

EXHIBIT B

APPROVALS AND PERMITS

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



<u>Franchises required</u> – None

<u>Plan Review and Permit Status</u> - 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).

<u>Easements and Right-of-Way Status</u> - 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

<u>Plant retirements</u> – There are no retirements as a result of this project.





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

September 7, 2024

Rebecca W. Goodman

Anthony R. Hatton COMMISSIONER

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

3 MA

Division of Water

TH:CC Enclosures

c: CT Consultants Inc

Campbell County Health Department

Division of Plumbing



Northern KY Water District Facility Requirements

Activity ID No.:APE20240011

Page 1 of 4

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:

| 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] |

Northern KY Water District Facility Requirements

Activity ID No.:APE20240011

Page 2 of 4

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:

| 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] |

Northern KY Water District Facility Requirements

Activity ID No.:APE20240011

Page 3 of 4

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:

| 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. [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] |

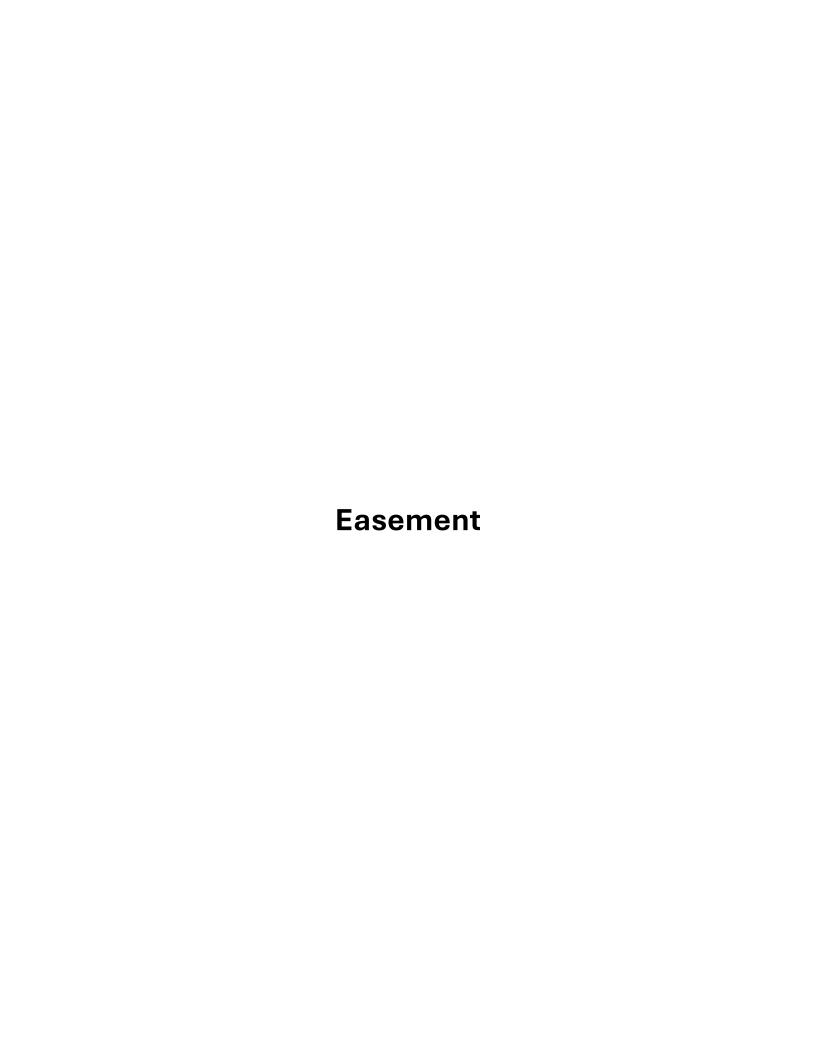
Northern KY Water District Facility Requirements

Activity ID No.:APE20240011

Page 4 of 4

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:

| 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] |



KENTON COUNTY CLERK 10/04/2024 09:23:14 AM EASEMENT

KC 308 438-442 5

CHERYL RUST

24100405900065

\$50.00

214263

PIDN:

073-00-00-012.00

Group No:

IND

Address:

11236 Mann Road, Covington, KY 41015

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 <u>B</u> 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):

Title: Owner

Title: Owner

COMMONWEALTH OF KENTUCKY:

: SS

COUNTY OF KENTON

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



Notary Public, Kentucky at Large Notary ID Number: KYNP 45820

My Commission Expires: 3-2-2029

The foregoing instrument was subscribed and sworn by KATHLEEN POWELL before me this 28th day of August, 2022

> Stephen J. Broering Notary Public, ID KYNP45820 State at Large, Kentucky My Commission Expires on March 2, 20

Notary Public, Kentucky at Large

Notary ID Number: KYNP 45820 My Commission Expires: 3-2-2024

PREPARED WITHOUT EXAMINATION OF TITLE BY:

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

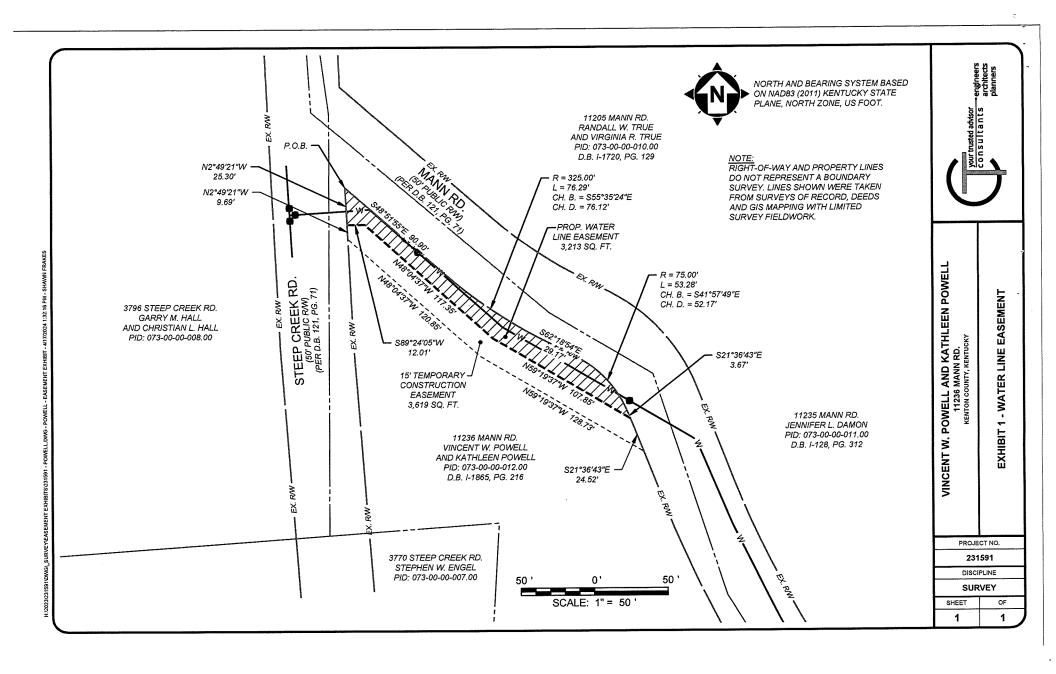
Situated in the City of Covington, County of Kenton, State of Kentucky and being on the West Right of Way of Mann Road, at the intersection with Steep Creek Road, and being part of the lands of Vincent W. Powell, as conveyed by Deed Book I-1865, Page 216, of the Kenton County Kentucky Deed Records, and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



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 | Capitalia Capitalia |
| | | | 0 | 3/ 20/ |

APPROPRIATION CARLES



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,

Linzy Brefeld

D6 Permits Supervisor

Attachments



APPROVINGO TOO LOCATIONS CABITITES

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 | | | | | |
| Туре | 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 X | 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 | | | | |



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



TC 99-1A Rev. 10/2020 Page 1 of 4

ADDITION FOR ENCHAPHE DEPMIT

| | | күт | C KEPT #:06-2024-00 | 696 | |
|---------------------------------|------------------------|------------------------|-------------------------|----------------|--|
| SECTION 1: APPLICANT CONTAC | T INFORMATION | | ··· | | |
| APPLICANT | ADDRESS | | <u> </u> | . . | |
| NORTHERN KY WATER DISTRICT | 2835 CRESCENT | SPRINGS PIKE | | | |
| EMAIL | CITY | | STATE | ZIP | |
| sbroering@nkywater.org | ERLANGER | | KY | 41018 | |
| CONTACT NAME 1 | EMAIL | | PHONE # 859-42 | 6-2728 | |
| Steve Broering | sbroering@nkyv | water.org | CELL # | | |
| CONTACT NAME 2 (if applicable) | EMAIL | | PHONE # | - | |
| | | | CELL# | | |
| SECTION 2: PROPOSED WORK LO | CATION | | | | |
| ADDRESS | CITY | | STATE | ZIP | |
| | MORNING VIEW | 1 | Kentucky | 41063 | |
| COUNTY | ROUTE# | MILE POINT | LONGITUDE (X) | LATITUDE (Y) | |
| KENTON | 2046 | 6.9 - 7.7 | 84D28'30"W | 38D49'08"N | |
| ADDITIONAL LOCATION INFORMAT | | | | | |
| FISKBURG ROAD FROM GOSHORN R | | | | | |
| | FOR K | YTC USE ONLY | | | |
| PERMIT TYPE: Air Right En | trance X Utilitie | s Vegetation F | Removal | | |
| ACCESS: Full Pa | rtial X by Perr | mit LOCATION: | Left Right | Crossing | |
| SECTION 3: GENERAL DESCRIPTI | ON OF WORK | | | | |
| PROPOSED 8" WATER MAIN INSTAL | | BURG ROAD THAT T | TIES INTO EXISTING 8" V | VM ON FISKBURG | |
| AND INCLUDES PROPOSED WATER I | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| THE UNDERSIGNED APPLICANT(s | L boing duly suthorize | d rapracantativa/s\ ar | owner(c) DO AGREE TO A | LL ORIGINAL | |
| UNEDITED TERMS AND CONDITION | | | OWNER(S), DO AGREE TO A | ONIGHAL | |
| | | , p - Q | 7 45 0004 | 11/20 | |
| Stave B SIGNA | roering | | 7-15-2024 | | |
| | | | Deal | 100 X 20 15 | |
| This is not a permit unless and | until the applicant(s) | receives an approved | TC 99-1B from KYTC. Thi | s application | |

shall become void if not approved by the cancellation date. The cancellation date shall be a minimum of ode year from the date the applicant submits their application.



TC 99-1A Rev. 10/2020 Page 2 of 4

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 safe in accordance with the Department's current policy set forth in the Traffic Operations Manual and Permits Manual, and 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 necessary to the Department.

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TC 99-1A Rev. 10/2020 Page 3 of 4

APPLICATION FOR ENCROACHMENT PERMIT

| 10. | • | | | ent shall not infr | _ | | | - | | | | |
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| | assigns, | by | the | submission | of | а | notarized | statement | as | follows, | "I | (we), |
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| | | | | re(s) | | | | | | | | oscribed |
| | and sworn | by | | | | | on t | his date | | | | |
| 11. | | | | subject to the ag , except as othe | | | | erfere with any | simiları | rights or perr | mit(s) pr | eviously |
| 12. | assigns, ag other encre procedures manner co | ree as oachmes of the other | a conditi ents in st e Depart to that p | ocumentation wo ion of the grantication accordance ment. Permitted prescribed by the e maintenance a | ing of t with the, its so e appro | the pe he sub uccess oved p | rmit to constru mitted and app sors and assign permit. Only no | ct and maintai proved permit of s, shall not use rmal usage as o | n any a docume a faciliti | nd all permi ntation and es authorize | tted fac the poli d herei | ilities or cies and n in any |
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| 14. | additional restoration undertaked corrective | action of the n as ore actions | by the po e right-or dered and s to be u | rovision of the permittee, its suc f-way. In the ev d within a reasor ndertaken and t ccessors and ass | cessors ent ad nable ti the De | s and a dition ime, th | assigns, up to a al actions requi ne Department | nd including the fred by the Dep may in its discre | e remov partmei etion ca | val of the end nt under the use those or | croachm permit other ac | nent and are not iditional |
| 15. | law and re | gulatio | n, includ | ind assigns, shall ing those impos is of the U.S. De | ed pur | suant | to Title VI of th | e Civil Right Ac | t of 196 | 4 (42 U.S.C. | § 2000d | |
| 16. | Permittee, | its suc | cessors | and assigns, agr | ee that | t if the | e Department d | etermines it is | necess | ary for the f | acilities | 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.

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TC 99-1A Rev. 10/2020 Page 4 of 4

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.

| UTILITY | - |
|---|--------------------------------|
| Steve Broering | Engineering Technician |
| NAME (Utility Representative) | TITLE (Utility Representative) |
| Steve Broering SIGNATURE (Utility Representative) | 7-15-2024 |
| SIGNATURE (Utility Representative) | DATE |



Know what's **below. Call** before you did

To Submit a Locate Request 24 Hours a May, Seven Days a Meek: Call 811 ox 800-752-6997

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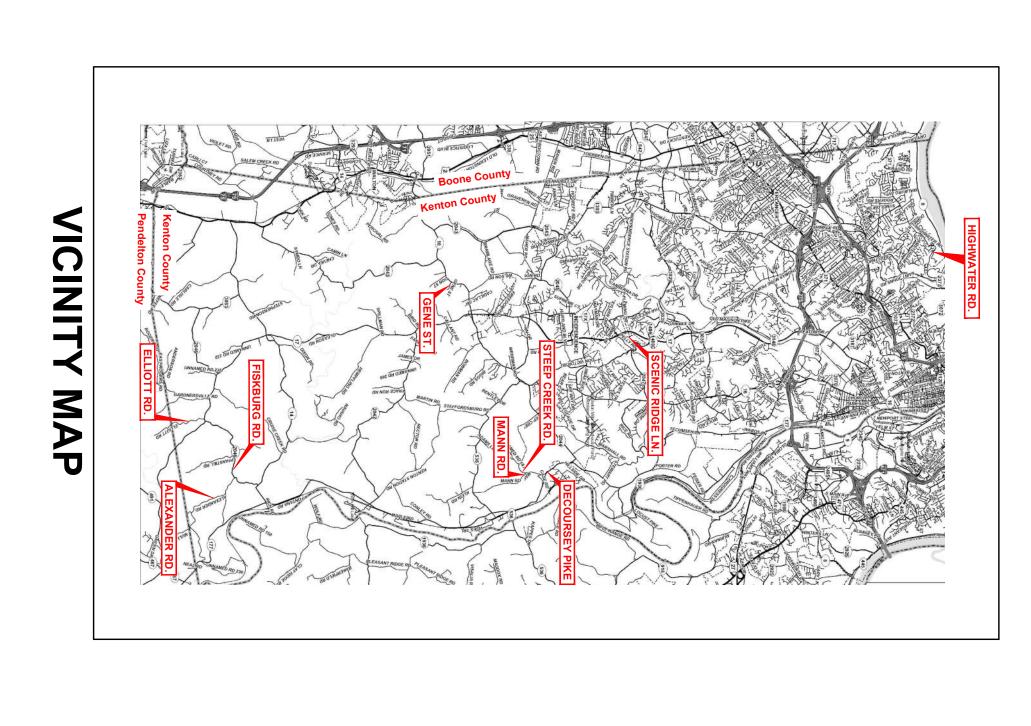
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KENTON COUNTY, KENTUCKY ER MAIN 231591 TENSIC

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

JOSEPH J. KOESTER (Commissioner)

NORTHERN KENTUCKY WATER DISTRICT OFFICIALS



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.

JAMES M. SHUMATE

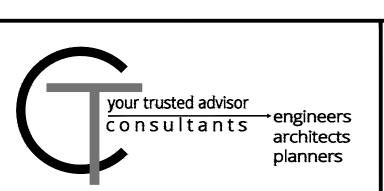
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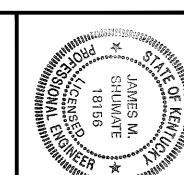
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SUBDISTRICT 'O' -KENTON COUNTY -

