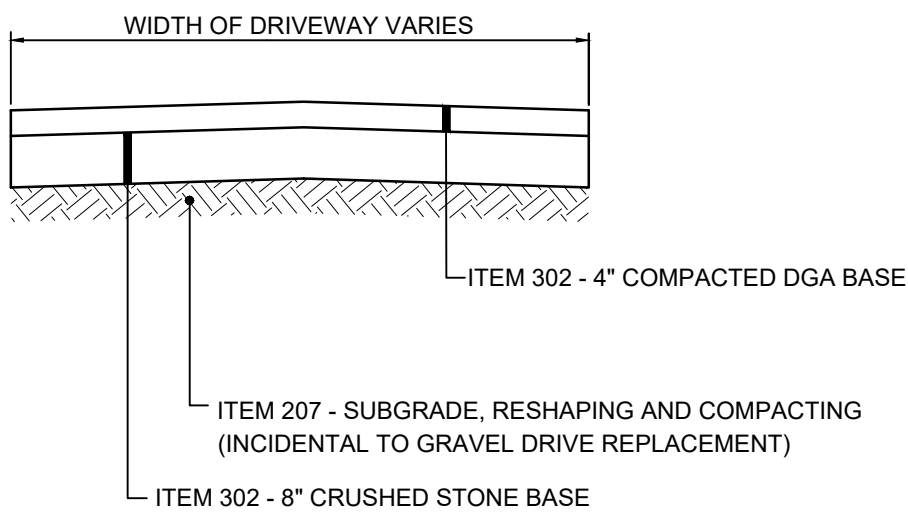


STORM TRENCH DETAIL
N.T.S.

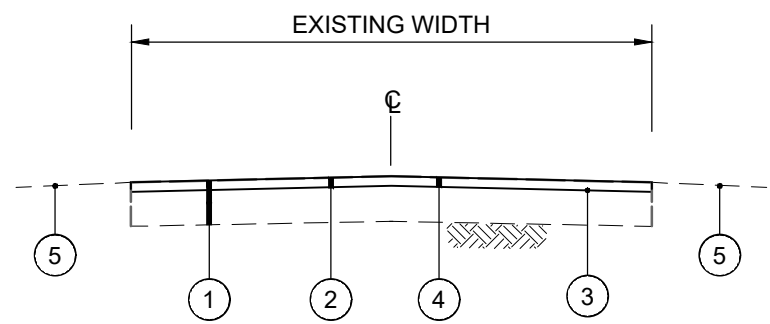
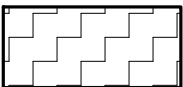


ROCK CHANNEL PROTECTION
N.T.S.

- ITEM 703 - 18" CHANNEL LINING, KYTC CLASS II
- NON WOVEN GEOTEXTILE FILTER FABRIC

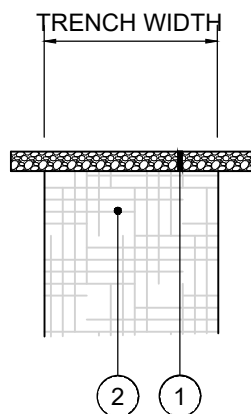
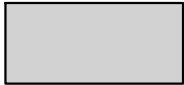


GRAVEL DRIVEWAY REPLACEMENT
N.T.S.



- EXISTING ASPHALT PAVEMENT
- ITEM 408 - ASPHALT MILLING (1.5" TYP.)
- ITEM 406 - TACK COAT @ 0.1 GAL/SY (INCIDENTAL TO ITEM 403)
- ITEM 402/403 - 1-1/2" ASPHALT PAVEMENT SURFACE
- DO NOT DISTURB YARD AREA

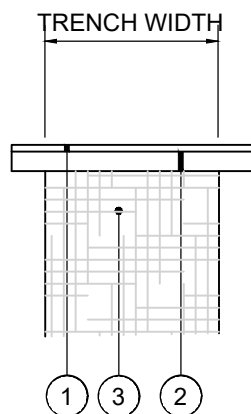
TYPICAL PAVEMENT RESURFACING SECTION
N.T.S.



AGGREGATE ROADWAY REPLACEMENT SECTION
N.T.S.



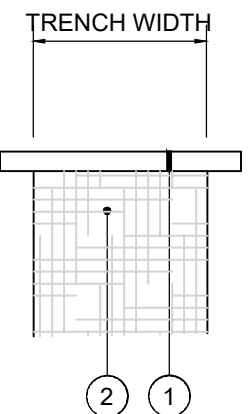
- ITEM 302 - 4" DGA BASE OVER 8" CRUSHED STONE BASE, (LESS THAN 7% FINES) COMPACTED TO 100% (ASTM D698).
- CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL SHEET (G-02)



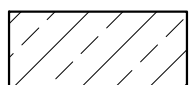
ASPHALT ROADWAY REPLACEMENT SECTION
N.T.S.



- ITEM 402/403 - 1.5" ASPHALT CONCRETE SURFACE COURSE
- ITEM 402/403 - 7.75" ASPHALT CONCRETE BASE (OR MATCH EXISTING)
- CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL SHEET (G-02)



CONCRETE ROADWAY REPLACEMENT SECTION
N.T.S.



- ITEM SPL - 8" PORTLAND CEMENT CONCRETE PAVEMENT - PER KENTON COUNTY SUBDIVISION REGULATIONS (OR MATCH EXISTING WHICHEVER IS GREATER)
- CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL SHEET (G-02)

NOTE:
GENE STREET HAS AN ADDITIONAL 1.5" ASPHALT OVERLAY ON THE CONCRETE PAVEMENT

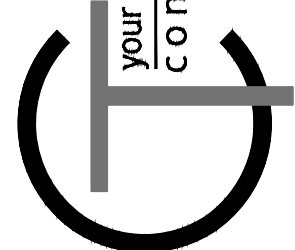
NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'
-KENTON COUNTY -

DETAILS

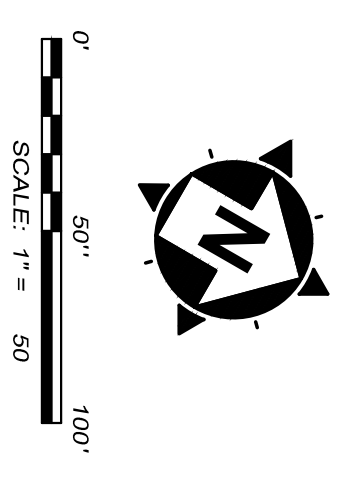
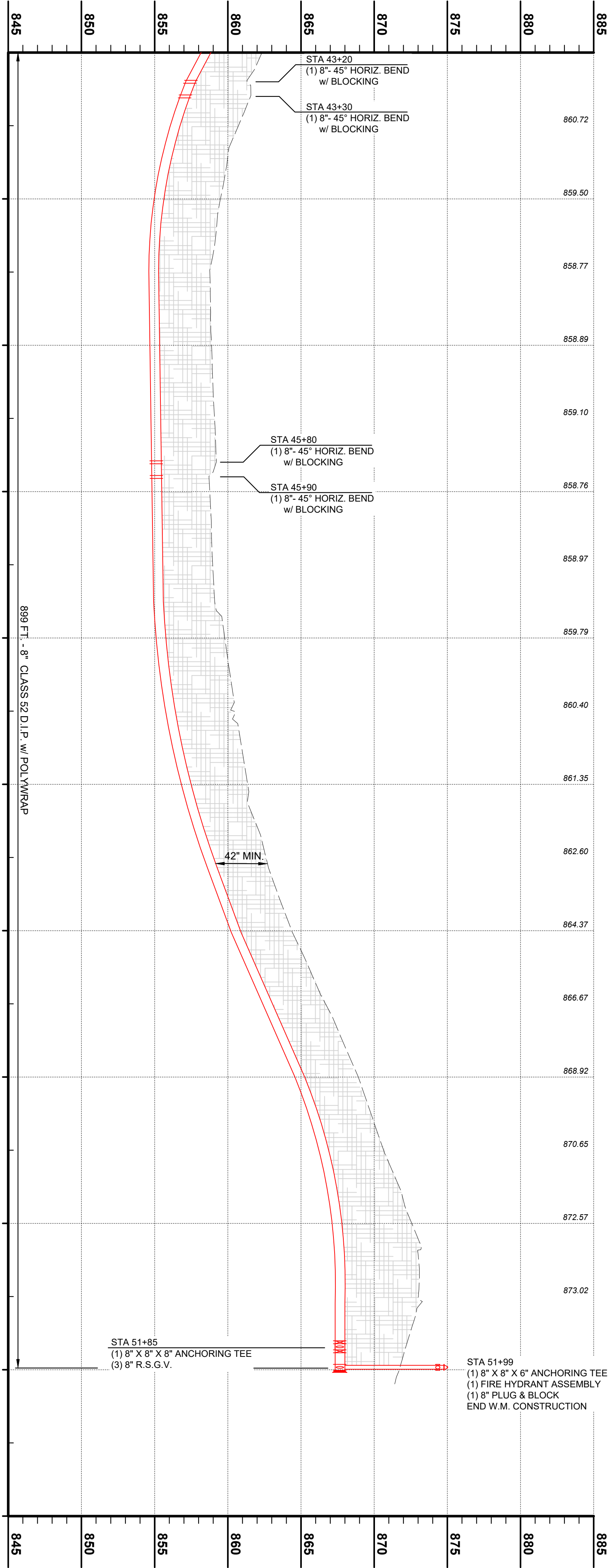
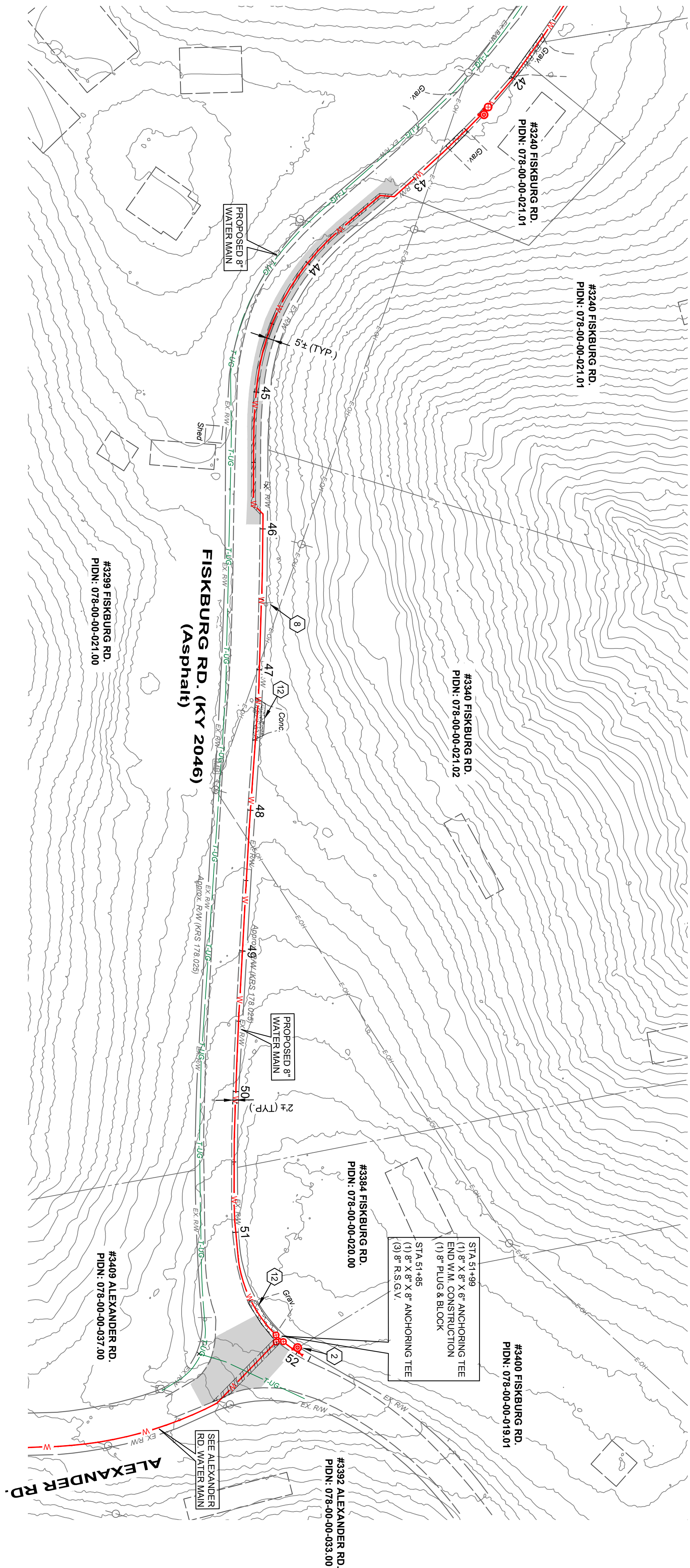
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ISSUE DATE:	FEB 2025			
SCALE:	AS SHOWN			
DESIGNED BY:	JCOR			
DRAWN BY:	JCOR			
CHECKED BY:	JSHU			

PROJECT NO.	231591
DISCIPLINE	CIVIL
SHEET NAME	G-05
SHEET	6
OF	28

your trusted advisor
consultants



engineers
architects
planners



CONSTRUCTION NOTES

- 1) MAINTAIN MANAGEABLE VERTICAL CLEARANCE BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING STORM SEWER, WATER MAIN, TELEPHONE AND GAS LINES. SEE DETAIL SHEET FOR SPECIFICATIONS. MAINTAIN MINIMUM 18\"/>
- 2) PROPOSED FIRE HYDRANT ASSEMBLY, VALVE AND COORDINATE WITH N.K.W.D. STD. DRAINING HO. 109. COORDINATE WITH N.K.W.D. INSPECTOR. ANCHOR VALVE TO TEE.
- 3) CONNECT TO EXISTING WATER MAIN (ACTUAL ELEVATION UNKNOWN). CONTRACTOR TO VERIFY DEPTH PRIOR TO CONSTRUCTION.
- 4) CHANNEL LINING CLASS II (12\"/>
- 5) CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITY PRIOR TO EXCAVATION ACTIVITY AND NOTIFY ENGINEER AND N.K.W.D. OF CONFLICTS.
- 6) DO NOT DISTURB
- 7) CONTRACTOR TO SUPPORT UTILITY POLE DURING PIPE INSTALLATION
- 8) REMOVE AND REPLACE SIGN
- 9) REMOVE AND REPLACE MAILBOX
- 10) INSTALL 5/8\"/>
- 11) REMOVE AND REPLACE EXISTING STORM STRUCTURE (CB.HW) AS NEEDED FOR WATER MAIN INSTALLATION
- 12) DRIVEWAY RESTORATION (SEE DETAILS)
- 13) CONSTRUCT CLAY BULKHEAD IN TRENCH WITH UNDERDRAIN, DAYLIGHT UNDERDRAIN TO DITCH OR DRAINAGE STRUCTURE
- 14) TREE TO BE REMOVED

HATCH LEGEND

- 1-1/2\"/>
- TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET
- TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET
- TRENCH RESTORATION - 8\"/>
- CONTROL DENSITY FILL - PAVT TRENCH
- CONCRETE DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- CONCRETE WALK REPLACEMENT - SEE DETAIL SHEET
- ASPHALT DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- GRAVEL DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- CHANNEL LINING CLASS II - SEE DETAIL SHEET

NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'
-KENTON COUNTY -

**FISKBURG ROAD
STA. 43+00 TO STA. 52+27**

ISSUED FOR:	BID	NO	REVISION	DATE
ISSUE DATE:	FEB 2025			
SCALE:	AS SHOWN			
DESIGNED BY:	JCOR			
DRAWN BY:	JCOR			
CHECKED BY:	JSHU			



PROJECT NO. 231694
DATE 02/17/25
SHEET 22 OF 28



**KYTC Division of Maintenance
Permits Branch
District 6**



ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

YOU MUST NOTIFY KYTC BEFORE BEGINNING ANY WORK IN THE RIGHT-OF-WAY. *Failure to alert KYTC of working within the right of way may result in permit revocation.*

Two ways to notify KYTC of your construction start date:

By Email: KYTCD6PERMITS@KY.GOV

**must include permit number and county in subject line*

By Phone: 859-341-2700

**must know permit number and county when calling*

YOU MUST ALSO NOTIFY KYTC UPON COMPLETION OF WORK WITHIN RIGHT-OF-WAY. *Failure to alert KYTC of completion of work may result in withholding release of any associated bonds.*



APPROVED
MARCH 20, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00696

I. SAFETY**A. General Provisions**

- All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, latest edition, Part VI, and safety requirements shall comply with the Permits Manual. Federal law requires that traffic control shall be implemented in accordance with MUTCD standards and KYTC's Standard Specifications for Road and Bridge Construction (KYTC SSRBC) under the supervision of a certified Work Zone Traffic Control Supervisor.
- All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly completed so that hazards adjacent to the traveled way are kept to an absolute minimum.
- No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All signs and flaggers during lane closure shall conform to the MUTCD. The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility. No non-construction equipment or vehicles or office trailers shall be allowed on the right of way during working hours. The right of way shall be left free and clear of equipment, material, and vehicles during non-working hours.
- When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, snow, fog, etc.) without specific permission from the Department.
- Working hours shall be between _____ and _____. Further date and time restrictions are as follows:

B. Explosives

- No explosive devices or explosive material shall be used within state right of way without proper license and approval of the Kentucky Department of Mines and Minerals, Explosive Division.

C. OSHA

- Kentucky Occupational Safety and Health Standards for the construction industry, which has the effect of law, states in part: (Page 52, 1926.651, Specific Excavation Requirements) "Prior to opening an excavation, effort shall be made to determine whether underground installations, (sewer, telephone, water, fuel, electric lines, etc.) will be encountered, and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation."

D. Archaeological

- Whenever materials of an archaeological nature are discovered during the course of construction work or maintenance operations, contact shall be made immediately with the Division of Environmental Analysis, which maintains an archaeologist on staff, or with the Office of the State Archaeologist located at the University of Kentucky. Following this consultation, further action shall be decided on a case-by-case basis by the State Highway Engineer or the Transportation Planning Engineer or their designated representative.

E. Environmental

- If the activity to which this permit related disturbs one acre or more of land, you must obtain KPDES KYR10 permit. Information can be found at <http://water.ky.gov/permitting/Pages/GeneralPermits.aspx>

F. Additional Notes

- The following additional notes apply to this permit:

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MARCH 23, 2023
KENTUCKY TRANSPORTATION
06-2021-00696
CABINET

II. UTILITIES

- The permittee shall be responsible for any damage to existing utilities. Any utility modifications or relocations within state right of way necessary, as determined by the Department or by the owner of the utility, shall be at the expense of the permittee and subject to the approval of the Department. Operators of underground utilities in right of way shall be members of Kentucky 811.
- All existing manholes and valve boxes shall be adjusted to be flush with finished grade.
- All pavement cuts shall be restored per Kentucky Transportation Cabinet standards and specifications.
- Any excavation within 3' of edge of pavement will require flowable fill as backfill.
- The clear zone requirement shall be met to the extent possible in accordance with the Roadside Design Guide.
- Encasement pipe shall conform to current standards for highway crossings in accordance with the Permits Manual. Pipe encasing shall not be required if the pipe crossing is 2" or less.
- Aerial crossing of utility lines shall have a minimum clearance from the high point of the roadway to the low point of the line of 24' on fully controlled access highways and 18' on non-fully controlled access highways
- Minimum depth for underground Gas and Electric lines is 60" under roadways, ramps, and ditch lines and 42" in all other areas within state right of way. The minimum depth for all other utilities is 42" in all areas.
- When steel plates are installed over an open excavation in the roadway, they must be anchored to the pavement and have asphalt applied to all exposed edges and an MUTCD approved sign noting "Road Plates Ahead." KYTC must be notified of the location, date, time, and permit number associated to BOTH the installation and removal of the plate. Failure to do so may result in permit revocation.
- Utility poles moved for replacement must be removed in their entirety and the hole left behind must be backfilled.
- No poles or anchors shall be installed in a roadside ditch.
- **Utility notes specific to fully-controlled access highways ONLY:**
All work necessary within the right-of-way shall be performed behind a temporary fence erected prior to the start of work. The temporary woven wire fence shall be removed immediately upon completion of work on the right-of-way, and the control of access immediately restored to original condition, in accordance with applicable KYTC SSRBC. All vents, valves, manholes, etc., shall be located outside of the right-of-way. Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints. The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep. Work in interstate right-of-way requires approval from FHWA (Federal Highway Administration).
- Additional notes:

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MARCH 23, 2025
KENTUCKY TRANSPORTATION CABINET
06-2024-00696

III. DRAINAGE

- Negative impacts to existing drainage will be the applicant's responsibility to repair in accordance with KYTC SSRBC.
- All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of installation including bedding and joint seating. Pipe shall not be covered until inspected by the Department and express permission obtained to make backfill. It is the applicant's responsibility to request inspection.
- All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with curbs or in entrance areas or other paved areas within the right-of-way shall not be acceptable.
- All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall conform to the Department specifications and shall be constructed in accordance with the KYTC's Standard Drawings.
- Additional notes:

IV. PAVING

- No bituminous pavement shall be installed within the right of way between November 15 and April 1, nor when the temperature is below 40 degrees Fahrenheit, without the express consent of the Department. No bituminous pavement shall be installed when the underlying course is wet.
- Paving within the right of way shall be as follows:
 - Base (Type): _____, (Thickness) _____
 - Surface Base (Type) _____, (Thickness) _____
 - Finished Surface (Type) _____, (Thickness) _____
- All materials and methods of construction, including base and subgrade preparation, shall be in accordance with KYTC's Standard Specifications. At least 24 hours notice to the Department is required prior to beginning paving operations.
Phone: _____ Name: _____
- Utility companies performing road cuts must restore the pavement to pre-existing condition. Pictures/videos are recommended to ensure proper placement of signs and lane markers that are temporarily removed for paving operations. In some cases, a pre-work inventory may be requested from the Department.
- Existing pavement and shoulder material shall be removed to accommodate the above paving specifications.
- The finished surface of all new pavement within the right of way shall be true to the required slope and grade, uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent highway pavement or as determined by KYTC.
- To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highway pavement and shall slope away from the existing edge of the pavement as specified in drawings.
- Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement, and an edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Department of Highways Standard Specifications (latest edition), shall be applied between new and existing pavements.
- Additional notes:

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MARCH 19, 2025
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06-2024-00076

V. ENTRANCES

- Encroachment permits issued by KYTC in no way supersede local planning/zoning requirements or subdivision regulations. KYTC has no authority with zoning changes.
- Commercial entrances must be paved to the right-of-way line. Any deviations must be approved by KYTC before installation.
- KYTC can dictate drainage improvement installation during construction or after entrance is at final grade. The permit release does not release the permit applicant from drainage maintenance.
- Signs (ground-mounted and span-mounted), stop bars, crosswalk, and proper lane markings must be in-place before entrance is open for traffic. Lane width modifications must be approved by the Department.
- Guardrail installation must be pre-approved by the Department and installed by a KYTC pre-qualified contractor. Any guardrail that is removed during construction must be returned to the local KYTC maintenance facility.
- Additional notes:

VI. TRAFFIC

- Any contractor performing work within the vicinity of KYTC roadway lighting or traffic signals, must request locates from the KYTC District 6 Traffic section at least one week before of starting work in the right-of-way.
- Applicant must maintain all KYTC Roadway signage that is impacted by the permitted work. In the event that any signs have to be moved, it is the applicant's responsibility to mark the sign's location before removal and to install the original or new sign per KYTC standards for sign installation.
- Any thermoplastic or striping damaged during the encroachment must be restored in a timely manner per KYTC standards. Stopbars, arrows, and crosswalks must be thermoplastic material, paint is not acceptable. This work must be performed by a KYTC pre-qualified contractor.
- Excavating near a signal, lighting pole, or anchoring facility must be done so that it does not impact the structural integrity of the pole. Any work that requires a temporary support or anchoring must receive prior approval.
- If the scope of the permit involves a signal build or rebuild, it is the applicant's responsibility to apply for power service (and pay monthly electrical bill) as well as request electrical inspection from the KYTC District 6 Traffic section. If the signal modifications require timing or phasing changes this must be requested at least two weeks in advance of the signal's turn-on date. KYTC will not take ownership of permitted signals until the electrical inspection is formally accepted and approved.
- Work which impacts traffic loops requires 48-hour notice to the KYTC District 6 Traffic section at 859-341-2700. Accidental damage of a traffic loop must be reported immediately to KYTC District 6's emergency line at 859-620-2738. Any disturbed traffic loops must be replaced in a timely manner. Traffic loops out of operation for more than five working days will subject the applicant to the cancellation of the permit. Loop repair must be performed by a KYTC pre-qualified contractor.
- Additional Notes:

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MARCH 23, 2023
KENTUCKY TRANSPORTATION CABINET
06-2021-006696

VII. SIDEWALK SPECIFICATIONS

- All sidewalk modifications, retrofitting, or installations must meet current ADA guidelines
- A. New Sidewalks**
 - New sidewalk specifications, dimensions, and designs shall be in accordance with KYTC's latest edition of the Standard Specifications, or with the plans provided on the permit if approved by a KYTC D6 Construction or Permits Engineer.
 - All materials and methods of construction, including curing, shall be in accordance with KYTC's latest edition of the Standard Specifications.
- B. Existing Sidewalks**
 - Use of the sidewalk shall not be blocked or obstructed and a usable walkway shall be maintained across the construction area at all times per MUTCD . Sidewalk closures must be approved by the Department before implementation.
 - The location of ADA ramps (truncated domes/tactile warnings/etc.) will need to be field verified by KYTC before installation.
 - Any section of sidewalk that becomes damaged shall be entirely replaced to match existing sections.
 - Additional notes:

VIII. RIGHT OF WAY RESTORATION

- All disturbed portions of the right of way shall be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition). A satisfactory turf, as determined by the Department, shall be established by the permittee prior to release of indemnity. Sodding or seeding shall be as follows:
 - Slopes 3:1 or Less: 90% Kentucky 31 Tall Fescue and 10% White Dutch Clover at 100 lbs/acre
 - Slopes Greater than 3:1: 90% Kentucky 31 Tall Fescue and 10% Partridge Pea at 100 lbs/acre
 - Urban or Residential Areas: 95% Turf Type Fall Fescue Blend and 5% White Dutch Clover at 275 lbs/acre
- Two tons of clean straw mulch per acre of seeding.
- Prior to seeding, the ground shall be prepared in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).
- Substitutes for sod such as artificial turf, rocked mulch, or paved areas may be acceptable if they are aesthetically pleasing and receive prior approval from KYTC.
- All ditch-flow lines and all ditch-side slopes shall be sodded.
- Existing concrete right of way markers shall not be disturbed. If damaged in any way, they shall be entirely replaced by the permittee with new concrete markers to match the original markers, in accordance with Kentucky Department of Highways Standard Drawings. Markers that are entirely removed shall be re-established in the proper locations by the permittee and to the satisfaction of the Department.
- Additional notes:

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MARCH 23, 2025
KENTUCKY TRANSPORTATION CABINET
06-2024-00696

IX. RIGHT OF WAY FENCE RESTORATION

- The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to protect against encroachment.
- The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-way line
- The fence materials and design shall meet accepted industry standards and be treated as paintable. Durable finish materials such as vinyl are acceptable.
- The permittee shall be required to construct and maintain the replacement fencing to an acceptable level of functionality and state of repair. All work on the fencing shall be performed by access from the private property. Access from the roadway is not allowed.
- The existing fence shall be removed by permittee and stored at the Department's maintenance storage yard for future reuse by the Department, or the Department shall be reimbursed the cost of fencing removed.
- Right of way monuments shall be installed regardless of if replacement fence is installed or not.
- The control of access shall not be diminished as a result of replacement of the fence.
- Additional notes:

X. MISCELLANEOUS NOTES

NOTICE TO PERMITTEE

THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE CURRENT KYTC STANDARD SPECIFICATIONS AND THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF HIGHWAYS SHALL BE REMOVED BY THE PERMITTEE AT NO EXPENSE TO THE DEPARTMENT OF HIGHWAYS AND SHALL BE REDONE BY THE PERMITTEE TO CONFORM WITH THE APPROVED PLANS.

APPROVED
2/25/2025
Kentucky Transportation Cabinet

INTRODUCTION

The Northern Kentucky Water District is in the design phase for the installation of new 8" water mains within various unserved areas of Kenton County. One of these areas is along Fiskburg Road (KY 2046) from Goshorn Road to Alexander Road. It is understood that KYTC policy per the Utilities Chapter of their Permits Manual states that new or relocated utility facilities shall not be installed longitudinally under pavement. It also states that exceptions to this requirement can be permitted at the discretion of the State Highway Engineer. NKWD is requesting that an exception to this requirement be granted for the project due to several existing condition conflicts that prevent NKWD from meeting this requirement. This report outlines the existing conditions that create the conflicts that NKWD is facing. See applicable plan set sheets included with this submittal to reference to the written descriptions.

PROPOSED ALIGNMENT

The proposed water main alignment begins at the intersection of Fiskburg Road and Goshorn Road and will connect to the existing 8" water main at station 10+34. For the most part, the proposed water main will follow just outside of the northern pavement edge.

Station 37+00 to Station 39+50

The existing terrain in this area is characterized by a steep slope from the roadway edge. To continue the water main alignment outside of the pavement area could present unfavorable conditions for constructing a water main. NKWD is proposing shifting the alignment into the north lane for approximately 150 feet through the area of concern and then returning the alignment back outside of the roadway. The impact to traffic would be

minimized with a single lane closure and the water main could be placed in more stable soil.