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





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DWG NAME

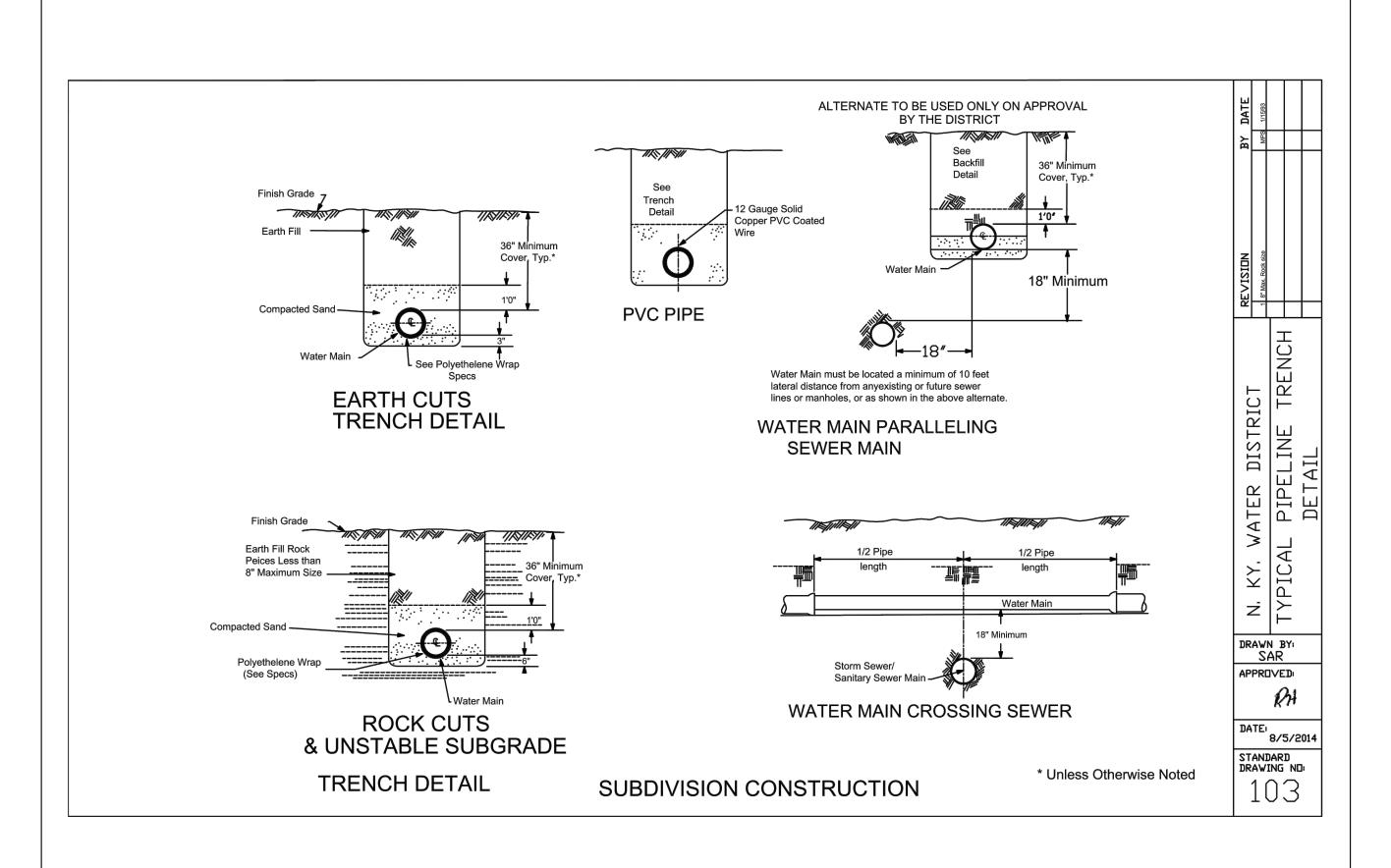
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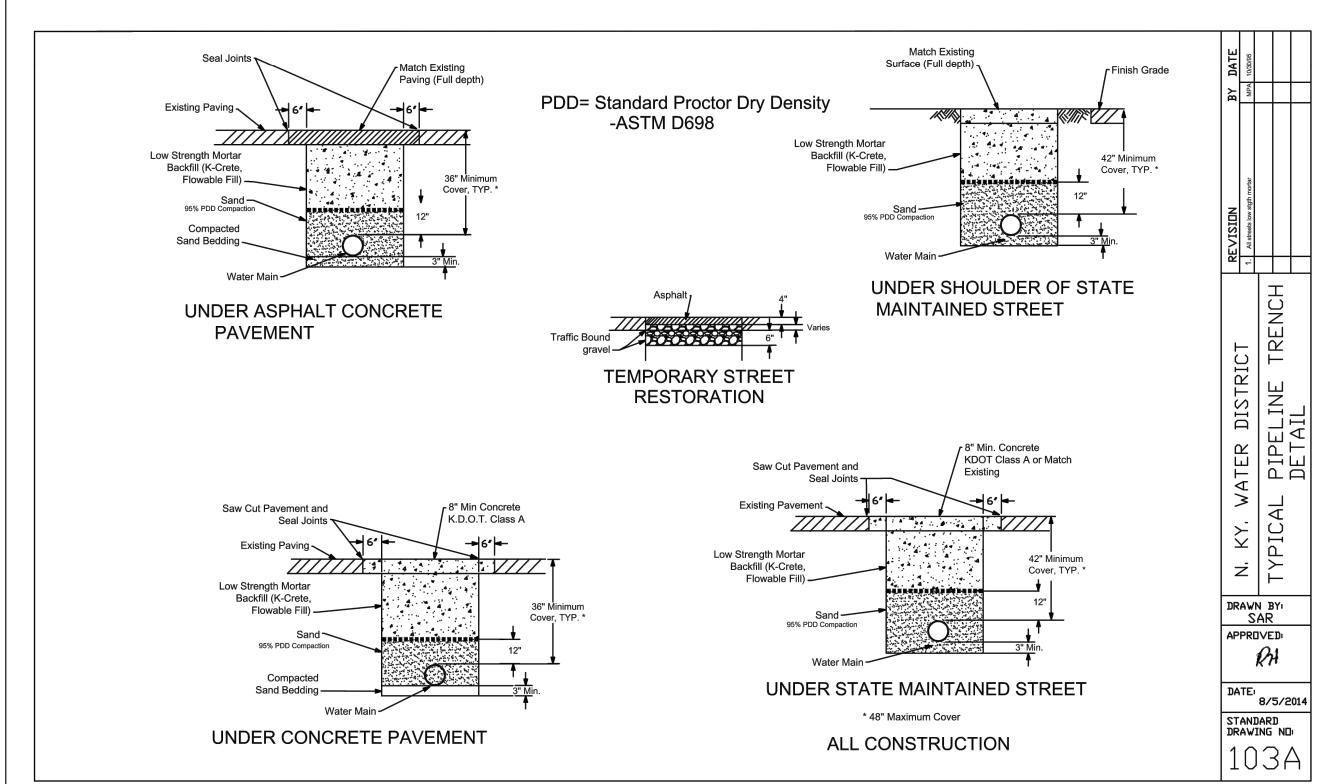
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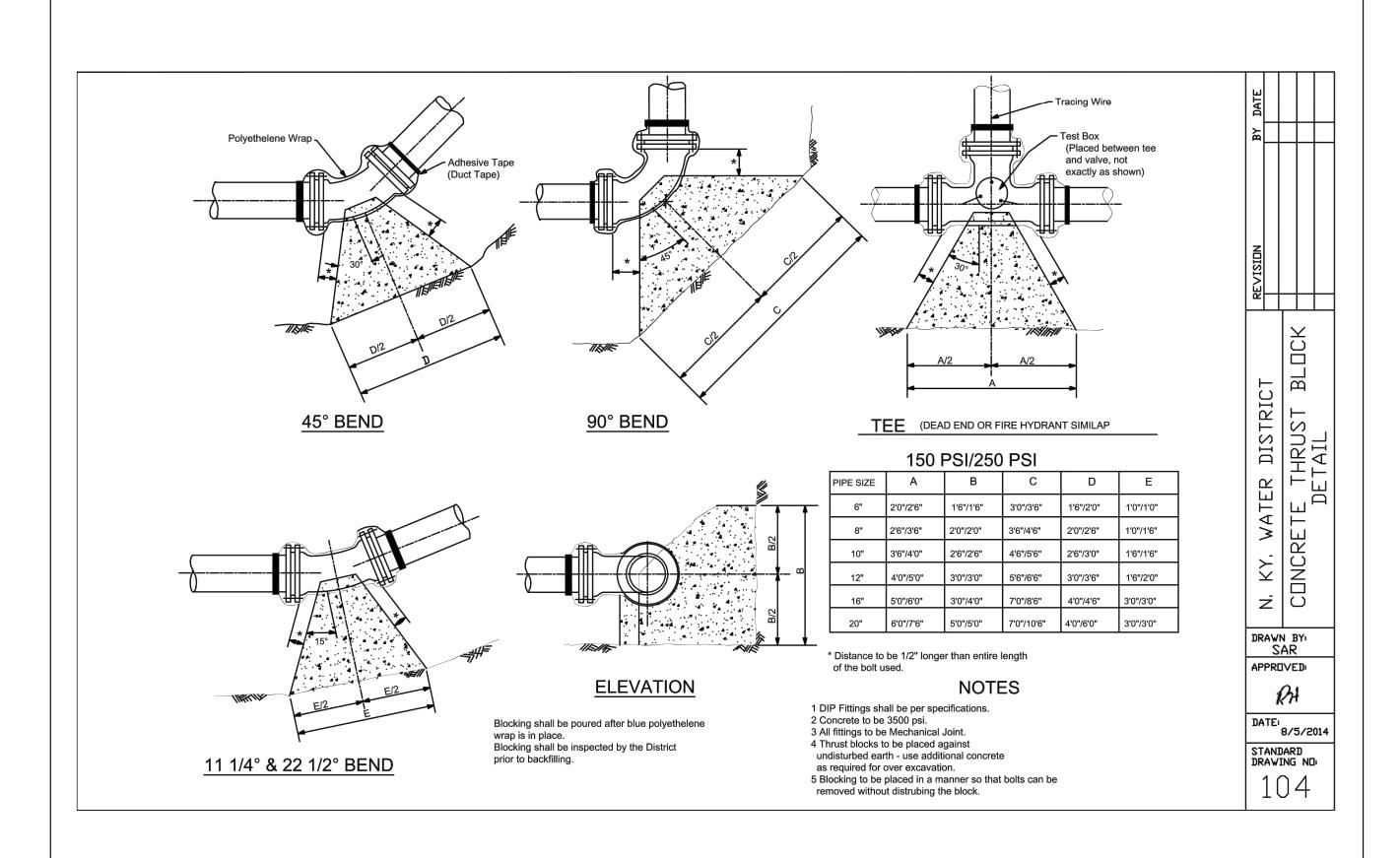
NORTHERN KENTUCKY WATER DISTRICT

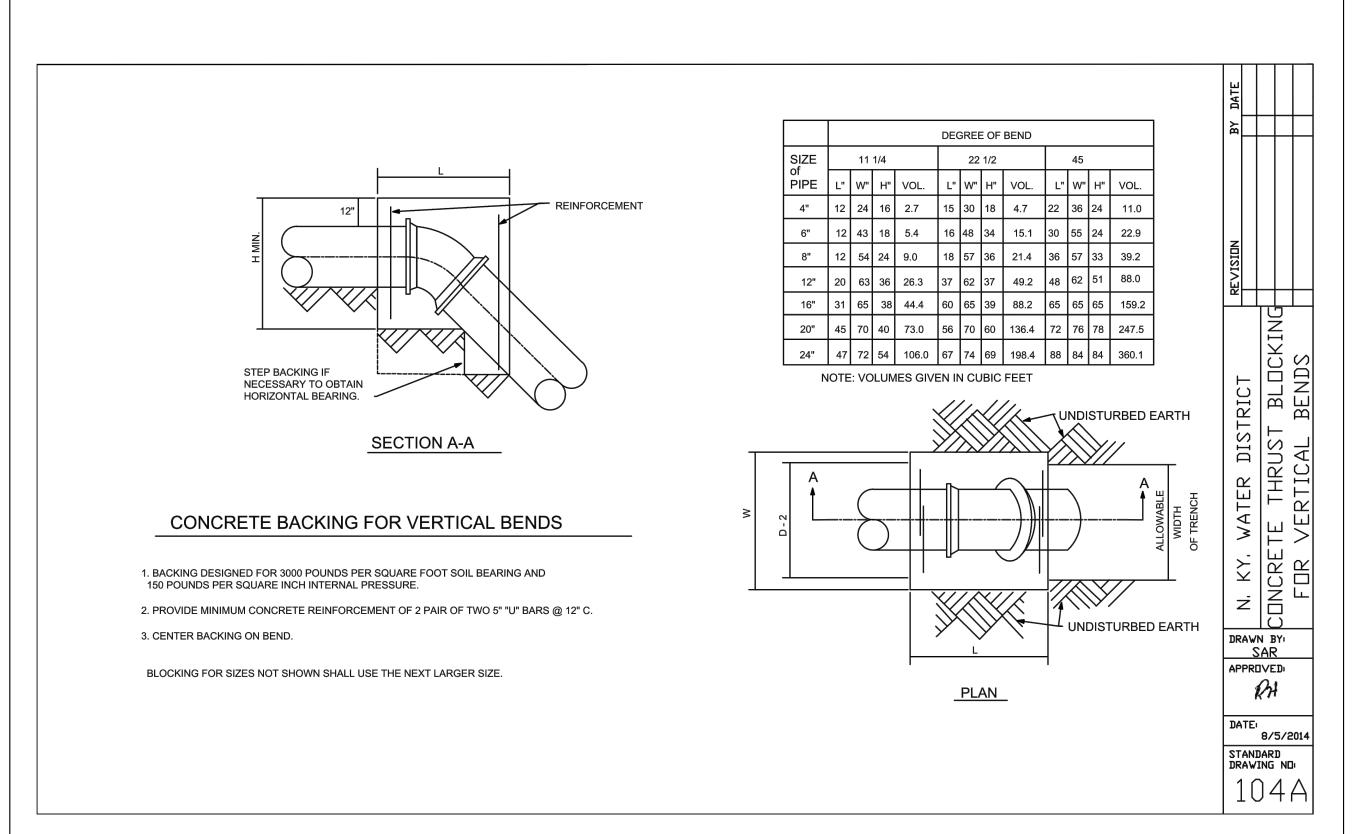
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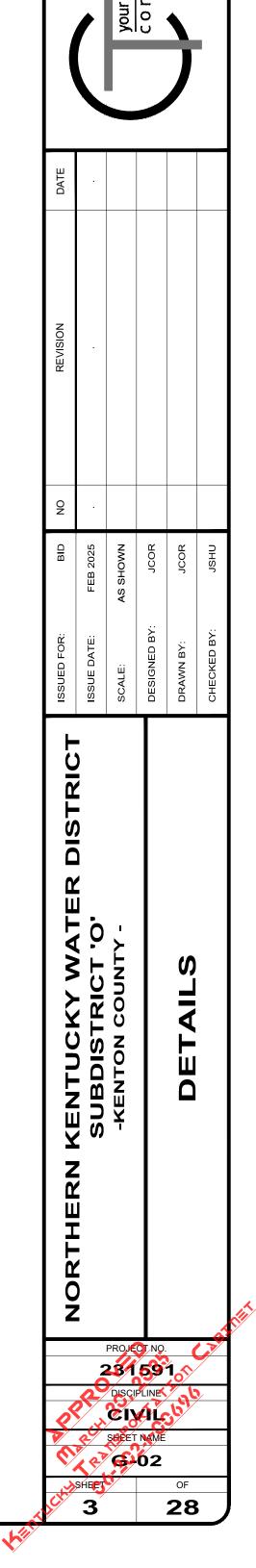
| | TRENCH EXCAVATION SHALL ALSO BE LIMITED TO THE CONTRACTOR'S ABILITY TO PROVIDE TRENCH BOXES FOR SUPPORT. UNDER NO CIRCUMSTANCES SHALL TRENCH EXCAVATION EXCEED LENGTH OF SUPPORT AVAILABLE. | GENERAL TRENCH EXCAVATION NOTES 1. CONTRACTOR IS TO PROVIDE CONSTANT STABLE SUPPORT FOR THE WATER MAIN TRENCH EXCAVATION (is SHEETING, SHORING, ETC.) TO PROTECT ALL ADJACENT EXISTING UTILITIES, STORM SEWER PIPE AND STRUCTURES AND THE EXISTING ROADWAY FROM ANY MOVEMENT. (NO 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. TRENCH SUPPORT FAILURE RESULTING IN ADVERSE IMPACT TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 2. TRENCH EXCAVATION AND OPEN, UNBACKFILLED LENGTH OF WATER MAIN TRENCH SHALL BE LIMITED AS NECESSARY ALONG THE ROADWAY IN ORDER TO PREVENT MOVEMENT OF, OR DAMAGE TO THE SURROUNDING GROUND SURFACE, NEARBY STRUCTURES/INFRASTRUCTURE AND THE EXISTING ROADWAY STRUCTURES/INFRASTRUCTURE AND THE EXISTING ROADWAY | UNIL PROJECT COMPLETION AND HINAL INSPECTION PER KNOT ISPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION. 3. ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND. 4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM PLANNING AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DISTURDED FROM PLANKS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY FORT N.K.W.D. 5. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND EVEN BY THE POLLOWED DURING CONSTRUCTION SHALL STATE, COUNTY AND LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED ANY MITH THE KENTUCKY TRANSPORTATION CABINET AND KENTON COUNTY AND ANY LOCAL MUNICIPALITY, LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS. 9. ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL. 10. ALL CONSTRUCTION WORK SHALL BE IN CONFORMANCE WITH THE RECORD APPROVED BY GAY AND AND SEDIMENT OF ABOVE SHALL BE INCLUDED IN THE BEFORE THE APPROVED BY TOTAL THE BEFORE THE APPROVED BY TOTAL THE BEFORE THE APPROVED BY TOTAL AND WATER POLLUTION ERECOPT DEFARED AND A CALL CONSTRUCTION WATER DEFENDED AND A CALL CONSTRUCTION WATER DEFENDED AND A CALL CONSTRUCTION OF THE BEFORE THE APPROVED BY TOTAL AND WATER POLLUTION ERECOPT TO A CALL CONSTRUCTION OF THE BEFORE THE APPROVED BY TOTAL THE BEFORE THE APPROVE | 1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE NORTHERN KENTUCKY WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS AND THE KENTON COUNTY SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. 2. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS |
|--|--|--|--|---|
| ELECTRIC NOTES 1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY | WATER DISTRICT (NKWD). RE HYDRANTS WITHOUT SERVICE LINES SHALL BE S AND REGULATIONS OF | 1. ALL STORM AND SANITARY ITEMS SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND DETAILS FROM SD1. METAL PIPE MATERIALS SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON THESE PLANS. 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. 3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE PRECONSTRUCTION MEETING. 4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED TAPPER BY SD1. 1. ALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND | | 1. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE 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 BE SHALL PRACTICE CARE DURING THE GRADING AND TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE. |
| 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 TO AND INCLUDING THE METER VAULT AND METER SETTING. ALL SERVICE LINE MATERIAL WILL BE SUPPLIED BY NKWD. PAID EACH (EA). THE CONTRACTOR SHALL COORDINATE WITH THE NORTHERN KENTUCKY WATER DISTRICT FOR FIELD INSPECTIONS. ON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL KYTC, COUNTY AND/OR LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR DEWATERING THE EXISTING MAIN SHALL BE INCIDENTAL TO THE WAITE MAIN. THE COST OF TESTING THE MAIN, TEMPORARY FLUSHING DEVICES, TEMPORARY PLUG AND BLOCKS, AND ABANDONING THE EXISTING MAIN SHALL BE INCIDENTAL TO THE PROJECT. ALL PAVEMENT SHALL COMPORM TO THE LATEST EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND KENTON COUNTY SUBDIVISION REGULATIONS. | (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) AND SEWER MANHOLES, MEASURED FROM THE OUTSIDE DIAMETER TO OUTSIDE, MUST BE MAINTAINED UNLESS A VARIANCE IS GRANTED FROM THE D.O.W. 16. ALL NEW WATER SERVICES SHALL BE 3/4" (OR MATCH EXISTING, AS INDICATED ON THE PLANS) TYPE K COPPER WITH 5/8" OR 2" WATER METERS (UNLESS OTHERWISE NOTED) MATERIAL PROVIDED BY THE NORTHERN KENTUCKY WATER DISTRICT. ALL RECONNECTED WATER SERVICES SHALL BE 3/4" OR 2" TYPE K COPPER. 17. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY WITH KYTC, KENTON COUTY AND/OR ANY LOCAL MUNICIPALITY. TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" REQUIREMENTS. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. | · TOP AN TAN TOP MURCHAS THE | BY N.K.W. D. AND THE PROPERTY OWNER ALONG WITH COUNTY OR STATE WHEN REQUIRED. 3. THE UTILITY INFORMATION SHOWN ON THE PLANS IS BASED ON INFORMATION RECEIVED FROM OTHERS AND HAS NOT BEEN VERIFIED BY THE ENGINEER OR OWNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF THE UTILITIES AND TO COORDINATE ANY IMPACT CAUSED BY THE PROPOSED WORK WITH ALL UTILITY OWNERS AND/OR THEIR CONTRACTORS. THE CONTRACTOR WILL BE REQUIRED TO DIG TEST HOLES AT ALL UTILITY CROSSINGS TO LOCATE THE UTILITY AS TO BOTH LOCATION AND ELEVATION OF THE PROPOSED WATER MAIL TO AVOID THE UTILITY. COST OF ALL THE ABOVE SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE. 4. UNLESS SPECIFICALLY INSTRUCTED OTHERWISE. RETURN ALL REMOVED WATER EQUIPMENT INCLUDING, FIRE HYDRANTS, VALVES, AND WATER WATER CONTRACT PRICE. 5. WATERLINES CROSSING UNDER OR OVER SEWER LINES (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" AND ONE FULL LENGTH OF PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED. 6. CONTRACTOR IS RESPONSIBLE FOR KEEPING FIELD NOTES THAT PROVIDE SUFFICIENT DATA FOR PREPARING "RECORD DRAWNINGS" UPON COMPLETION OF CONSTRUCTION. 7. ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR OURSTRUCTS STANDARD DRAWINGS. | ŠÖ ÖÄÖ≚QÖMÖÏ ▮ |
| TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET G-05 TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET G-05 TRENCH RESTORATION - 8" AGGREGATE PAVEMENT - SEE DETAIL SHEET G-05 CONCRETE DRIVEWAY REPLACEMENT - SEE DETAIL SHEET G-05 CONCRETE WALK REPLACEMENT - SEE DETAIL SHEET G-05 ASPHALT DRIVEWAY REPLACEMENT - SEE DETAIL SHEET G-05 GRAVEL DRIVEWAY REPLACEMENT - SEE DETAIL SHEET G-05 CHANNEL LINING, CLASS II - SEE DETAIL SHEET G-05 | HATCH LEGEND 1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA - SEE DETAIL SHEET G-05 | EROSION CONTROL LEGEND (IP) INLET PROTECTION (SEE DETAIL) (SF) SILT FENCE (SEE DETAIL) | 2. ALL UNBACKFILLED TRENCH EXCAVATION SHALL BE SECURELY PLATED AT THE END OF EACH WORK DAY AND DURING PERIODS OF INACTIVITY. 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT. 4. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE STATE, COUNTY AND/OR LOCAL POLICE DEPARTMENTS. AT ALL TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS. 5. RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR PROPERTY AT ALL TIMES. 6. EACH DRIVEWAY SHALL BE ACCESSIBLE WHENEVER POSSIBLE. WHEN PORTLAND CEMENT CONCRETTE CONSTRUCTION AFFECTS A DRIVEWAY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS 24 HOURS IN ADVANCE AND ADVISE THEM TO FIND ALTERNATIVE PARKING FOR A PERIOD OF ATLEAST TO CALENDAR DAYS AFTER THE POUR. ALTERNATIVE PARKING SHALL INCLUDE "ON STREET" PARKING WITH ACCESS TO THE PROPERTY. TEMPORARY BRIDGES, RAILINGS ETC. WILL BE NECESSARY IN ORDER TO CROSS FORMED CURB LINES, ETC. WILL BECOME NECESSARY IN ORDER TO CROSS FORMED CURB LINES, EXCAVATED AREAS BEHIND CURB LINES AND WALKWAYS, ETC. | MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF KTC STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL TRAFFIC (INCLUDING ACCESS TO RESIDENCES WITHIN CONSTRUCTION LIMITS) AT ALL TIMES UTILIZING KTC STANDARD DRAWING TTC-100-05 "SINGLE LANE CLOSURE ON TWO-LANE HIGHWAY". THE CONTRACTOR SHALL PROVIDE SUFFICIENT SIGN, WARNING LIGHTS, BARRICADES, OR OTHER NECESSARY DEVICES MAKE THE SITE SAFE TO THE TRAVELING PUBLIC. LENGTH OF SINGLE LANE CLOSURES WILL BE HELD TO DISTANCES NOT ADVERSELY AFFECTING VEHICLE SAFETY. |
| EXISTING SA EXISTING SA EXISTING SA EXISTING SA EXISTING SA EXISTING SA EXISTING THE EXISTING THE EXISTING WA EXISTING BU EXISTING SA EXI | 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 GAS BOX EXISTING GAS BOY WIRE / ANCHOR | — — — UD/DSC — — UD/DSC — PROPOSED UND S — S — S — PROPOSED UND FM — FM — FM — PROPOSED SAN PROPOSED FIBE X — X — X — X — X — X — PROPOSED FIBE EXISTING FLAGPOLE EXISTING CABLE PEDESTAL EXISTING ELECTRIC PEDESTAL | EXISTING FOOF DRAIN EXISTING SANITARY SEWER EXISTING FIBER OPTICS EXISTING GONTOURS (MAJOR) EXISTING GONTOURS (MINOR) EXISTING FROPERTY LINE EXISTING GONTOURS (MINOR) EXISTING FROPERTY LINE EXISTING FROPOSED GAS LINE EXISTING FROPOSED LINE EXISTING FROPOS | SYMBOL LEGEND ———————————————————————————————————— |
| NORTHERN KENTUCKY SUBDISTRIC -KENTON COL | WATER DISTRICT CT 'O' JNTY - | SSUED FOR: BID NO REVISION | DATE your trusted advisor c o n s u l t a n t s architects planners | 9) |