Station 43+25 to Station 46+00

Once again, the existing terrain in this area is characterized a steep slope from the roadway edge. To continue the water main alignment outside of the pavement area could present unfavorable conditions for constructing a water main. NKWD is proposing shifting the alignment into the north lane for approximately 150 feet through the area of concern and then returning the alignment back outside of the roadway. The impact to traffic would be minimized with a single lane closure and the water main could be place in more stable soil.

Road crossings at Station 19+96 and Station 51+99

These two locations are tie-in points for the Pfanstiehl Road (Sta. 19+96) and Alexander Road (Sta. 51+99) proposed water mains.

Additional Alignment Notes

As shown on the plans, the proposed Fiskburg water main will also feed the proposed water main on both Phanstiehl Road and Alexander Road. Originally the preliminary alignment was presented along the south edge of Fiskburg Road and was based off of the proposed water main being able to fit within the right-of-way alongside of an underground Alta Fiber line. After multiple requests, the UG line was field marked. The Alta Fiber line was determined to be in the middle of the limited space between the south edge of pavement and the south R/W line along the whole Fiskburg Road corridor. After discussing the situation with NKWD, it was determined that the available space along the buried cable would not be sufficient for common trenching methods. In

addition, the Kentucky Public Service Commissions guidelines recommend hand digging any excavation within 2 feet of a buried utility which would be impractical for this 4,200 feet corridor. Finally, the narrow right-of-way width (30' total per KRS 178.025) does not allow enough room to construct the new water main on the south side behind the underground Alta Fiber line while still remaining in the existing R/W.

If an exception to the KYTC requirements cannot be granted for the Fiskburg Road water main project, NKWD will likely not be able to offer the planned water main extension for the Pfanstiel Road and Alexander Road projects.

SUMMARY

Given the location of the underground Alta Fiber cable and the surrounding terrain, the current proposed alignment is the only feasible alignment for the proposed work. The proposed alignment has met the KYTC requirements where possible. In the areas where it was not possible to meet those requirements, the alignment was laid out to try to minimize the impact on traffic and to minimize the length of water main installation longitudinally in the pavement that does not meet KYTC's standard requirements.

It is anticipated that conventional trench excavation will be utilized in the (4) areas noted where the water main installation encroaches into the pavement. Jack and bore installation for the longitudinal pavement cuts would not be feasible since the casing pipe could only be utilized between the horizontal bends requiring the launch and receiving pits to be in the pavement thus creating traffic safety concerns and still impacting traffic flow. For the two roadway crossings at Pfanstiehl Road and Alexander Road, again jack and bore installation would not be feasible largely due to the minimal 30 feet right-of-way width that would require the launch pits to also encroach into the pavement area creating the same safety and traffic concerns mentioned previously.

In each of these 4 instances, the casing pipe ends would be in the pavement and any future water main repairs would disturb the pavement. In addition, utilizing casing pipe access for repairs would require pulling a new piece of pipe the length of the casing which would extend the repair time, traffic impact and impact to residential service since this main would be a one-way feed verses spot repair via open trench excavation. For these reasons, a non-encased 8" ductile iron water main installed by open cut methods is recommended at these four locations. Traffic would only be impacted during working hours with a single lane closure (per TT-100-05) having both lanes opened during non-working hours by the utilization of secured steel plating where the trench has not been backfilled per plans set Maintenance of Traffic notes.

NKWD request that KYTC grant an exception to the requirements for this specific case. If you have any questions about the proposed alignment, please contact Jim Shumate at jshumate@ctconsultants.com or at 859-534-9931.

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

PERMITTEE

Name: Northern Kentucky Water District
Contact Person: Steve Broering
Address: 2835 Crescent Springs Road
City: Ft. Wright
State: Kentucky
Zip: 41017
Telephone: (859) 991-1652

PROJECT IDENTIFICATION

Permit Number: 06-2024-00844

I wish to notify the Department of Highways that the above mentioned permit work and any necessary right-of-way restoration have been completed and are ready for final inspection.

Permittee

Please return this form to the address below when work is completed and ready for final inspection.

Please Return to: Permit Engineer
Department of Highways, District 6 Office
421 Buttermilk Pike
Covington, Kentucky 41017
(859) 341-2700
www.transportation.ky.gov/

LOCATION(S)			
Description	County - Route	Latitude	Longitude
PROPOSED 8" WATER MAIN INSTALLATION ON STEEP CREEK RD. THAT TIES INTO EXISTING 8" WM ON DECOURSEY PIKE	Kenton - KY 177	38.934462	-84.471393

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00844



Andy Beshear
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Department of Highways, District 6 Office
421 Buttermilk Pike
Covington, Kentucky 41017
(859) 341-2700
www.transportation.ky.gov/

Jim Gray
Secretary

August 27, 2024

Northern Kentucky Water District
Steve Broering
2835 Crescent Springs Road
Ft. Wright, Kentucky 41017

Subject: Permit #: 06-2024-00844
Permit Type: Utilities - Water
Approval

Dear Applicant:

Attached is your permit approval and documentation for the subject permit.

Be advised that all work must be done in conformity with permit and application conditions. If you have any questions, please contact the Permits Section at this office.

Sincerely,

A handwritten signature in black ink that reads "Linzy Brefeld".

Linzy Brefeld
D6 Permits Supervisor

Attachments



An Equal Opportunity Employer M/F/D

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00844



Kentucky Transportation Cabinet
Department of Highways
Division of Maintenance
Permits Branch

TC 99-1 (B)
07/2018
Page 1 of 1

ENCROACHMENT PERMIT

KYTC KEPT #: 06-2024-00844

Permittee: Northern Kentucky Water District

Permit Type / Subtype: Utilities / Water

Work Completion Date: 8/27/2025

INDEMNITIES		
Type	Amount Required	Tracking Number
Performance Bond	\$0.00	
Cash / Check	\$0.00	
Self-Insured	\$0.00	
Payment Bond	\$0.00	
Liability Insurance	\$0.00	

This permit has been: **APPROVED** ☒ **DENIED** ☐

Linzy Brefeld	D6 Permits Supervisor	8/27/2024
SIGNATURE	TITLE	DATE

The TC 99-1(B), including the application TC-99 1(A) and all related and accompanying documents and drawings make up the permit. It is not a permit unless both the TC 99-1(A) and TC 99-1(B) are both present.

LOCATION(S)			
Description	County - Route	Latitude	Longitude
PROPOSED 8" WATER MAIN INSTALLATION ON STEEP CREEK RD. THAT TIES INTO EXISTING 8" WM ON DECOURSEY PIKE	Kenton - KY 177	38.934462	-84.471393

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00844

APPLICATION FOR ENCROACHMENT PERMIT

KYTC KEPT #: 06-2024-00844

SECTION 1: APPLICANT CONTACT INFORMATION

APPLICANT NORTHERN KY WATER DISTRICT		ADDRESS 2835 CRESCENT SPRINGS PIKE	
EMAIL sbroering@nkywater.org	CITY ERLANGER	STATE KY	ZIP 41018
CONTACT NAME 1 Steve Broering	EMAIL sbroering@nkywater.org	PHONE # 859-426-2728	
		CELL #	
CONTACT NAME 2 (if applicable)	EMAIL	PHONE #	
		CELL #	

SECTION 2: PROPOSED WORK LOCATION

ADDRESS	CITY LATONIA	STATE Kentucky	ZIP 41015
COUNTY KENTON	ROUTE # 177	MILE POINT 11.25	LONGITUDE (X) 84D28'17"W
			LATITUDE (Y) 38D56'04"N

ADDITIONAL LOCATION INFORMATION:

DECOURSEY PIKE (KY 177) FROM RYLAN LAKES DRIVE TO STEEP CREEK ROAD

FOR KYTC USE ONLY

PERMIT TYPE: ☐ Air Right ☐ Entrance ☒ Utilities ☐ Vegetation Removal ☐ Other: _____

ACCESS: ☐ Full ☐ Partial ☒ by Permit **LOCATION:** ☐ Left ☐ Right ☐ Crossing

SECTION 3: GENERAL DESCRIPTION OF WORK

PROPOSED 8" WATER MAIN INSTALLATION ON STEEP CREEK RD. THAT TIES INTO EXISTING 8" WM ON DECOURSEY PIKE (KY 177)

THE UNDERSIGNED APPLICANT(s), being duly authorized representative(s) or owner(s), DO AGREE TO ALL ORIGINAL UNEDITED TERMS AND CONDITIONS ON THE TC 99-1A, pages 1-4.

Steve Broering
SIGNATURE

7-15-2024

DATE

This is not a permit unless and until the applicant(s) receives an approved TC 99-1B from KYTC. This application shall become void if not approved by the cancellation date. The cancellation date shall be a minimum of one year from the date the applicant submits their application.

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00844

APPLICATION FOR ENCROACHMENT PERMIT

TERMS AND CONDITIONS

1. The permit, including this application and all related and accompanying documents and drawings making up the permit, remains in effect and is binding upon the Applicant/Permittee, its successors and assigns, as long as the encroachment(s) exists and also until the permittee is finally relieved by the Department of Highways from all its obligations.
2. Applicant shall meet all requirements of the Clean Water Act if the project will disturb one acre or more, the applicant shall obtain a KPDES KYR10 Permit from the Kentucky Division of Water. All disturbed areas shall meet the requirements of the Department of Highway's Standard Specifications, Sections 212 and 213, as amended.
3. **INDEMNITY:**
 - A. **PERFORMANCE BOND:** The permittee shall provide to the Department a performance bond according to the Permits Manual, Section PE-203 as a guarantee of conformance with the Department's Encroachment Permit requirements.
 - B. **PAYMENT BOND:** At the discretion of the department, a payment bond shall be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
 - C. **LIABILITY INSURANCE:** Liability insurance shall be required of the permittee (in an amount approved by the department) to cover all liabilities associated with the encroachment.
 - D. It shall be the responsibility of the permittee, its successors and assigns, to maintain all indemnities in full force and effect until the permittee is authorized to release the indemnity by the Department.
4. A copy of this application and all related documents making up the approved permit shall be given to the applicant and shall be made readily available for review at the work site at all times.
5. Perpetual maintenance of the encroachment is the responsibility of the permittee, its successors and assigns, with the approval of the Department as required, unless otherwise stated.
6. Permittee, its successors and assigns, shall comply with and agree to be bound by the requirements and terms of (a) this application and all related documents making up the approved permit, (b) by the Department's Permits Manual, and (c) by the Manual on Uniform Traffic Control Devices, both manuals as revised to and in effect on the date of issuance of the permit, all of which documents are made a part thereof by this reference. Compliance by the permittee, its successors and assigns, with subsequent revisions to applicable provisions of either manual or other policy of the Department may be made a condition of allowing the encroachment to persist under the permit.
7. Permittee agrees that this and any encroachment may be ordered removed by the Department at any time, and for any reason, upon thirty days written notice to the last known address of the applicant or to the address at the location of the encroachment. The permittee agrees that the cost of removing and of restoring the associated right-of-way is the responsibility of the permittee, its successors and assigns.
8. Permittee, its successors and assigns, agree that if the Department determines that motor vehicular safety deficiencies develop as a result of the installation or use of the encroachment, the permittee, its successors and assigns, shall provide and bear the expenses to adjust, relocate, or reconstruct the facilities, add signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department within a reasonable time after receipt of a written notice of such deficiency. The period within which such adjustments, relocations, additions, modifications, or other corrective measures must be completed will be specified in the notice.
9. Where traffic signals are required as a condition of granting the requested permit or are thereafter required to correct motor vehicular safety deficiencies, as determined by the Department, the costs for signal equipment and installation(s) shall be borne by the permittee, its successors and assigns and the Department in its reasonable discretion and only in accordance with the Department's current policy set forth in the Traffic Operations Manual and Permits Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property) shall be the responsibility of the permittee, its successors and assigns, at no expense to the Department.

APPLICATION FOR ENCROACHMENT PERMIT

10. The requested encroachment shall not infringe on the frontage rights of an abutting owner without their written consent as hereinafter described. Each abutting owner shall express their consent, which shall be binding on their successors and assigns, by the submission of a notarized statement as follows, "I (we), _____, hereby consent to the granting of the permit requested by the applicant along Route _____, which permit does affect frontage rights along my (our) adjacent real property." By signature(s) _____, subscribed and sworn by _____, on this date _____.
11. The permit, if approved, is subject to the agreement that it shall not interfere with any similar rights or permit(s) previously granted to any other party, except as otherwise provided by law.
12. Permittee shall include documentation which describes the facilities to be constructed. Permittee, its successors and assigns, agree as a condition of the granting of the permit to construct and maintain any and all permitted facilities or other encroachments in strict accordance with the submitted and approved permit documentation and the policies and procedures of the Department. Permittee, its successors and assigns, shall not use facilities authorized herein in any manner contrary to that prescribed by the approved permit. Only normal usage as contemplated by the parties and by this application and routine maintenance are authorized by the permit.
13. Permittee, its successors and assigns, at all times from the date permitted work is commenced until such time as all permitted facilities or other encroachments are removed from the right-of-way and the right-of-way restored, **shall defend, protect, indemnify and save harmless** the Department from any and all liability claims and demands arising out of the work, encroachment, maintenance, or other undertaking by the permittee, its successors and assigns, related or undertaken pursuant to the granted permit, due to any claimed act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party nor operate to enlarge any liability of the Department beyond that existing at common law or otherwise if this right to indemnity did not exist.
14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.
15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.
16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the expense of the permittee, except where the Department is required by law to pay any or all of those costs.

APPROVED
AUGUST 27, 2021
KENTUCKY TRANSPORTATION CABINET
06-2021-008-1-1

APPLICATION FOR ENCROACHMENT PERMIT

17. Permittee agrees that the authorized permit is personal to the permittee and shall remain in effect until such time as (a) the permittee's rights to the adjoining real property to have benefitted from the requested encroachment have been relinquished, (b) until all permit obligations have been assumed by appropriate successors and assigns, and (c) unless and until a written release from permit obligations has been granted by the Department. The permit and its requirements shall also bind the real property to have benefitted from the requested encroachment to the extent permitted by law. The permit and the related encroachment become the responsibility of the successors and assigns of the permittee and the successors and assigns of each property owner benefitting from the encroachment, or the encroachment may not otherwise permissibly continue to be maintained on the right-of-way. (Does not apply to utility encroachments serving the general public.)
18. If work authorized by the permit is within a highway construction project in the construction phase, it shall be the responsibility of the permittee to make personal contact with the Department's Engineer on the project in order to coordinate all permitted work with the Department's prime contractor on the project.
19. This permit is not intended to, nor shall it, affect, alter or alleviate any requirement imposed upon the permittee, its successors and assigns, by any other agency.
20. Permittee, its successors and assigns, agree to contain and maintain all dirt, mud, and other debris emanating from the encroachment away from the surrounding right-of-way and the travel way of the highway hereafter and at all times that its obligations under the permit remain in effect.
21. Before You Dig: The contractor is instructed to call 1-800-752-6007 to reach KY 811, the One-Call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that the owners of underground facilities are not required to be members of the KY 811 One-Call Before U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Clerk to determine what utility companies have facilities in the area.
22. The undersigned Utility acknowledges ownership and control of the facilities proposed to be installed, modified, or extended by the Applicant/Permittee and agrees to be bound by the requirements and terms of this application and all related documents making up the approved permit, by the Department's Permits Guidance Manual, and by all applicable regulations and statutes in effect on the date of issuance of the permit. This information and application is certified correct to the best knowledge and belief of the undersigned Utility.

NORTHERN KENTUCKY WATER DISTRICT

UTILITY

Steve Broering

NAME (Utility Representative)

Steve Broering

SIGNATURE (Utility Representative)

Engineering Technician

TITLE (Utility Representative)

7-15-2024

DATE



Know what's below. Call before you dig.

To Submit a Locate Request
24 Hours a Day, Seven Days a Week:
Call 811 or 800-752-6007

APPROVED
AUG 27, 2024
KENTUCKY TRANSPORTATION CABINET
06/20/2020

NORTHERN KENTUCKY WATER DISTRICT
SUB-DISTRICT 'O'
WATER MAIN EXTENSION
KENTON COUNTY, KENTUCKY
231591

NORTHERN KENTUCKY WATER DISTRICT OFFICIALS

PRESIDENT / CEO

LINDSEY RECHTIN, CPA

COMMISSIONERS

FRED A. MACKE, JR. (Chair)

JODY R. LANGE (Vice-Chair)

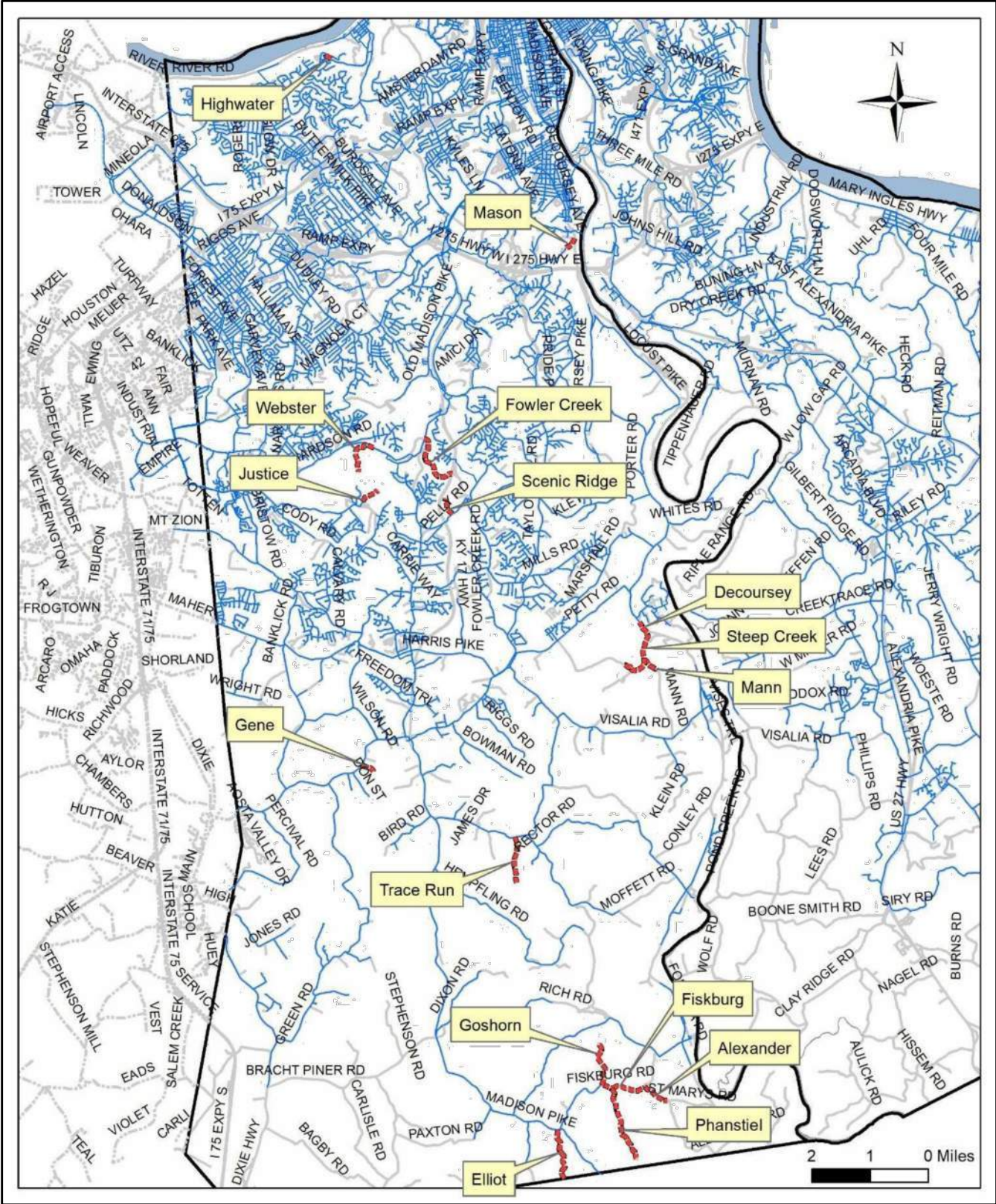
DOUGLAS C. WAGNER (Secretary)

NICHOLAS E. WINNIKE (Treasurer)

GARY E. HOLLAND (Commissioner)

JOSEPH J. KOESTER (Commissioner)

INDEX OF SHEETS		
NO.	DWG NAME	SHEET NAME
1	TTL	TITLE
2	G-01	GENERAL NOTES & LEGEND
3	G-02	DETAILS
4	G-03	DETAILS
5	G-04	DETAILS
6	G-05	EROSION CONTROL DETAILS
7	C-01	HIGHWATER ROAD
8-9	C-02 to C-03	MASON ROAD
10-13	C-04 to C-07	WEBSTER ROAD
14-15	C-08 to C-09	JUSTICE ROAD
16-17	C-10 to C-11	SCENIC RIDGE DRIVE
18-22	C-12 to C-16	STEEP CREEK ROAD
23	C-17	STEEP CREEK / DECOURSEY
24	C-18	MANN ROAD
25	C-19	GENE STREET
26-29	C-20 to C-23	TRACE RUN ROAD
30-33	C-24 to C-27	GOSHORN ROAD
34-37	C-28 to C-31	FISKBURG ROAD
38-43	C-32 to C-37	PFANSTIEL ROAD
44-45	C-38 to C-39	ALEXANDER ROAD
46-49	C-40 to C43	ELLIOT ROAD



VICINITY MAP

NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS AND DRAWINGS OF THE NORTHERN KENTUCKY WATER DISTRICT FOR THE INSTALLATION OF WATER MAIN AND METER PITS SHALL GOVERN ALL WATER MAIN CONSTRUCTION ITEMS ON THIS PROJECT.

KENTUCKY TRANSPORTATION CABINET SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND KENTON COUNTY SUBDIVISION REGULATIONS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF OUNDARY AND TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A SURVEY BY CT CONSULTANTS, INC.
THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED ON PLANNING AND DEVELOPMENT SERVICES (P.D.S.) G.I.S. MAPPING.

90%
REVIEW

your trusted advisor
consultants

engineers
architects
planners

ISSUED FOR:	90% DESIGN	NO	REVISION	DATE
ISSUE DATE:	MAY 2024			
SCALE:	AS SHOWN			
DESIGNED BY:	JCOR			
DRAWN BY:	JCOR			
CHECKED BY:	JSHU			

NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'
-KENTON COUNTY -

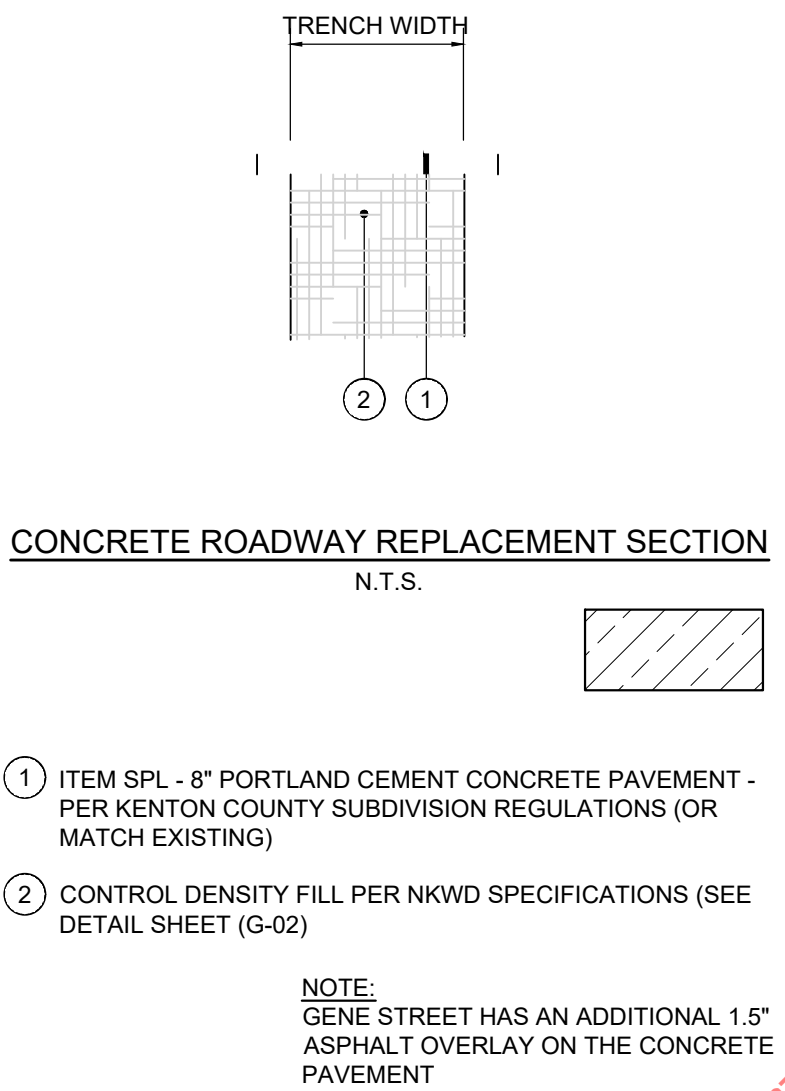
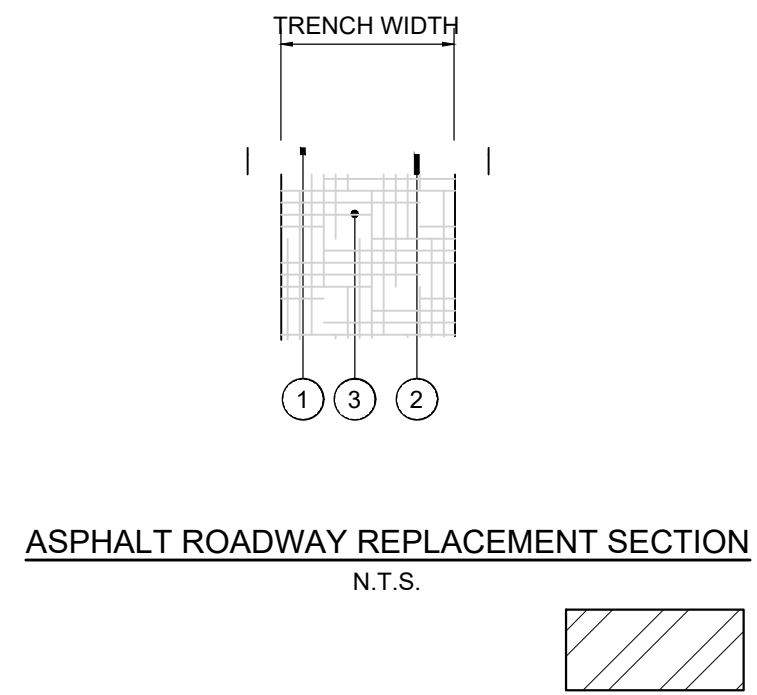
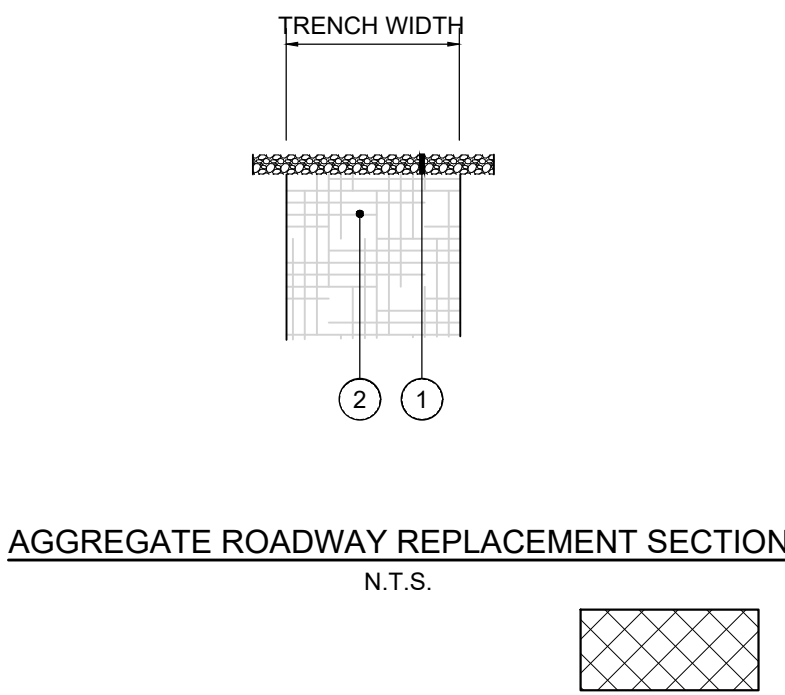
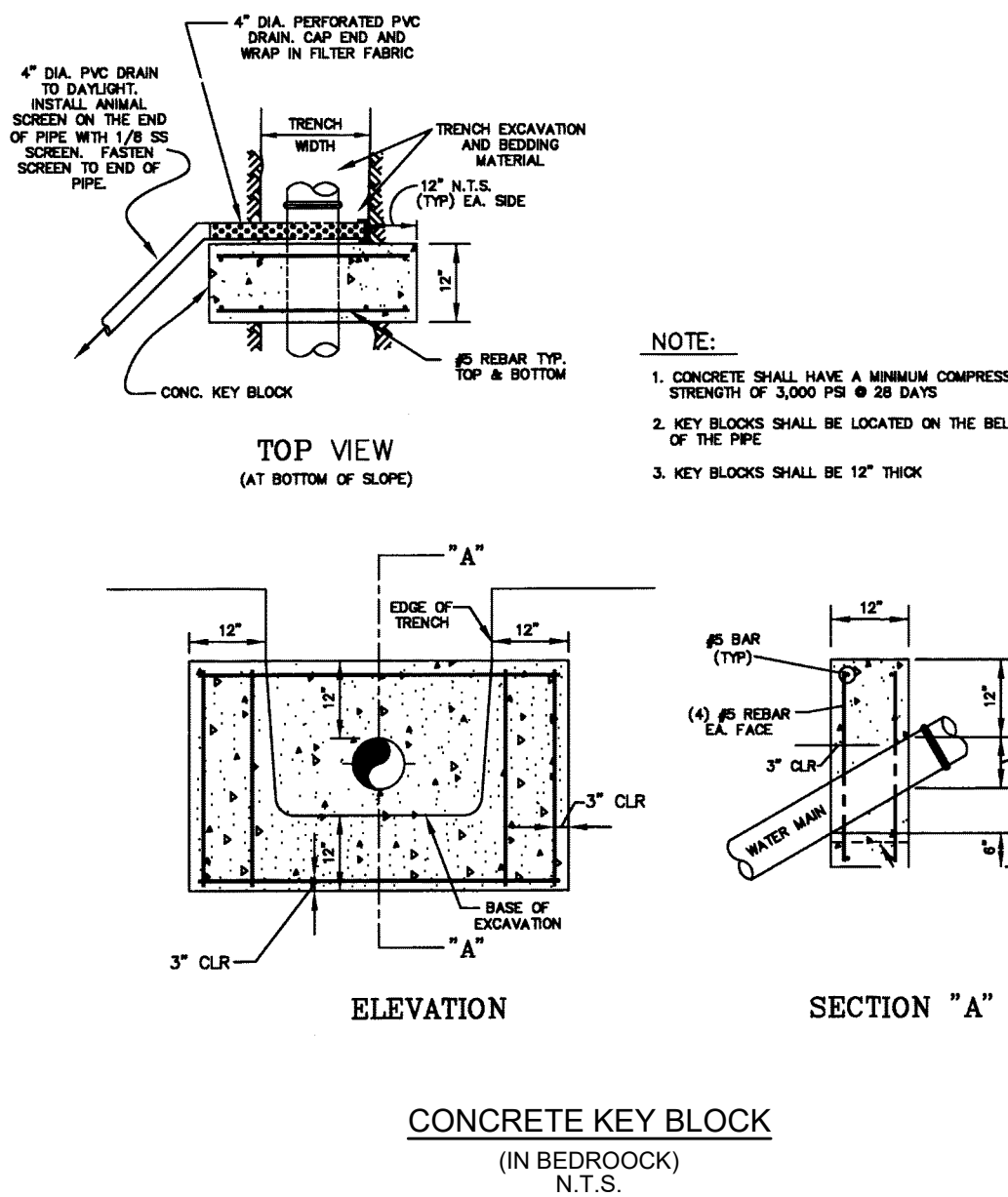
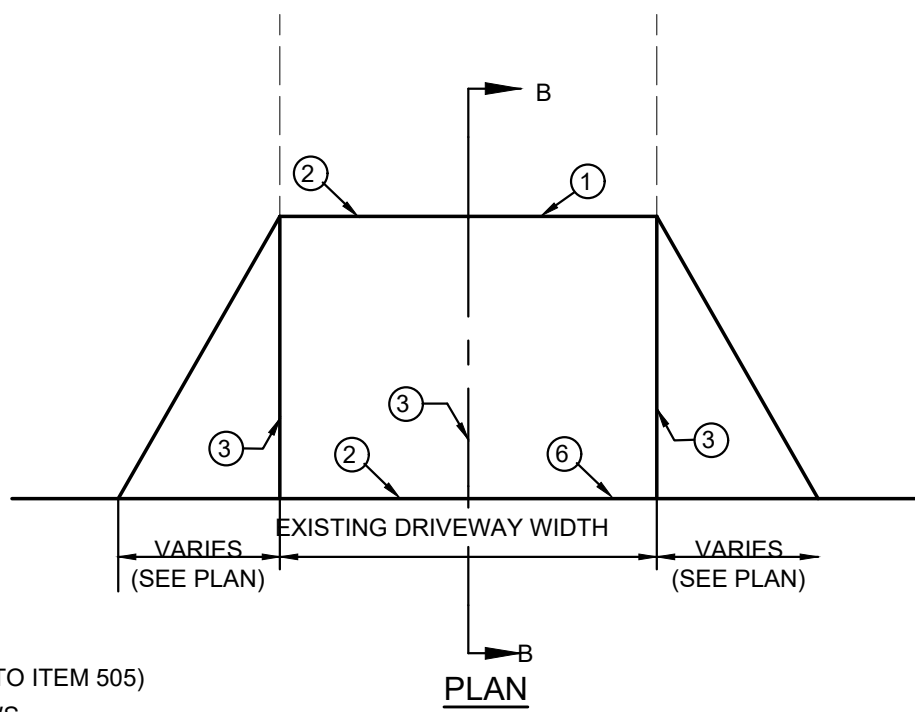
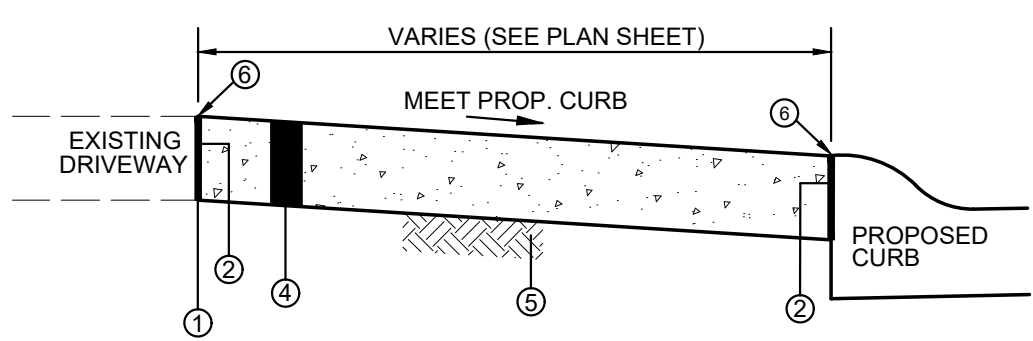
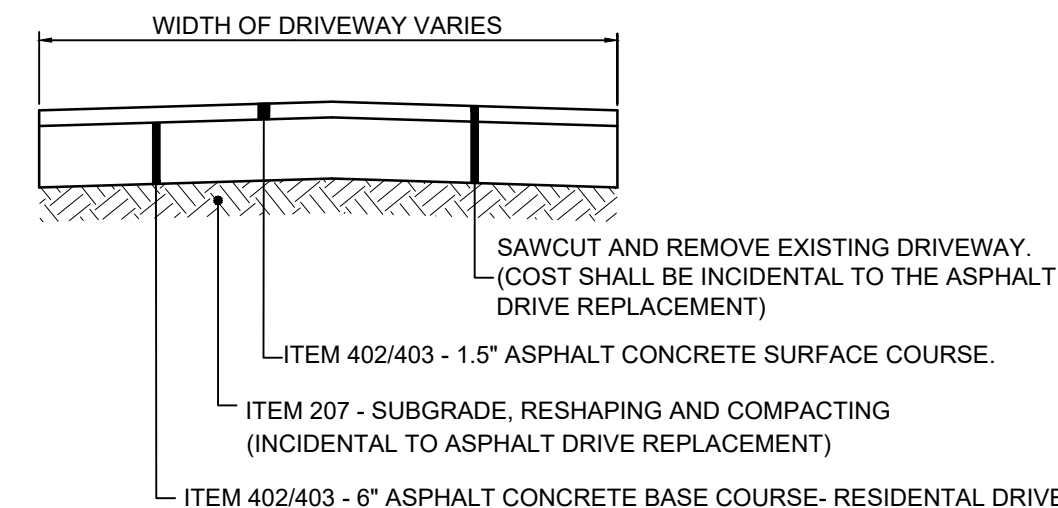
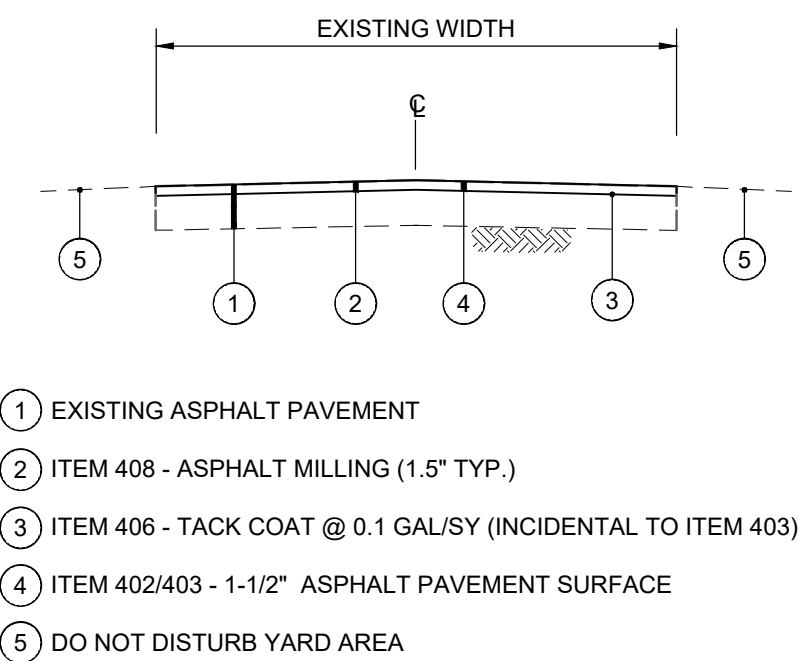
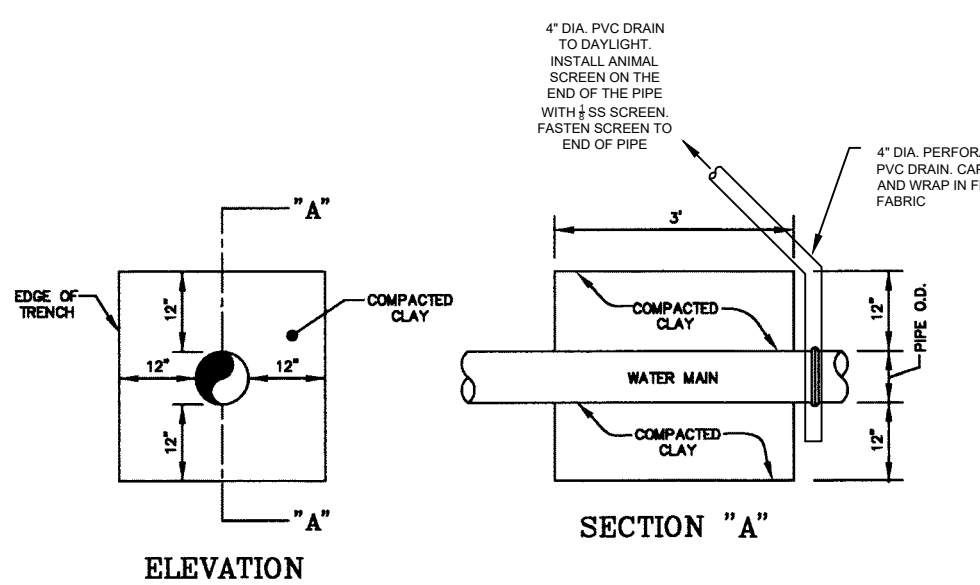
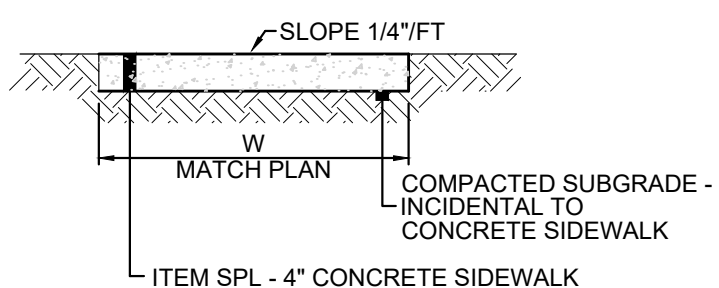
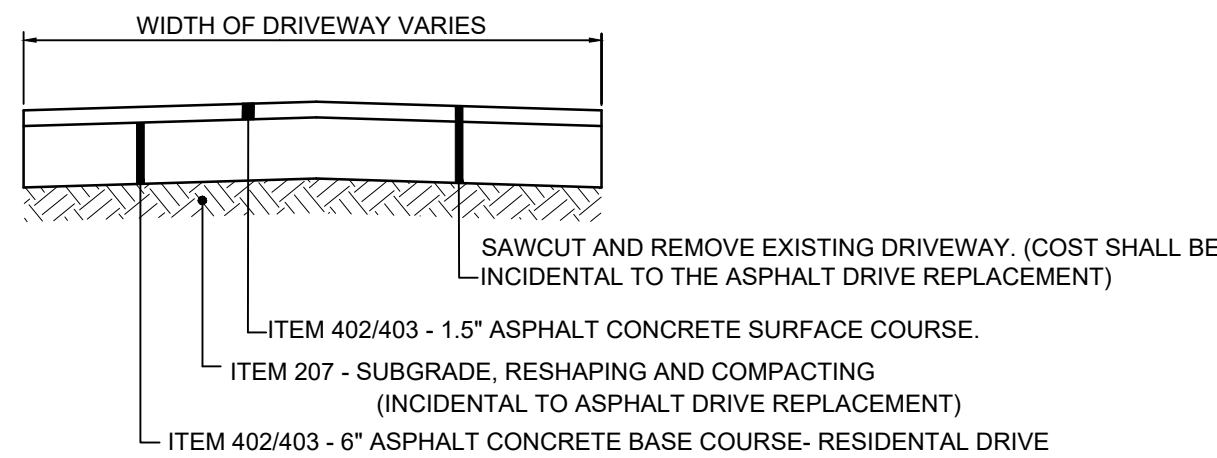
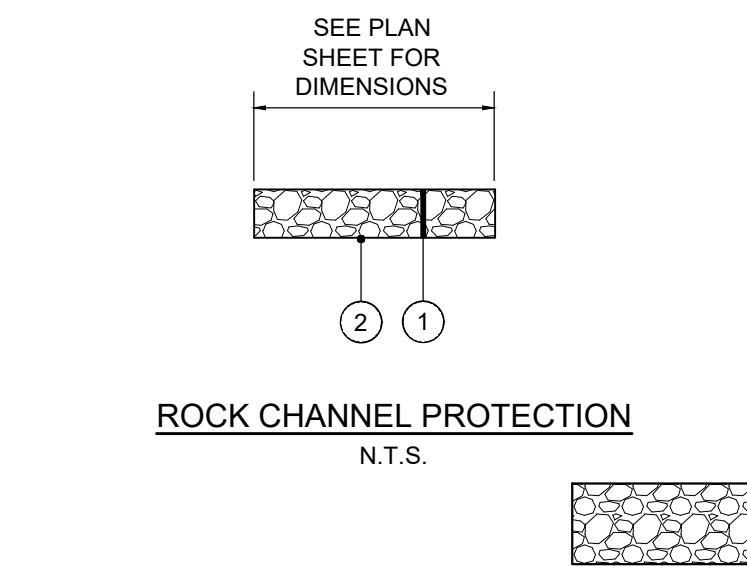
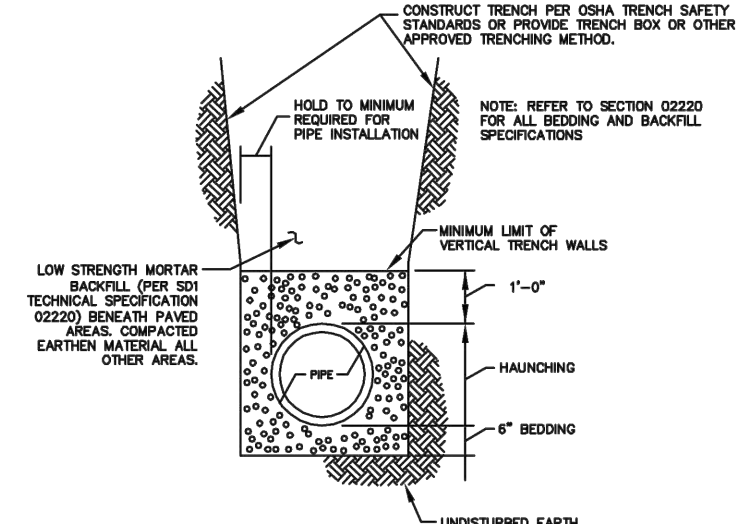
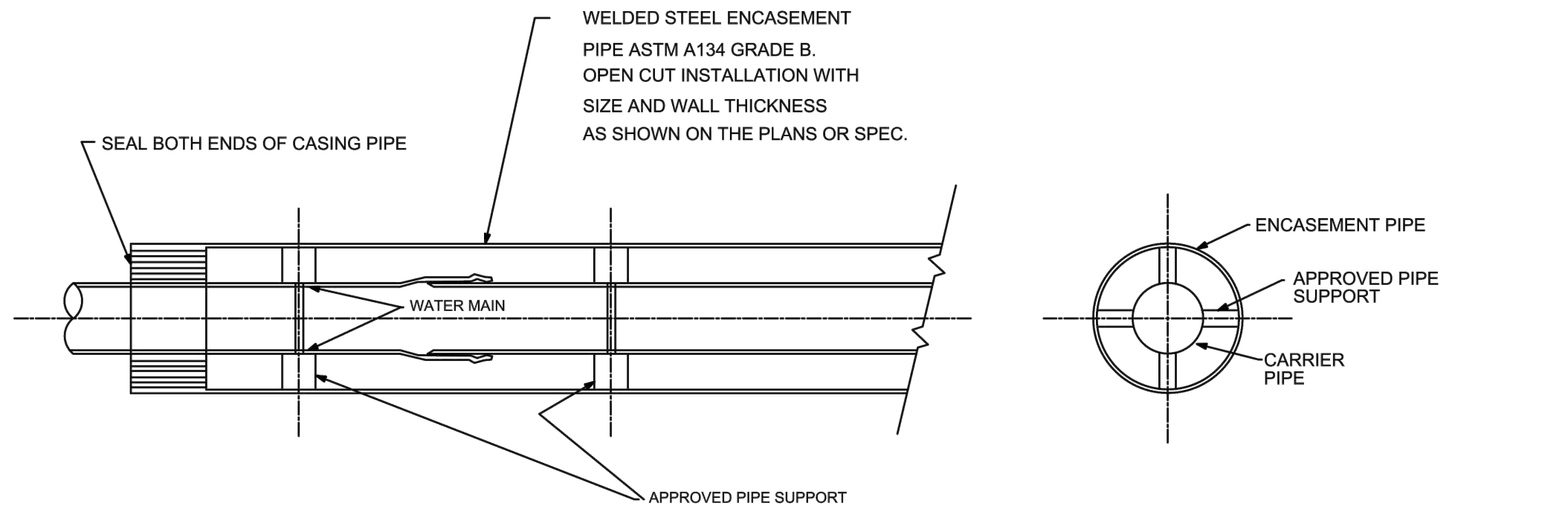
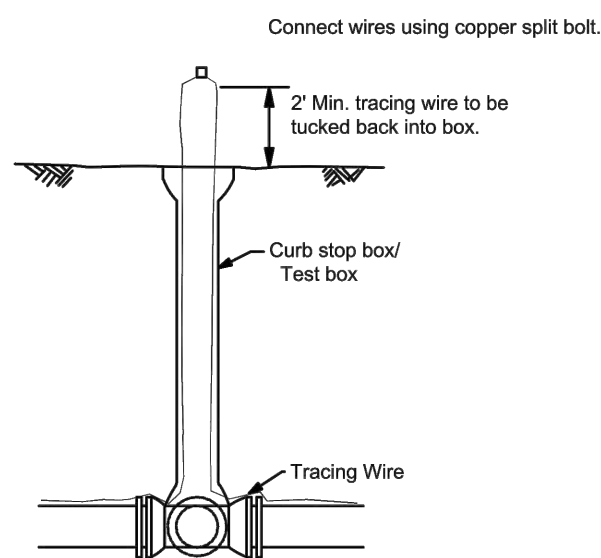
TITLE SHEET

PROJECT NO. 231591	
DISCIPLINE CIVIL	
SHEET NAME TTL	
SHEET 1	OF 48





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REVIEW**

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ISSUED FOR:	90% DESIGN	NO	REVISION	DATE
ISSUE DATE:	MAY 2024	-	-	-
SCALE:	AS SHOWN			
DESIGNED BY:	JCOR			
DRAWN BY:	JCOR			
CHECKED BY:	JSHU			

**NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'**

DETAILS

PROJECT NO.	
231591	
DISCIPLINE	
CIVIL	
SHEET NAME	
G-04	
SHEET	OF
5	49

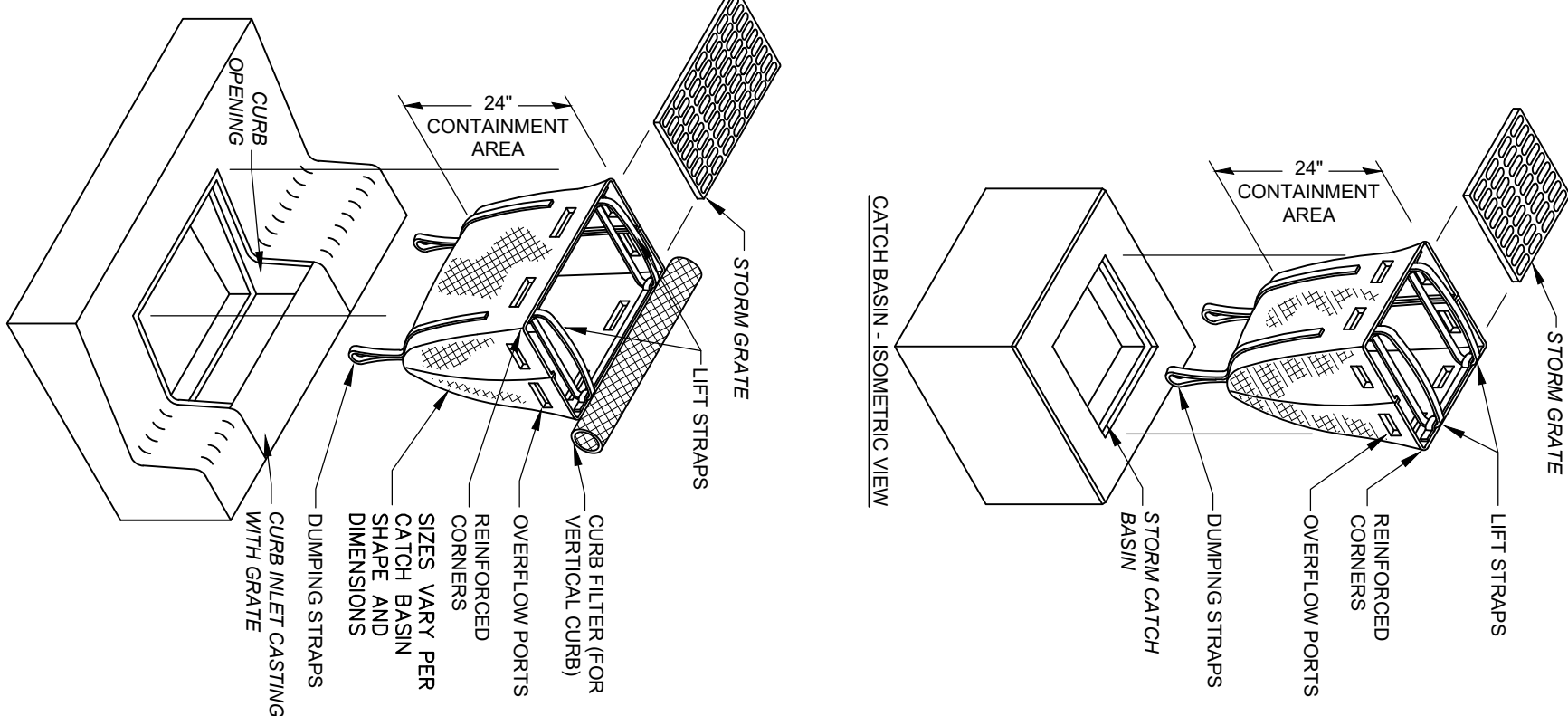
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			ISSUE DATE:	MAY 2024
			SCALE:	AS SHOWN
			DESIGNED BY:	JCOR
			DRAWN BY:	JCOR
			CHECKED BY:	JSHU

NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'
-KENTON COUNTY-

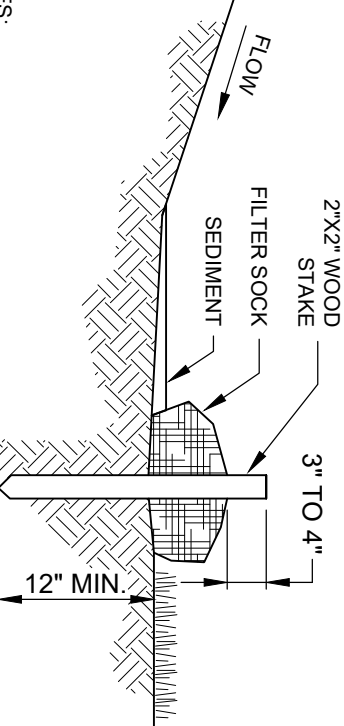
EROSION CONTROL DETAILS

MAX SLOPE LENGTH ABOVE FILTER SOCK	8'	12'	18'	24'
SLOPE RATIO (H:V)	0.50:1	1:2.5	25:0	30:0
				35:0
0% - 2%	50:1 - 10:1	100'	125'	200'
2% - 10%				250'
10% - 20%	10:1 - 5:1	75'	100'	150'
				200'

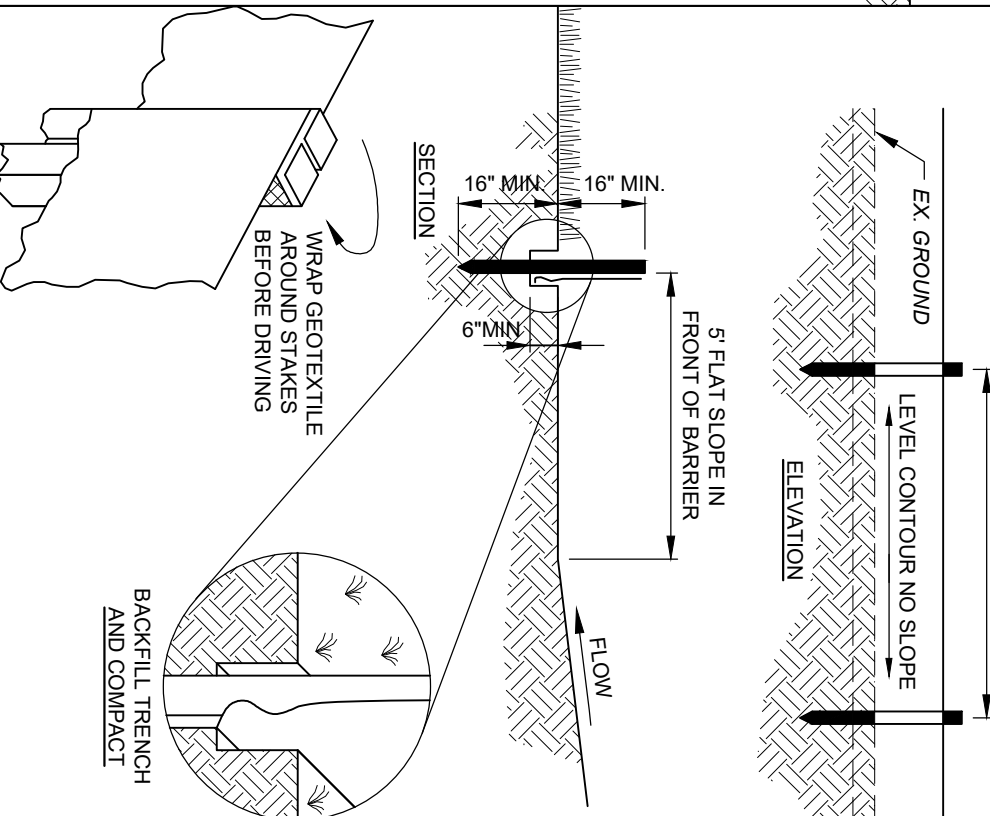
FILTER SOCK DETAIL
SCALE: NONE



STORM DRAIN INLET PROTECTION DETAIL
SCALE: NONE

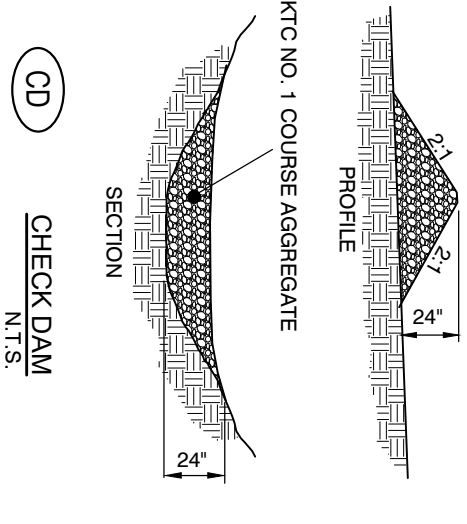


- NOTES:
- FILTER SOCKS SHALL BE 3.0X 5.0M CONTINUOUS, TUBULAR, COMPOST, KNITTED MESH NETTING MATERIAL, FILLED WITH COARSE AGGREGATE.
 - OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOSK TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED RANGING FROM .38" TO .2".
 - FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE.
 - FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT.
 - BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/12 THE FILTER SOCK HEIGHT.
 - DISPERSED DRAINAGE SHALL BE REMOVED WHEN IT HAS REACHED 1/12 THE FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE.



FABRIC PROPERTIES	VALUES	TEST METHOD
GRAIN TENSILE STRENGTH	90 LB. MIN	ASTM D-1682
MILLEN BURST STRENGTH	190 PSI MIN	ASTM D-5788
SLURRY FLOW RATE	0.3 GAL./MIN./S.F. MAX.	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE C40/215
ULTRAVIOLET RADIATION STABILITY	90% MIN	ASTM-G-26

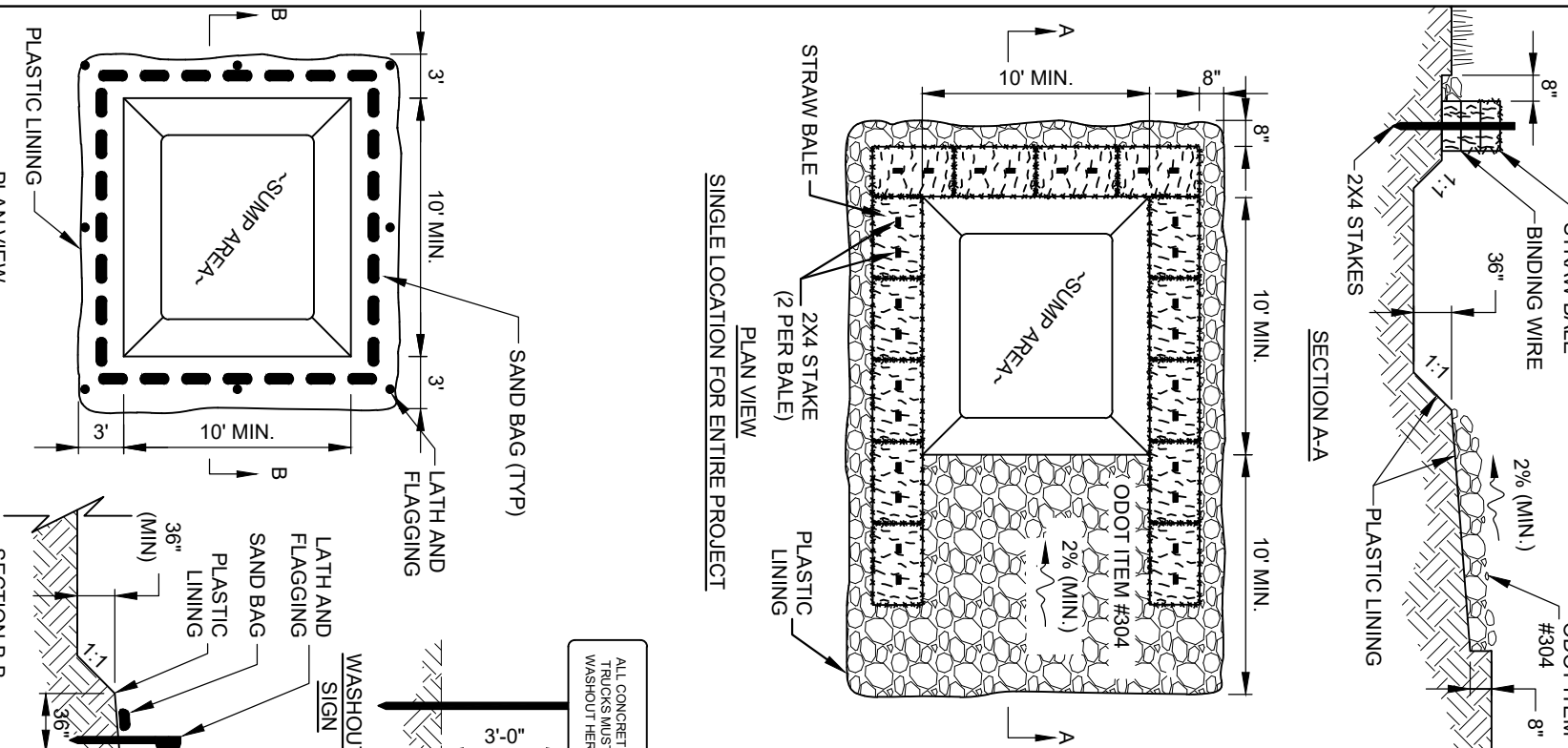
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SCALE: NONE



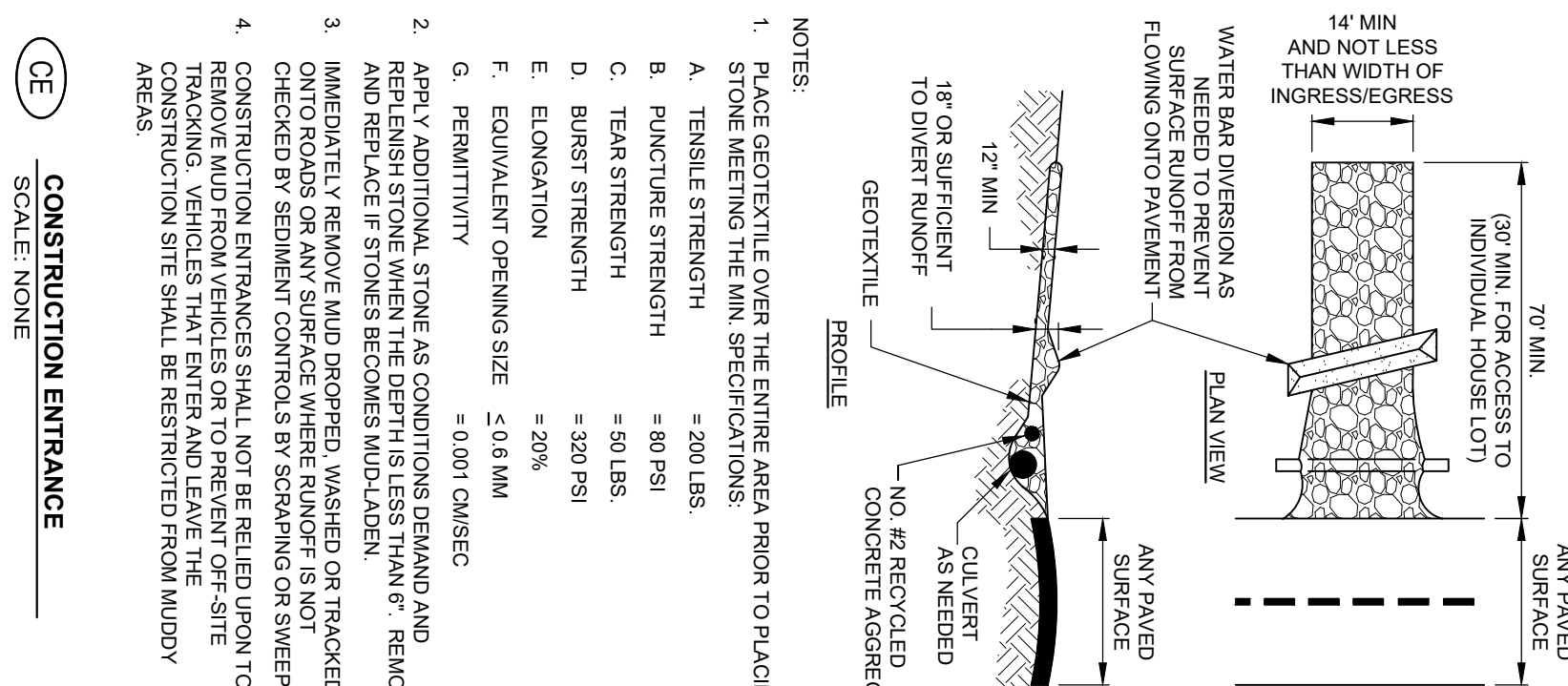
CHECK DAM
SCALE: NONE

DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 TO AUGUST 15	GRASS PERENNIAL REGGRASS TALL FESCUE	3 1 40	129 40 40
AUGUST 16 TO NOVEMBER 1	RYE FESCUE PERENNIAL REGGRASS TALL FESCUE	3 1 40	112 40 40
NOVEMBER 1 TO MARCH 1	RYE FESCUE PERENNIAL REGGRASS TALL FESCUE	3 1 40	112 40 40

CONCRETE WASHOUT DETAIL
SCALE: NONE



CONCRETE WASHOUT DETAIL
SCALE: NONE



CONSTRUCTION ENTRANCE
SCALE: NONE

DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 TO AUGUST 15	GRASS PERENNIAL REGGRASS TALL FESCUE	3 1 40	129 40 40
AUGUST 16 TO NOVEMBER 1	RYE FESCUE PERENNIAL REGGRASS TALL FESCUE	3 1 40	112 40 40
NOVEMBER 1 TO MARCH 1	RYE FESCUE PERENNIAL REGGRASS TALL FESCUE	3 1 40	112 40 40

TEMPORARY SEEDING DETAIL
SCALE: NONE

SEED MIX	SEED RATE LB/AC.	NOTES:
GENERAL USE		
OVERSEED RED FESCUE DO NOT SEED LATER THAN KENTUCKY BLUEGRASS	20 - 40 20 - 40	FOR CLOSE MOWING AND OR AS NEEDED FT./SEC. VISC. COEFF. 1.5-2.0
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
STEPPED BANKS OR CUT SLOPES		
TALL FESCUE	40 - 50	
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20 - 30	
ROAD DITCHES AND SHOULDS		
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
KENTUCKY BLUEGRASS	5	
KENTUCKY BLUEGRASS	100 - 120	
PERENNIAL REGGRASS	100 - 120	
KENTUCKY BLUEGRASS	100 - 120	FOR SHADED AREAS
OVERSEED RED FESCUE	100 - 120	

PERMANENT SEEDING DETAIL
SCALE: NONE

- NOTES:
- SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
 - THE SITE SHALL BE GRADED TO PERMIT THE USE OF SEEDING.
 - TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.
 - THE SEEDBED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIME OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. LIME OR FERTILIZER SHALL BE APPLIED TO A DEPTH OF 3" TO 4" AND WORKED INTO THE SOIL TO A DEPTH OF 3".
 - APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED.
 - SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THIS PERIOD, A MINIMUM OF 80% GERMINATION BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND.
 - SEEDING SHOULD BE APPLIED FROM OCTOBER 1 TO NOVEMBER 30. SEEDS MAY GERMINATE BUT WILL NOT SURVIVE THE WINTER. USE THE FOLLOWING METHODS FOR DOMINANT SEEDING:
 - FROM OCTOBER 1 TO NOVEMBER 20, INCREASE THE SEEDING RATE BY 50%.
 - FROM NOVEMBER 20 TO MARCH 15, ONLY IF SOIL TEMPERATURE IS 40°F OR HIGHER, APPLY FERTILIZER BY 50% PREPARE THE SEED BED, ADD LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR.
 - APPLY MULCH MATERIAL IMMEDIATELY AFTER SEEDING.
 - PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED AVOID EXCESSIVE FROM RUNOFF.
 - PERMANENT SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. DURING THIS PERIOD, INSPECT FOR SOIL EROSION OR PLANT LOSS AND REPAIR BARE OR SPARSE AREAS AS NEEDED. A MINIMUM OF 70% GROWTH DENSITY BASED ON A VISUAL INSPECTION, MUST EXIST FOR AN ADEQUATE PERMANENT VEGETATIVE PLANTING.

PERMANENT SEEDING FERTILIZATION AND MOWING CHART	LB/AC.	TIME	MOW
MIXTURE	FORMULA		
OVERSEED RED FESCUE DO NOT SEED LATER THAN KENTUCKY BLUEGRASS	10-10-10	500	FALL YEARLY OR AS NEEDED
TALL FESCUE	10-10-10	500	2x
TURF-TYPE FESCUE	10-10-10	500	SPRING AND FALL YEARLY AFTER MOW
CROWN VETCH FESCUE	0-20-20	400	ESTABLISHED
FLAT FEA FESCUE	0-20-20	400	ESTABLISHED

PERMANENT SEEDING SPECIES SELECTION	SEED RATE LB/AC.	NOTES:
GENERAL USE		
OVERSEED RED FESCUE DO NOT SEED LATER THAN KENTUCKY BLUEGRASS	20 - 40 20 - 40	FOR CLOSE MOWING AND OR AS NEEDED FT./SEC. VISC. COEFF. 1.5-2.0
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
STEPPED BANKS OR CUT SLOPES		
TALL FESCUE	40 - 50	
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20 - 30	
ROAD DITCHES AND SHOULDS		
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
KENTUCKY BLUEGRASS	5	
KENTUCKY BLUEGRASS	100 - 120	
PERENNIAL REGGRASS	100 - 120	
KENTUCKY BLUEGRASS	100 - 120	FOR SHADED AREAS
OVERSEED RED FESCUE	100 - 120	

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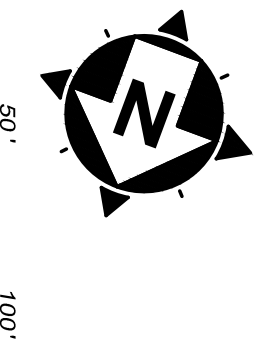
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0'
50'
100'
SCALE: 1" = 50'

CONSTRUCTION NOTES

- 1) MAINTAIN MANAGEABLE VERTICAL CLEARANCE BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING STORM SEWER, WATER MAIN, TELEPHONE AND CABLE LINES. MAINTAIN MINIMUM 18" BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING SANITARY SEWER. ACTUAL ELEVATION UNKNOWN. CONTRACTOR TO EXCAVATE & VERIFY ACTUAL LOCATION, SIZE AND ELEVATION OF EXISTING UTILITY PRIOR TO BEGINNING WATER MAIN CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO ANY POTENTIAL CONFLICT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS ITEM AND THE COST SHALL BE INCLUDED IN THE BID ITEM FOR WATER MAIN.
- 2) PROPOSED FIRE HYDRANT ASSEMBLY, VALVE AND ANCHOR VALVE TO TEE. COORDINATE LOCATION WITH N.K.W.D. INSPECTOR.
- 3) CONNECT TO EXISTING WATER MAIN (ACTUAL ELEVATION UNKNOWN). CONTRACTOR TO VERIFY DEPTH PRIOR TO CONSTRUCTION.
- 4) CHANNEL LINING, CLASS II (12") W/ NON-WOVEN GEOTEXTILE FILTER FABRIC
- 5) CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITY PRIOR TO EXCAVATION ACTIVITY AND NOTIFY ENGINEER AND N.K.W.D. OF CONFLICTS.
- 6) DO NOT DISTURB
- 7) CONTRACTOR TO SUPPORT UTILITY POLE DURING PIPE INSTALLATION
- 8) REMOVE AND REPLACE SIGN
- 9) REMOVE AND REPLACE MAILBOX
- 10) NOT USED
- 11) REMOVE AND REPLACE EXISTING STORM STRUCTURE (CB.HW) AS NEEDED FOR WATER MAIN INSTALLATION
- 12) DRIVEWAY RESTORATION (SEE DETAILS)
- 13) CONSTRUCT CLAY BULKHEAD IN TRENCH WITH UNDERDRAIN, DAYLIGHT UNDERDRAIN TO DITCH OR DRAINAGE STRUCTURE

HATCH LEGEND

- 1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA
- TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET
- TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET
- TRENCH RESTORATION - 8" AGGREGATE PAVEMENT
- CONTROL DENSITY FILL - PAVT TRENCH
- CONCRETE DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- CONCRETE WALK REPLACEMENT - SEE DETAIL SHEET
- ASPHALT DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- GRAVEL DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- CHANNEL LINING, CLASS II - SEE DETAIL SHEET

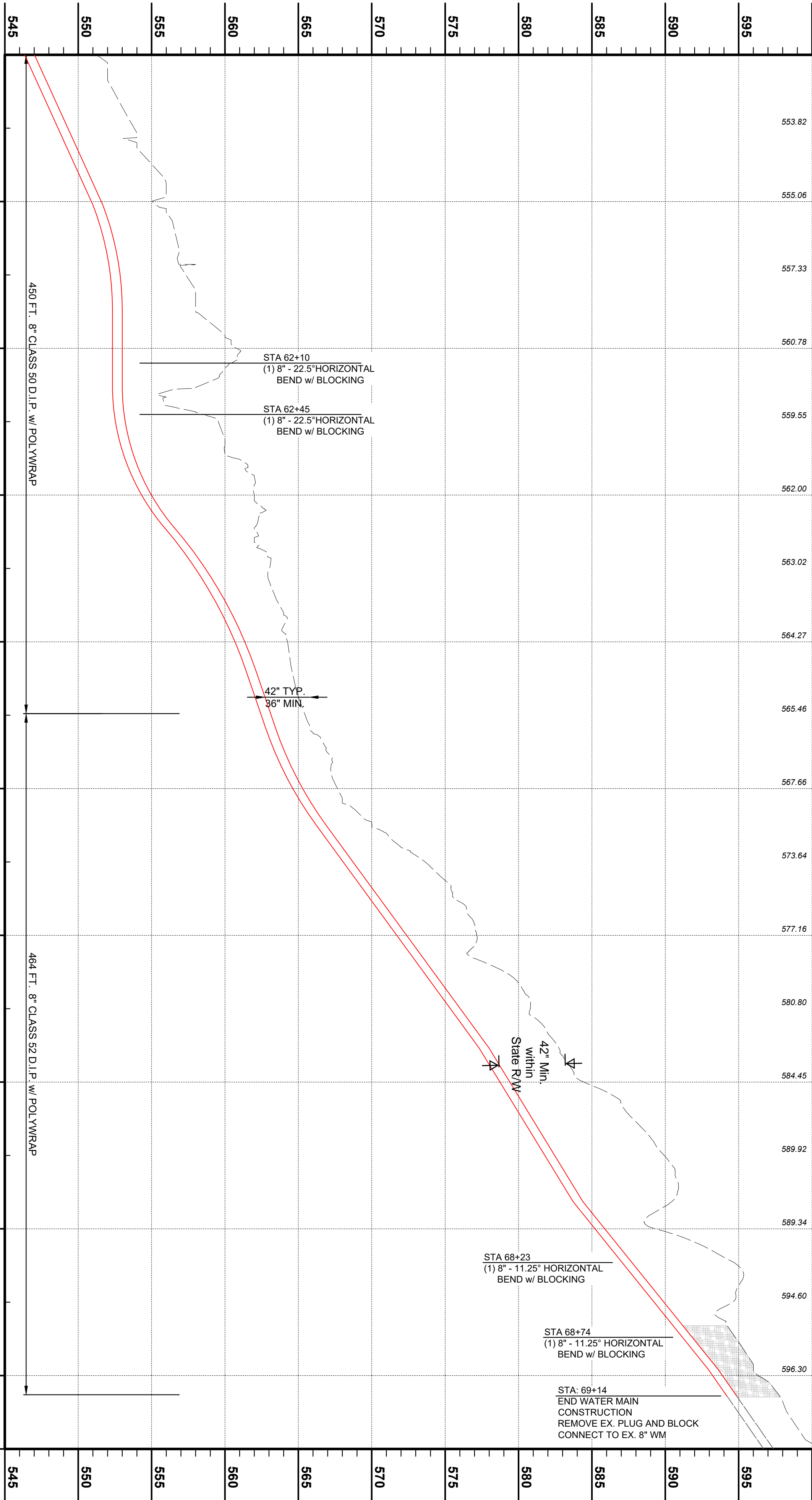
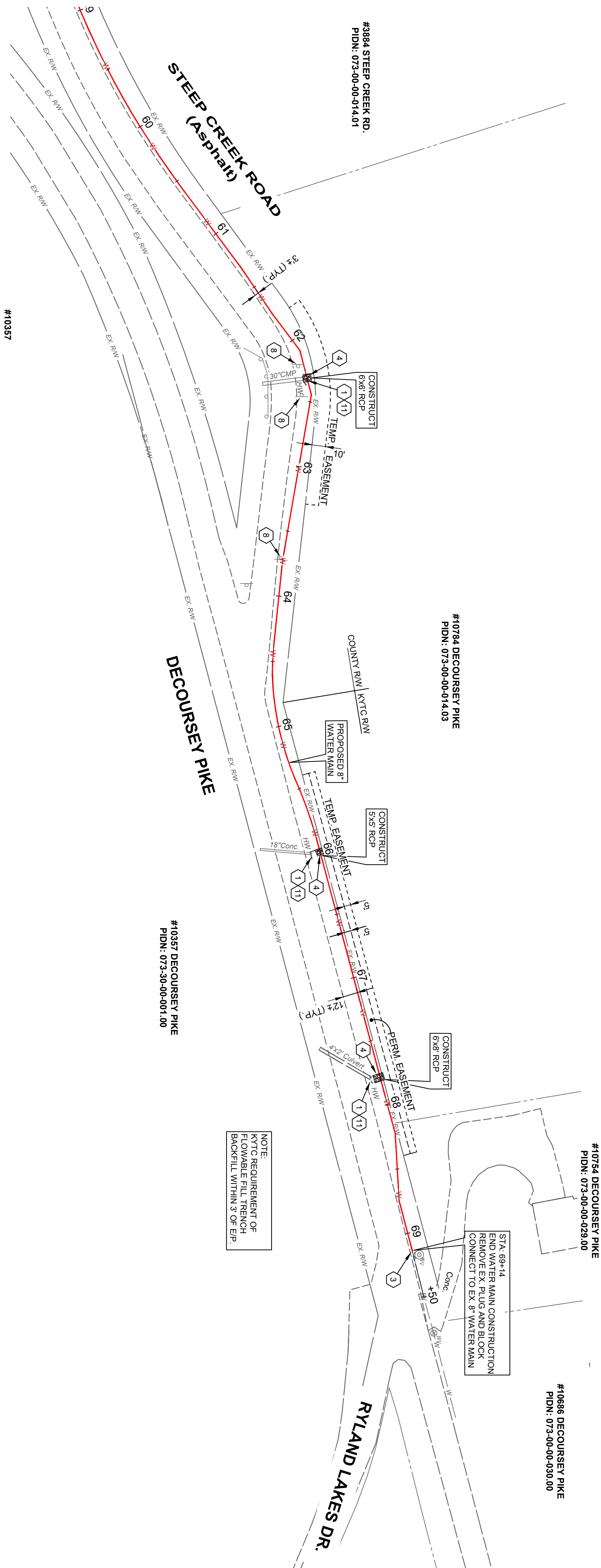
90%
REVIEW



NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'
-KENTON COUNTY -
STEEP CREEK ROAD /
DECOURSEY PIKE
STA. 60+00 TO STA. 68+80

DATE	REVISION	NO	FINAL	ISSUED FOR:
			JUNE 2024	ISSUE DATE:
			AS SHOWN	SCALE:
			JCOR	DESIGNED BY:
			JCOR	DRAWN BY:
			JSHU	CHECKED BY:

PROJECT NO. 231591	SHEET NAME C-17	SHEET NO. 23	OF 49
PROPOSED CIVIL			





**KYTC Division of Maintenance
Permits Branch
District 6**



ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

YOU MUST NOTIFY KYTC BEFORE BEGINNING ANY WORK IN THE RIGHT-OF-WAY. *Failure to alert KYTC of working within the right of way may result in permit revocation.*

Two ways to notify KYTC of your construction start date:

By Email: KYTCD6PERMITS@KY.GOV

**must include permit number and county in subject line*

By Phone: 859-341-2700

**must know permit number and county when calling*

YOU MUST ALSO NOTIFY KYTC UPON COMPLETION OF WORK WITHIN RIGHT-OF-WAY. *Failure to alert KYTC of completion of work may result in withholding release of any associated bonds.*



APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-008-1-1

I. SAFETY**A. General Provisions**

- All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, latest edition, Part VI, and safety requirements shall comply with the Permits Manual. Federal law requires that traffic control shall be implemented in accordance with MUTCD standards and KYTC's Standard Specifications for Road and Bridge Construction (KYTC SSRBC) under the supervision of a certified Work Zone Traffic Control Supervisor.
- All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly completed so that hazards adjacent to the traveled way are kept to an absolute minimum.
- No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All signs and flaggers during lane closure shall conform to the MUTCD. The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility. No non-construction equipment or vehicles or office trailers shall be allowed on the right of way during working hours. The right of way shall be left free and clear of equipment, material, and vehicles during non-working hours.
- When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, snow, fog, etc.) without specific permission from the Department.
- Working hours shall be between _____ and _____. Further date and time restrictions are as follows:

B. Explosives

- No explosive devices or explosive material shall be used within state right of way without proper license and approval of the Kentucky Department of Mines and Minerals, Explosive Division.

C. OSHA

- Kentucky Occupational Safety and Health Standards for the construction industry, which has the effect of law, states in part: (Page 52, 1926.651, Specific Excavation Requirements) "Prior to opening an excavation, effort shall be made to determine whether underground installations, (sewer, telephone, water, fuel, electric lines, etc.) will be encountered, and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation."

D. Archaeological

- Whenever materials of an archaeological nature are discovered during the course of construction work or maintenance operations, contact shall be made immediately with the Division of Environmental Analysis, which maintains an archaeologist on staff, or with the Office of the State Archaeologist located at the University of Kentucky. Following this consultation, further action shall be decided on a case-by-case basis by the State Highway Engineer or the Transportation Planning Engineer or their designated representative.