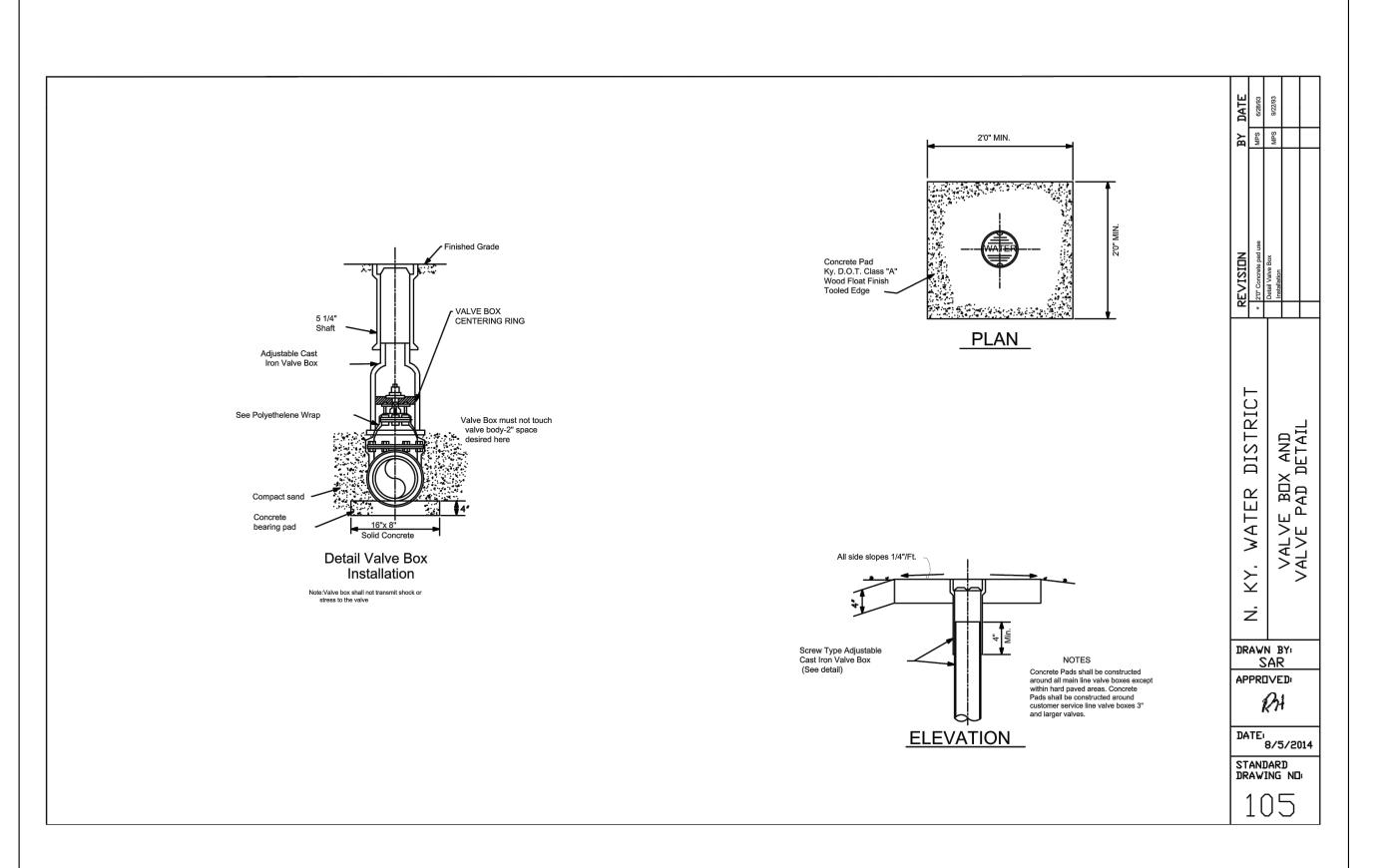


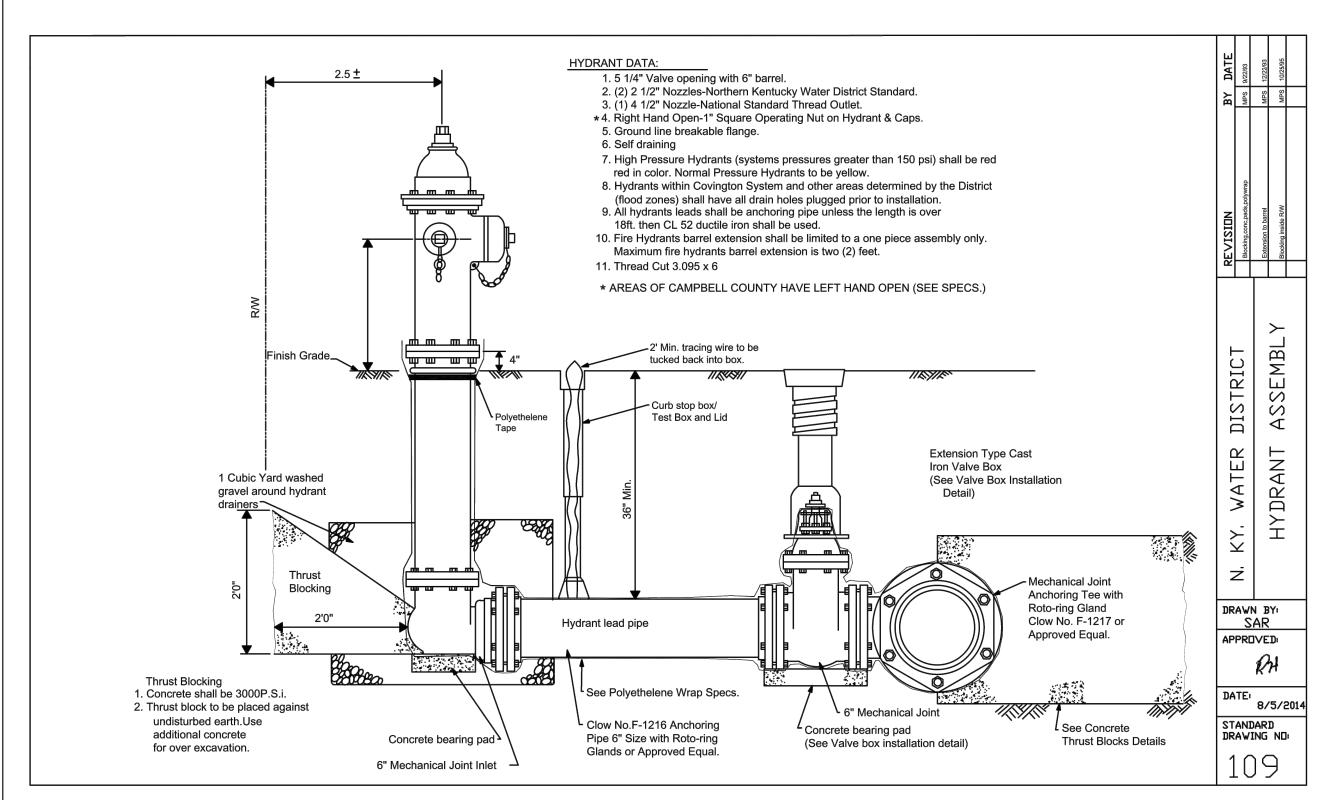


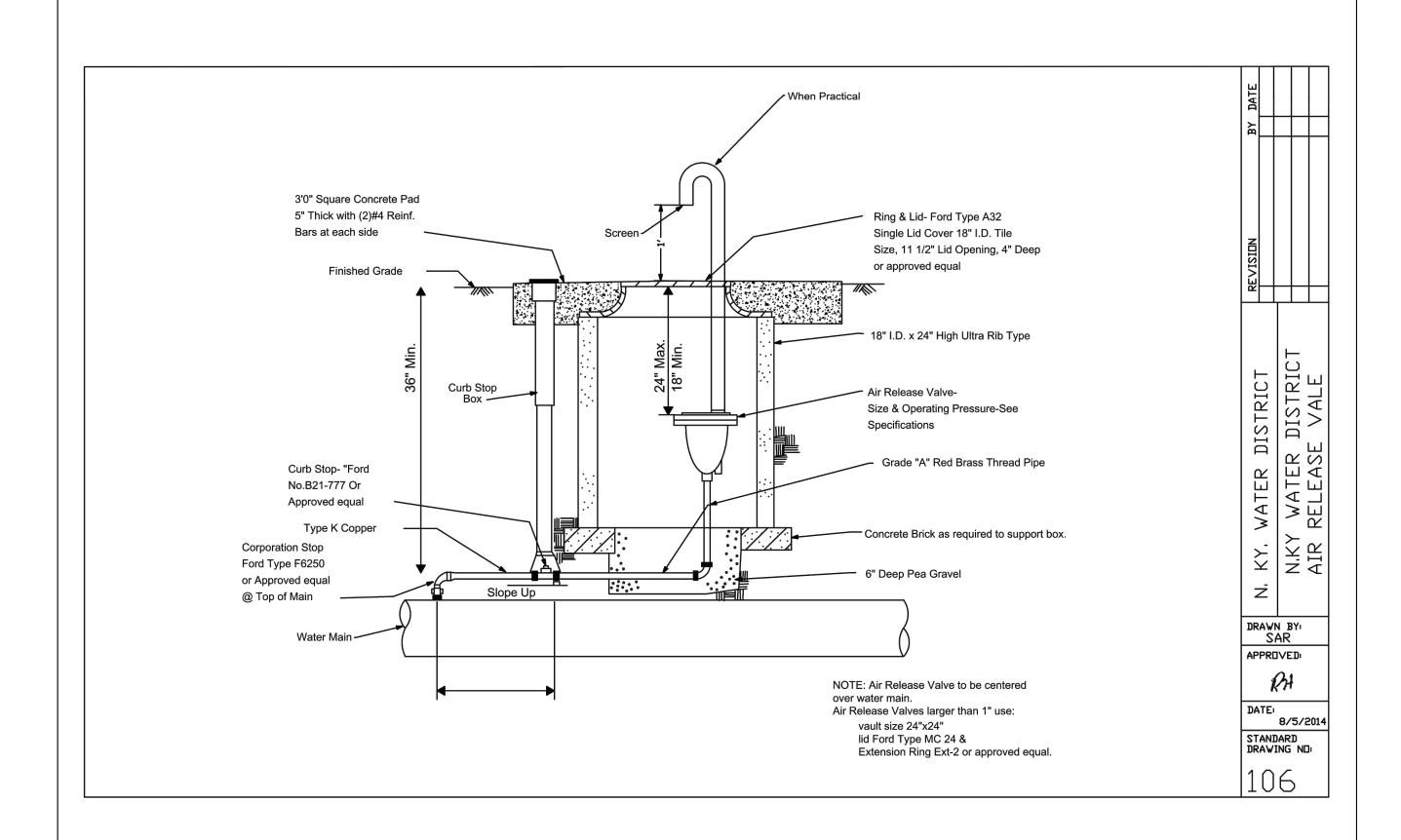


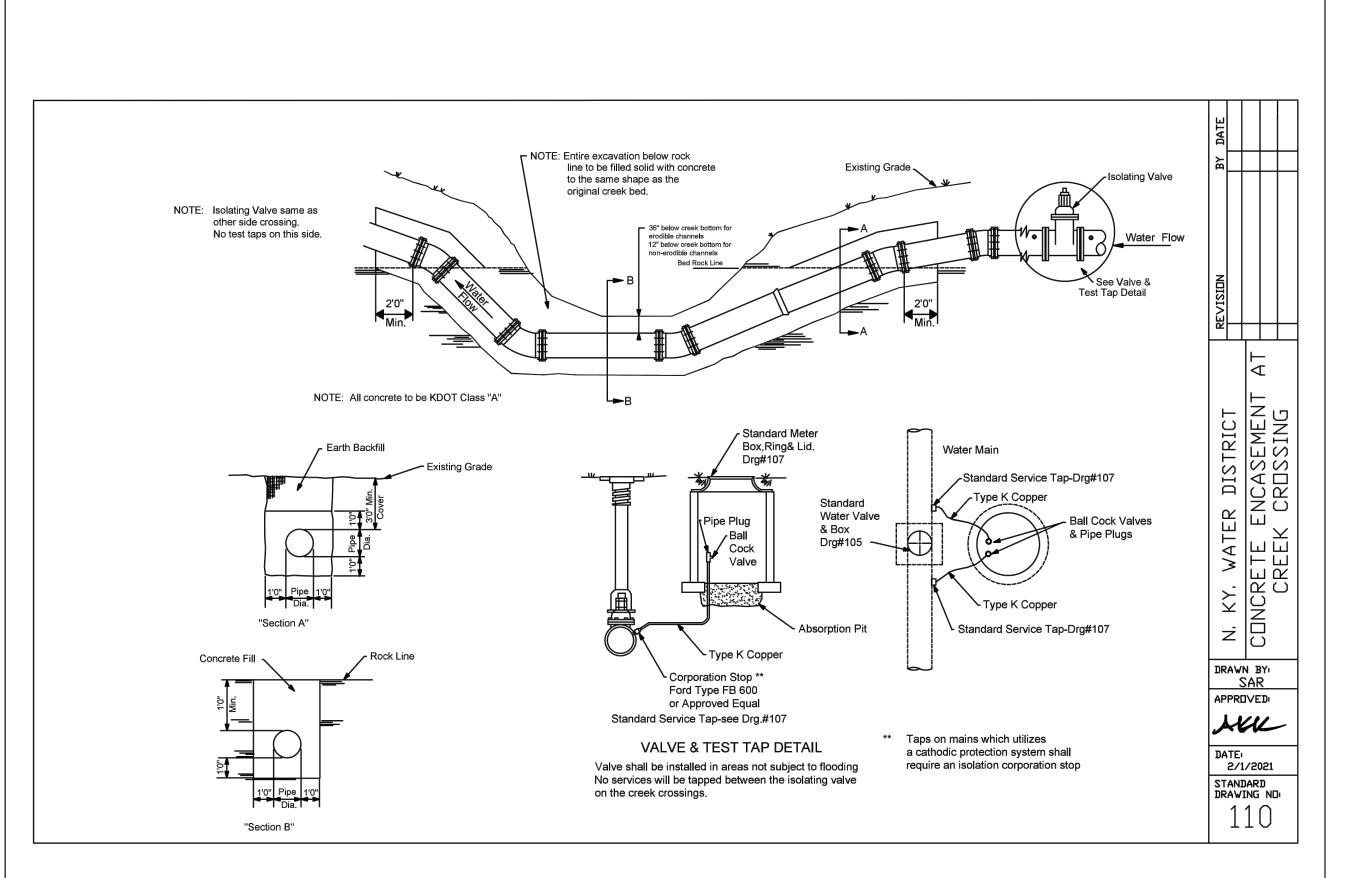


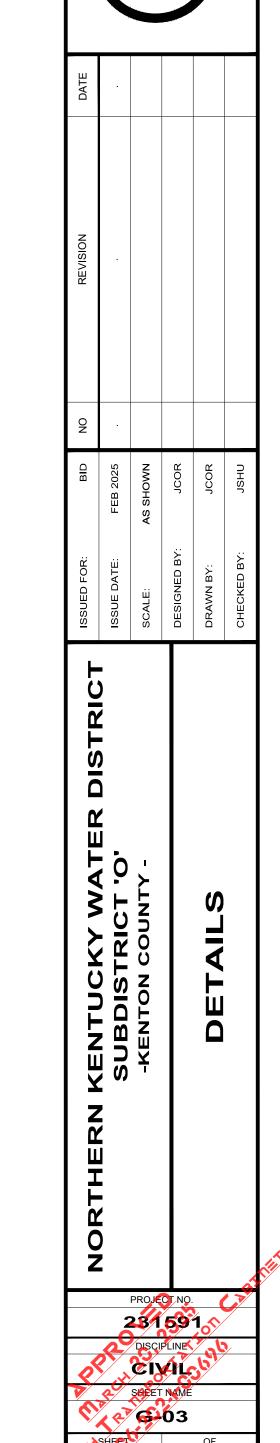




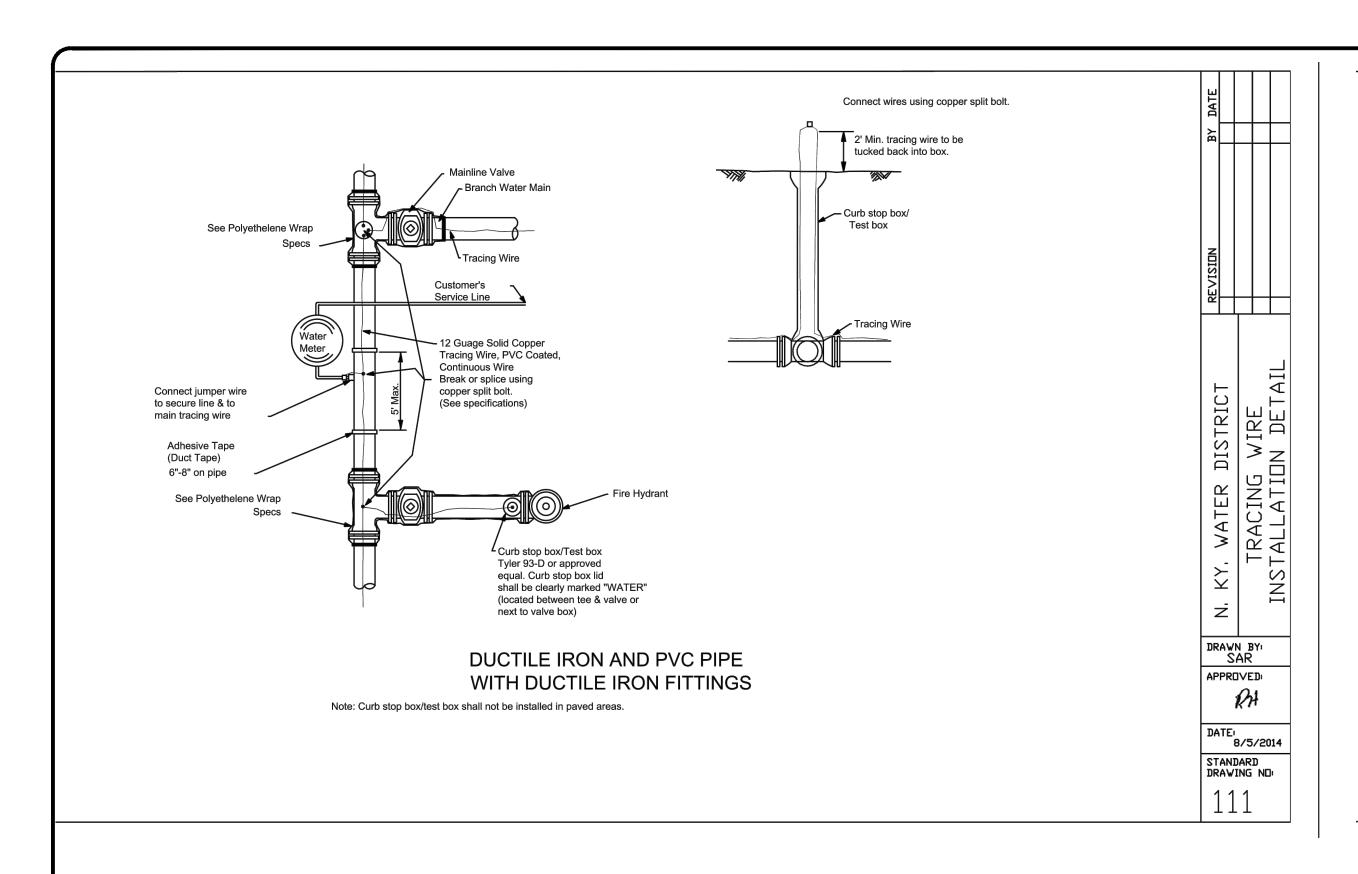


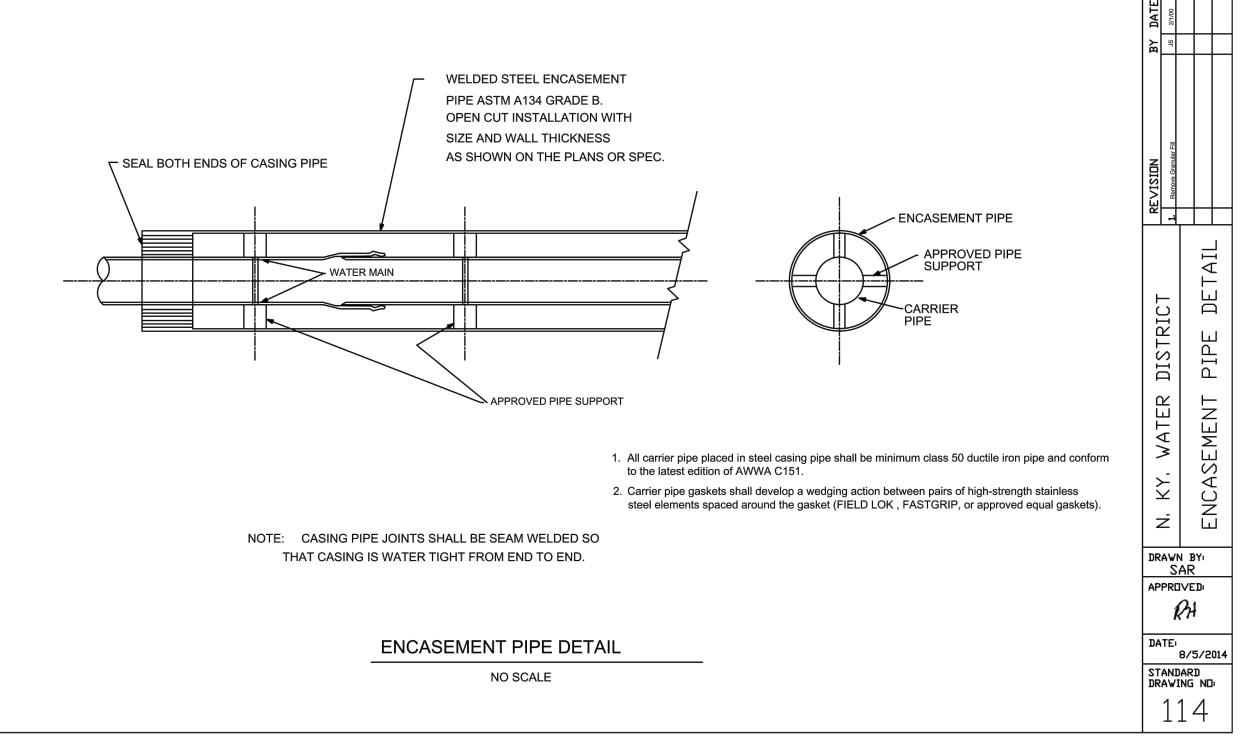


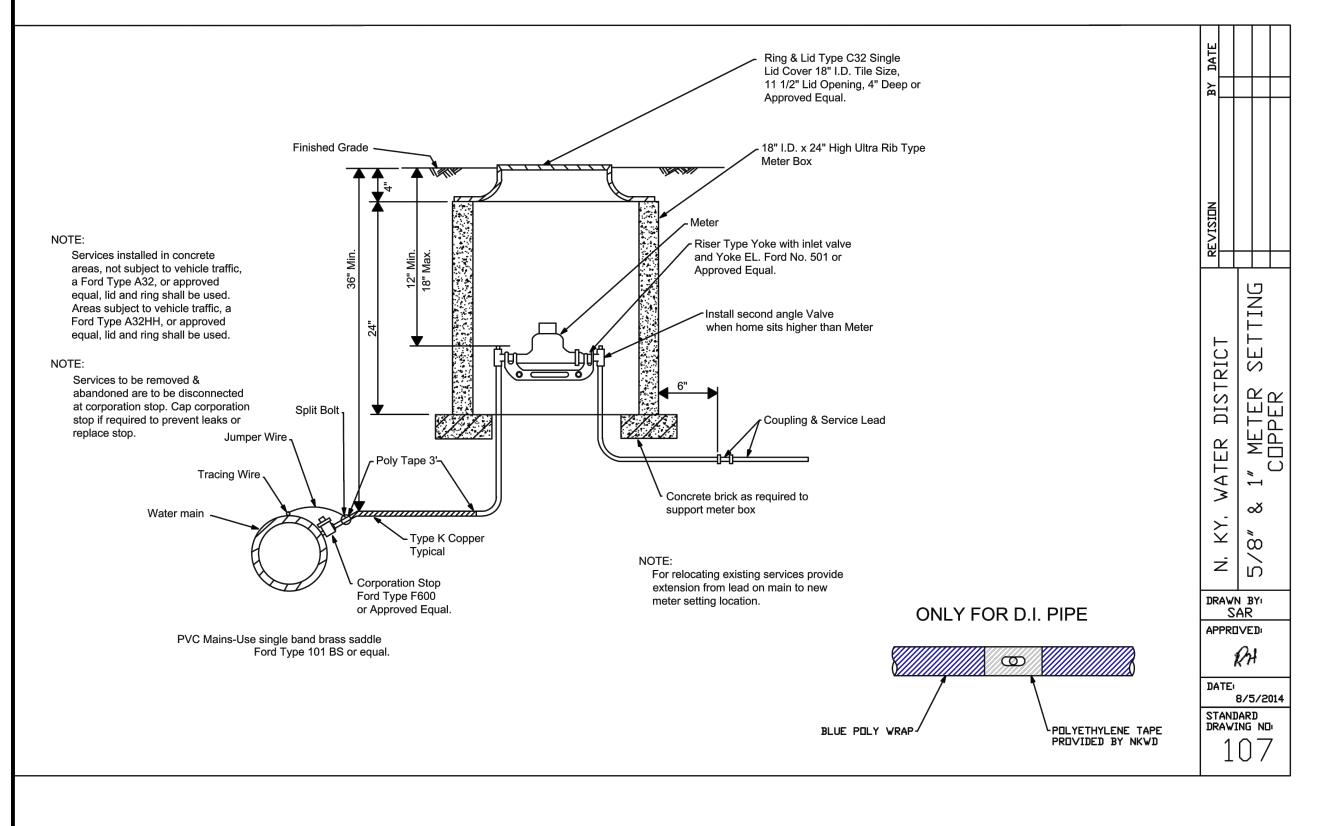


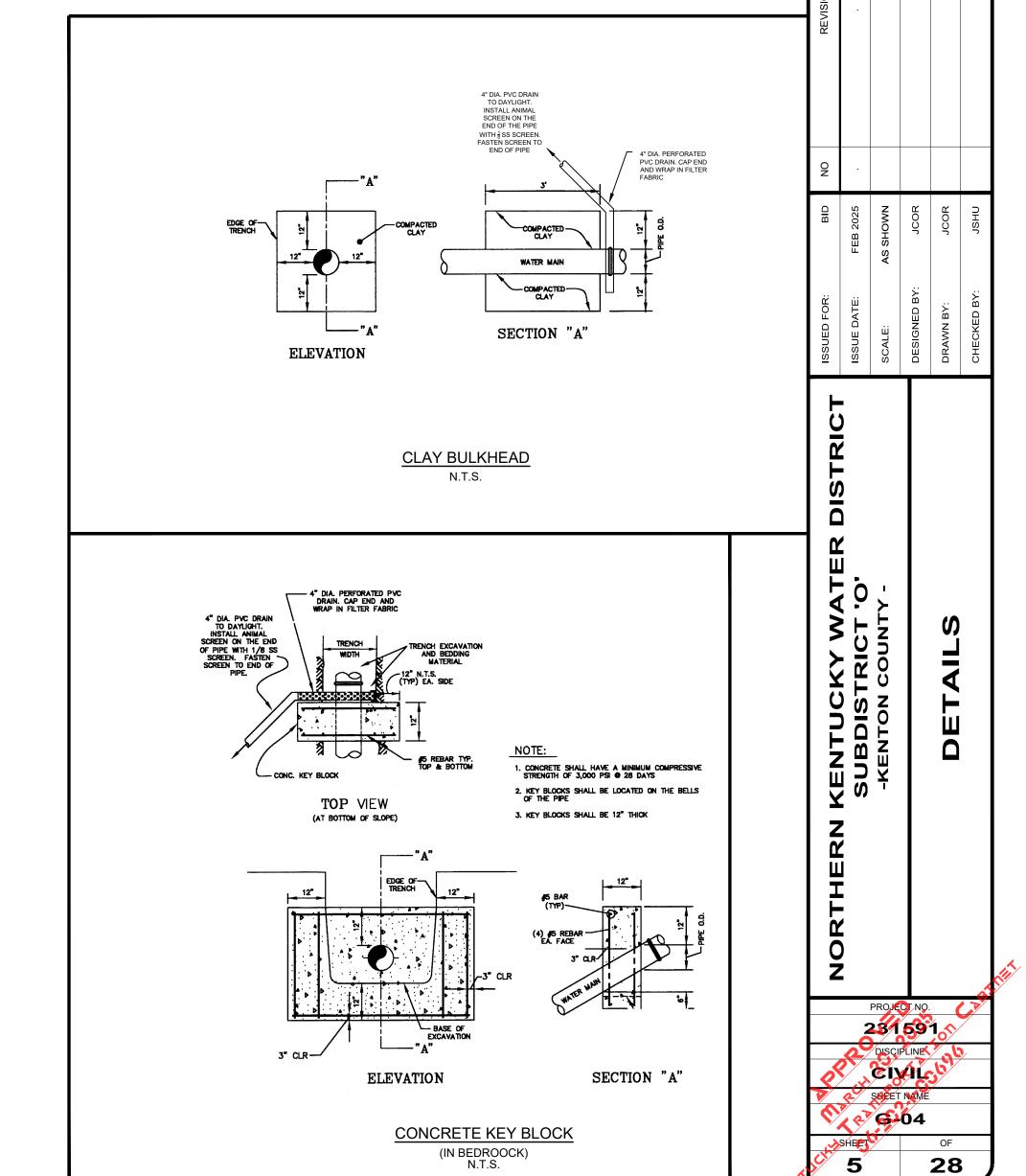


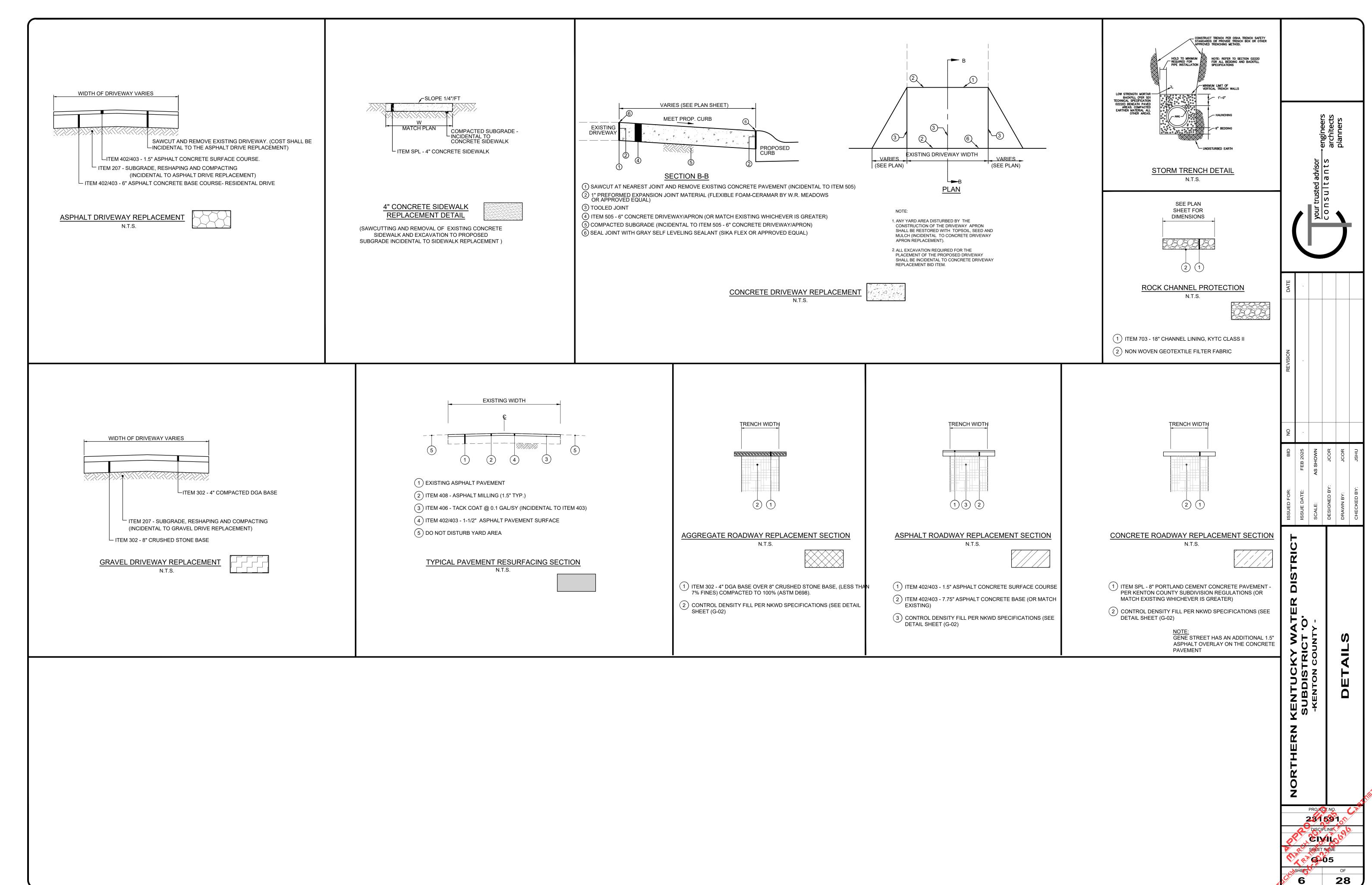
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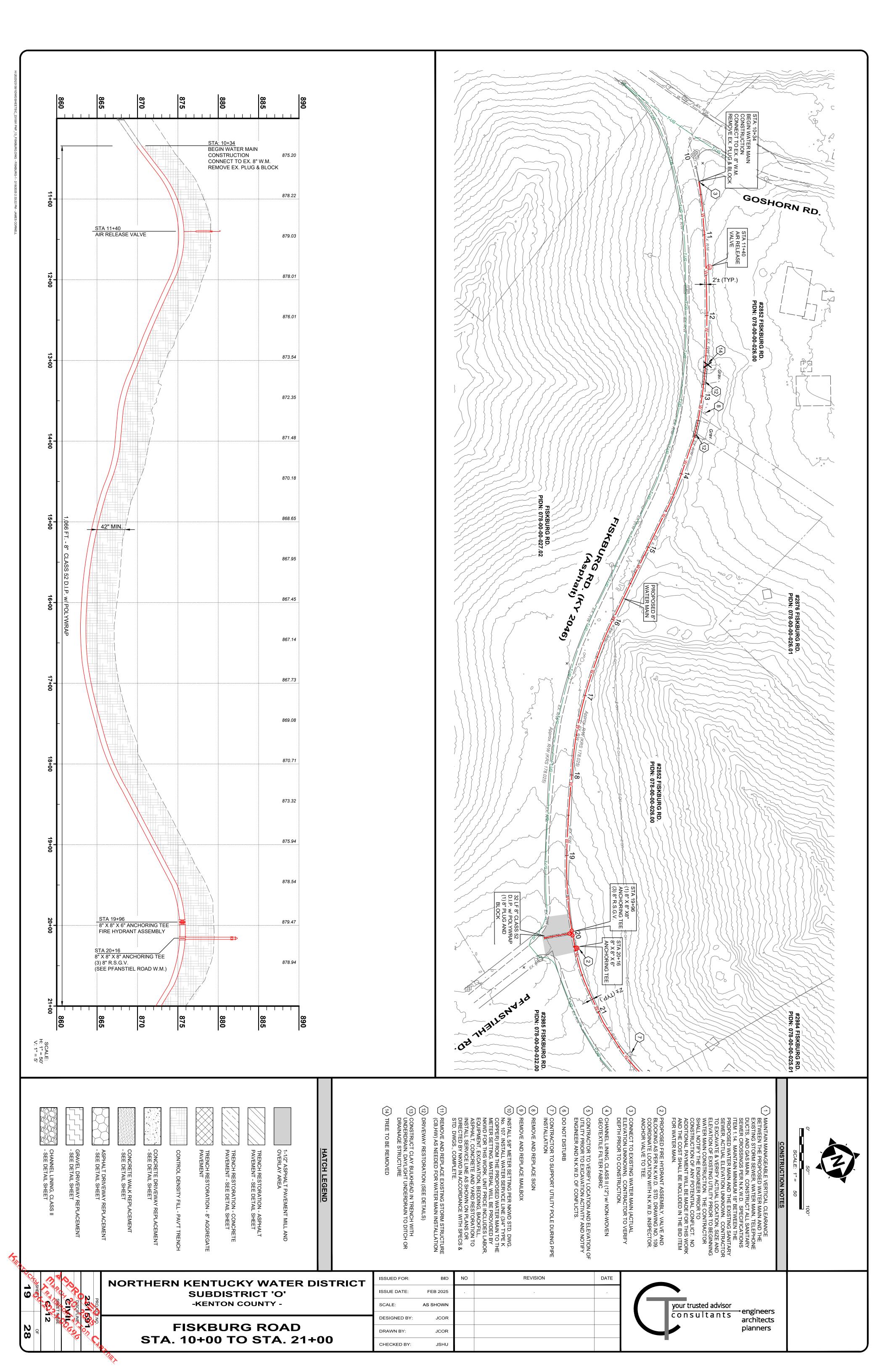