E. Environmental

- If the activity to which this permit related disturbs one acre or more of land, you must obtain KPDES KYR10 permit. Information can be found at <http://water.ky.gov/permitting/Pages/GeneralPermits.aspx>

F. Additional Notes

- The following additional notes apply to this permit:

APPROVED
AUGUST 27, 2021
KENTUCKY TRANSPORTATION CABINET
06-2021-008-1-1

II. UTILITIES

- The permittee shall be responsible for any damage to existing utilities. Any utility modifications or relocations within state right of way necessary, as determined by the Department or by the owner of the utility, shall be at the expense of the permittee and subject to the approval of the Department. Operators of underground utilities in right of way shall be members of Kentucky 811.
- All existing manholes and valve boxes shall be adjusted to be flush with finished grade.
- All pavement cuts shall be restored per Kentucky Transportation Cabinet standards and specifications.
- Any excavation within 3' of edge of pavement will require flowable fill as backfill.
- The clear zone requirement shall be met to the extent possible in accordance with the Roadside Design Guide.
- Encasement pipe shall conform to current standards for highway crossings in accordance with the Permits Manual. Pipe encasing shall not be required if the pipe crossing is 2" or less.
- Aerial crossing of utility lines shall have a minimum clearance from the high point of the roadway to the low point of the line of 24' on fully controlled access highways and 18' on non-fully controlled access highways
- Minimum depth for underground Gas and Electric lines is 60" under roadways, ramps, and ditch lines and 42" in all other areas within state right of way. The minimum depth for all other utilities is 42" in all areas.
- When steel plates are installed over an open excavation in the roadway, they must be anchored to the pavement and have asphalt applied to all exposed edges and an MUTCD approved sign noting "Road Plates Ahead." KYTC must be notified of the location, date, time, and permit number associated to BOTH the installation and removal of the plate. Failure to do so may result in permit revocation.
- Utility poles moved for replacement must be removed in their entirety and the hole left behind must be backfilled.
- No poles or anchors shall be installed in a roadside ditch.
- **Utility notes specific to fully-controlled access highways ONLY:**
All work necessary within the right-of-way shall be performed behind a temporary fence erected prior to the start of work. The temporary woven wire fence shall be removed immediately upon completion of work on the right-of-way, and the control of access immediately restored to original condition, in accordance with applicable KYTC SSRBC. All vents, valves, manholes, etc., shall be located outside of the right-of-way. Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints. The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep. Work in interstate right-of-way requires approval from FHWA (Federal Highway Administration).
- Additional notes:

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-008-1-1

III. DRAINAGE

- Negative impacts to existing drainage will be the applicant's responsibility to repair in accordance with KYTC SSRBC.
- All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of installation including bedding and joint seating. Pipe shall not be covered until inspected by the Department and express permission obtained to make backfill. It is the applicant's responsibility to request inspection.
- All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with curbs or in entrance areas or other paved areas within the right-of-way shall not be acceptable.
- All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall conform to the Department specifications and shall be constructed in accordance with the KYTC's Standard Drawings.
- Additional notes:

IV. PAVING

- No bituminous pavement shall be installed within the right of way between November 15 and April 1, nor when the temperature is below 40 degrees Fahrenheit, without the express consent of the Department. No bituminous pavement shall be installed when the underlying course is wet.
- Paving within the right of way shall be as follows:
 - Base (Type): _____, (Thickness) _____
 - Surface Base (Type) _____, (Thickness) _____
 - Finished Surface (Type) _____, (Thickness) _____
- All materials and methods of construction, including base and subgrade preparation, shall be in accordance with KYTC's Standard Specifications. At least 24 hours notice to the Department is required prior to beginning paving operations.
Phone: _____ Name: _____
- Utility companies performing road cuts must restore the pavement to pre-existing condition. Pictures/videos are recommended to ensure proper placement of signs and lane markers that are temporarily removed for paving operations. In some cases, a pre-work inventory may be requested from the Department.
- Existing pavement and shoulder material shall be removed to accommodate the above paving specifications.
- The finished surface of all new pavement within the right of way shall be true to the required slope and grade, uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent highway pavement or as determined by KYTC.
- To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highway pavement and shall slope away from the existing edge of the pavement as specified in drawings.
- Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement, and an edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Department of Highways Standard Specifications (latest edition), shall be applied between new and existing pavements.
- Additional notes:

APPROVED
August 15, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-0001-1

V. ENTRANCES

- Encroachment permits issued by KYTC in no way supersede local planning/zoning requirements or subdivision regulations. KYTC has no authority with zoning changes.
- Commercial entrances must be paved to the right-of-way line. Any deviations must be approved by KYTC before installation.
- KYTC can dictate drainage improvement installation during construction or after entrance is at final grade. The permit release does not release the permit applicant from drainage maintenance.
- Signs (ground-mounted and span-mounted), stop bars, crosswalk, and proper lane markings must be in-place before entrance is open for traffic. Lane width modifications must be approved by the Department.
- Guardrail installation must be pre-approved by the Department and installed by a KYTC pre-qualified contractor. Any guardrail that is removed during construction must be returned to the local KYTC maintenance facility.
- Additional notes:

VI. TRAFFIC

- Any contractor performing work within the vicinity of KYTC roadway lighting or traffic signals, must request locates from the KYTC District 6 Traffic section at least one week before of starting work in the right-of-way.
- Applicant must maintain all KYTC Roadway signage that is impacted by the permitted work. In the event that any signs have to be moved, it is the applicant's responsibility to mark the sign's location before removal and to install the original or new sign per KYTC standards for sign installation.
- Any thermoplastic or striping damaged during the encroachment must be restored in a timely manner per KYTC standards. Stopbars, arrows, and crosswalks must be thermoplastic material, paint is not acceptable. This work must be performed by a KYTC pre-qualified contractor.
- Excavating near a signal, lighting pole, or anchoring facility must be done so that it does not impact the structural integrity of the pole. Any work that requires a temporary support or anchoring must receive prior approval.
- If the scope of the permit involves a signal build or rebuild, it is the applicant's responsibility to apply for power service (and pay monthly electrical bill) as well as request electrical inspection from the KYTC District 6 Traffic section. If the signal modifications require timing or phasing changes this must be requested at least two weeks in advance of the signal's turn-on date. KYTC will not take ownership of permitted signals until the electrical inspection is formally accepted and approved.
- Work which impacts traffic loops requires 48-hour notice to the KYTC District 6 Traffic section at 859-341-2700. Accidental damage of a traffic loop must be reported immediately to KYTC District 6's emergency line at 859-620-2738. Any disturbed traffic loops must be replaced in a timely manner. Traffic loops out of operation for more than five working days will subject the applicant to the cancellation of the permit. Loop repair must be performed by a KYTC pre-qualified contractor.
- Additional Notes:

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-0008-1A

VII. SIDEWALK SPECIFICATIONS

- All sidewalk modifications, retrofitting, or installations must meet current ADA guidelines
- A. New Sidewalks**
 - New sidewalk specifications, dimensions, and designs shall be in accordance with KYTC's latest edition of the Standard Specifications, or with the plans provided on the permit if approved by a KYTC D6 Construction or Permits Engineer.
 - All materials and methods of construction, including curing, shall be in accordance with KYTC's latest edition of the Standard Specifications.
- B. Existing Sidewalks**
 - Use of the sidewalk shall not be blocked or obstructed and a usable walkway shall be maintained across the construction area at all times per MUTCD . Sidewalk closures must be approved by the Department before implementation.
 - The location of ADA ramps (truncated domes/tactile warnings/etc.) will need to be field verified by KYTC before installation.
 - Any section of sidewalk that becomes damaged shall be entirely replaced to match existing sections.
 - Additional notes:

VIII. RIGHT OF WAY RESTORATION

- All disturbed portions of the right of way shall be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition). A satisfactory turf, as determined by the Department, shall be established by the permittee prior to release of indemnity. Sodding or seeding shall be as follows:
 - Slopes 3:1 or Less: 90% Kentucky 31 Tall Fescue and 10% White Dutch Clover at 100 lbs/acre
 - Slopes Greater than 3:1: 90% Kentucky 31 Tall Fescue and 10% Partridge Pea at 100 lbs/acre
 - Urban or Residential Areas: 95% Turf Type Fall Fescue Blend and 5% White Dutch Clover at 275 lbs/acre
- Two tons of clean straw mulch per acre of seeding.
- Prior to seeding, the ground shall be prepared in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).
- Substitutes for sod such as artificial turf, rocked mulch, or paved areas may be acceptable if they are aesthetically pleasing and receive prior approval from KYTC.
- All ditch-flow lines and all ditch-side slopes shall be sodded.
- Existing concrete right of way markers shall not be disturbed. If damaged in any way, they shall be entirely replaced by the permittee with new concrete markers to match the original markers, in accordance with Kentucky Department of Highways Standard Drawings. Markers that are entirely removed shall be re-established in the proper locations by the permittee and to the satisfaction of the Department.
- Additional notes:

APPROVED
AUGUST 27, 2023
KENTUCKY TRANSPORTATION CABINET
06-2024-008-14

IX. RIGHT OF WAY FENCE RESTORATION

- The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to protect against encroachment.
- The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-way line
- The fence materials and design shall meet accepted industry standards and be treated as paintable. Durable finish materials such as vinyl are acceptable.
- The permittee shall be required to construct and maintain the replacement fencing to an acceptable level of functionality and state of repair. All work on the fencing shall be performed by access from the private property. Access from the roadway is not allowed.
- The existing fence shall be removed by permittee and stored at the Department's maintenance storage yard for future reuse by the Department, or the Department shall be reimbursed the cost of fencing removed.
- Right of way monuments shall be installed regardless of if replacement fence is installed or not.
- The control of access shall not be diminished as a result of replacement of the fence.
- Additional notes:

X. MISCELLANEOUS NOTES

NOTICE TO PERMITTEE

THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE CURRENT KYTC STANDARD SPECIFICATIONS AND THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF HIGHWAYS SHALL BE REMOVED BY THE PERMITTEE AT NO EXPENSE TO THE DEPARTMENT OF HIGHWAYS AND SHALL BE REDONE BY THE PERMITTEE TO CONFORM WITH THE APPROVED PLANS.

APPROVED
2023-01-01
Kentucky Department of Transportation Cabinet

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

PERMITTEE

Name: Northern Kentucky Water District
Contact Person: Steve Broering
Address: 2835 Crescent Springs Road
City: Ft. Wright
State: Kentucky
Zip: 41017
Telephone: (859) 991-1652

PROJECT IDENTIFICATION

Permit Number: 06-2024-00840

I wish to notify the Department of Highways that the above mentioned permit work and any necessary right-of-way restoration have been completed and are ready for final inspection.

Permittee

Please return this form to the address below when work is completed and ready for final inspection.

Please Return to: Permit Engineer
Department of Highways, District 6 Office
421 Buttermilk Pike
Covington, Kentucky 41017
(859) 341-2700
www.transportation.ky.gov/

LOCATION(S)			
Description	County - Route	Latitude	Longitude
PROPOSED 8" WATER MAIN INSTALLATION ALONG ELLIOTT ROAD THAT TIES INTO EXISTING 16" WM ON MADISON PIKE	Kenton - KY 17	38.808592	-84.497293

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00840



Andy Beshear
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Department of Highways, District 6 Office
421 Buttermilk Pike
Covington, Kentucky 41017
(859) 341-2700
www.transportation.ky.gov/

Jim Gray
Secretary

August 27, 2024

Northern Kentucky Water District
Steve Broering
2835 Crescent Springs Road
Ft. Wright, Kentucky 41017

Subject: Permit #: 06-2024-00840
Permit Type: Utilities - Water
Approval

Dear Applicant:

Attached is your permit approval and documentation for the subject permit.

Be advised that all work must be done in conformity with permit and application conditions. If you have any questions, please contact the Permits Section at this office.

Sincerely,

A handwritten signature in black ink that reads "Linzy Brefeld".

Linzy Brefeld
D6 Permits Supervisor

Attachments



An Equal Opportunity Employer M/F/D

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00840



Kentucky Transportation Cabinet
Department of Highways
Division of Maintenance
Permits Branch

TC 99-1 (B)
07/2018
Page 1 of 1

ENCROACHMENT PERMIT

KYTC KEPT #: 06-2024-00840

Permittee: Northern Kentucky Water District

Permit Type / Subtype: Utilities / Water

Work Completion Date: 8/26/2025

INDEMNITIES		
Type	Amount Required	Tracking Number
Performance Bond	\$0.00	
Cash / Check	\$0.00	
Self-Insured	\$0.00	
Payment Bond	\$0.00	
Liability Insurance	\$0.00	

This permit has been: **APPROVED** ☒ **DENIED** ☐

Linzy Brefeld	D6 Permits Supervisor	8/26/2024
SIGNATURE	TITLE	DATE

The TC 99-1(B), including the application TC-99 1(A) and all related and accompanying documents and drawings make up the permit. It is not a permit unless both the TC 99-1(A) and TC 99-1(B) are both present.

LOCATION(S)			
Description	County - Route	Latitude	Longitude
PROPOSED 8" WATER MAIN INSTALLATION ALONG ELLIOTT ROAD THAT TIES INTO EXISTING 16" WM ON MADISON PIKE	Kenton - KY 17	38.808592	-84.497293



Know what's below. Call before you dig

To Submit a Locate Request
24 Hours a Day, Seven Days a Week:
Call 811 or 800-752-6007

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00840

APPLICATION FOR ENCROACHMENT PERMIT

KYTC KEPT #: 06-2024-00840

SECTION 1: APPLICANT CONTACT INFORMATION

APPLICANT NORTHERN KY WATER DISTRICT		ADDRESS 2835 CRESCENT SPRINGS PIKE	
EMAIL sbroering@nkywater.org	CITY ERLANGER	STATE KY	ZIP 41018
CONTACT NAME 1 Steve Broering	EMAIL sbroering@nkywater.org	PHONE # 859-426-2728	
		CELL #	
CONTACT NAME 2 (if applicable)	EMAIL	PHONE #	
		CELL #	

SECTION 2: PROPOSED WORK LOCATION

ADDRESS	CITY DEMOSSVILLE	STATE Kentucky	ZIP 41033
COUNTY KENTON	ROUTE # 17	MILE POINT 1.1	LONGITUDE (X) 84D28'30"W
LATITUDE (Y) 38D49'08"N			

ADDITIONAL LOCATION INFORMATION:
MADISON PIKE (KY 17) AT ELLIOTT ROAD

FOR KYTC USE ONLY

PERMIT TYPE: ☐ Air Right ☐ Entrance ☒ Utilities ☐ Vegetation Removal ☐ Other: _____

ACCESS: ☐ Full ☐ Partial ☒ by Permit **LOCATION:** ☐ Left ☐ Right ☐ Crossing

SECTION 3: GENERAL DESCRIPTION OF WORK

PROPOSED 8" WATER MAIN INSTALLATION ALONG ELLIOTT ROAD THAT TIES INTO EXISTING 16" WM ON MADISON PIKE

THE UNDERSIGNED APPLICANT(s), being duly authorized representative(s) or owner(s), DO AGREE TO ALL ORIGINAL UNEDITED TERMS AND CONDITIONS ON THE TC 99-1A, pages 1-4.

Steve Broering
SIGNATURE

7-15-2024

DATE

This is not a permit unless and until the applicant(s) receives an approved TC 99-1B from KYTC. This application shall become void if not approved by the cancellation date. The cancellation date shall be a minimum of one year from the date the applicant submits their application.

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00840

APPLICATION FOR ENCROACHMENT PERMIT

TERMS AND CONDITIONS

1. The permit, including this application and all related and accompanying documents and drawings making up the permit, remains in effect and is binding upon the Applicant/Permittee, its successors and assigns, as long as the encroachment(s) exists and also until the permittee is finally relieved by the Department of Highways from all its obligations.
2. Applicant shall meet all requirements of the Clean Water Act if the project will disturb one acre or more, the applicant shall obtain a KPDES KYR10 Permit from the Kentucky Division of Water. All disturbed areas shall meet the requirements of the Department of Highway's Standard Specifications, Sections 212 and 213, as amended.
3. **INDEMNITY:**
 - A. **PERFORMANCE BOND:** The permittee shall provide to the Department a performance bond according to the Permits Manual, Section PE-203 as a guarantee of conformance with the Department's Encroachment Permit requirements.
 - B. **PAYMENT BOND:** At the discretion of the department, a payment bond shall be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
 - C. **LIABILITY INSURANCE:** Liability insurance shall be required of the permittee (in an amount approved by the department) to cover all liabilities associated with the encroachment.
 - D. It shall be the responsibility of the permittee, its successors and assigns, to maintain all indemnities in full force and effect until the permittee is authorized to release the indemnity by the Department.
4. A copy of this application and all related documents making up the approved permit shall be given to the applicant and shall be made readily available for review at the work site at all times.
5. Perpetual maintenance of the encroachment is the responsibility of the permittee, its successors and assigns, with the approval of the Department as required, unless otherwise stated.
6. Permittee, its successors and assigns, shall comply with and agree to be bound by the requirements and terms of (a) this application and all related documents making up the approved permit, (b) by the Department's Permits Manual, and (c) by the Manual on Uniform Traffic Control Devices, both manuals as revised to and in effect on the date of issuance of the permit, all of which documents are made a part thereof by this reference. Compliance by the permittee, its successors and assigns, with subsequent revisions to applicable provisions of either manual or other policy of the Department may be made a condition of allowing the encroachment to persist under the permit.
7. Permittee agrees that this and any encroachment may be ordered removed by the Department at any time, and for any reason, upon thirty days written notice to the last known address of the applicant or to the address at the location of the encroachment. The permittee agrees that the cost of removing and of restoring the associated right-of-way is the responsibility of the permittee, its successors and assigns.
8. Permittee, its successors and assigns, agree that if the Department determines that motor vehicular safety deficiencies develop as a result of the installation or use of the encroachment, the permittee, its successors and assigns, shall provide and bear the expenses to adjust, relocate, or reconstruct the facilities, add signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department within a reasonable time after receipt of a written notice of such deficiency. The period within which such adjustments, relocations, additions, modifications, or other corrective measures must be completed will be specified in the notice.
9. Where traffic signals are required as a condition of granting the requested permit or are thereafter required to correct motor vehicular safety deficiencies, as determined by the Department, the costs for signal equipment and installation(s) shall be borne by the permittee, its successors and assigns and the Department in its reasonable discretion and only in accordance with the Department's current policy set forth in the Traffic Operations Manual and Permits Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property) shall be the responsibility of the permittee, its successors and assigns, at no expense to the Department.

APPLICATION FOR ENCROACHMENT PERMIT

10. The requested encroachment shall not infringe on the frontage rights of an abutting owner without their written consent as hereinafter described. Each abutting owner shall express their consent, which shall be binding on their successors and assigns, by the submission of a notarized statement as follows, "I (we), _____, hereby consent to the granting of the permit requested by the applicant along Route _____, which permit does affect frontage rights along my (our) adjacent real property." By signature(s) _____, subscribed and sworn by _____, on this date _____.
11. The permit, if approved, is subject to the agreement that it shall not interfere with any similar rights or permit(s) previously granted to any other party, except as otherwise provided by law.
12. Permittee shall include documentation which describes the facilities to be constructed. Permittee, its successors and assigns, agree as a condition of the granting of the permit to construct and maintain any and all permitted facilities or other encroachments in strict accordance with the submitted and approved permit documentation and the policies and procedures of the Department. Permittee, its successors and assigns, shall not use facilities authorized herein in any manner contrary to that prescribed by the approved permit. Only normal usage as contemplated by the parties and by this application and routine maintenance are authorized by the permit.
13. Permittee, its successors and assigns, at all times from the date permitted work is commenced until such time as all permitted facilities or other encroachments are removed from the right-of-way and the right-of-way restored, **shall defend, protect, indemnify and save harmless** the Department from any and all liability claims and demands arising out of the work, encroachment, maintenance, or other undertaking by the permittee, its successors and assigns, related or undertaken pursuant to the granted permit, due to any claimed act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party nor operate to enlarge any liability of the Department beyond that existing at common law or otherwise if this right to indemnity did not exist.
14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.
15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.
16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the expense of the permittee, except where the Department is required by law to pay any or all of those costs.

APPROVED
AUGUST 27, 2021
KENTUCKY TRANSPORTATION CABINET
06-2021-008-10

APPLICATION FOR ENCROACHMENT PERMIT

17. Permittee agrees that the authorized permit is personal to the permittee and shall remain in effect until such time as (a) the permittee's rights to the adjoining real property to have benefitted from the requested encroachment have been relinquished, (b) until all permit obligations have been assumed by appropriate successors and assigns, and (c) unless and until a written release from permit obligations has been granted by the Department. The permit and its requirements shall also bind the real property to have benefitted from the requested encroachment to the extent permitted by law. The permit and the related encroachment become the responsibility of the successors and assigns of the permittee and the successors and assigns of each property owner benefitting from the encroachment, or the encroachment may not otherwise permissibly continue to be maintained on the right-of-way. (Does not apply to utility encroachments serving the general public.)
18. If work authorized by the permit is within a highway construction project in the construction phase, it shall be the responsibility of the permittee to make personal contact with the Department's Engineer on the project in order to coordinate all permitted work with the Department's prime contractor on the project.
19. This permit is not intended to, nor shall it, affect, alter or alleviate any requirement imposed upon the permittee, its successors and assigns, by any other agency.
20. Permittee, its successors and assigns, agree to contain and maintain all dirt, mud, and other debris emanating from the encroachment away from the surrounding right-of-way and the travel way of the highway hereafter and at all times that its obligations under the permit remain in effect.
21. Before You Dig: The contractor is instructed to call 1-800-752-6007 to reach KY 811, the One-Call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that the owners of underground facilities are not required to be members of the KY 811 One-Call Before U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Clerk to determine what utility companies have facilities in the area.
22. The undersigned Utility acknowledges ownership and control of the facilities proposed to be installed, modified, or extended by the Applicant/Permittee and agrees to be bound by the requirements and terms of this application and all related documents making up the approved permit, by the Department's Permits Guidance Manual, and by all applicable regulations and statutes in effect on the date of issuance of the permit. This information and application is certified correct to the best knowledge and belief of the undersigned Utility.

NORTHERN KENTUCKY WATER DISTRICT

UTILITY

Steve Broering

NAME (Utility Representative)

Steve Broering

SIGNATURE (Utility Representative)

Engineering Technician

TITLE (Utility Representative)

7-15-2024

DATE



Know what's below. Call before you dig.

To Submit a Locate Request
24 Hours a Day, Seven Days a Week:
Call 811 or 800-752-6007

APPROVED
August 27, 2024
KENTUCKY TRANSPORTATION CABINET
06/20/2023 08:10

NORTHERN KENTUCKY WATER DISTRICT
SUB-DISTRICT 'O'
WATER MAIN EXTENSION
KENTON COUNTY, KENTUCKY
231591

NORTHERN KENTUCKY WATER DISTRICT OFFICIALS

PRESIDENT / CEO

LINDSEY RECHTIN, CPA

COMMISSIONERS

FRED A. MACKE, JR. (Chair)

JODY R. LANGE (Vice-Chair)

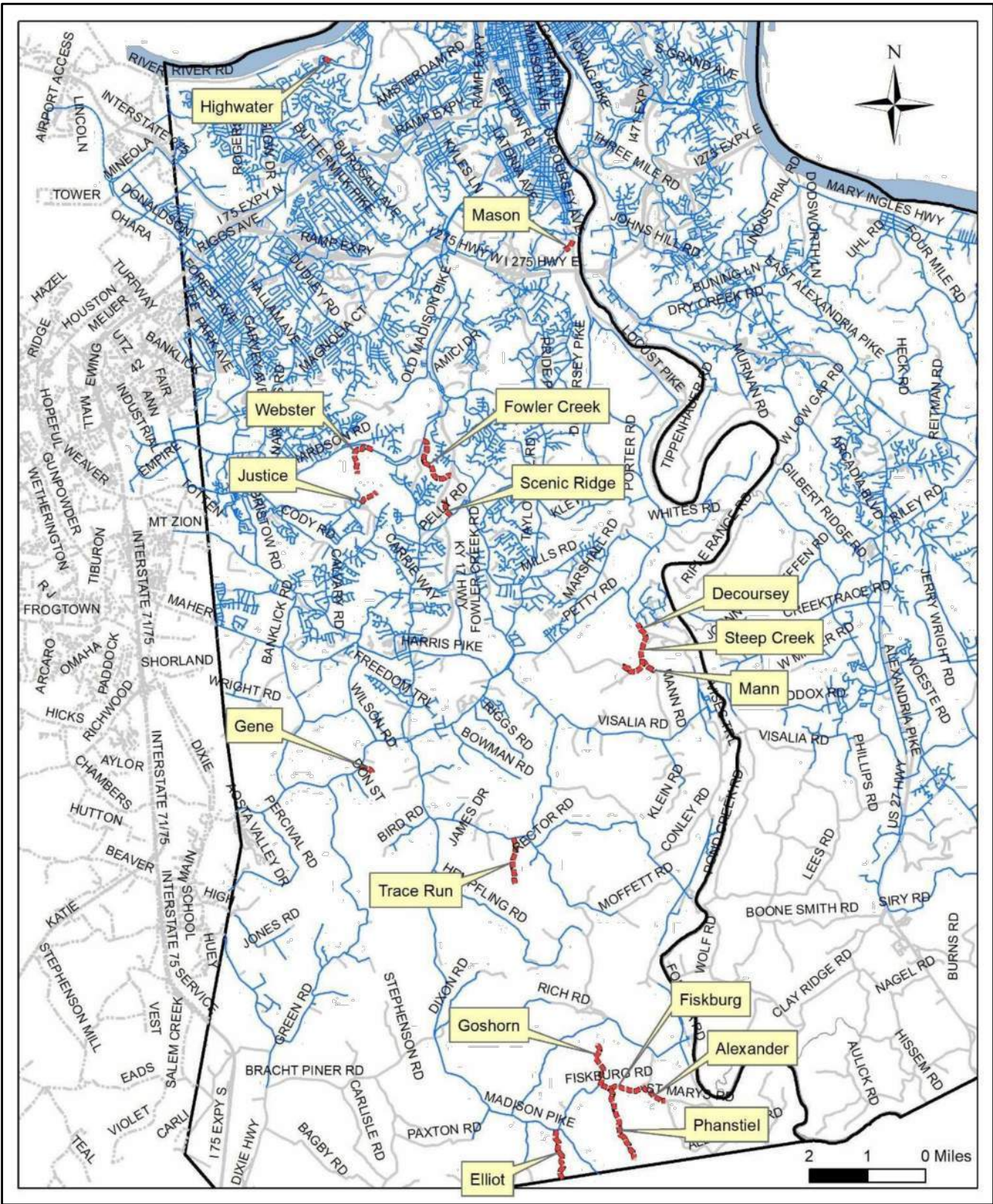
DOUGLAS C. WAGNER (Secretary)

NICHOLAS E. WINNIKE (Treasurer)

GARY E. HOLLAND (Commissioner)

JOSEPH J. KOESTER (Commissioner)

INDEX OF SHEETS		
NO.	DWG NAME	SHEET NAME
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3	G-02	DETAILS
4	G-03	DETAILS
5	G-04	DETAILS
6	G-05	EROSION CONTROL DETAILS
7	C-01	HIGHWATER ROAD
8-9	C-02 to C-03	MASON ROAD
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46-49	C-40 to C43	ELLIOT ROAD



VICINITY MAP

NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS AND DRAWINGS OF THE NORTHERN KENTUCKY WATER DISTRICT FOR THE INSTALLATION OF WATER MAIN AND METER PITS SHALL GOVERN ALL WATER MAIN CONSTRUCTION ITEMS ON THIS PROJECT.

KENTUCKY TRANSPORTATION CABINET SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND KENTON COUNTY SUBDIVISION REGULATIONS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF OUNDARY AND TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A SURVEY BY CT CONSULTANTS, INC.
THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED ON PLANNING AND DEVELOPMENT SERVICES (P.D.S.) G.I.S. MAPPING.

90%
REVIEW

your trusted advisor
consultants

engineers
architects
planners

ISSUED FOR:	90% DESIGN	DATE	REVISION	NO
ISSUE DATE:	MAY 2024			
SCALE:	AS SHOWN			
DESIGNED BY:	JCOR			
DRAWN BY:	JCOR			
CHECKED BY:	JSHU			

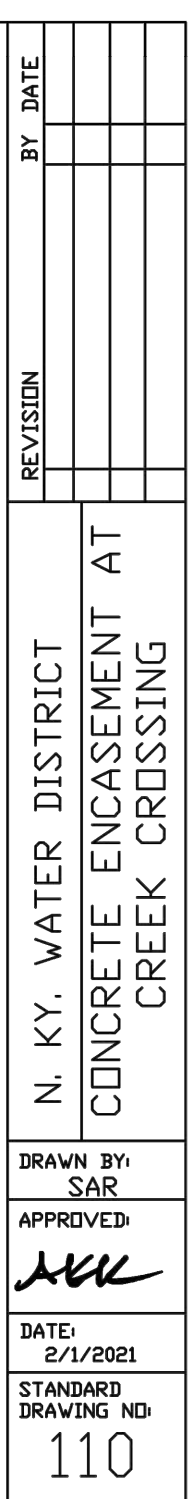
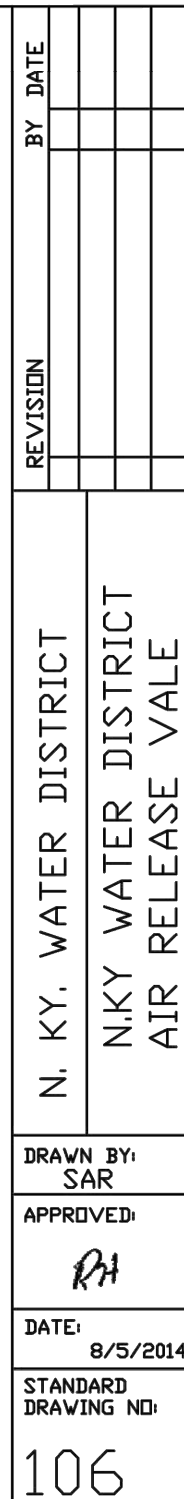
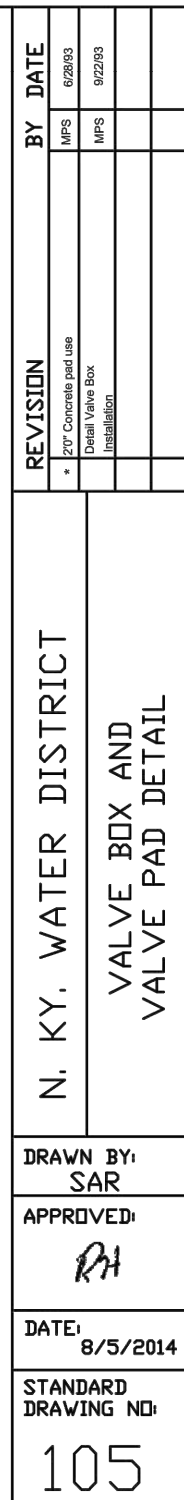
NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'
-KENTON COUNTY -