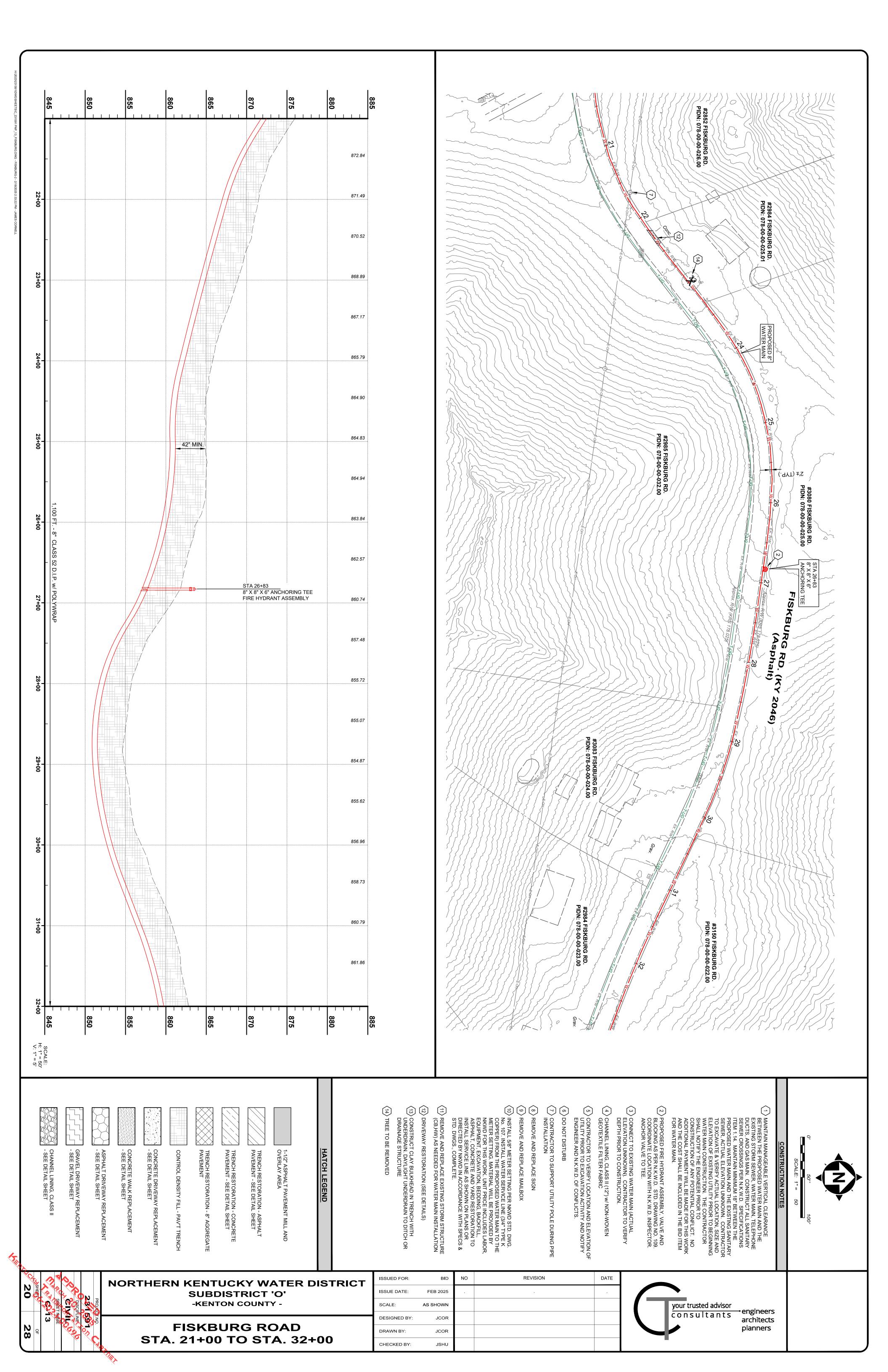


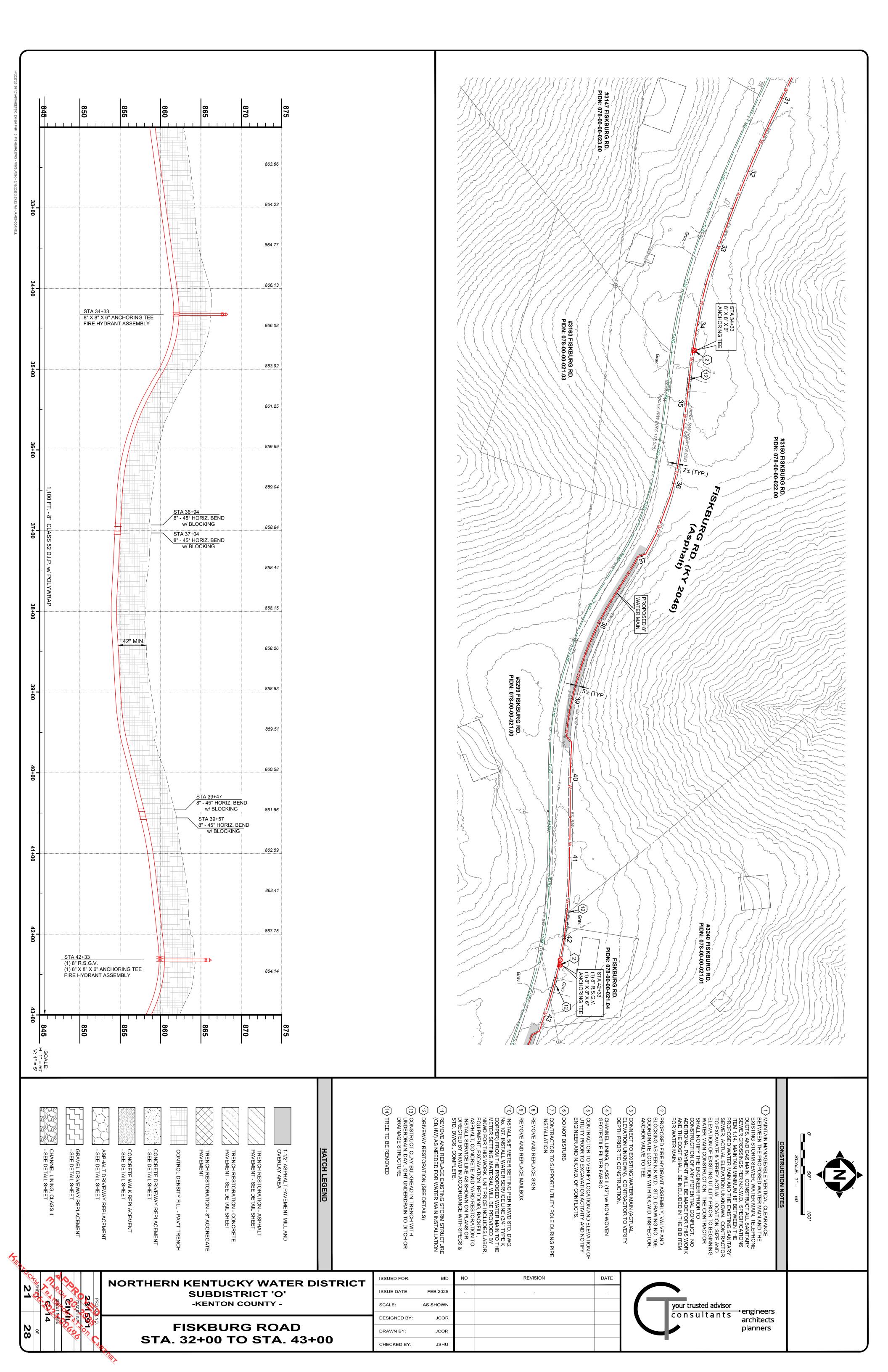


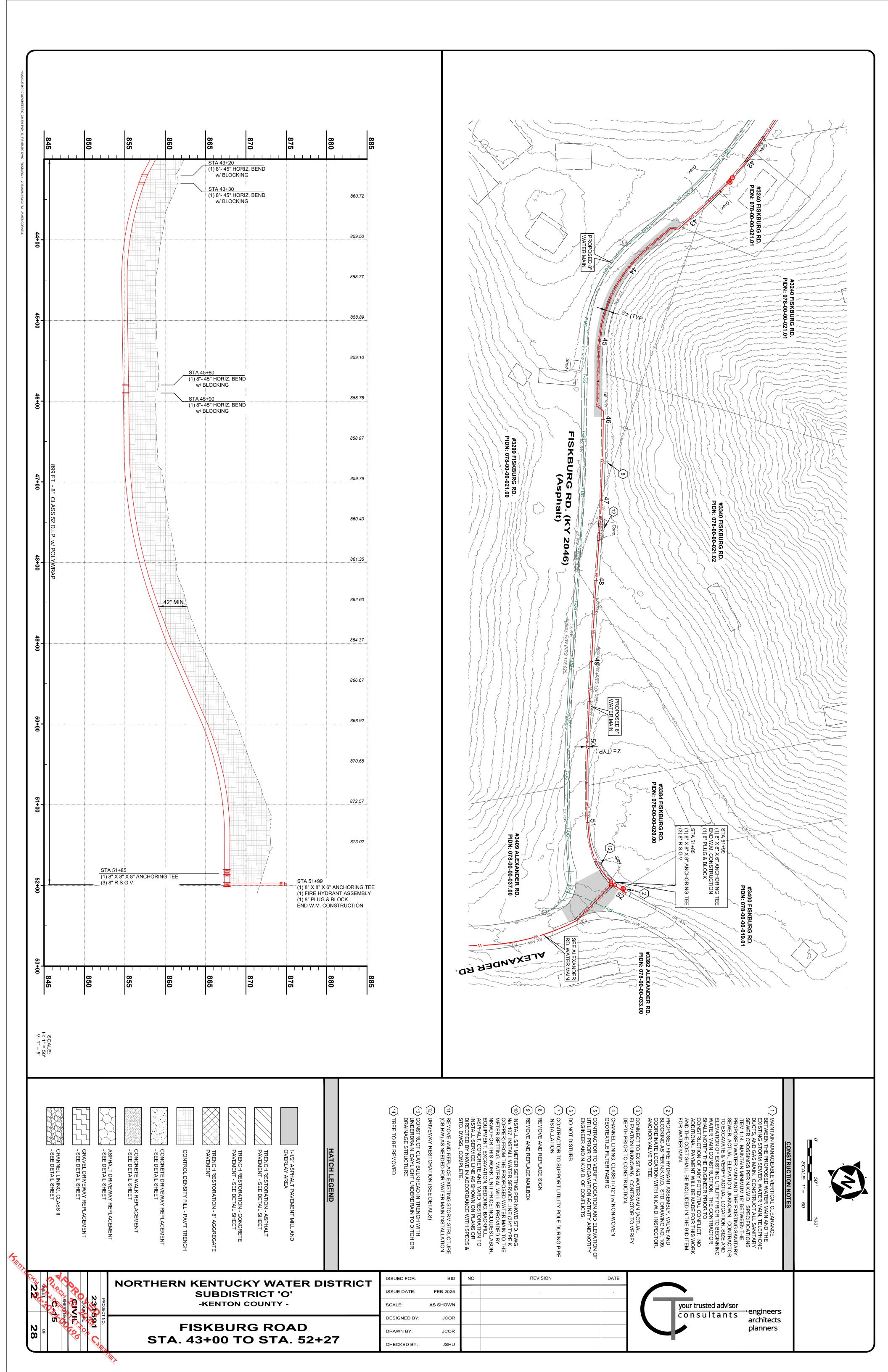
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KYTC Division of Maintenance Permits Branch District 6



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.



| Pe | Prmit No TC 99-21E 01/2023 |
|---------|---|
| | I. SAFETY Page 2 of 7 |
| 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 betweenand 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 |

• 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.

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| • | If the activity to which this permit related disturbs one acre of more of land, you must obtain K | PDES | KYR1 | 0 permit |
|---|---|------|------|----------|
| | If the activity to which this permit related disturbs one acre of more of land, you must obtain K Information can be found at http://water.ky.gov/permitting/Pages/GeneralPermits.aspx | 1 | \C\) | 05/ |

| | Additional Notes The following additional notes apply to this permit: | 080000000000000000000000000000000000000 |
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| • | The following additional notes apply to this permit. | O Section Sect |

| 'ermit No. | TC 99-21E |
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| | 01/2023 |
| II. UTILITIES | Page 3 of 7 |

TC 00 24F

• 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

- 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.

right of way shall be members of Kentucky 811.

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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| Peri | mit No | TC 99-21E |
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| III. | DRAINAGE | 01/2023 Page 4 of 7 |
| • | Negative impacts to existing drainage will be the applicant's responsibility to repair in accordance with SSRBC. | n KYTC |
| • | All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of including bedding and joint seating. Pipe shall not be covered until inspected by the Department and permission obtained to make backfill. It is the applicant's responsibility to request inspection. | nstallation express |
| • | All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with entrance areas or other paved areas within the right-of-way shall not be acceptable. | ith curbs or |
| • | All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall the Department specifications and shall be constructed in accordance with the KYTC's Standard Dra | |
| • | Additional notes: | |
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| IV. | PAVING | |
| • | No bituminous pavement shall be installed within the right of way between November 15 and April 1, the temperature is below 40 degrees Fahrenheit, without the express consent of the Department. No 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 accommodate KYTC's Standard Specifications. At least 24 hours notice to the Department is required prior to begin operations. Phone: Name: | rdance with |
| • | Utility companies performing road cuts must restore the pavement to pre-existing condition. Pictures/recommended to ensure proper placement of signs and lane markers that are temporarily removed for operations. In some cases, a pre-work inventory may be requested from the Department. | videos are or paving |
| , | Existing pavement and shoulder material shall be removed to accommodate the above paving specific | cations. |
| • | The finished surface of all new pavement within the right of way shall be true to the required slope an uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent have pavement or as determined by KYTC. | |
| • | To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highwap pavement and shall slope away from the existing edge of the pavement as specified in drawings | Spin of Carrier |
| • | Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement, edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Depa Highways Standard Specifications (latest edition), shall be applied between new and existing pavement. | rtment of |
| • | Additional notes: | |
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| | 01/2023 |
| V. FNTRANCES | Page 5 of 7 |

TC 00 24F

• 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.
- KTYC 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 KTYC maintenance facility.

| • | Additional notes: |
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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: | Prophysical Control of the Control o |
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| Permit No. | TC 99-21E |
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| | 01/2022 |

VII. SIDEWALK SPECIFICATIONS

Page 6 of 7

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: |
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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: | N all sports |
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| X | . RIGHT OF WAY FENCE RESTORATION | Page 7 of |
| | The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to protect encroachment. | ct against |
| | 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. D finish materials such as vinyl are acceptable. | urable |
| | The permittee shall be required to construct and maintain the replacement fencing to an acceptable levi tionality and state of repair. All work on the fencing shall be performed by access from the private propercies from the roadway is not allowed. | |
| | The existing fence shall be removed by permittee and stored at the Department's maintenance storage future reuse by the Department, or the Department shall be reimbursed the cost of fencing removed. | yard for |
| | 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: | |
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| (| MISCELLANEOUS NOTES | |
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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.

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.

<u>Station 37+00 to Station 39+50</u>

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 sluting 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 encreach 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.



APPROVIED CABITIES CA

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/



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,

Linzy Brefeld

D6 Permits Supervisor

Attachments



APPROXITATION CARTINITY OF A CONTROL OF A CO



Kentucky Transportation Cabinet Department of Highways Division of Maintenance Permits Branch

ENCROACHMENT PERMIT

| KYTC KEPT #: 06-2024-00844 | | | | | | | |
|---|-----------------------|-----------------|--|--|--|--|--|
| Permittee: Northern Kentucky Water District | | | | | | | |
| Permit Type / Subtype: Utilities / Water | | | | | | | |
| Work Completion Date: | 8/27/2025 | | | | | | |
| | INDEMNITIES | | | | | | |
| Туре | 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 b | peen: APPROVED X | DENIED | | | | | |
| Linzy Brefeld | D6 Permits Supervisor | 8/27/2024 | | | | | |
| SIGNATURE | TITI E | 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 | | | | |



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



TC 99-1A Rev. 10/2020 Page 1 of 4

APPLICATION FOR ENCROACHMENT PERMIT

| KYTC KEPT #: 06-2024-00844 | | | | | | | | |
|--|-----------------|-----------------|-----------------------|--------------|--|--|--|--|
| SECTION 1: APPLICANT CONTACT I | NFORMATION | | | | | | | |
| APPLICANT | ADDRESS | | | | | | | |
| NORTHERN KY WATER DISTRICT | | | | | | | | |
| MAIL CITY STATE ZIP | | | | | | | | |
| sbroering@nkywater.org | ERLANGER | | KY | 41018 | | | | |
| CONTACT NAME 1 | EMAIL | | PHONE # 859-42 | 6-2728 | | | | |
| Steve Broering | sbroering@nkywa | ter.org | CELL# | | | | | |
| CONTACT NAME 2 (if applicable) | EMAIL | | PHONE # | PHONE # | | | | |
| | | | CELL# | | | | | |
| SECTION 2: PROPOSED WORK LOC | ATION | | | | | | | |
| ADDRESS | CITY | | STATE | ZIP | | | | |
| | LATONIA | | Kentucky | 41015 | | | | |
| COUNTY | ROUTE # | MILE POINT | LONGITUDE (X) | LATITUDE (Y) | | | | |
| KENTON | 177 | 11.25 | 84D28'17"W | 38D56'04"N | | | | |
| ADDITIONAL LOCATION INFORMATIO DECOURSEY PIKE (KY 177) FROM RYLAI | | TEEP CREEK ROAD | | | | | | |
| | FOR KYT | C USE ONLY | | | | | | |
| PERMIT TYPE: Air Right Entra | nce X Utilities | ☐ Vegetation Re | moval Other: | | | | | |
| ACCESS: Full Partic | al 🗓 by Permit | LOCATION: | Left Right | Crossing | | | | |
| SECTION 3: GENERAL DESCRIPTION | N 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. | | | | | | | | |
| <u>Steve Bro</u> SIGNATU | ering | | 7-15-2024 | | | | | |
| 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. | | | | | | | | |



TC 99-1A Rev. 10/2020 Page 2 of 4

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.

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TC 99-1A Rev. 10/2020 Page 3 of 4

APPLICATION FOR ENCROACHMENT PERMIT

| 10. | The request | ed enci | roachme | ent shall not infr | inge or | the f | rontage rights o | of an abutting o | wner wi | ithout their v | written c | consent |
|-----|---|--|--|---|---|---|---|---|--|--|---|---|
| | as hereinafter described. Each abutting owner shall express their consent, which shall be binding on their successors and | | | | | | | | | | | |
| | assigns, | by | the | submission | of | а | notarized | statement | as | follows, | " I | (we), |
| | | | | | | | , hereby cons | sent to the gran | nting of t | he permit re | questec | d by the |
| | applicant ald | ong Roi | ute | | | , | which permit o | loes affect fron | tage rigl | hts along my | (our) a | djacent |
| | real propert | ty." By | signatur | e(s) | | | | | | | , sub | scribed |
| | and sworn b | у | | | | | , on t | his date | | | | · |
| 11. | | | - | subject to the ag , except as othe | | | | erfere with any | similar ri | ights or perm | ıit(s) pre | eviously |
| 12. | assigns, agre other encro procedures manner con | ee as a achmer of the atrary to | condition ts in st Departro that p | ocumentation whom of the grantictict accordance ment. Permittee rescribed by the maintenance a | ng of t with th , its su appro | he pe e sub iccess ved p | rmit to constru mitted and app ors and assigns ermit. Only non | ct and maintain proved permit d s, shall not use rmal usage as c | n any ar locumer facilitie | nd all permit ntation and t es authorized | ted facil he polic d herein | lities or cies and in any |
| 13. | permitted for defend, pro of the work undertaken employees, | acilities tect, in , encro pursua or con | or oth odemnify achmen ant to the tractors | and assigns, at a er encroachmer y and save harm t, maintenance, he granted perm . This provision beyond that exi | nts are nless th or oth it, due shall r | remo e Dep er un to an ot int | oved from the partment from a dertaking by the y claimed act cure to the beneares | right-of-way ar any and all liabi e permittee, its or omission by efit of any third | nd the rility clain successithe perried party in | right-of-way ms and dema sors and ass mittee, its se nor operate | restored ands aris igns, rela ervants, to enlar | d, shall sing out ated or agents, rge any |
| 14. | additional a restoration undertaken corrective a | ction book of the as order trions | y the pe right-of- ered and to be ur | ovision of the p rmittee, its succ -way. In the eve within a reason ndertaken and th cessors and assi | essors ent ado able tir ne Dep | and a litiona ne, th | ssigns, up to ar al actions requi e Department r | nd including the red by the Dep may in its discre | e remova partment tion cau | al of the enc t under the se those or c | roachme permit a other add | ent and are not ditional |
| 15. | law and reg | ulation | , includi | nd assigns, shall ng those impose s of the U.S. Dep | d purs | uant t | to Title VI of the | e Civil Right Act | of 1964 | 42 U.S.C. § | 2000d | |

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.

Might Ohio, Vice



TC 99-1A Rev. 10/2020 Page 4 of 4

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 | Engineering Technician | |
| NAME (Utility Representative) | TITLE (Utility Representative) | |
| Steve Browning | 7-15-2024 | |
| SIGNATURE (Utility Representative) | DATE | - D \ (3 |



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

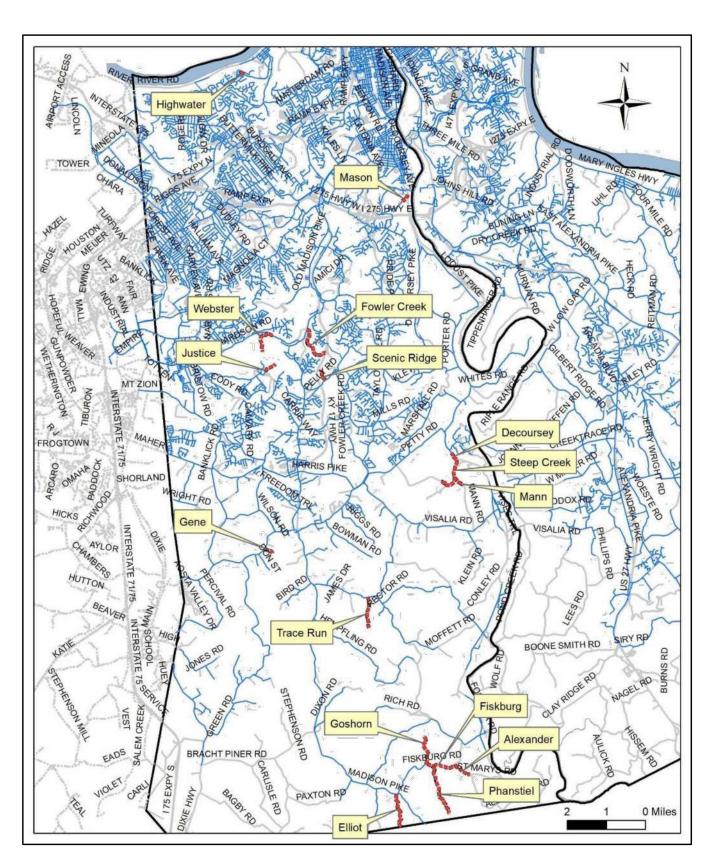
NORTHERN KENTUCKY WATER DISTRICT **SUB-DISTRICT 'O'** WATER MAIN EXTENSION

KENTON COUNTY, KENTUCKY 231591

NORTHERN KENTUCKY WATER DISTRICT OFFICIALS

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

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

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND

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.

| | INDE | X 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 |

REVIEW

| ; ; | rengineers architects | planners | |
|----------------------|--------------------------|----------|--|
| your trusted advisor | consultants | 1 | |
| | | J | |
| | | | |

| KENTIICKY WATER DISTRICT | ISSUED FOR: | 90% DESIGN | O _N | REVISION |
|--------------------------|--------------|------------|----------------|----------|
| | ISSUE DATE: | MAY 2024 | | |
| -KENTON COUNTY - | SCALE: | AS SHOWN | | |
| | DESIGNED BY: | JCOR | | |
| TITLE SHEET | DRAWN BY: | JCOR | | |
| | CHECKED BY: | JSHU | | |

NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS

KENTUCKY TRANSPORTATION CABINET SPECIFICATIONS

KENTON COUNTY SUBDIVISION REGULATIONS SHALL GOVERN THIS IMPROVEMENT.

JAMES M. SHUMATE

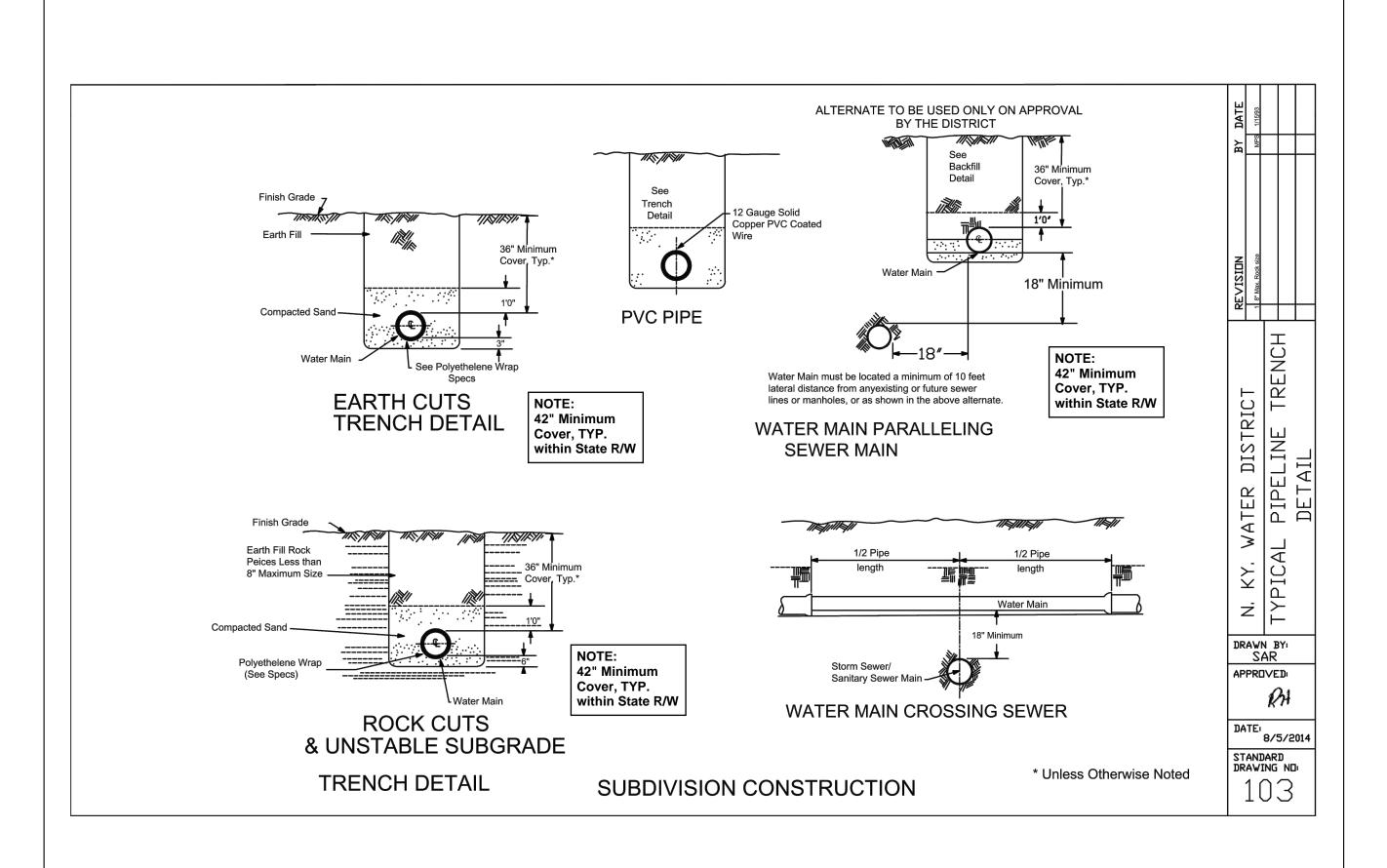
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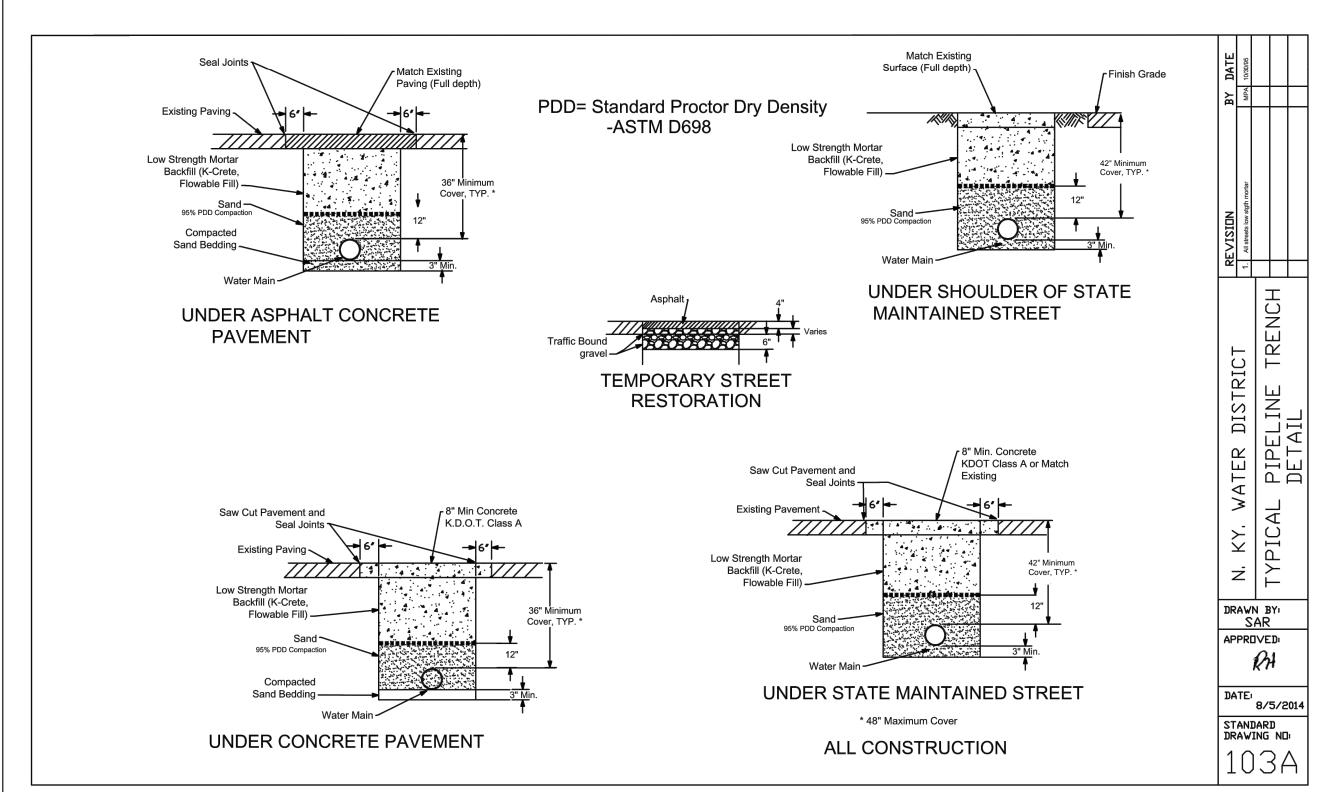
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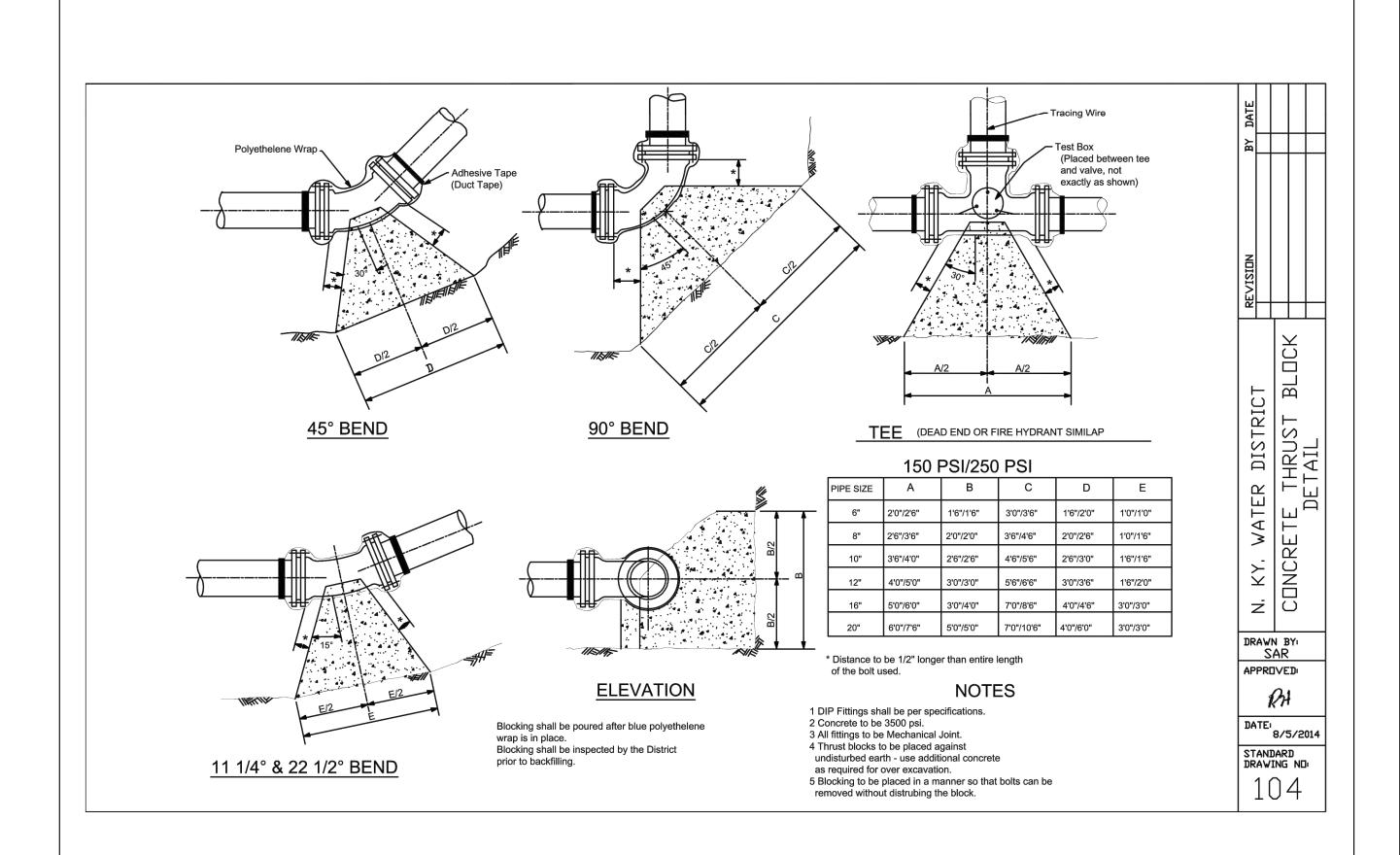
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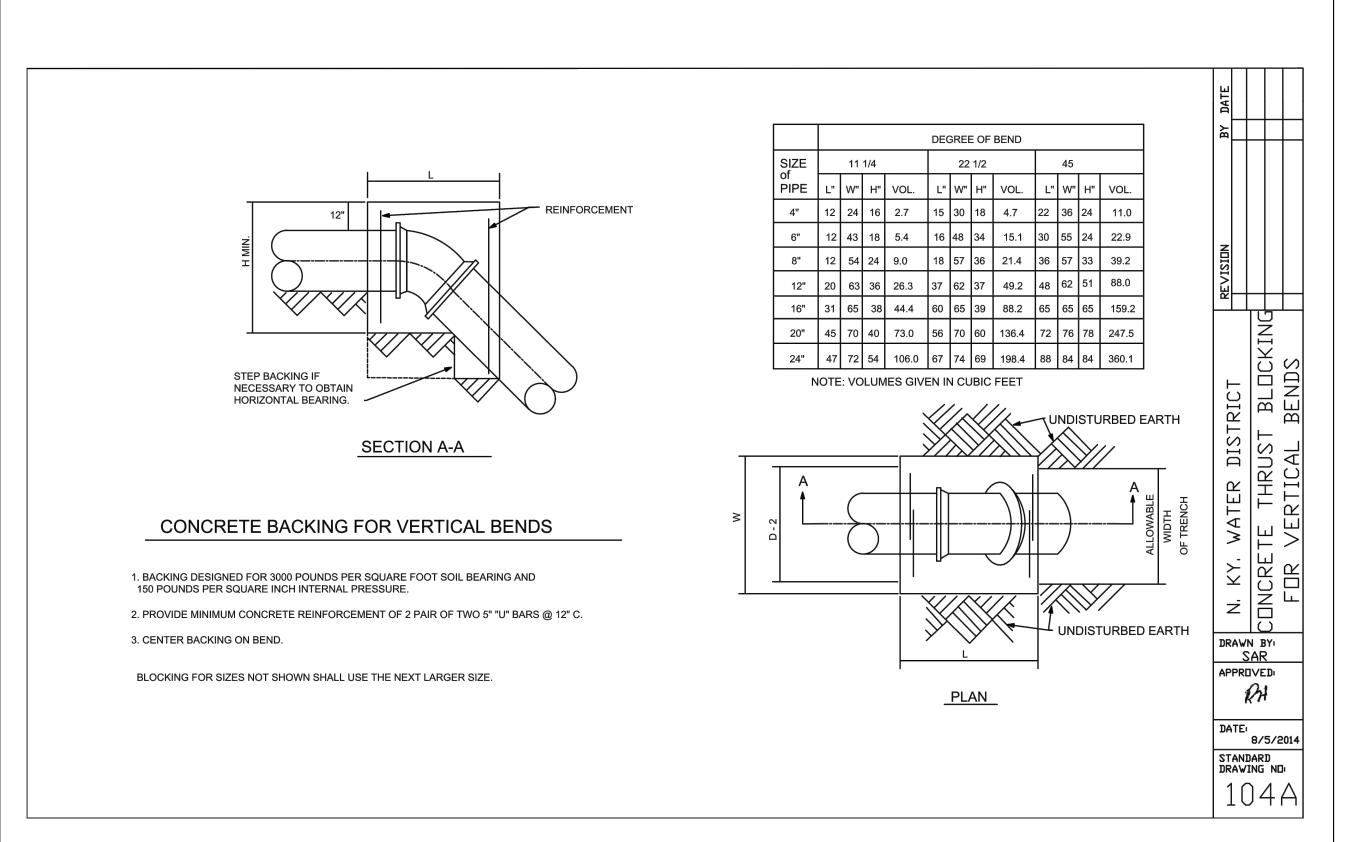
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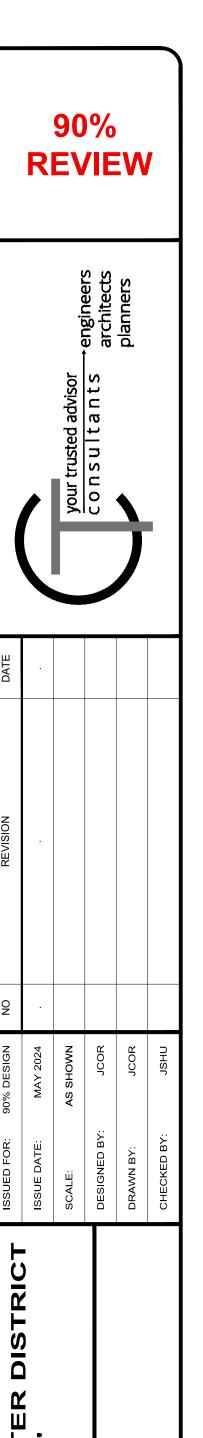
| | STRUCTURES/INFRASTRUCTURE AND THE EXISTING ROADWAY PAVEMENT. TRENCH EXCAVATION SHALL ALSO BE LIMITED TO THE CONTRACTOR'S ABILITY TO PROVIDE TRENCH BOXES FOR SUPPORT. UNDER NO CIRCUMSTANCES SHALL TRENCH EXCAVATION EXCEED LENGTH OF SUPPORT AVAILABLE. | CONTRACTOR IS TO PROVIDE CONSTANT STABLE SUPPORT FOR THE WATER MAIN TRENCH EXCAVATION (ie SHEETING, SHORING, ETC.) TO PROTECT ALL ADJACENT EXISTING UTILITIES, STORM SEWER PIPE AND STRUCTURES AND THE EXISTING ROADWAY FROM ANY MOVEMENT. (NO 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. TRENCH SUPPORT FAILURE RESULTING IN ADVERSE IMPACT TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 2. TRENCH EXCAVATION AND OPEN, UNBACKFILLED LENGTH OF WATER MAIN TRENCH SHALL BE LIMITED AS NECESSARY ALONG THE ROADWAY IN ORDER TO PREVENT MOVEMENT OF, OR DAMAGE TO THE SURROUNDING GROUND SURFACE, NEARBY STRUCTURES/INFRASTRUCTURE AND THE FXISTING ROADWAY STRUCTURES/INFRASTRUCTURE AND THE FXISTING ROADWAY | RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION. ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND. 4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM PLANNING AND DEVELOPMENT SERVICES (PDS) (G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) (G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY. 5. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY FORT N.K.W.D. 6. ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION. 7. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL STATE, COUNTY AND LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED 8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE KENTUCKY TRANSPORTATION CABINET AND KENTON COUNTY AND DANY LOCAL MUNICIPALITY. LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS. 9. ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE NCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL. 10. ALL CONSTRUCTION WORK SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY G.A.I. CONSULTANTS DATED FEBRUARY 2024. | 1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE NORTHERN KENTUCKY WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS AND THE KENTON COUNTY SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. 2. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. 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 |
|---|--|--|---|--|
| ELECTRIC NOTES 1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY | SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NORTHERN KENTUCKY WATER DISTRICT (NKWD). 2. CONTRACTOR MAY NOT USE WATER FROM FIRE HYDRANTS WITHOUT PRIOR PERMISSION FROM NKWD GAS NOTES 1. ALL WORK RELATING TO GAS MAINS OR GAS SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY | 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. 3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE PRECONSTRUCTION MEETING. 4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED TAPPER BY SD1. 5. LALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES 1. ALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES | 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. 3. TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT. 4. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACT SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. STORM & SANITARY NOTES 1. ALL STORM AND SANITARY ITEMS SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND DETAILS FROM SD1. METAL PIPE MATERALS SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON | 1. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE 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 TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE. |
| 18. CONNECT SERVICE LINE (3/4" THRU 2"). INCLUDES THE LABOR, EQUIPMENT, EXCAVATION, BEDDING, BACKFILL, ASPHALT PAVEMENT, CONCRETE EXCAVATION, BEDDING, BACKFILL, ASPHALT PAVEMENT, CONCRETE EXCAVATION, BEDDING, BACKFILL, ASPHALT PAVEMENT, CONCRETE EXCAVATION, PRESTORATION 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 TO AND INCLUDING THE METER VAULT AND METER SETTING. ALL SERVICE LINE MATERIAL WILL BE SUPPLIED BY NKWD. PAID EACH (EA). 19. THE CONTRACTOR SHALL COORDINATE WITH THE NORTHERN KENTUCKY WATER DISTRICT FOR FIELD INSPECTIONS. 20. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. 21. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL KYTC, COUNTY AND/OR LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED. 22. CONTRACTOR IS RESPONSIBLE FOR DEWATERING TRENCH DURING INSTALLATION OF THE WATER MAIN, TEMPORARY FLUSHING DEVICES, TEMPORARY PLUG AND BLOCKS, AND ABANDONING THE EXISTING MAIN SHALL BE INCIDENTAL TO THE PROJECT. 24. ALL PAVEMENT SHALL CONFORM TO THE LATEST EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND KENTON COUNTY SUBDIVISION REGULATIONS. | CAMCART BRCTAR SCHOP | | | 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 MAIN LOCATION MAY REQUIRE SOME FIELD ADJUSTMENT TO THE PROPOSED WATER MAIN INCLUDING ADJUSTING THE DEPTH OF THE PROPOSED WATER MAIN. COST OF DOING THE ABOVE SHALL BE INCIDENTAL TO THE PERTINENT WATER MAIN ITEM. 2. COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, ETC. SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE AND SHALL BE APPROVED |
| TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET CONCRETE DRIVEWAY REPLACEMENT CONCRETE WALK REPLACEMENT - SEE DETAIL SHEET GRAVEL DRIVEWAY REPLACEMENT - SEE DETAIL SHEET CHANNEL LINING, CLASS II CHANNEL LINING, CLASS II | HATCH LEGEND 1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA | EROSION CONTROL LEGEND (IP) INLET PROTECTION (SEE DETAIL) (SF) SILT FENCE (SEE DETAIL) | 3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE STATE, COUNTY AND/OR LOCAL POLICE DEPARTMENTS. AT ALL TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS. 4. RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR PROPERTY AT ALL TIMES. 5. EACH DRIVEWAY SHALL BE ACCESSIBLE WHENEVER POSSIBLE, WHEN PORTLAND CEMENT CONCRETE CONSTRUCTION AFFECTS A DRIVEWAY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS 24 HOURS IN ADVANCE AND ADVISE THEM TO FIND ALTERNATIVE PARKING FOR A PERIOD OF ATLEAST 10 CALENDAR DAYS AFTER THE POUR. ALTERNATIVE PARKING SHALL INCLUDE "ON STREET" PARKING WITH ACCESS TO THE PROPERTY. TEMPORARY SIDEWALKS, ETC. WILL BE NECESSARY TO PREVENT PERSONS FROM WALKING IN MUD IN ORDER TO ENTER THEIR POPERTY. TEMPORARY BRIDGES, RAILINGS ETC. WILL BE COME NECESSARY IN ORDER TO CROSS FORMED CURB LINES, EXCAVATED AREAS BEHIND CURB LINES AND WALKWAYS, ETC. | 1. ALL MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF KTC 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. 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT. |
| TING SANITARY MANHOLE TING SANITARY CLEANOUT TING STORM MANHOLE TING SINGLE / DOUBLE CURB INLET TING CATCH BASIN TING TELEPHONE MANHOLE TING TELEPHONE PEDESTAL TING FIRE HYDRANT TING WATER METER TING WATER VALVE TING BUSHES / TREES TING SURVEY BENCHMARK **BORING LOCATION | EXISTING ELECTRIC PEDESTAL EXISTING PULL BOX EXISTING GROUND LIGHT EXISTING ELECTRIC METER EXISTING ELECTRIC MANHOLE EXISTING GAS METER EXISTING GAS BOX EXISTING GAS BOX EXISTING UTILITY POLE (C) EXISTING GUY WIRE / ANCHOR | PROPOSED SANITA PROPOSED SANITA PROPOSED FIBER (PROPOSED FIBER (PROPOSED FIBER (PROPOSED CONTO PROPOSED CONTO PROPOSED CONTO PROPOSED RIGHT (PROPOSED PROPEI PROPOSED PROPEI PROPOSED PROPEI PROPOSED BASEMI PROPOSED TREE LI PROPOSED DISTUR PROPOSED DISTUR PROPOSED DISTUR PROPOSED DISTUR EXISTING MAILBOX EXISTING CABLE PEDESTAL EXISTING SIGN EX | EXISTING FOORE MAIN EXISTING SANITARY SEWER EXISTING SANITARY FORCE MAIN EXISTING FIBER OPTICS EXISTING FIBER | TING TING TING TING TING TING |
| NORTHERN KENTUCKY SUBDISTRIC -KENTON COU OF GENERAL NOTES | WATER DISTRICT CT 'O' INTY - S | ISSUED FOR: 90% DESIGN NO REVISION ISSUE DATE: MAY 2024 SCALE: AS SHOWN DESIGNED BY: JCOR DRAWN BY: JCOR | DATE your trusted advisor c o n s u l t a n t s architects planners | 90% REVIEW |











PROJECT NO.