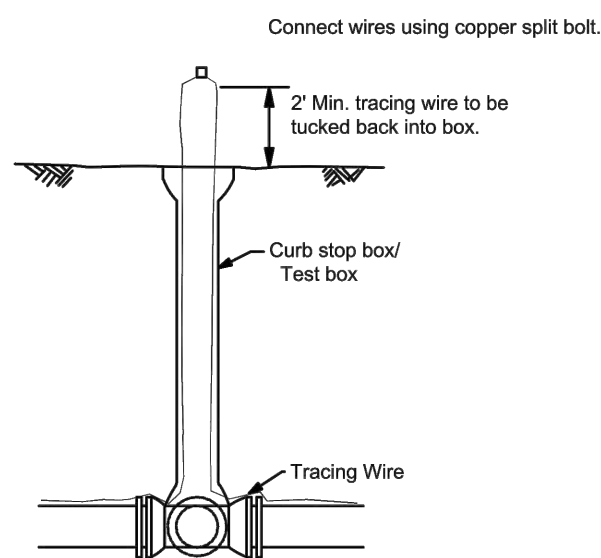
TITLE SHEET

PROJECT NO. 231591	
DISCIPLINE CIVIL	
SHEET NAME TTL	
SHEET 1	OF 48

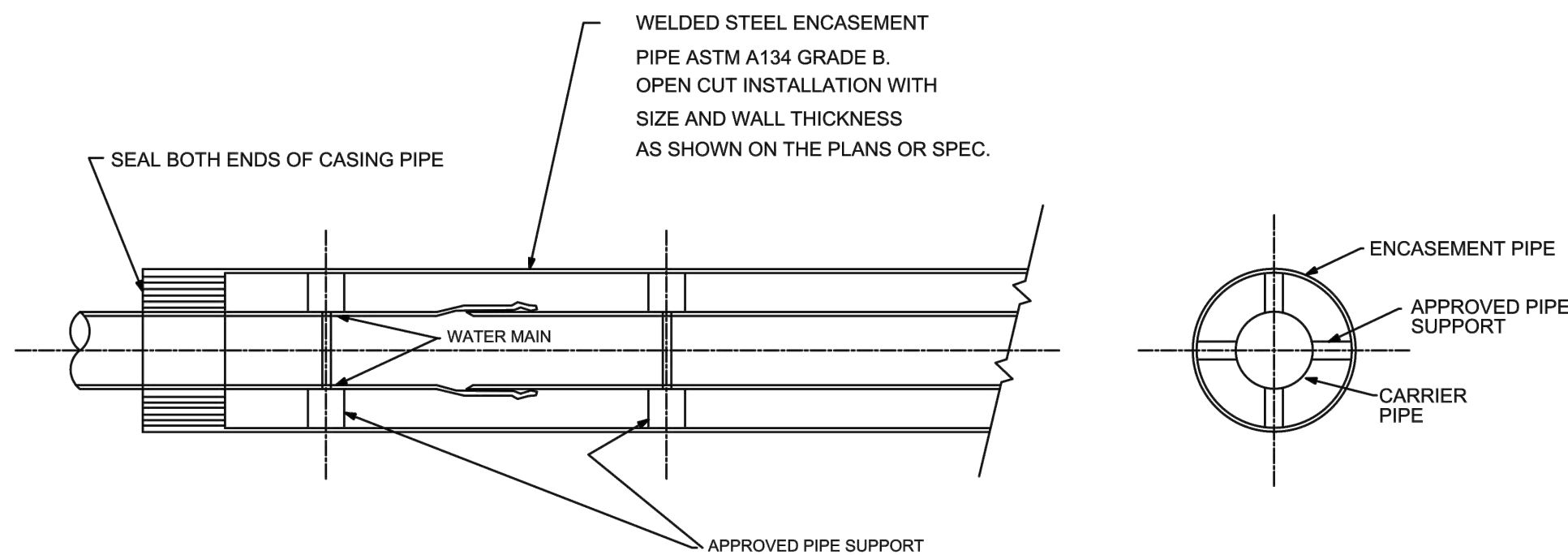


GENERAL NOTES		UTILITY NOTES		WATER DISTRICT GENERAL NOTES		MAINTENANCE OF TRAFFIC NOTES		SYMBOL LEGEND	
<p>1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, STANDARD SPECIFICATIONS AND DRAWINGS AND THE KENTON COUNTY SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.</p>		<p>1. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARED DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED THEIR FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PRACTICE CARE DURING THE GRADING AND TRENCHING AND SHALL BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION.</p>		<p>1. THE EXISTING WATER MAIN ELEVATION AND LOCATION AT THE CONNECTION POINT WITH THE PROPOSED MAIN WAS ASSUMED AND HAS NOT BEEN FIELD VERIFIED. PRIOR TO COMMENCEMENT OF ANY WATER MAIN WORK, THE CONTRACTOR SHALL DIG A TEST HOLE AT THE CONNECTION POINT TO LOCATE EXISTING WATER MAINS TO LOCATION AND ELEVATION. THE EXISTING WATER MAIN LOCATION MAY REQUIRE SOME FIELD ADJUSTMENT TO THE PROPOSED MAIN LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DOING THE ADJUST. THERE SHALL BE INCIDENTAL TO THE PERTINENT WATER MAIN ITEM.</p>		<p>1. ALL MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF KTO STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL TRAFFIC (ACCESS TO RESIDENCES WITHIN CONSTRUCTION LIMITS) AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SIGN, WARNING LIGHTS, BARRICADES, OR OTHER NECESSARY DEVICES MAKE THE SITE SAFE TO THE TRAVELING PUBLIC.</p>		<p>EXISTING GAS LINE EXISTING GAS SERVICE EXISTING ELECTRIC (UNDERGROUND / OVERHEAD) EXISTING CABLE (UNDERGROUND / OVERHEAD) EXISTING TELEPHONE (UNDERGROUND / OVERHEAD) EXISTING WATER MAIN EXISTING WATER SERVICE EXISTING STORM SEWER EXISTING ROOF DRAIN EXISTING SANITARY SEWER EXISTING SANITARY FORCE MAIN EXISTING FIBER OPTICS EXISTING FENCE EXISTING CONTROLS (MAJOR) EXISTING CONTROLS (MINOR) EXISTING RIGHT OF WAY EXISTING PROPERTY LINE EXISTING EASEMENT EXISTING GUARDRAIL EXISTING TREE LINE EXISTING ROCK WALL</p>	
<p>2. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION.</p>		<p>2. PRIOR TO ANY EXCAVATION OVER AN EXISTING UTILITY LINE OR SERVICE, CONTRACTOR SHALL HAND EXCAVATE TO EXPOSE THE UTILITY AND DETERMINE LOCATION AND DEPTH. NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.</p>		<p>2. COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, ETC. SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE AND SHALL BE APPROVED BY N.W.D. AND THE PROPERTY OWNER ALONG WITH COUNTY OR STATE WHEN REQUIRED.</p>		<p>2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT.</p>		<p>PROPOSED GAS LINE PROPOSED GAS SERVICE EXISTING ELECTRIC (UNDERGROUND / OVERHEAD) PROPOSED CABLE (UNDERGROUND / OVERHEAD) PROPOSED TELEPHONE (UNDERGROUND / OVERHEAD) PROPOSED WATER MAIN PROPOSED WATER SERVICE PROPOSED STORM SEWER PROPOSED UNDERDRAIN PROPOSED UNDERDRAIN / DOWNSPOUT COLLECTOR COMBO PROPOSED SANITARY SEWER PROPOSED SANITARY FORCE MAIN PROPOSED FIBER OPTICS PROPOSED FENCE PROPOSED CONTOURS (MAJOR) PROPOSED CONTOURS (MINOR) PROPOSED RIGHT OF WAY PROPOSED PROPERTY LINE PROPOSED EASEMENT PROPOSED GUARDRAIL PROPOSED TREE LINE / CLEARING LIMITS PROPOSED DISTURBED LIMITS</p>	
GENERAL TRENCH EXCAVATION NOTES		STORM & SANITARY NOTES		EROSION CONTROL LEGEND		HATCH LEGEND		SYMBOL LEGEND	
<p>1. CONTRACTOR IS TO PROVIDE CONSTANT STABLE SUPPORT FOR THE WATER MAIN TRENCH EXCAVATION (i.e. SHEETING, SHORING, ETC.) TO PROTECT ALL ADJACENT EXISTING UTILITIES, STORM SEWER PIPE, AND SANITARY PIPE FROM COLLAPSE. THE CONTRACTOR SHALL PROVIDE TWO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK. ANY COSTS ASSOCIATED WITH TRENCH SUPPORT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE ASSOCIATED WATER MAIN.</p>		<p>1. ALL STORM AND SANITARY ITEMS SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND DETAILS FROM SD-1. METAL PIPE MATERIALS SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON THESE PLANS.</p>		<p>1. ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS. CONTRACTORS SHALL BE RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PRACTICE CARE DURING THE GRADING AND TRENCHING AND SHALL BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION.</p>		<p>1. 1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA</p>		<p>EXISTING FLAGPOLE EXISTING MAILBOX EXISTING SIGN EXISTING CABLE PEDESTAL EXISTING ELECTRIC PEDESTAL EXISTING PULL BOX EXISTING GROUND LIGHT EXISTING LIGHT POLE EXISTING ELECTRIC METER EXISTING ELECTRIC MANHOLE EXISTING GAS METER EXISTING GAS VALVE EXISTING GAS BOX EXISTING UTILITY POLE EXISTING GUY WIRE / ANCHOR EXISTING SANITARY MANHOLE EXISTING SANITARY CLEANOUT EXISTING STORM MANHOLE EXISTING SINGLE / DOUBLE CURB INLET EXISTING CATCH BASIN EXISTING STORM CLEANOUT EXISTING TELEPHONE MANHOLE EXISTING TELEPHONE PEDESTAL EXISTING FIRE HYDRANT EXISTING WATER METER EXISTING WATER VALVE EXISTING BUSHES / TREES EXISTING SURVEY BENCHMARK TEST BORING LOCATION</p>	
<p>2. TRENCH EXCAVATION AND OPEN UNBAFFLED LENGTH OF WATER MAIN TRENCH SHALL BE LIMITED AS NECESSARY ALONG THE ROADWAY SURROUNDING GROUND SURFACE, NEARBY STRUCTURES, INFRASTRUCTURE AND THE EXISTING ROADWAY PAVEMENT.</p>		<p>2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORM AND SANITARY SEWER FLOW THROUGHOUT THE PROJECT. FOR THE DURATION OF CONSTRUCTION, ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.</p>		<p>2. PRESSURE TESTING SHALL BE DONE AS PER NORTHERN KENTUCKY WATER DISTRICTS SPECIFICATIONS.</p>		<p>TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET</p>		<p>PROPOSED FLAGPOLE PROPOSED MAILBOX PROPOSED SIGN PROPOSED CABLE PEDESTAL PROPOSED ELECTRIC PEDESTAL PROPOSED PULL BOX PROPOSED GROUND LIGHT PROPOSED LIGHT POLE PROPOSED ELECTRIC METER PROPOSED ELECTRIC MANHOLE PROPOSED GAS METER PROPOSED GAS VALVE PROPOSED GAS BOX PROPOSED UTILITY POLE PROPOSED GUY WIRE / ANCHOR PROPOSED SANITARY MANHOLE PROPOSED SANITARY CLEANOUT PROPOSED STORM MANHOLE PROPOSED SINGLE / DOUBLE CURB INLET PROPOSED CATCH BASIN PROPOSED STORM CLEANOUT PROPOSED TELEPHONE MANHOLE PROPOSED TELEPHONE PEDESTAL PROPOSED FIRE HYDRANT PROPOSED WATER METER PROPOSED WATER VALVE REMOVE EXISTING BUSH / TREE PROPOSED SLOPE DIRECTION</p>	
<p>TRENCH SUPPORT FAILURE RESULTING IN ADVERSE IMPACT TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.</p>		<p>3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE RECONSTRUCTION MEETING.</p>		<p>3. FOR THRUST BLOCKING REFER TO THE NORTHERN KENTUCKY WATER DISTRICTS STANDARD DRAWING NUMBERS 104 AND 104A.</p>		<p>TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET</p>		<p>PROPOSED SANITARY MANHOLE PROPOSED SANITARY CLEANOUT PROPOSED STORM MANHOLE PROPOSED SINGLE / DOUBLE CURB INLET PROPOSED CATCH BASIN PROPOSED STORM CLEANOUT PROPOSED TELEPHONE MANHOLE PROPOSED TELEPHONE PEDESTAL PROPOSED FIRE HYDRANT PROPOSED WATER METER PROPOSED WATER VALVE REMOVE EXISTING BUSH / TREE PROPOSED SLOPE DIRECTION</p>	
<p>TRENCH EXCAVATION SHALL ALSO BE LIMITED TO THE CONTRACTORS ABILITY TO PROVIDE TRENCH BOXES FOR SUPPORT UNDER NO CIRCUMSTANCES SHALL TRENCH EXCAVATION EXCEED LENGTH OF SUPPORT AVAILABLE.</p>		<p>4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED TAPER BY SD-1.</p>		<p>4. THE PROPOSED WATER MAIN SHALL HAVE A HORIZONTAL SEPARATION OF AT LEAST 2 FEET FROM ANY EXISTING OR PROPOSED UTILITY (PIPE) FROM ANY GAS MAIN.</p>		<p>TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET</p>		<p>PROPOSED SANITARY MANHOLE PROPOSED SANITARY CLEANOUT PROPOSED STORM MANHOLE PROPOSED SINGLE / DOUBLE CURB INLET PROPOSED CATCH BASIN PROPOSED STORM CLEANOUT PROPOSED TELEPHONE MANHOLE PROPOSED TELEPHONE PEDESTAL PROPOSED FIRE HYDRANT PROPOSED WATER METER PROPOSED WATER VALVE REMOVE EXISTING BUSH / TREE PROPOSED SLOPE DIRECTION</p>	
GENERAL NOTES		GAS NOTES		18. CONNECT SERVICE LINE (3/4" THRU 2") INCLUDES THE LABOR EQUIPMENT, EXCAVATION, BEDDING, BACKFILL, ASPHALT PAVEMENT, CONCRETE PAVEMENT, CONCRETE CURB, CONCRETE WALK AND YARD RESTORATION TO INSTALL THE SERVICE LINE AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED. IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DRAWINGS, COMPLETE AND READY FOR USE. LEAD SERVICE LINES ENCOUNTERED BY THE EXCAVATION SHALL BE REPLACED FROM THE MAIN SERVICE LINE TO THE EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DOING THE ADJUST. THERE SHALL BE INCIDENTAL TO THE PERTINENT WATER MAIN ITEM.		TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET		PROPOSED SANITARY MANHOLE PROPOSED SANITARY CLEANOUT PROPOSED STORM MANHOLE PROPOSED SINGLE / DOUBLE CURB INLET PROPOSED CATCH BASIN PROPOSED STORM CLEANOUT PROPOSED TELEPHONE MANHOLE PROPOSED TELEPHONE PEDESTAL PROPOSED FIRE HYDRANT PROPOSED WATER METER PROPOSED WATER VALVE REMOVE EXISTING BUSH / TREE PROPOSED SLOPE DIRECTION	
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1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY									





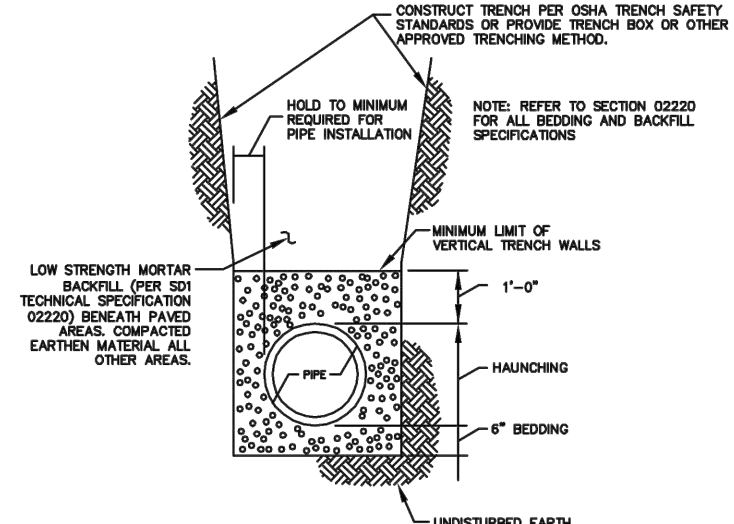
Note: Curb stop box/test box shall not be installed in paved areas



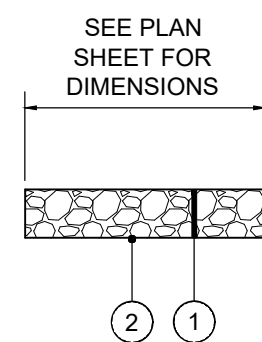
1. All carrier pipe placed in steel casing pipe shall be minimum class 50 ductile iron pipe and conform to the latest edition of AWWA C151.
2. Carrier pipe gaskets shall develop a wedging action between pairs of high-strength stainless steel elements spaced around the gasket (FIELD LOK , FASTGRIP, or approved equal gaskets).

NOTE: CASING PIPE JOINTS SHALL BE SEAM WELDED SO THAT CASING IS WATER TIGHT FROM END TO END.

NO SCALE



STORM TRENCH DETAIL
N.T.S.



ROCK CHANNEL PROTECTION
N.T.S.

- ① ITEM 703 - 12" CHANNEL LINING, CLASS II
- ② NON WOVEN GEOTEXTILE FILTER FABRIC



(SAWCUTTING AND REMOVAL OF EXISTING CONCRETE
SIDEWALK AND EXCAVATION TO PROPOSED
SUBGRADE INCIDENTAL TO SIDEWALK REPLACEMENT

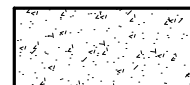


- ① SAWCUT AT NEAREST JOINT AND REMOVE EXISTING CONCRETE PAVEMENT (INCIDENTAL TO ITEM 505)
- ② 1" PREFORMED EXPANSION JOINT MATERIAL (FLEXIBLE FOAM-CERAMAR BY W.R. MEADOWS OR APPROVED EQUAL)
- ③ TOOLED JOINT
- ④ ITEM 505 - 6" CONCRETE DRIVEWAY/APRON (OR MATCH EXISTING WHICHEVER IS GREATER)
- ⑤ COMPACTED SUBGRADE (INCIDENTAL TO ITEM 505 - 6" CONCRETE DRIVEWAY/APRON)
- ⑥ SEAL JOINT WITH GRAY SELF LEVELING SEALANT (SIKA FLEX OR APPROVED EQUAL)

NOTE

1. ANY YARD AREA DISTURBED BY THE CONSTRUCTION OF THE DRIVEWAY APRON SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH (INCIDENTAL TO CONCRETE DRIVEWAY APRON REPLACEMENT).
2. ALL EXCAVATION REQUIRED FOR THE PLACEMENT OF THE PROPOSED DRIVEWAY SHALL BE INCIDENTAL TO CONCRETE DRIVEWAY REPLACEMENT BID ITEM.

CONCRETE DRIVEWAY REPLACEMENT
N.T.S.



- ① ITEM 302 - 8" CRUSHED STONE BASE, (LESS THAN 7% FINES)
COMPACTED TO 100% (ASTM D698).
- ② CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL
SHEET (G-02))



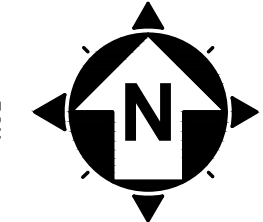
- ① ITEM 402/403 - 1.5" ASPHALT CONCRETE SURFACE COURSE
- ② ITEM 402/403 - 7.75" ASPHALT CONCRETE BASE (OR MATCH EXISTING)
- ③ CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL SHEET (G-02))



- ① ITEM SPL - 8" PORTLAND CEMENT CONCRETE PAVEMENT - PER KENTON COUNTY SUBDIVISION REGULATIONS (OR MATCH EXISTING)
- ② CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL SHEET (G-02))

NOTE

GENE STREET HAS AN ADDITIONAL 1.5" ASPHALT OVERLAY ON THE CONCRETE PAVEMENT



0'
50'
100'
SCALE: 1" = 50'

90%
REVIEW

CONSTRUCTION NOTES

- 1 MAINTAIN MANAGEABLE VERTICAL CLEARANCE BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING STORM SEWER, WATER MAIN, TELEPHONE AND GAS LINES. MAINTAIN MINIMUM 18" BETWEEN SEWER CROSSINGS PER N.K.W.D. SPECIFICATIONS ITEM 1.14. MAINTAIN MINIMUM 18" BETWEEN THE PROPOSED WATER MAIN AND THE EXISTING SANITARY SEWER. ACTUAL ELEVATION UNKNOWN. CONTRACTOR TO EXCAVATE & VERIFY ACTUAL LOCATION, SIZE AND ELEVATION OF EXISTING UTILITY PRIOR TO BEGINNING WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE EXISTING UTILITY PRIOR TO CONSTRUCTION OF ANY POTENTIAL CONFLICT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK AND THE COST SHALL BE INCLUDED IN THE BID ITEM FOR WATER MAIN.
- 2 PROPOSED FIRE HYDRANT ASSEMBLY, VALVE AND COORDINATE LOCATION WITH N.K.W.D. INSPECTOR. ANCHOR VALVE TO TEE.
- 3 CONNECT TO EXISTING WATER MAIN (ACTUAL ELEVATION UNKNOWN). CONTRACTOR TO VERIFY DEPTH PRIOR TO CONSTRUCTION.
- 4 CHANNEL LINING, CLASS II (12" w/ NON-WOVEN GEOTEXTILE FILTER FABRIC
- 5 CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITY PRIOR TO EXCAVATION ACTIVITY AND NOTIFY ENGINEER AND N.K.W.D. OF CONFLICTS.
- 6 DO NOT DISTURB
- 7 CONTRACTOR TO SUPPORT UTILITY POLE DURING PIPE INSTALLATION
- 8 REMOVE AND REPLACE SIGN
- 9 REMOVE AND REPLACE MAILBOX
- 10 NOT USED
- 11 REMOVE AND REPLACE EXISTING STORM STRUCTURE (CB.HW) AS NEEDED FOR WATER MAIN INSTALLATION
- 12 DRIVEWAY RESTORATION (SEE DETAILS)
- 13 CONSTRUCT CLAY BULKHEAD IN TRENCH WITH UNDERDRAIN, DAYLIGHT UNDERDRAIN TO DITCH OR DRAINAGE STRUCTURE

HATCH LEGEND

- 1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA
- TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET
- TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET
- TRENCH RESTORATION - 8" AGGREGATE PAVEMENT
- CONTROL DENSITY FILL - PAVT TRENCH
- CONCRETE DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- CONCRETE WALK REPLACEMENT - SEE DETAIL SHEET
- ASPHALT DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- GRAVEL DRIVEWAY REPLACEMENT - SEE DETAIL SHEET
- CHANNEL LINING, CLASS II - SEE DETAIL SHEET

NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'
-KENTON COUNTY -

ELLIOT ROAD
STA. 10+00 TO STA. 22+50

ISSUED FOR:	90% DESIGN	NO	REVISION	DATE
ISSUE DATE:	MAY 2024			
SCALE:	AS SHOWN			
DESIGNED BY:	JCOR			
DRAWN BY:	JCOR			
CHECKED BY:	JSHU			



PROJECT NO.

231591

DESCRIPTION

CIVIL

SHEET NAME

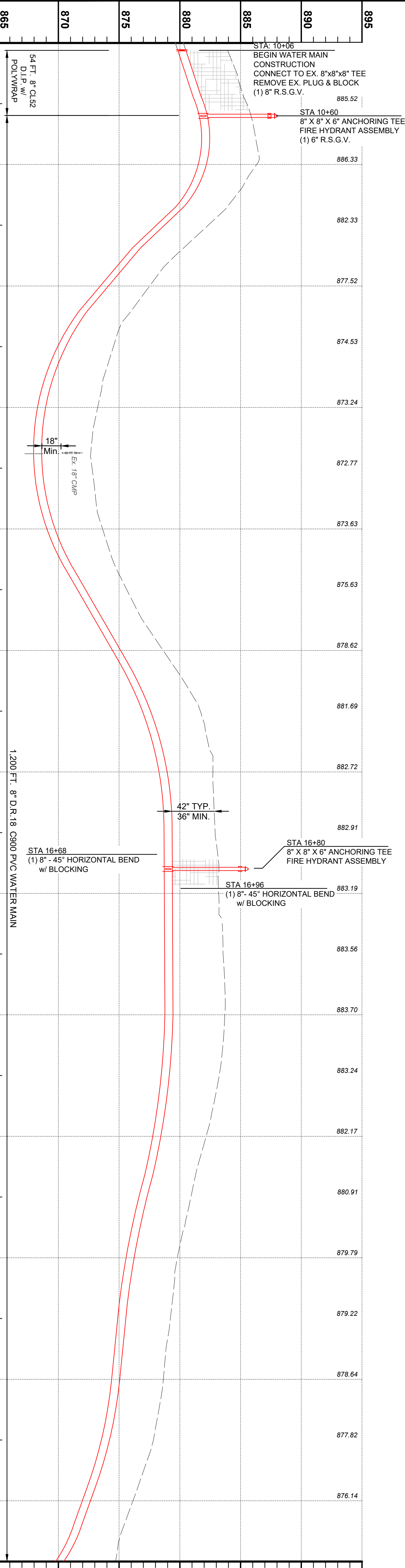
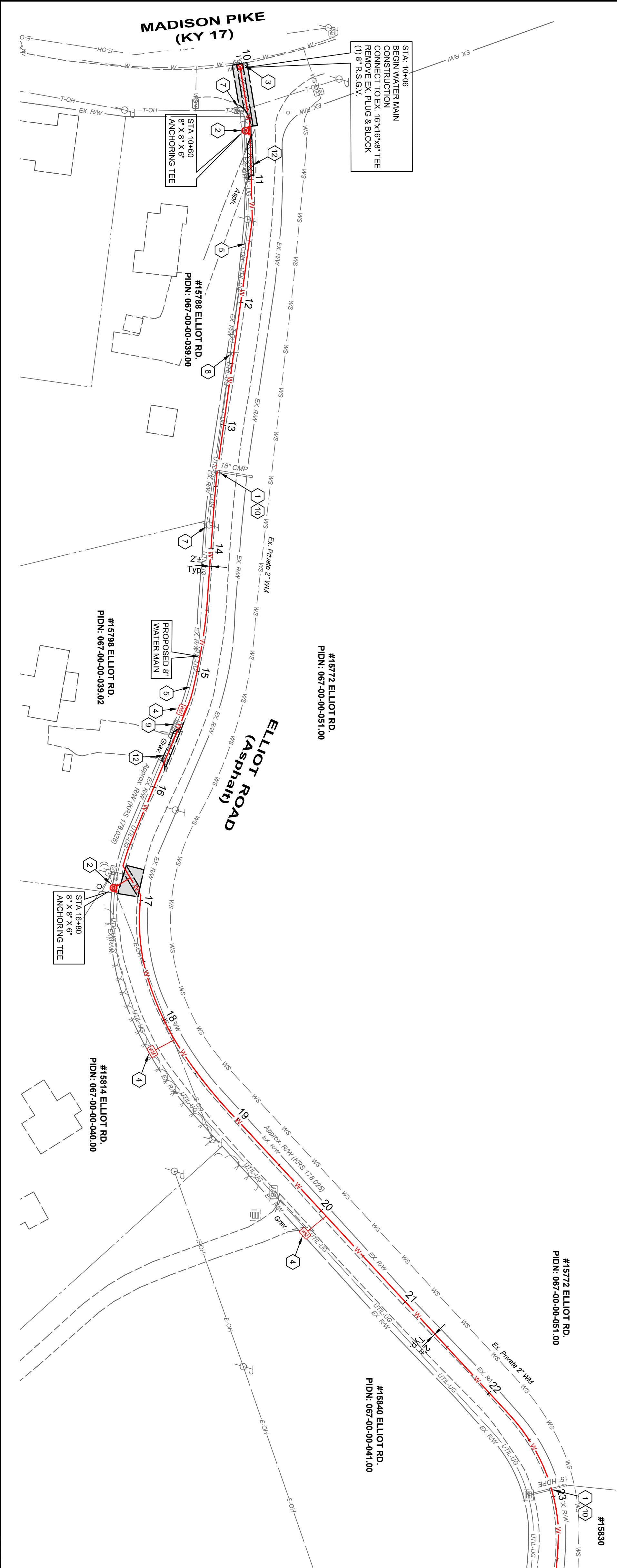
C-40

SHEET

46

OF

49



\\NTC\LOCAL\DATA\PROJECTS\2023\1591\NORTH KY\ELLIOT RD\ELLIOT - SUBDISTRICT 'O'.DWG (12/15/24) JSHU, JCOR, JSHU



**KYTC Division of Maintenance
Permits Branch
District 6**



ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

YOU MUST NOTIFY KYTC BEFORE BEGINNING ANY WORK IN THE RIGHT-OF-WAY. *Failure to alert KYTC of working within the right of way may result in permit revocation.*

Two ways to notify KYTC of your construction start date:

By Email: KYTCD6PERMITS@KY.GOV

**must include permit number and county in subject line*

By Phone: 859-341-2700

**must know permit number and county when calling*

YOU MUST ALSO NOTIFY KYTC UPON COMPLETION OF WORK WITHIN RIGHT-OF-WAY. *Failure to alert KYTC of completion of work may result in withholding release of any associated bonds.*



APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-008-10

I. SAFETY**A. General Provisions**

- All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, latest edition, Part VI, and safety requirements shall comply with the Permits Manual. Federal law requires that traffic control shall be implemented in accordance with MUTCD standards and KYTC's Standard Specifications for Road and Bridge Construction (KYTC SSRBC) under the supervision of a certified Work Zone Traffic Control Supervisor.
- All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly completed so that hazards adjacent to the traveled way are kept to an absolute minimum.
- No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All signs and flaggers during lane closure shall conform to the MUTCD. The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility. No non-construction equipment or vehicles or office trailers shall be allowed on the right of way during working hours. The right of way shall be left free and clear of equipment, material, and vehicles during non-working hours.
- When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, snow, fog, etc.) without specific permission from the Department.
- Working hours shall be between _____ and _____. Further date and time restrictions are as follows:

--

B. Explosives

- No explosive devices or explosive material shall be used within state right of way without proper license and approval of the Kentucky Department of Mines and Minerals, Explosive Division.

C. OSHA

- Kentucky Occupational Safety and Health Standards for the construction industry, which has the effect of law, states in part: (Page 52, 1926.651, Specific Excavation Requirements) "Prior to opening an excavation, effort shall be made to determine whether underground installations, (sewer, telephone, water, fuel, electric lines, etc.) will be encountered, and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation."

D. Archaeological

- Whenever materials of an archaeological nature are discovered during the course of construction work or maintenance operations, contact shall be made immediately with the Division of Environmental Analysis, which maintains an archaeologist on staff, or with the Office of the State Archaeologist located at the University of Kentucky. Following this consultation, further action shall be decided on a case-by-case basis by the State Highway Engineer or the Transportation Planning Engineer or their designated representative.