231591

DISCIPLINE

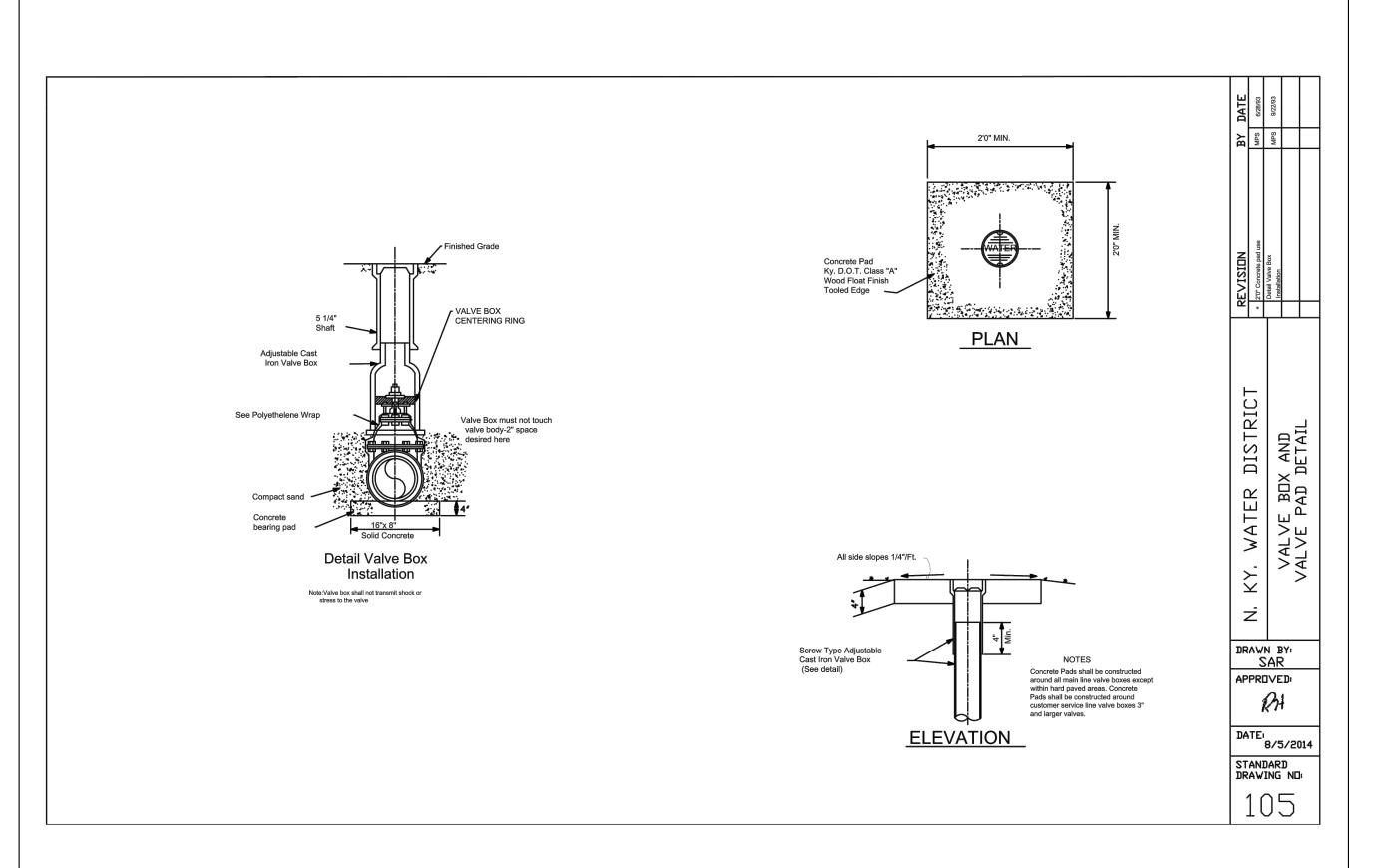
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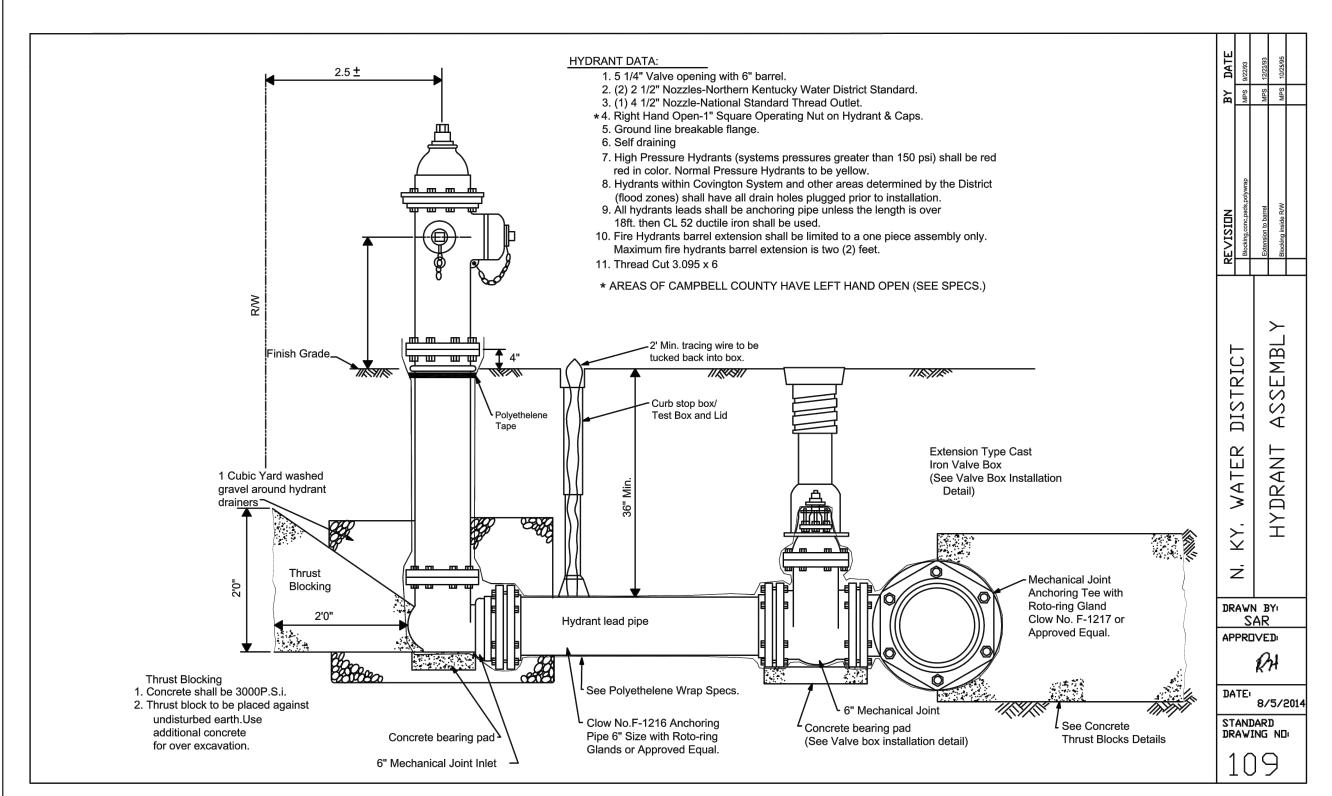
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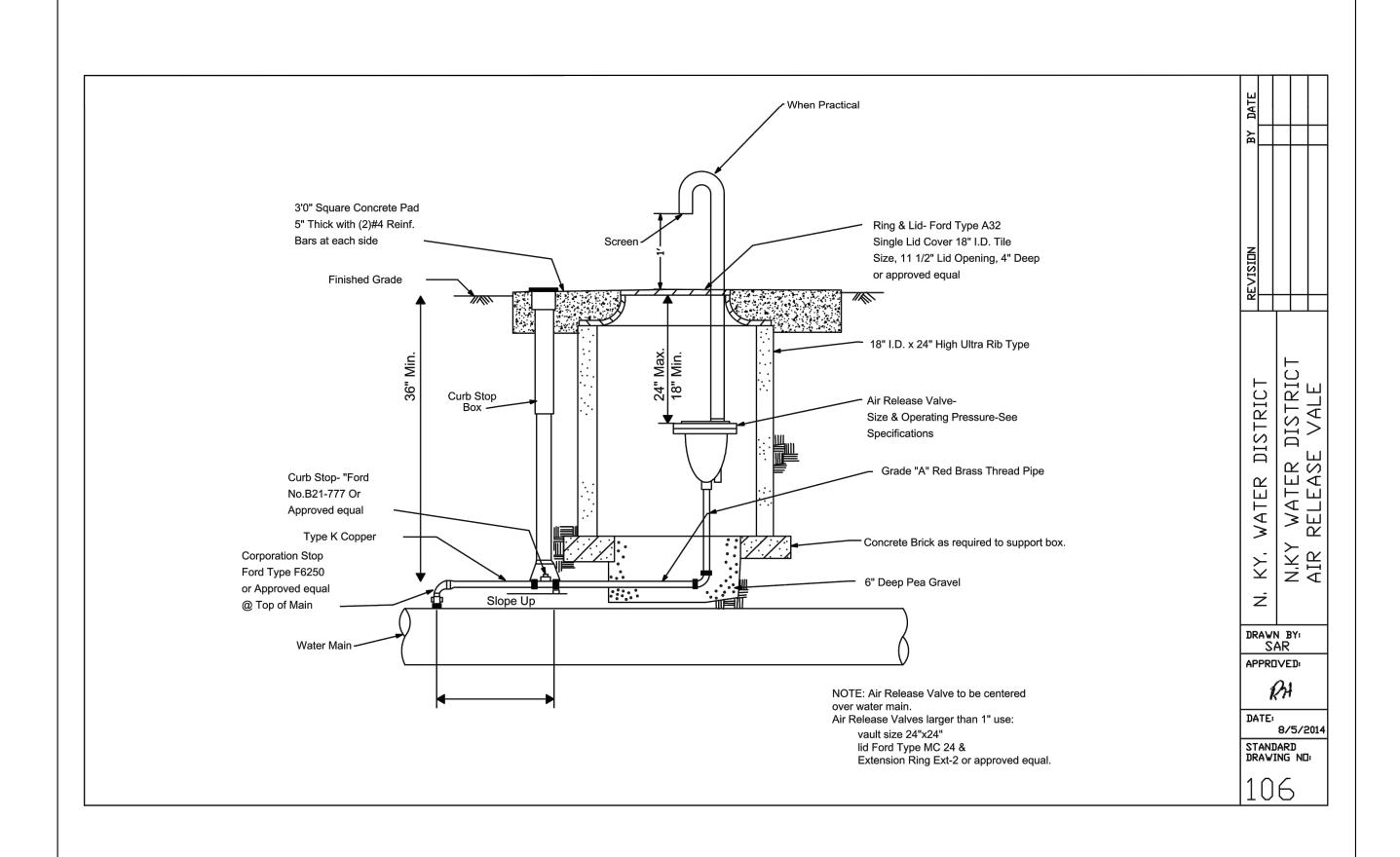
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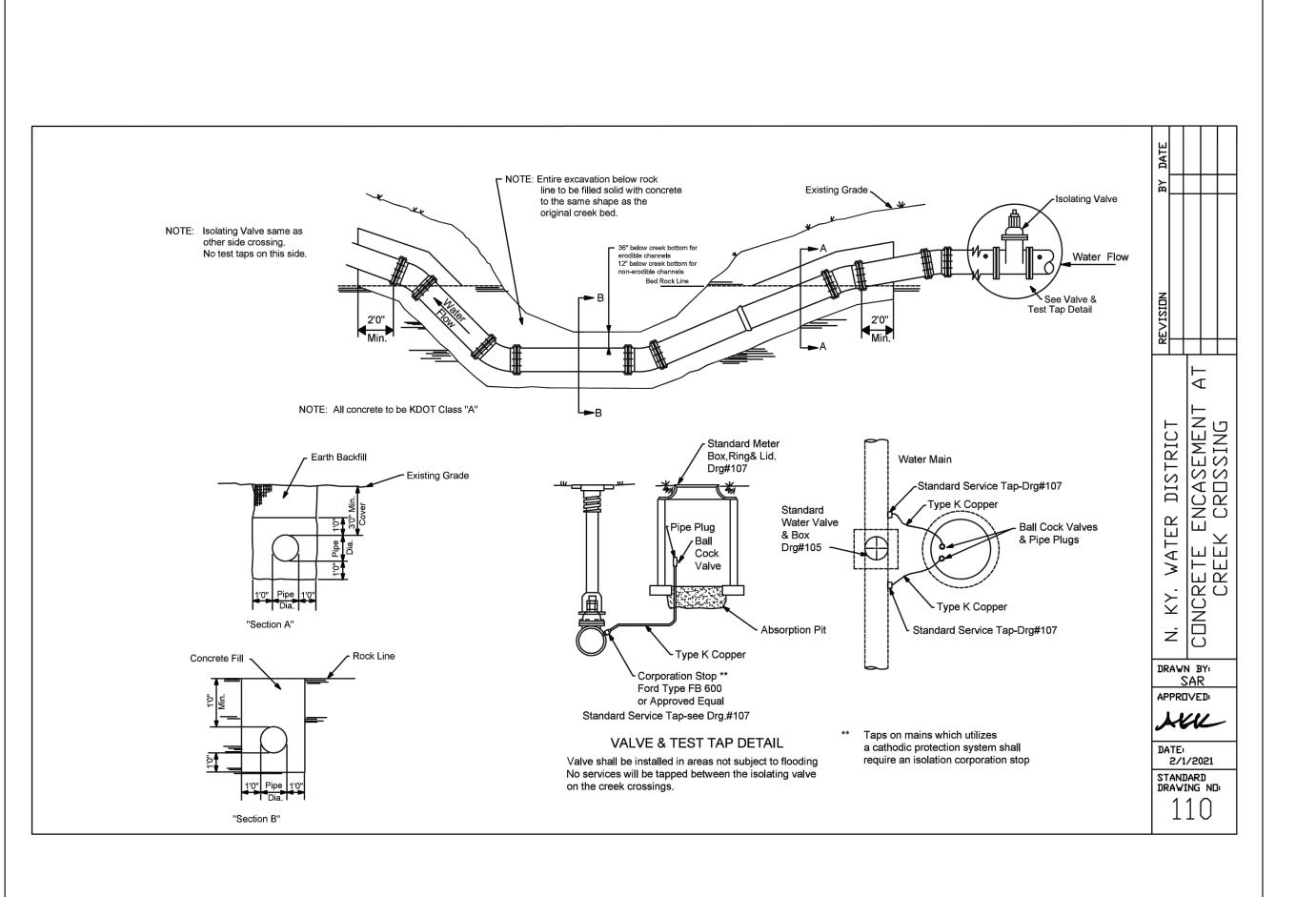
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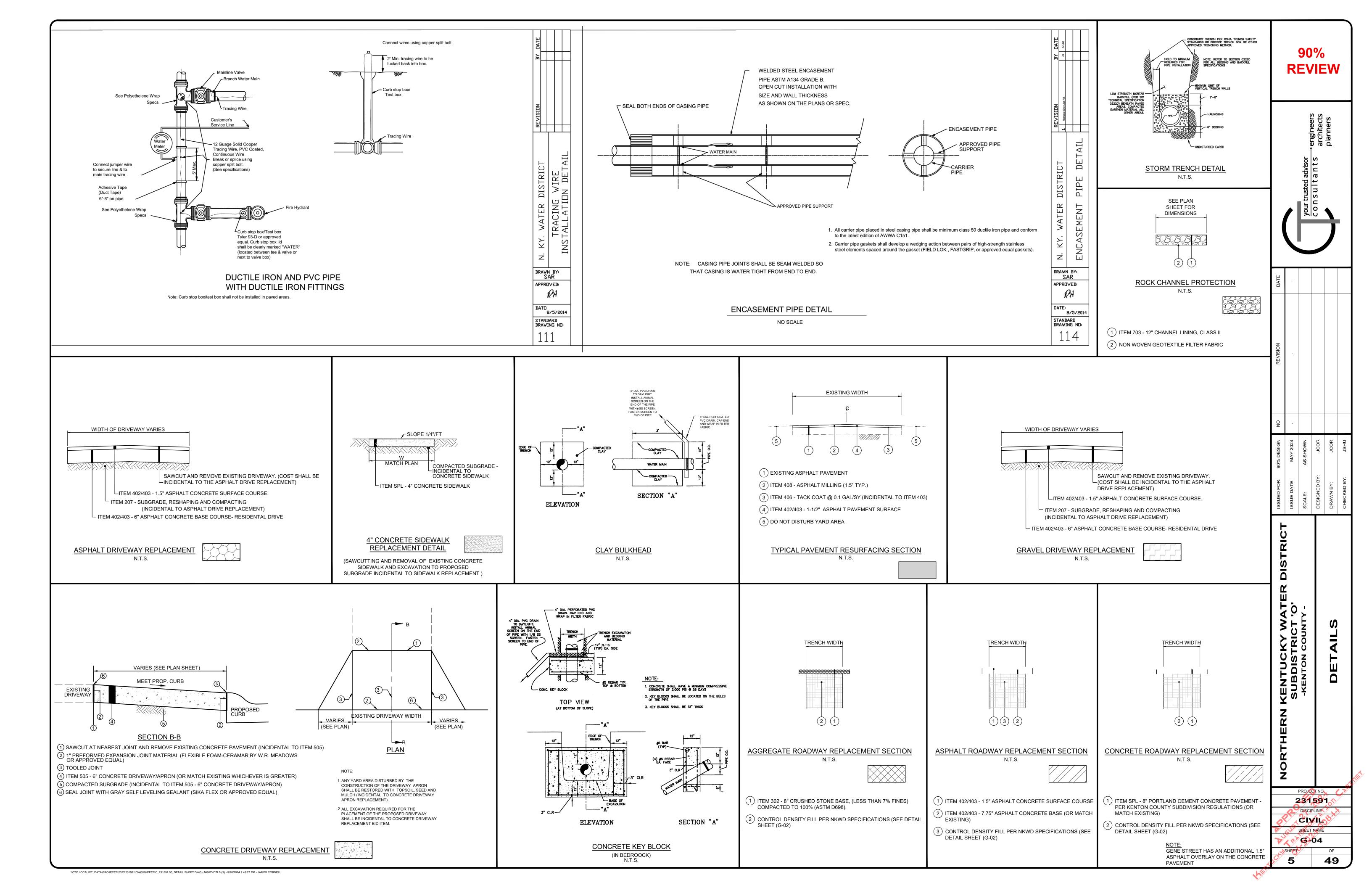




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| | NORTHERN KENTILCKY WATER DISTRICT | ISSUED FOR: | 90% DE |
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SEDIMENT BASINS

DEFINITION A TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A WATERCOURSE OR AT OTHER SUITABLE LOCATION TO RETAIN SEDIMENT AND OTHER WATERBORNE DEBRIS.

THE SITE SHALL BE GRADED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.

TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

14' MIN AND NOT LESS THAN WIDTH OF

INGRESS/EGRESS

PPLYING FERTILIZER AS OF A SOIL TEST, R AT 500 LB/AC. OF FERTILIZER SHALL BE

PLAN VIEW

ANY PAVED SURFACE

16" MHV

WRAP GEOTEXTILE AROUND STAKES BEFORE DRIVING

SEED BED

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.