E. Environmental

- If the activity to which this permit related disturbs one acre or more of land, you must obtain KPDES KYR10 permit. Information can be found at <http://water.ky.gov/permitting/Pages/GeneralPermits.aspx>

F. Additional Notes

- The following additional notes apply to this permit:

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APPROVED
AUGUST 27, 2021
KENTUCKY TRANSPORTATION
06-2021-008-10
CABINET

II. UTILITIES

- The permittee shall be responsible for any damage to existing utilities. Any utility modifications or relocations within state right of way necessary, as determined by the Department or by the owner of the utility, shall be at the expense of the permittee and subject to the approval of the Department. Operators of underground utilities in right of way shall be members of Kentucky 811.
- All existing manholes and valve boxes shall be adjusted to be flush with finished grade.
- All pavement cuts shall be restored per Kentucky Transportation Cabinet standards and specifications.
- Any excavation within 3' of edge of pavement will require flowable fill as backfill.
- The clear zone requirement shall be met to the extent possible in accordance with the Roadside Design Guide.
- Encasement pipe shall conform to current standards for highway crossings in accordance with the Permits Manual. Pipe encasing shall not be required if the pipe crossing is 2" or less.
- Aerial crossing of utility lines shall have a minimum clearance from the high point of the roadway to the low point of the line of 24' on fully controlled access highways and 18' on non-fully controlled access highways
- Minimum depth for underground Gas and Electric lines is 60" under roadways, ramps, and ditch lines and 42" in all other areas within state right of way. The minimum depth for all other utilities is 42" in all areas.
- When steel plates are installed over an open excavation in the roadway, they must be anchored to the pavement and have asphalt applied to all exposed edges and an MUTCD approved sign noting "Road Plates Ahead." KYTC must be notified of the location, date, time, and permit number associated to BOTH the installation and removal of the plate. Failure to do so may result in permit revocation.
- Utility poles moved for replacement must be removed in their entirety and the hole left behind must be backfilled.
- No poles or anchors shall be installed in a roadside ditch.
- **Utility notes specific to fully-controlled access highways ONLY:**
All work necessary within the right-of-way shall be performed behind a temporary fence erected prior to the start of work. The temporary woven wire fence shall be removed immediately upon completion of work on the right-of-way, and the control of access immediately restored to original condition, in accordance with applicable KYTC SSRBC. All vents, valves, manholes, etc., shall be located outside of the right-of-way. Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints. The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep. Work in interstate right-of-way requires approval from FHWA (Federal Highway Administration).
- Additional notes:

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APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-008-10

III. DRAINAGE

- Negative impacts to existing drainage will be the applicant's responsibility to repair in accordance with KYTC SSRBC.
- All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of installation including bedding and joint seating. Pipe shall not be covered until inspected by the Department and express permission obtained to make backfill. It is the applicant's responsibility to request inspection.
- All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with curbs or in entrance areas or other paved areas within the right-of-way shall not be acceptable.
- All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall conform to the Department specifications and shall be constructed in accordance with the KYTC's Standard Drawings.
- Additional notes:

IV. PAVING

- No bituminous pavement shall be installed within the right of way between November 15 and April 1, nor when the temperature is below 40 degrees Fahrenheit, without the express consent of the Department. No bituminous pavement shall be installed when the underlying course is wet.
- Paving within the right of way shall be as follows:
 - Base (Type): _____, (Thickness) _____
 - Surface Base (Type) _____, (Thickness) _____
 - Finished Surface (Type) _____, (Thickness) _____
- All materials and methods of construction, including base and subgrade preparation, shall be in accordance with KYTC's Standard Specifications. At least 24 hours notice to the Department is required prior to beginning paving operations.
Phone: _____ Name: _____
- Utility companies performing road cuts must restore the pavement to pre-existing condition. Pictures/videos are recommended to ensure proper placement of signs and lane markers that are temporarily removed for paving operations. In some cases, a pre-work inventory may be requested from the Department.
- Existing pavement and shoulder material shall be removed to accommodate the above paving specifications.
- The finished surface of all new pavement within the right of way shall be true to the required slope and grade, uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent highway pavement or as determined by KYTC.
- To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highway pavement and shall slope away from the existing edge of the pavement as specified in drawings.
- Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement, and an edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Department of Highways Standard Specifications (latest edition), shall be applied between new and existing pavements.
- Additional notes:

APPROVED
August 15, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00113

V. ENTRANCES

- Encroachment permits issued by KYTC in no way supersede local planning/zoning requirements or subdivision regulations. KYTC has no authority with zoning changes.
- Commercial entrances must be paved to the right-of-way line. Any deviations must be approved by KYTC before installation.
- KYTC can dictate drainage improvement installation during construction or after entrance is at final grade. The permit release does not release the permit applicant from drainage maintenance.
- Signs (ground-mounted and span-mounted), stop bars, crosswalk, and proper lane markings must be in-place before entrance is open for traffic. Lane width modifications must be approved by the Department.
- Guardrail installation must be pre-approved by the Department and installed by a KYTC pre-qualified contractor. Any guardrail that is removed during construction must be returned to the local KYTC maintenance facility.
- Additional notes:

VI. TRAFFIC

- Any contractor performing work within the vicinity of KYTC roadway lighting or traffic signals, must request locates from the KYTC District 6 Traffic section at least one week before of starting work in the right-of-way.
- Applicant must maintain all KYTC Roadway signage that is impacted by the permitted work. In the event that any signs have to be moved, it is the applicant's responsibility to mark the sign's location before removal and to install the original or new sign per KYTC standards for sign installation.
- Any thermoplastic or striping damaged during the encroachment must be restored in a timely manner per KYTC standards. Stopbars, arrows, and crosswalks must be thermoplastic material, paint is not acceptable. This work must be performed by a KYTC pre-qualified contractor.
- Excavating near a signal, lighting pole, or anchoring facility must be done so that it does not impact the structural integrity of the pole. Any work that requires a temporary support or anchoring must receive prior approval.
- If the scope of the permit involves a signal build or rebuild, it is the applicant's responsibility to apply for power service (and pay monthly electrical bill) as well as request electrical inspection from the KYTC District 6 Traffic section. If the signal modifications require timing or phasing changes this must be requested at least two weeks in advance of the signal's turn-on date. KYTC will not take ownership of permitted signals until the electrical inspection is formally accepted and approved.
- Work which impacts traffic loops requires 48-hour notice to the KYTC District 6 Traffic section at 859-341-2700. Accidental damage of a traffic loop must be reported immediately to KYTC District 6's emergency line at 859-620-2738. Any disturbed traffic loops must be replaced in a timely manner. Traffic loops out of operation for more than five working days will subject the applicant to the cancellation of the permit. Loop repair must be performed by a KYTC pre-qualified contractor.
- Additional Notes:

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-0008-10

VII. SIDEWALK SPECIFICATIONS

- All sidewalk modifications, retrofitting, or installations must meet current ADA guidelines
- A. New Sidewalks**
 - New sidewalk specifications, dimensions, and designs shall be in accordance with KYTC's latest edition of the Standard Specifications, or with the plans provided on the permit if approved by a KYTC D6 Construction or Permits Engineer.
 - All materials and methods of construction, including curing, shall be in accordance with KYTC's latest edition of the Standard Specifications.
- B. Existing Sidewalks**
 - Use of the sidewalk shall not be blocked or obstructed and a usable walkway shall be maintained across the construction area at all times per MUTCD . Sidewalk closures must be approved by the Department before implementation.
 - The location of ADA ramps (truncated domes/tactile warnings/etc.) will need to be field verified by KYTC before installation.
 - Any section of sidewalk that becomes damaged shall be entirely replaced to match existing sections.
 - Additional notes:

VIII. RIGHT OF WAY RESTORATION

- All disturbed portions of the right of way shall be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition). A satisfactory turf, as determined by the Department, shall be established by the permittee prior to release of indemnity. Sodding or seeding shall be as follows:
 - Slopes 3:1 or Less: 90% Kentucky 31 Tall Fescue and 10% White Dutch Clover at 100 lbs/acre
 - Slopes Greater than 3:1: 90% Kentucky 31 Tall Fescue and 10% Partridge Pea at 100 lbs/acre
 - Urban or Residential Areas: 95% Turf Type Fall Fescue Blend and 5% White Dutch Clover at 275 lbs/acre
- Two tons of clean straw mulch per acre of seeding.
- Prior to seeding, the ground shall be prepared in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).
- Substitutes for sod such as artificial turf, rocked mulch, or paved areas may be acceptable if they are aesthetically pleasing and receive prior approval from KYTC.
- All ditch-flow lines and all ditch-side slopes shall be sodded.
- Existing concrete right of way markers shall not be disturbed. If damaged in any way, they shall be entirely replaced by the permittee with new concrete markers to match the original markers, in accordance with Kentucky Department of Highways Standard Drawings. Markers that are entirely removed shall be re-established in the proper locations by the permittee and to the satisfaction of the Department.
- Additional notes:

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00810

IX. RIGHT OF WAY FENCE RESTORATION

- The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to protect against encroachment.
- The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-way line
- The fence materials and design shall meet accepted industry standards and be treated as paintable. Durable finish materials such as vinyl are acceptable.
- The permittee shall be required to construct and maintain the replacement fencing to an acceptable level of functionality and state of repair. All work on the fencing shall be performed by access from the private property. Access from the roadway is not allowed.
- The existing fence shall be removed by permittee and stored at the Department's maintenance storage yard for future reuse by the Department, or the Department shall be reimbursed the cost of fencing removed.
- Right of way monuments shall be installed regardless of if replacement fence is installed or not.
- The control of access shall not be diminished as a result of replacement of the fence.
- Additional notes:

X. MISCELLANEOUS NOTES

NOTICE TO PERMITTEE

THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE CURRENT KYTC STANDARD SPECIFICATIONS AND THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF HIGHWAYS SHALL BE REMOVED BY THE PERMITTEE AT NO EXPENSE TO THE DEPARTMENT OF HIGHWAYS AND SHALL BE REDONE BY THE PERMITTEE TO CONFORM WITH THE APPROVED PLANS.

APPROVED
2023-01-24
Kentucky Transportation Cabinet

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

PERMITTEE

Name: Northern Kentucky Water District
Contact Person: Steve Broering
Address: 2835 Crescent Springs Road
City: Ft. Wright
State: Kentucky
Zip: 41017
Telephone: (859) 991-1652

PROJECT IDENTIFICATION

Permit Number: 06-2024-00838

I wish to notify the Department of Highways that the above mentioned permit work and any necessary right-of-way restoration have been completed and are ready for final inspection.

Permittee

Please return this form to the address below when work is completed and ready for final inspection.

Please Return to: Permit Engineer
Department of Highways, District 6 Office
421 Buttermilk Pike
Covington, Kentucky 41017
(859) 341-2700
www.transportation.ky.gov/

LOCATION(S)			
Description	County - Route	Latitude	Longitude
PROPOSED 8" WATER MAIN INSTALLATION ON GENE STREET THAT TIES INTO EXISTING 8" WM ON WALTONNICHOLSON PIKE (KY 16) THE	Kenton - KY 16	38.899193	-84.559854

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00838



Andy Beshear
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Department of Highways, District 6 Office
421 Buttermilk Pike
Covington, Kentucky 41017
(859) 341-2700
www.transportation.ky.gov/

Jim Gray
Secretary

August 27, 2024

Northern Kentucky Water District
Steve Broering
2835 Crescent Springs Road
Ft. Wright, Kentucky 41017

Subject: Permit #: 06-2024-00838
Permit Type: Utilities - Water
Approval

Dear Applicant:

Attached is your permit approval and documentation for the subject permit.

Be advised that all work must be done in conformity with permit and application conditions. If you have any questions, please contact the Permits Section at this office.

Sincerely,

A handwritten signature in black ink that reads "Linzy Brefeld".

Linzy Brefeld
D6 Permits Supervisor

Attachments



An Equal Opportunity Employer M/F/D

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00838



Kentucky Transportation Cabinet
Department of Highways
Division of Maintenance
Permits Branch

TC 99-1 (B)
07/2018
Page 1 of 1

ENCROACHMENT PERMIT

KYTC KEPT #: 06-2024-00838

Permittee: Northern Kentucky Water District

Permit Type / Subtype: Utilities / Water

Work Completion Date: 8/26/2025

INDEMNITIES		
Type	Amount Required	Tracking Number
Performance Bond	\$0.00	
Cash / Check	\$0.00	
Self-Insured	\$0.00	
Payment Bond	\$0.00	
Liability Insurance	\$0.00	

This permit has been: **APPROVED** ☒ **DENIED** ☐

Linzy Brefeld	D6 Permits Supervisor	8/26/2024
SIGNATURE	TITLE	DATE

The TC 99-1(B), including the application TC-99 1(A) and all related and accompanying documents and drawings make up the permit. It is not a permit unless both the TC 99-1(A) and TC 99-1(B) are both present.

LOCATION(S)			
Description	County - Route	Latitude	Longitude
PROPOSED 8" WATER MAIN INSTALLATION ON GENE STREET THAT TIES INTO EXISTING 8" WM ON WALTONNICHOLSON PIKE (KY 16) THE	Kenton - KY 16	38.899193	-84.559854

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00838

APPLICATION FOR ENCROACHMENT PERMIT

KYTC KEPT #: 06-2024-00838

SECTION 1: APPLICANT CONTACT INFORMATION

APPLICANT NORTHERN KY WATER DISTRICT		ADDRESS 2835 CRESCENT SPRINGS PIKE	
EMAIL sbroering@nkywater.org	CITY ERLANGER	STATE KY	ZIP 41018
CONTACT NAME 1 Steve Broering	EMAIL sbroering@nkywater.org	PHONE # 859-426-2728	
		CELL #	
CONTACT NAME 2 (if applicable)	EMAIL	PHONE #	
		CELL #	

SECTION 2: PROPOSED WORK LOCATION

ADDRESS	CITY WALTON	STATE Kentucky	ZIP 41094
COUNTY KENTON	ROUTE # 16	MILE POINT 2.5	LONGITUDE (X) 84D33'35"W
LATITUDE (Y) 38D53'57"N			

ADDITIONAL LOCATION INFORMATION:

WALTON - NICHOLSON PIKE AT GENE STREET

FOR KYTC USE ONLY

PERMIT TYPE: ☐ Air Right ☐ Entrance ☒ Utilities ☐ Vegetation Removal ☐ Other: _____

ACCESS: ☐ Full ☐ Partial ☒ by Permit **LOCATION:** ☐ Left ☐ Right ☐ Crossing

SECTION 3: GENERAL DESCRIPTION OF WORK

PROPOSED 8" WATER MAIN INSTALLATION ON GENE STREET THAT TIES INTO EXISTING 8" WM ON WALTON-NICHOLSON PIKE (KY 16)

THE UNDERSIGNED APPLICANT(s), being duly authorized representative(s) or owner(s), DO AGREE TO ALL ORIGINAL UNEDITED TERMS AND CONDITIONS ON THE TC 99-1A, pages 1-4.

Steve Broering
SIGNATURE

7-15-2024

DATE

This is not a permit unless and until the applicant(s) receives an approved TC 99-1B from KYTC. This application shall become void if not approved by the cancellation date. The cancellation date shall be a minimum of one year from the date the applicant submits their application.

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00838

APPLICATION FOR ENCROACHMENT PERMIT

TERMS AND CONDITIONS

1. The permit, including this application and all related and accompanying documents and drawings making up the permit, remains in effect and is binding upon the Applicant/Permittee, its successors and assigns, as long as the encroachment(s) exists and also until the permittee is finally relieved by the Department of Highways from all its obligations.
2. Applicant shall meet all requirements of the Clean Water Act if the project will disturb one acre or more, the applicant shall obtain a KPDES KYR10 Permit from the Kentucky Division of Water. All disturbed areas shall meet the requirements of the Department of Highway's Standard Specifications, Sections 212 and 213, as amended.
3. **INDEMNITY:**
 - A. **PERFORMANCE BOND:** The permittee shall provide to the Department a performance bond according to the Permits Manual, Section PE-203 as a guarantee of conformance with the Department's Encroachment Permit requirements.
 - B. **PAYMENT BOND:** At the discretion of the department, a payment bond shall be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
 - C. **LIABILITY INSURANCE:** Liability insurance shall be required of the permittee (in an amount approved by the department) to cover all liabilities associated with the encroachment.
 - D. It shall be the responsibility of the permittee, its successors and assigns, to maintain all indemnities in full force and effect until the permittee is authorized to release the indemnity by the Department.
4. A copy of this application and all related documents making up the approved permit shall be given to the applicant and shall be made readily available for review at the work site at all times.
5. Perpetual maintenance of the encroachment is the responsibility of the permittee, its successors and assigns, with the approval of the Department as required, unless otherwise stated.
6. Permittee, its successors and assigns, shall comply with and agree to be bound by the requirements and terms of (a) this application and all related documents making up the approved permit, (b) by the Department's Permits Manual, and (c) by the Manual on Uniform Traffic Control Devices, both manuals as revised to and in effect on the date of issuance of the permit, all of which documents are made a part thereof by this reference. Compliance by the permittee, its successors and assigns, with subsequent revisions to applicable provisions of either manual or other policy of the Department may be made a condition of allowing the encroachment to persist under the permit.
7. Permittee agrees that this and any encroachment may be ordered removed by the Department at any time, and for any reason, upon thirty days written notice to the last known address of the applicant or to the address at the location of the encroachment. The permittee agrees that the cost of removing and of restoring the associated right-of-way is the responsibility of the permittee, its successors and assigns.
8. Permittee, its successors and assigns, agree that if the Department determines that motor vehicular safety deficiencies develop as a result of the installation or use of the encroachment, the permittee, its successors and assigns, shall provide and bear the expenses to adjust, relocate, or reconstruct the facilities, add signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department within a reasonable time after receipt of a written notice of such deficiency. The period within which such adjustments, relocations, additions, modifications, or other corrective measures must be completed will be specified in the notice.
9. Where traffic signals are required as a condition of granting the requested permit or are thereafter required to correct motor vehicular safety deficiencies, as determined by the Department, the costs for signal equipment and installation(s) shall be borne by the permittee, its successors and assigns and the Department in its reasonable discretion and only in accordance with the Department's current policy set forth in the Traffic Operations Manual and Permits Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property) shall be the responsibility of the permittee, its successors and assigns, at no expense to the Department.

APPLICATION FOR ENCROACHMENT PERMIT

10. The requested encroachment shall not infringe on the frontage rights of an abutting owner without their written consent as hereinafter described. Each abutting owner shall express their consent, which shall be binding on their successors and assigns, by the submission of a notarized statement as follows, "I (we), _____, hereby consent to the granting of the permit requested by the applicant along Route _____, which permit does affect frontage rights along my (our) adjacent real property." By signature(s) _____, subscribed and sworn by _____, on this date _____.
11. The permit, if approved, is subject to the agreement that it shall not interfere with any similar rights or permit(s) previously granted to any other party, except as otherwise provided by law.
12. Permittee shall include documentation which describes the facilities to be constructed. Permittee, its successors and assigns, agree as a condition of the granting of the permit to construct and maintain any and all permitted facilities or other encroachments in strict accordance with the submitted and approved permit documentation and the policies and procedures of the Department. Permittee, its successors and assigns, shall not use facilities authorized herein in any manner contrary to that prescribed by the approved permit. Only normal usage as contemplated by the parties and by this application and routine maintenance are authorized by the permit.
13. Permittee, its successors and assigns, at all times from the date permitted work is commenced until such time as all permitted facilities or other encroachments are removed from the right-of-way and the right-of-way restored, **shall defend, protect, indemnify and save harmless** the Department from any and all liability claims and demands arising out of the work, encroachment, maintenance, or other undertaking by the permittee, its successors and assigns, related or undertaken pursuant to the granted permit, due to any claimed act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party nor operate to enlarge any liability of the Department beyond that existing at common law or otherwise if this right to indemnity did not exist.
14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.
15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.
16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the expense of the permittee, except where the Department is required by law to pay any or all of those costs.

APPROVED
AUGUST 27, 2021
KENTUCKY TRANSPORTATION CABINET
06-2021-00838

APPLICATION FOR ENCROACHMENT PERMIT

17. Permittee agrees that the authorized permit is personal to the permittee and shall remain in effect until such time as (a) the permittee's rights to the adjoining real property to have benefitted from the requested encroachment have been relinquished, (b) until all permit obligations have been assumed by appropriate successors and assigns, and (c) unless and until a written release from permit obligations has been granted by the Department. The permit and its requirements shall also bind the real property to have benefitted from the requested encroachment to the extent permitted by law. The permit and the related encroachment become the responsibility of the successors and assigns of the permittee and the successors and assigns of each property owner benefitting from the encroachment, or the encroachment may not otherwise permissibly continue to be maintained on the right-of-way. (Does not apply to utility encroachments serving the general public.)
18. If work authorized by the permit is within a highway construction project in the construction phase, it shall be the responsibility of the permittee to make personal contact with the Department's Engineer on the project in order to coordinate all permitted work with the Department's prime contractor on the project.
19. This permit is not intended to, nor shall it, affect, alter or alleviate any requirement imposed upon the permittee, its successors and assigns, by any other agency.
20. Permittee, its successors and assigns, agree to contain and maintain all dirt, mud, and other debris emanating from the encroachment away from the surrounding right-of-way and the travel way of the highway hereafter and at all times that its obligations under the permit remain in effect.
21. Before You Dig: The contractor is instructed to call 1-800-752-6007 to reach KY 811, the One-Call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that the owners of underground facilities are not required to be members of the KY 811 One-Call Before U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Clerk to determine what utility companies have facilities in the area.
22. The undersigned Utility acknowledges ownership and control of the facilities proposed to be installed, modified, or extended by the Applicant/Permittee and agrees to be bound by the requirements and terms of this application and all related documents making up the approved permit, by the Department's Permits Guidance Manual, and by all applicable regulations and statutes in effect on the date of issuance of the permit. This information and application is certified correct to the best knowledge and belief of the undersigned Utility.

NORTHERN KENTUCKY WATER DISTRICT

UTILITY

Steve Broering

NAME (Utility Representative)

Steve Broering

SIGNATURE (Utility Representative)

Engineering Technician

TITLE (Utility Representative)

7-15-2024

DATE



Know what's below. Call before you dig.

To Submit a Locate Request
24 Hours a Day, Seven Days a Week:
Call 811 or 800-752-6007

APPROVED
AUG 27, 2024
KENTUCKY TRANSPORTATION CABINET
06/20/2024 06030

NORTHERN KENTUCKY WATER DISTRICT
SUB-DISTRICT 'O'
WATER MAIN EXTENSION
KENTON COUNTY, KENTUCKY
231591

NORTHERN KENTUCKY WATER DISTRICT OFFICIALS

PRESIDENT / CEO

LINDSEY RECHTIN, CPA

COMMISSIONERS

FRED A. MACKE, JR. (Chair)

JODY R. LANGE (Vice-Chair)

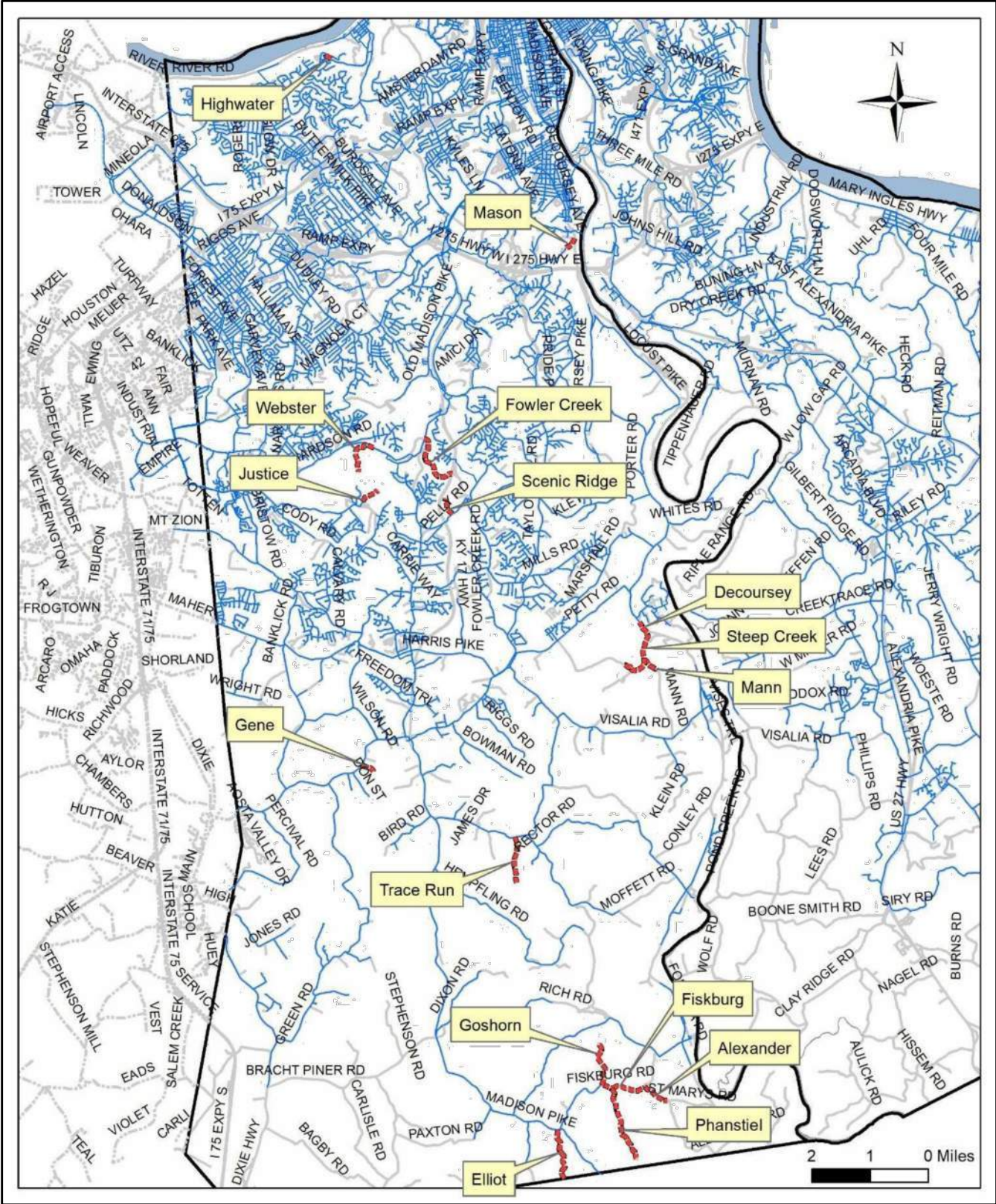
DOUGLAS C. WAGNER (Secretary)

NICHOLAS E. WINNIKE (Treasurer)

GARY E. HOLLAND (Commissioner)

JOSEPH J. KOESTER (Commissioner)

INDEX OF SHEETS		
NO.	DWG NAME	SHEET NAME
1	TTL	TITLE
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3	G-02	DETAILS
4	G-03	DETAILS
5	G-04	DETAILS
6	G-05	EROSION CONTROL DETAILS
7	C-01	HIGHWATER ROAD
8-9	C-02 to C-03	MASON ROAD
10-13	C-04 to C-07	WEBSTER ROAD
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VICINITY MAP

NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS AND DRAWINGS OF THE NORTHERN KENTUCKY WATER DISTRICT FOR THE INSTALLATION OF WATER MAIN AND METER PITS SHALL GOVERN ALL WATER MAIN CONSTRUCTION ITEMS ON THIS PROJECT.

KENTUCKY TRANSPORTATION CABINET SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND KENTON COUNTY SUBDIVISION REGULATIONS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF OUNDARY AND TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A SURVEY BY CT CONSULTANTS, INC.
THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED ON PLANNING AND DEVELOPMENT SERVICES (P.D.S.) G.I.S. MAPPING.

90%
REVIEW

your trusted advisor
consultants

engineers
architects
planners

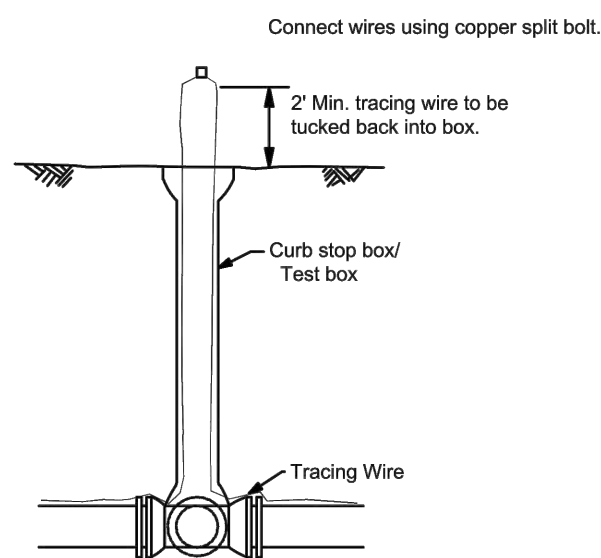
ISSUED FOR:	90% DESIGN	NO	REVISION	DATE
ISSUE DATE:	MAY 2024			
SCALE:	AS SHOWN			
DESIGNED BY:	JCOR			
DRAWN BY:	JCOR			
CHECKED BY:	JSHU			

NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT 'O'
-KENTON COUNTY -

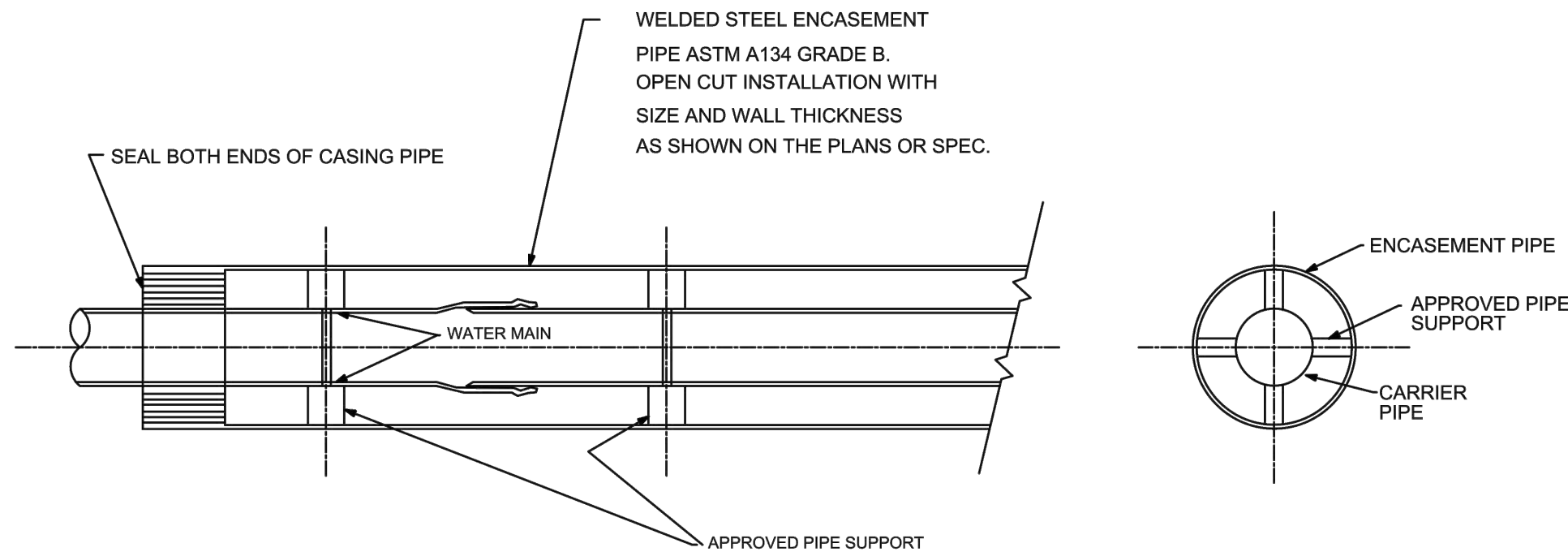
TITLE SHEET

PROJECT NO. 231591	
DISCIPLINE CIVIL	
SHEET NAME TTL	
SHEET 1	OF 48





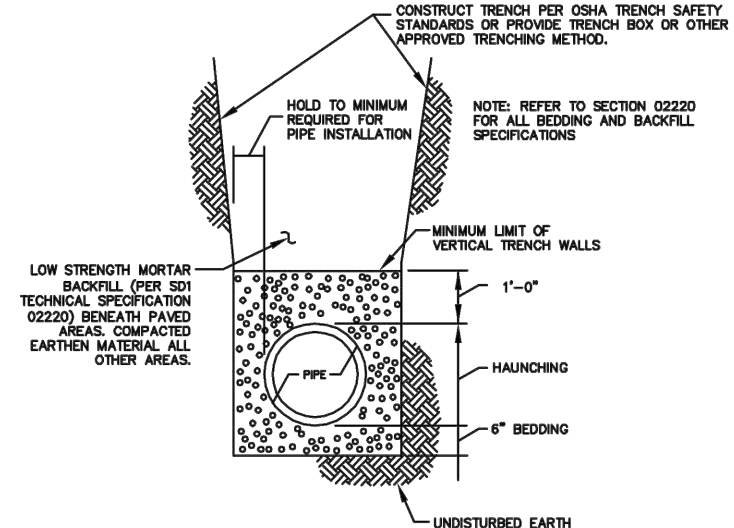
Note: Curb stop box/test box shall not be installed in paved areas



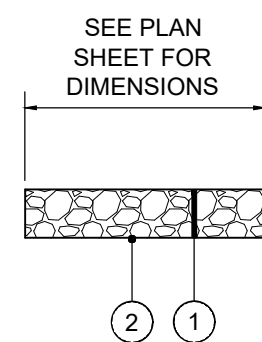
1. All carrier pipe placed in steel casing pipe shall be minimum class 50 ductile iron pipe and conform to the latest edition of AWWA C151.
2. Carrier pipe gaskets shall develop a wedging action between pairs of high-strength stainless steel elements spaced around the gasket (FIELD LOK , FASTGRIP, or approved equal gaskets).

NOTE: CASING PIPE JOINTS SHALL BE SEAM WELDED SO THAT CASING IS WATER TIGHT FROM END TO END.

NO SCALE



STORM TRENCH DETAIL
N.T.S.



ROCK CHANNEL PROTECTION
N.T.S.

- ① ITEM 703 - 12" CHANNEL LINING, CLASS II
- ② NON WOVEN GEOTEXTILE FILTER FABRIC



(SAWCUTTING AND REMOVAL OF EXISTING CONCRETE
SIDEWALK AND EXCAVATION TO PROPOSED
SUBGRADE INCIDENTAL TO SIDEWALK REPLACEMENT)

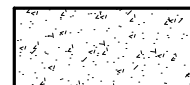


- ① SAWCUT AT NEAREST JOINT AND REMOVE EXISTING CONCRETE PAVEMENT (INCIDENTAL TO ITEM 505)
- ② 1" PREFORMED EXPANSION JOINT MATERIAL (FLEXIBLE FOAM-CERAMAR BY W.R. MEADOWS OR APPROVED EQUAL)
- ③ TOOLED JOINT
- ④ ITEM 505 - 6" CONCRETE DRIVEWAY/APRON (OR MATCH EXISTING WHICHEVER IS GREATER)
- ⑤ COMPACTED SUBGRADE (INCIDENTAL TO ITEM 505 - 6" CONCRETE DRIVEWAY/APRON)
- ⑥ SEAL JOINT WITH GRAY SELF-LEVELING SEALANT (SIKA FLEX OR APPROVED EQUAL)

NOTE

1. ANY YARD AREA DISTURBED BY THE CONSTRUCTION OF THE DRIVEWAY APRON SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH (INCIDENTAL TO CONCRETE DRIVEWAY APRON REPLACEMENT).
2. ALL EXCAVATION REQUIRED FOR THE PLACEMENT OF THE PROPOSED DRIVEWAY SHALL BE INCIDENTAL TO CONCRETE DRIVEWAY REPLACEMENT BID ITEM.

CONCRETE DRIVEWAY REPLACEMENT
N.T.S.



- ① ITEM 302 - 8" CRUSHED STONE BASE, (LESS THAN 7% FINES)
COMPACTED TO 100% (ASTM D698).
- ② CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL
SHEET (G-02))



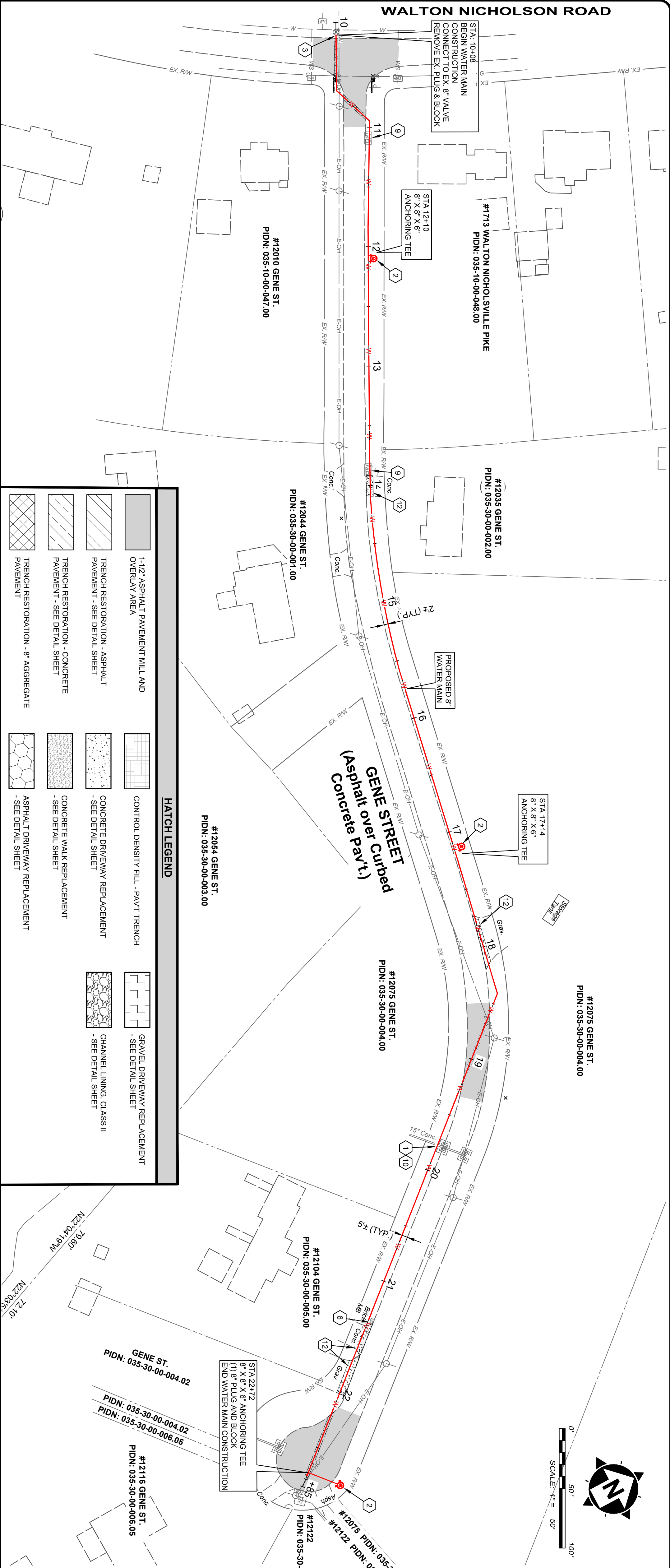
- ① ITEM 402/403 - 1.5" ASPHALT CONCRETE SURFACE COURSE
- ② ITEM 402/403 - 7.75" ASPHALT CONCRETE BASE (OR MATCH EXISTING)
- ③ CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL SHEET (G-02))



- ① ITEM SPL - 8" PORTLAND CEMENT CONCRETE PAVEMENT - PER KENTON COUNTY SUBDIVISION REGULATIONS (OR MATCH EXISTING)
- ② CONTROL DENSITY FILL PER NKWD SPECIFICATIONS (SEE DETAIL SHEET (G-02))

NOTE

GENE STREET HAS AN ADDITIONAL 1.5" ASPHALT OVERLAY ON THE CONCRETE PAVEMENT





**KYTC Division of Maintenance
Permits Branch
District 6**



ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

YOU MUST NOTIFY KYTC BEFORE BEGINNING ANY WORK IN THE RIGHT-OF-WAY. *Failure to alert KYTC of working within the right of way may result in permit revocation.*

Two ways to notify KYTC of your construction start date:

By Email: KYTCD6PERMITS@KY.GOV

**must include permit number and county in subject line*

By Phone: 859-341-2700

**must know permit number and county when calling*

YOU MUST ALSO NOTIFY KYTC UPON COMPLETION OF WORK WITHIN RIGHT-OF-WAY. *Failure to alert KYTC of completion of work may result in withholding release of any associated bonds.*



APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00830

I. SAFETY**A. General Provisions**

- All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, latest edition, Part VI, and safety requirements shall comply with the Permits Manual. Federal law requires that traffic control shall be implemented in accordance with MUTCD standards and KYTC's Standard Specifications for Road and Bridge Construction (KYTC SSRBC) under the supervision of a certified Work Zone Traffic Control Supervisor.
- All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly completed so that hazards adjacent to the traveled way are kept to an absolute minimum.
- No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All signs and flaggers during lane closure shall conform to the MUTCD. The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility. No non-construction equipment or vehicles or office trailers shall be allowed on the right of way during working hours. The right of way shall be left free and clear of equipment, material, and vehicles during non-working hours.
- When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, snow, fog, etc.) without specific permission from the Department.
- Working hours shall be between _____ and _____. Further date and time restrictions are as follows:

B. Explosives

- No explosive devices or explosive material shall be used within state right of way without proper license and approval of the Kentucky Department of Mines and Minerals, Explosive Division.

C. OSHA

- Kentucky Occupational Safety and Health Standards for the construction industry, which has the effect of law, states in part: (Page 52, 1926.651, Specific Excavation Requirements) "Prior to opening an excavation, effort shall be made to determine whether underground installations, (sewer, telephone, water, fuel, electric lines, etc.) will be encountered, and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation."

D. Archaeological

- Whenever materials of an archaeological nature are discovered during the course of construction work or maintenance operations, contact shall be made immediately with the Division of Environmental Analysis, which maintains an archaeologist on staff, or with the Office of the State Archaeologist located at the University of Kentucky. Following this consultation, further action shall be decided on a case-by-case basis by the State Highway Engineer or the Transportation Planning Engineer or their designated representative.

E. Environmental

- If the activity to which this permit related disturbs one acre or more of land, you must obtain KPDES KYR10 permit. Information can be found at <http://water.ky.gov/permitting/Pages/GeneralPermits.aspx>

F. Additional Notes

- The following additional notes apply to this permit:

APPROVED
AUGUST 27, 2021
KENTUCKY TRANSPORTATION
06-2021-00838

II. UTILITIES

- The permittee shall be responsible for any damage to existing utilities. Any utility modifications or relocations within state right of way necessary, as determined by the Department or by the owner of the utility, shall be at the expense of the permittee and subject to the approval of the Department. Operators of underground utilities in right of way shall be members of Kentucky 811.
- All existing manholes and valve boxes shall be adjusted to be flush with finished grade.
- All pavement cuts shall be restored per Kentucky Transportation Cabinet standards and specifications.
- Any excavation within 3' of edge of pavement will require flowable fill as backfill.
- The clear zone requirement shall be met to the extent possible in accordance with the Roadside Design Guide.
- Encasement pipe shall conform to current standards for highway crossings in accordance with the Permits Manual. Pipe encasing shall not be required if the pipe crossing is 2" or less.
- Aerial crossing of utility lines shall have a minimum clearance from the high point of the roadway to the low point of the line of 24' on fully controlled access highways and 18' on non-fully controlled access highways
- Minimum depth for underground Gas and Electric lines is 60" under roadways, ramps, and ditch lines and 42" in all other areas within state right of way. The minimum depth for all other utilities is 42" in all areas.
- When steel plates are installed over an open excavation in the roadway, they must be anchored to the pavement and have asphalt applied to all exposed edges and an MUTCD approved sign noting "Road Plates Ahead." KYTC must be notified of the location, date, time, and permit number associated to BOTH the installation and removal of the plate. Failure to do so may result in permit revocation.
- Utility poles moved for replacement must be removed in their entirety and the hole left behind must be backfilled.
- No poles or anchors shall be installed in a roadside ditch.
- **Utility notes specific to fully-controlled access highways ONLY:**
All work necessary within the right-of-way shall be performed behind a temporary fence erected prior to the start of work. The temporary woven wire fence shall be removed immediately upon completion of work on the right-of-way, and the control of access immediately restored to original condition, in accordance with applicable KYTC SSRBC. All vents, valves, manholes, etc., shall be located outside of the right-of-way. Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints. The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep. Work in interstate right-of-way requires approval from FHWA (Federal Highway Administration).
- Additional notes:

APPROVED
 AUGUST 27, 2024
 KENTUCKY TRANSPORTATION CABINET
 06-2024-00838

III. DRAINAGE

- Negative impacts to existing drainage will be the applicant's responsibility to repair in accordance with KYTC SSRBC.
- All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of installation including bedding and joint seating. Pipe shall not be covered until inspected by the Department and express permission obtained to make backfill. It is the applicant's responsibility to request inspection.
- All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with curbs or in entrance areas or other paved areas within the right-of-way shall not be acceptable.
- All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall conform to the Department specifications and shall be constructed in accordance with the KYTC's Standard Drawings.
- Additional notes:

IV. PAVING

- No bituminous pavement shall be installed within the right of way between November 15 and April 1, nor when the temperature is below 40 degrees Fahrenheit, without the express consent of the Department. No bituminous pavement shall be installed when the underlying course is wet.
- Paving within the right of way shall be as follows:
 - Base (Type): _____, (Thickness) _____
 - Surface Base (Type) _____, (Thickness) _____
 - Finished Surface (Type) _____, (Thickness) _____
- All materials and methods of construction, including base and subgrade preparation, shall be in accordance with KYTC's Standard Specifications. At least 24 hours notice to the Department is required prior to beginning paving operations.
Phone: _____ Name: _____
- Utility companies performing road cuts must restore the pavement to pre-existing condition. Pictures/videos are recommended to ensure proper placement of signs and lane markers that are temporarily removed for paving operations. In some cases, a pre-work inventory may be requested from the Department.
- Existing pavement and shoulder material shall be removed to accommodate the above paving specifications.
- The finished surface of all new pavement within the right of way shall be true to the required slope and grade, uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent highway pavement or as determined by KYTC.
- To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highway pavement and shall slope away from the existing edge of the pavement as specified in drawings.
- Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement, and an edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Department of Highways Standard Specifications (latest edition), shall be applied between new and existing pavements.
- Additional notes:

APPROVED
August 15, 2024
06-2024-000008
KENTUCKY TRANSPORTATION CABINET

V. ENTRANCES

- Encroachment permits issued by KYTC in no way supersede local planning/zoning requirements or subdivision regulations. KYTC has no authority with zoning changes.
- Commercial entrances must be paved to the right-of-way line. Any deviations must be approved by KYTC before installation.
- KYTC can dictate drainage improvement installation during construction or after entrance is at final grade. The permit release does not release the permit applicant from drainage maintenance.
- Signs (ground-mounted and span-mounted), stop bars, crosswalk, and proper lane markings must be in-place before entrance is open for traffic. Lane width modifications must be approved by the Department.
- Guardrail installation must be pre-approved by the Department and installed by a KYTC pre-qualified contractor. Any guardrail that is removed during construction must be returned to the local KYTC maintenance facility.
- Additional notes:

VI. TRAFFIC

- Any contractor performing work within the vicinity of KYTC roadway lighting or traffic signals, must request locates from the KYTC District 6 Traffic section at least one week before of starting work in the right-of-way.
- Applicant must maintain all KYTC Roadway signage that is impacted by the permitted work. In the event that any signs have to be moved, it is the applicant's responsibility to mark the sign's location before removal and to install the original or new sign per KYTC standards for sign installation.
- Any thermoplastic or striping damaged during the encroachment must be restored in a timely manner per KYTC standards. Stopbars, arrows, and crosswalks must be thermoplastic material, paint is not acceptable. This work must be performed by a KYTC pre-qualified contractor.
- Excavating near a signal, lighting pole, or anchoring facility must be done so that it does not impact the structural integrity of the pole. Any work that requires a temporary support or anchoring must receive prior approval.
- If the scope of the permit involves a signal build or rebuild, it is the applicant's responsibility to apply for power service (and pay monthly electrical bill) as well as request electrical inspection from the KYTC District 6 Traffic section. If the signal modifications require timing or phasing changes this must be requested at least two weeks in advance of the signal's turn-on date. KYTC will not take ownership of permitted signals until the electrical inspection is formally accepted and approved.
- Work which impacts traffic loops requires 48-hour notice to the KYTC District 6 Traffic section at 859-341-2700. Accidental damage of a traffic loop must be reported immediately to KYTC District 6's emergency line at 859-620-2738. Any disturbed traffic loops must be replaced in a timely manner. Traffic loops out of operation for more than five working days will subject the applicant to the cancellation of the permit. Loop repair must be performed by a KYTC pre-qualified contractor.
- Additional Notes:

APPROVED
AUGUST 27, 2024
KENTUCKY TRANSPORTATION CABINET
06-2024-00838

VII. SIDEWALK SPECIFICATIONS

- All sidewalk modifications, retrofitting, or installations must meet current ADA guidelines
- A. New Sidewalks**
 - New sidewalk specifications, dimensions, and designs shall be in accordance with KYTC's latest edition of the Standard Specifications, or with the plans provided on the permit if approved by a KYTC D6 Construction or Permits Engineer.
 - All materials and methods of construction, including curing, shall be in accordance with KYTC's latest edition of the Standard Specifications.
- B. Existing Sidewalks**
 - Use of the sidewalk shall not be blocked or obstructed and a usable walkway shall be maintained across the construction area at all times per MUTCD . Sidewalk closures must be approved by the Department before implementation.
 - The location of ADA ramps (truncated domes/tactile warnings/etc.) will need to be field verified by KYTC before installation.
 - Any section of sidewalk that becomes damaged shall be entirely replaced to match existing sections.
 - Additional notes:

VIII. RIGHT OF WAY RESTORATION

- All disturbed portions of the right of way shall be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition). A satisfactory turf, as determined by the Department, shall be established by the permittee prior to release of indemnity. Sodding or seeding shall be as follows:
 - Slopes 3:1 or Less: 90% Kentucky 31 Tall Fescue and 10% White Dutch Clover at 100 lbs/acre
 - Slopes Greater than 3:1: 90% Kentucky 31 Tall Fescue and 10% Partridge Pea at 100 lbs/acre
 - Urban or Residential Areas: 95% Turf Type Fall Fescue Blend and 5% White Dutch Clover at 275 lbs/acre
- Two tons of clean straw mulch per acre of seeding.
- Prior to seeding, the ground shall be prepared in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).
- Substitutes for sod such as artificial turf, rocked mulch, or paved areas may be acceptable if they are aesthetically pleasing and receive prior approval from KYTC.
- All ditch-flow lines and all ditch-side slopes shall be sodded.
- Existing concrete right of way markers shall not be disturbed. If damaged in any way, they shall be entirely replaced by the permittee with new concrete markers to match the original markers, in accordance with Kentucky Department of Highways Standard Drawings. Markers that are entirely removed shall be re-established in the proper locations by the permittee and to the satisfaction of the Department.
- Additional notes:

APPROVED
AUGUST 27, 2023
KENTUCKY TRANSPORTATION CABINET
06-2023-1-00838

IX. RIGHT OF WAY FENCE RESTORATION

- The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to protect against encroachment.
- The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-way line
- The fence materials and design shall meet accepted industry standards and be treated as paintable. Durable finish materials such as vinyl are acceptable.
- The permittee shall be required to construct and maintain the replacement fencing to an acceptable level of functionality and state of repair. All work on the fencing shall be performed by access from the private property. Access from the roadway is not allowed.
- The existing fence shall be removed by permittee and stored at the Department's maintenance storage yard for future reuse by the Department, or the Department shall be reimbursed the cost of fencing removed.
- Right of way monuments shall be installed regardless of if replacement fence is installed or not.
- The control of access shall not be diminished as a result of replacement of the fence.
- Additional notes:

X. MISCELLANEOUS NOTES

NOTICE TO PERMITTEE

THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE CURRENT KYTC STANDARD SPECIFICATIONS AND THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF HIGHWAYS SHALL BE REMOVED BY THE PERMITTEE AT NO EXPENSE TO THE DEPARTMENT OF HIGHWAYS AND SHALL BE REDONE BY THE PERMITTEE TO CONFORM WITH THE APPROVED PLANS.

APPROVED
2022-1
Kentucky Transportation Cabinet

Kenton County Encroachment Permit



LEADING FROM THE FRONTIER TO THE FUTURE

August 26, 2024

Northern Kentucky Water District
Kyle Ryan
2835 Crescent Springs Road
Erlanger, KY 41018

RE: NKWD Sub-District 'O' Water Main Extension;
Project # 231591
Location: Alexander Rd, Gene St, Elliott Rd, Highwater Rd, Pfanstiel Rd, Mann
Rd, Steep Creek Rd, Trace Run Rd, Goshorn Rd, Kenton County

This letter should serve to provide your company permission to perform the work as requested in the attached documents. A permit is granted from Kenton County Public Works contingent upon all work being performed in accordance with the following parameters:

- Kenton County Public Works shall be notified 72 hours before work is scheduled to begin. Individual notice shall be provided for work on each route.
- Maintenance of Traffic for all installations will be in accordance with the MUTCD
- The permit holder shall be responsible for any damage to the ditch line or roadway that occurs from construction activities.
- Construction shall be in conformance the plans and specifications attached to this permit.
- If necessary, the roadway shall be saw cut and the pavement structure shall be restored in kind to match existing field conditions.
- Asphalt patches for restoration work in the roadway shall be extended to the full width of the road.
- See attached for Special Notes for repair.
- Best Management Practices with regard to erosion and sediment control shall be used on all locations.
- The roadway must be kept clean during construction.
- Final grading, seeding, and restoration shall be performed to the satisfaction of the Kenton County Engineer.
- The contractor is advised to contact the B.U.D. one-call system, however, the permit holder should be aware that the underground facilities are not required to be member of the B.U.D. one-call system. It is the responsibility of the



contractor to appropriately coordinate with all potentially impacted utility owners.

Our office will hold this permit for a period of 180 days following formal notice from you of project completion. Upon notice of completion, we will perform an inspection of the project area and notify you of any corrective work.

If you have any questions, please feel free to contact me at 859-392-1920.

Regards,

Scott Hansman
Engineering Services

SPECIAL NOTE FOR ROADWAY REPAIR

The Engineer will determine actual repair locations and dimensions at the time of construction. Place in equal lifts not to exceed 4" of Class 2 Asphalt Base 1.00D PG64-22 to meet existing field conditions. Compact the asphalt base to the compaction required in Section 403.03.10. Perform repair in such a manner that removal and replacement are completed on the same day. Do this work as one of the Contractor's first operations in order to allow further compaction by traffic. Do not mill or place new asphalt surface over repaired asphalt base areas until a minimum of 7 calendar days have elapsed after placement of the asphalt base. After a minimum of 7 calendar days and when the Engineer determines the asphalt base repair areas have sufficiently stabilized, begin milling and/or resurfacing operations.

Mill out area determined by Engineer to a depth of 1" and replace with Class 2 Asphalt Surface 0.38D PG 64-22. Compact the asphalt surface to the compaction required in Section 403.03.10
Perform repair in such a manner that removal and replacement are completed on the same day.

Independence Encroachment Permit

CERTIFICATE OF ENCROACHMENT APPLICATION

Private Entrance

----- *To Be Completed By Applicant* -----
(Please Type or Print)

1. Name: CT Consultants, Inc on behalf of Northern Kentucky Water District

Address: 2835 Crescent Springs Pike

City: Erlanger

State: Kentucky

Zip Code: 41018

Phone Number: 859-426-2713 (Kyle Ryan) (jcornell@ctconsultants.com)

2. Address of Proposed Encroachment: Scenic Ridge Drive - Pelly Road to north end

3. ☐N ☐S ☒E ☐W side of Scenic Ridge Drive

Approximately _____ feet ☐N ☐S ☐E ☐W of See attached plans

4. Is Location of Encroachment on a: ☒City Road

5. Additional Information: proposed installation of 8" water main

----- *For Official Use Only* -----

Approved: ☒Yes ☐No

Conditions:

Heads up when you start
Ken - 859-743-3218

Inspected By: _____ : Date: _____

Approved By: [Signature] : Date: 10/8/24



Independence Vision Statement:

"To become one of America's most livable cities, relentless in the pursuit of an outstanding quality of life for our citizens."

Villa Hills Encroachment Permit

CITY OF VILLA HILLS
ENCROACHMENT PERMIT APPLICATION

Application Date 10-14-2024

Applicant Name Northern Kentucky Water District **Occupational License #** _____

Applicant Address
2835 Crescent Springs Pike

City Erlanger **State** Ky **ZIP** 41018

Contact Person Steve Broering **Phone** 859-426-2728

Type of Encroachment ☒ Street ☐ Sidewalk ☐ Other: _____

Location of Obstruction

Highwater Road from River Heights Lane to #1873

Brief Description of the Work

Extension of an existing 8" water main

Accurate and Complete Description of Encroachment

Construction of 367 ft of 8" water main along Highwater Road from the current water main terminus
across from River Heights Lane to #1873 Highwater Road

Explanation of Need for Encroachment

Due to topography along the roadway in this area and the close proximity of an existing gas
main, the proposed water main alignment needs to be constructed in the pavement area.

Date & Time Activity to Commence TBD **To be Completed** TBD

Cellular Equipment Only Has the proposed work been reviewed and approved by the Kenton County
Municipal Planning and Zoning Commission? ☐ Yes ☐ No

The following must be included:

- ☐ A scaled plot plan showing the location, dimensions, and details of the proposed encroachment.
- ☐ \$100.00 application fee.

The undersigned hereby agrees to indemnify and hold harmless the City of Villa Hills and its agents for any and all injuries or losses resulting from the proposed activity related to this encroachment permit. Approval does not relieve the applicant from obligations and responsibilities to protect traffic and personnel. Other permits may be necessary and it is the Applicant's responsibility to obtain any and all necessary permits related to the activity. The undersigned hereby agrees to comply with the City of Villa Hills Code of Ordinances Chapter 51 (Encroachments).

Steve Broering
APPLICANT

STATE OF Kentucky :SS

COUNTY OF Kenton

Acknowledged, subscribed and sworn to before me this the 14 day of Oct, 2024.

Jamara J. Dargatzis
Notary Public KYNP242606
My Commission Expires: 2/24/25

APPROVED: D.C. Yelton PERMIT NO. 2024-ENC-059