(30' MIN. FOR ACCESS TO INDIVIDUAL HOUSE LOT)

ANY PAVED SURFACE

-STRAW BALE -BINDING WIRE

ODOT ITEM #304 — 8"

LEVEL CONTOUR NO SL

ASTIC LINING

5' FLAT SLOPE IN FRONT OF BARRIER

SCOPE
THIS STANDARD ESTABLISHES MINIMUM ACCEPTABLE QUALITY FOR THE DESIGN AND CONSTRUCTION OF TEMPORARY SEDIMENT BASINS FORMED BY AN EMBANKMENT, EXCAVATION OR A COMBINATION OF EMBANKMENT AND EXCAVATION THE STANDARD IS LIMITED TO SITES WHERE:

FAILURE OF THE STRUCTURE WOULD NOT RESULT IN LOSS OF LIFE; DAMAGE TO HOMES; COMMERCIAL OR INDUSTRIAL BUILDINGS; DAMAGE TO HIGHWAYS OR RAILROADS OR INTERRUPTION OF USE OR SERVICE OF PRIVATE UTILITIES.

THE TOTAL VOLUME OF STORAGE IS 150 ACRE-FEET OR LESS. THE HEIGHT OF DAM IS 25 FEET OR LESS, AS MEASURED FROM THE NATURAL STREAMBED AT THE DAM TO THE TOP OF DAM.

SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY 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.

THE BASIN WILL BE REMOVED WITHIN A THREE-YEAR PERIOD AFTER CONSTRUCTION

THE DRAINAGE AREA IS 100 ACRES OR LESS.

CONDITIONS WHERE PRACTICE APPLIES TEMPORARY SEDIMENT BASINS APPLY WHERE PHYSICAL SITE CONDITIONS OR OTHER RESTRICTIONS PRECLUDE THE INSTALLATION OF EROSION CONTROL MEASURES TO ADEQUATELY CONTROL EROSION AND SEDIMENTATION. IT MAY USED DOWNSLOPE FROM CONSTRUCTION OPERATIONS WHICH EXPOSE AREAS TO EROSION. TEMPORARY SEDIMENT BASINS WILL BE REMOVED AFTER THE EXPOSED AREAS ARE ADEQUATELY PROTECTED AGAINST EROSION BY VEGETATIVE OR MECHANICAL MEANS. PURPOSE TEMPORARY SEDIMENT BASINS ARE USED AS A MEANS OF TRAPPING AND STORING SEDIMENT FROM ERODING AREAS ORDER TO PROTECT DOWNSTREAM AREAS FROM DAMAGE RESULTING FROM SEDIMENTATION AND WATERBORNE DEBRIS.

OMPLIANCE WITH LAWS AND REGULATIONS ESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

LOCATION

TO IMPROVE THE EFFECTIVENESS OF THE BASIN, IT SHOULD BE LOCATED SO AS TO INTERCEPT THE LARGEST POSSIBLE AMOUNT OF RUNOFF FROM THE DISTURBED AREA. THE BEST LOCATIONS ARE GENERALLY LOW AREAS AND NATURAL AMOUNT OF RUNOFF FROM THE DISTURBED AREAS. DRAINAGE INTO THE BASIN CAN BE IMPROVED BY THE USE OF DIVERSION DIKAINAGEWAYS BELOW DISTURBED AREAS. DRAINAGE INTO THE BASIN CAN BE IMPROVED BY THE USE OF DIVERSION DIKES AND DITCHES. THE BASIN SHOULD BE LOCATED TO TRAP SEDIMENT-LADEN RUNOFF BEFORE IT ENTERS THE STREAM. THE BASIN SHOULD NOT BE LOCATED WHERE ITS FAILURE WOULD RESULT IN THE LOSS OF LIFE OR IN INTERRUPTION OF THE USE OR SERVICE OF PUBLIC UTILITIES OR ROADS.

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, FILL
GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.
A MINIMUM OF 70% GROWTH DENSITY, BASED ON A VISUAL
INSPECTION, MUST EXIST FOR AN ADEQUATE PERMANENT
VEGETATIVE PLANTING.

APPLY ADDITIONAL STONE AS CONDITIONS DEMAND AND REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6". REMOVE AND REPLACE IF STONES BECOMES MUD-LADEN.

PERMITTIVITY

EQUIVALENT OPENING SIZE

= 20% <0.6 MM = 0.001 CM/SEC

SAND BAG (TYP)

NOTES:

PRESERVE VEGETATION FOR 5 FEET, UPSLOPE FROM THE SILT FENCE. IF 'SHALL BE RE-ESTABLISHED WITHIN 7 INSTALLATION.

OR AS MUCH AS POSSIBLE, VEGETATION IS REMOVED, IT DAYS FROM SILT FENCE

OF SILT FENCE

ELONGATION BURST STRENGTH TEAR STRENGTH

IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.

CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR TO PREVENT OFF-SITE FRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

SAND BAG -PLASTIC LINING

CHANGE THE LAYOUT OF THE SILT FENCE REMOVE ACCUMULATED SEDIMENT. INSTALL OTHER PRACTICES.

SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW:

APPLY MULCH MATERIAL IMMEDIATELY AFTE PERMANENT SEEDING SHALL INCLUDE IRRIG ESTABLISH VEGETATION DURING DRY OR HO ADVERSE SITE CONDITIONS AS NEEDED. AVC IRRIGATION AND MONITOR TO PREVENT EROFROM RUNOFF.

FTER SEEDING.
RIGATION TO
HOT WEATHER OR ON
AVOID EXCESSIVE
EROSION AND DAMAGE

FROM OCTOBER 1 TO NOVEMBER 20, SEEDING RATE BY 50%, PREPARE TH LIME AND FERTILIZER, MULCH AND A

), INCREASE THE HE SEED BED, ADD ANCHOR.

1 OCTOBER 1 TO RMINATE, BUT WILL NOT ING METHODS FOR

18" OR SUFFICIENT TO DIVERT RUNOFF

GEOTEXTILE

NO. #2 RECYCLED CONCRETE AGGREGATE

AS NEEDED

10' MIN.

FROM NOVEMBER 20 TO MARCH 15, ONLY IF SOIL CONDITIONS PERMIT, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR.

PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING STONE MEETING THE MIN. SPECIFICATIONS:

PLAN VIEW
SINGLE LOCATION FOR ENTIRE PROJECT

__ 2X4 STAKE (2 PER BALE)

PUNCTURE STRENGTH

= 80 PSI = 50 LBS.

= 320 PSI

ULTIPLE USE

EDIMENT BASINS MAY BE DESIGNED AS PERMANENT STRUCTURES TO REMAIN IN PLACE AFTER CONSTRUCTION IS
OMPLETED. SITE CONDITIONS MAY MAKE THE USE OF THESE STRUCTURES DESIRABLE FOR STORMWATER DETENTION
URPOSES. WHEREVER THESE STRUCTURES ARE TO BECOME PERMANENT, OR IF THEY EXCEED THE SIZE LIMITATIONS
F THE DESIGN CRITERIA, THEY MUST BE DESIGNED AS PERMANENT PONDS BY A QUALIFIED PROFESSIONAL ENGINEER.
ERMANENT PONDS ARE BEYOND THE SCOPE OF THESE STANDARDS AND SPECIFICATIONS. THE PERMANENT
TRUCTURES MUST BE SUBMITTED WITH CONSTRUCTION DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE CITY

MAINTENANCE BASINS SHALL BE CHECKED WEEKLY AND CLEANED WHEN NO LONGER EFFECTIVE

STORM DRAIN INLET PROTECTION DEFINITION A SEDIMENT FILTER INSTALLED AROUND A STORM DRAIN INLET OR CURB INLET TO REDUCE SEDIMENT DISCHARGE PURPOSE TO PREVENT SEDIMENT FROM ENTERING THE STORM DISCHARGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED DRAINAGE AREA. DIFFERENT TYPES OF STRUCTURES ARE APPLICABLE TO DIFFERENT CONDITIONS.

STORM WATER POLLUTION PREVENTION NOTES

AN AMENDMENT OF THE SWPPP IS REQUIRED WHENEVER A CHANGE IN DESIGN, CONSTRUCTION, AND OPERATION OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS, OR IF THE SWPPP PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF THE SWPPP.

6. CONSTRUCTION SEQUENCE
ALL PERIMETER SILT FENCE, INLET PROTECTION AND OTHER EROSION CONTROLS SHALL BE IN PLACE BEFORE ANY OTHER EARTH MOVING ACTIVITIES BEGIN.
THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THE AREAS PLANNED FOR EARTH MOVING.
REMOVE TOPSOIL, STOCKPILE IT, AND INSTALL SILT FENCE AROUND PERIMETER.
SEED SOIL STOCKPILE WITH PERENNIAL RYE GRASS AND MULCH WITH STRAW IF NO TO BE DISTURBED FOR MORE THAN 21 DAYS.
CONSTRUCT DETENTION BASIN AND CONTROL STRUCTURE. DETENTION BASIN SHALL BE USED AS A SEDIMENT BASIN UNTIL THE SITE IS STABILIZED.
INSTALL STORM SEWER SYSTEM AND SURFACE STORM INLET AND MANHOLE PROTECTION.
ESTABLISH A TEMPORARY SEEDING ON ALL BARE AREAS THAT ARE TO REMAIN UNDISTURBED FOR MORE THAN 21 DAYS. SEED WITH PERENNIAL RYE GRASS MULCH WITH STRAW.
IMMEDIATE AFTER TOPSOIL HAS BEEN PLACED, STABILIZE THE SAME SURFACE AREA WITH FINAL SEED AND MULCH 7 DAYS AFTER REACHING FINAL GRADE.
AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL PRACTICES.

7. EROSION CONTROLS MUST BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF 0.5" OR GREATER RAINFALL. REMOVE ACCUMULATED SEDIMENT FROM EROSION CONTROLS. TEMPORARY SEEDING SHALL BE PERENNIAL RYE GRASS (40 LB / ACRED) AND MULCH AT 3 BALES OF STRAW PER 1000 S.F.

CONTRACTOR IS RESPONSIBLE FOR OBTAINING BORROW MATERIAL ONSITE AND / OR DISPOSING MATERIAL OFF SITE AS REQUIRED TO MEET INDICATED DESIGN ELEVATIONS.

CURB OPENING-WITHOUT GRATE

11. THE CONSTRUCTION OF BMPs SHALL BE REVISED OR ADDED IF DEEMED NECESSARY PER SECTION 1000 OF THE SANITATION DISTRICT 1 REGULATIONS. DEBRIS SHALL BE COLLECTED WITHIN PROPERTY LIMITS WEEKLY OR AS NEEDED FOR PUBLIC SAFETY. SURROUNDING STREETS AFFECTED BY THE CONSTRUCTION SHALL BE CLEANED DAILY OR AS NEEDED FOR PUBLIC SAFETY. SEE CONSTRUCTION ENTRANCE DETAIL IN SWPPP DETAILS SHEET.

OF CURB INLET SEDIMENT CONTROL DEVICE
WITH CURB FILTER

 $\left(\overline{\mathbb{P}} \right)$

DANDY CURB SCALE: NONE

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231,591

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G-05

ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED AS SHOWN ON THE PLANS, AND SHALL BE IN COMPLIANCE WITH THE LATEST CONSTRUCTION ACTIVITY "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" RULES AND REGULATIONS. SANITATION DISTRICT NO. 1 IS TO BE CONTACTED 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY AT 859-578-6892

A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A COPY OF THE "NOTICE OF INTENT" (NOI) SHALL BE KEPT ON SITE.

TALL FESCUE

TURF-TYPE FESCUE

BANKS OR CUT

THE CONTRACTOR SHALL ALSO MAINTAIN THE FOLLOWING RECORDS ON SITE:
A. GENERAL CONTRACTOR AND/OR SUBCONTRACTOR SWPPP CERTIFICATIONS
B. THE DATE, TIME, AND EXACT LOCATION OF THE INSPECTION, AND THE NAME OF THE INSPECTOR
C. AN ASSESSMENT OF THE CONDITION OF THE EROSION CONTROLS
D. A DESCRIPTION OF ANY EROSION CONTROL IMPLEMENTATION AND MAINTENANCE PERFORMED
E. A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION AT THE SITE

FLAT PEA TALL FESCUE TURF-TYPE FESCUE KENTUCKY BLUEGRASS KENTUCKY BLUEGRASS PERENNIAL RYEGRASS TALL FESCUE PERMANENT SEEDING DETAIL SCALE: NONE 100 - 120 100 - 120 40 - 50 10 - 20 20 - 30 20 - 25 20 - 25 20 - 30 90 5 FOR NOT SEED LATER THAN NOT SEED LATER THAN

WA

CONCRETE WASHOUT DETAIL
SCALE: NONE

SAW CUT CONCRETE, RESIDUE FROM SAW CUT, AND GRINDINGS SHALL BE DISPOSED OF IN THE WASHOUT PIT.

| ω | MOW | ESTABLISHED MOW | 400 | 0-20-20 | FLAT PEA FESCUE |
|-----|------------|-----------------|------------|----------------|--|
| | | SPRING, AND | 400 | 0-20-20 | CROWN VETCH FESCUE |
| N | <u>4</u> 1 | | 500 | 10-10-10 | TURF-TYPE FESCUE |
| _, | <u> </u> | | 500 | 10-10-10 | TALL FESCUE |
| . 7 | | OR AS NEEDED | | | DOMESTIC RYEGRASS KENTUCKY BLUEGRASS |
| | >3" | FALL, YEARLY, | 500 | 10-10-10 | CREEPING RED FESCUE |
| | MOW | TIME | LB/ AC. | FORMULA | MIXTURE |
| | | MOWING CHART | N AND | 3 FERTILIZATIO | PERMANENT SEEDING FERTILIZATION AND MOWING CHART |
| | | | | | |

(CE)

CONSTRUCTION ENTRANCE
SCALE: NONE

PLASTIC LINING

PLAN VIEW

SECTION B-B

TEMPORARY LOCATION FOR MULTIPLE PHASE PROJECT

NOTES:

WASHOUT PIT SHALL BE LOCATED 100' MINIMUM FROM INLETS, STREAMS, WETLANDS AND ANY OTHER SURFACE WATERS.

SLURRY FLOW RATE
EQUIVALENT OPENING
SIZE

ULTRAVIOLET
RADIATION STABILITY

90% MIN

40-80

US STD. SIEVE CW-02215

(SF

SF

MULLEN BURST STRENGTH

190 PSI MIN

ASTM D-3786

GRAB TENSILE STRENGTH

FABRIC PROPERTIES

VALUES 90 LB. MIN

ASTM D-1682

CURB

CURB INLET CASTING WITH GRATE

OR CLOSE MOWING AND ATERWAYS WITH <2.0

"/SEC. VELOCITY ELECTION NOTES: THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.

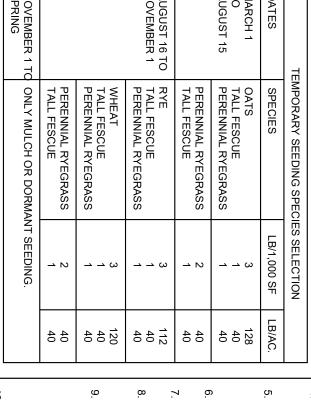
SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

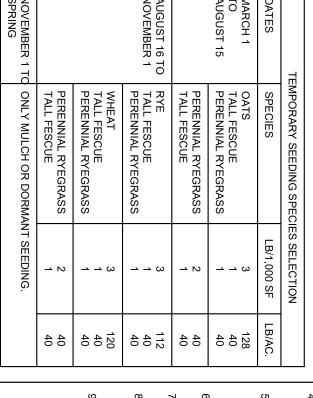
APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO PLACE.

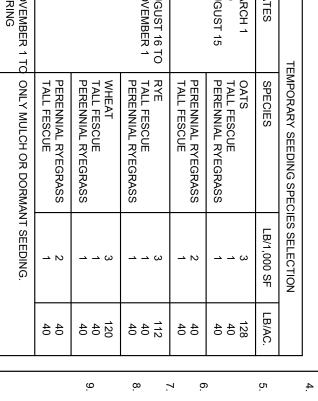
PERMANENT SEEDING SPECIES SE

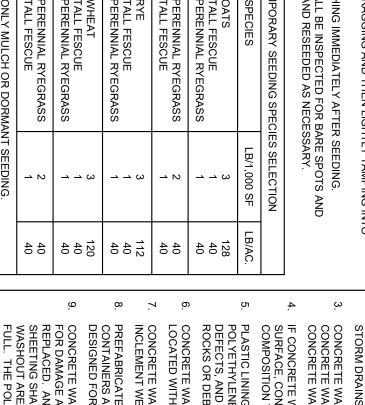
SEED RATE LB/AC.

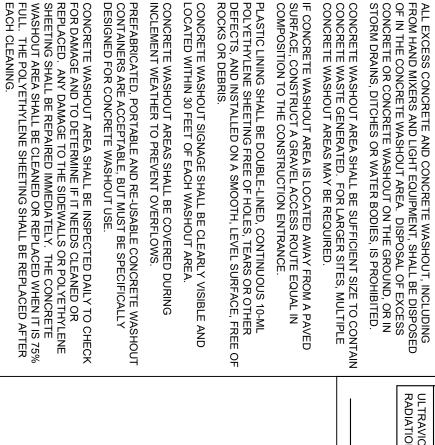
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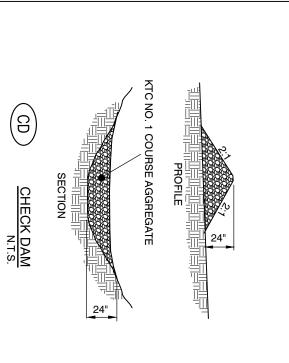


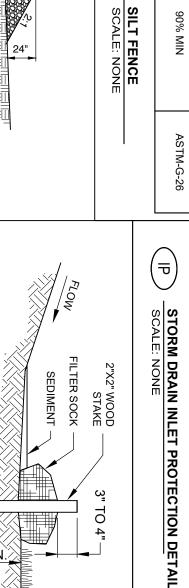


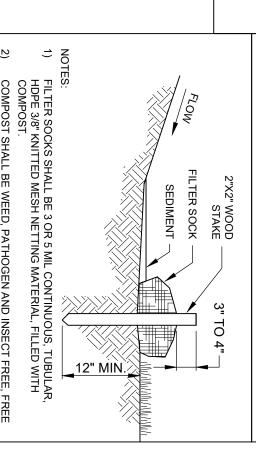


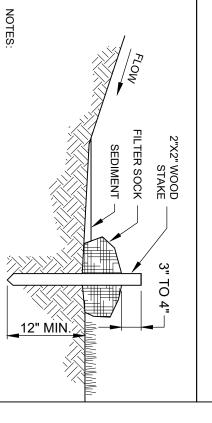












| NOTES: | TES: | |
|--------|--|--|
| | FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST. | |
| 2) | COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC | |
| | TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2". | |
| 3) | FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE. | |
| 4) | FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT. | |
| 5) | BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED | |

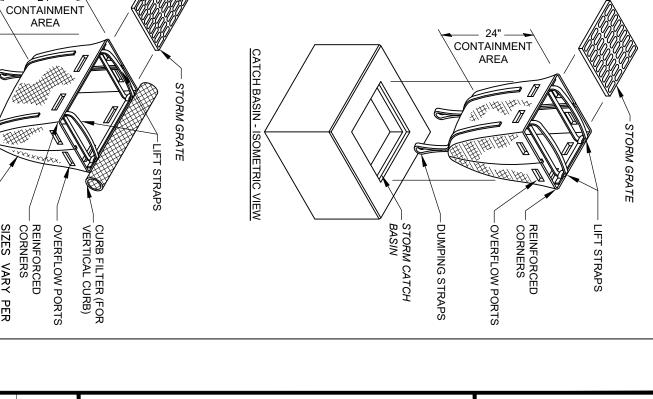
| M DRAINAGE AREA PER 100 FEET OF FILTER SOCK ND IS DEPENDENT ON THE SLOPE: |
|--|
| ER SOCK IS NO LONGER REQUIRED, IT SHALL BE M-SITE. |
| DIMENT SHALL BE REMOVED WHEN IT HAS REACHED R SOCK HEIGHT. |
| S SHALL BE PLACED AT LEAST 5' FROM THE TOE OF EDIMENT DEPOSIT. |
| S SHALL BE PLACED ON A LEVEL LINE ACROSS ALLEL TO THE BASE OF THE SLOPE. |
| DRGANIC MATTER, AND CONSIST OF PARTICLES DM 3/8" TO 2". |

7 6)

NORTHERN KENTUCKY WATER DISTRICT SUBDISTRICT 'O'

| | | | | 47 | |
|---|--------------|------------|----|----------|------|
| | | | | | |
| - | ISSUED FOR: | 90% DESIGN | NO | REVISION | DATE |
| | ISSUE DATE: | MAY 2024 | | | |
| | SCALE: | AS SHOWN | | | |
| | DESIGNED BY: | JCOR | | | |
| | DRAWN BY: | JCOR | | | |
| | CHECKED BY: | JSHU | | | |

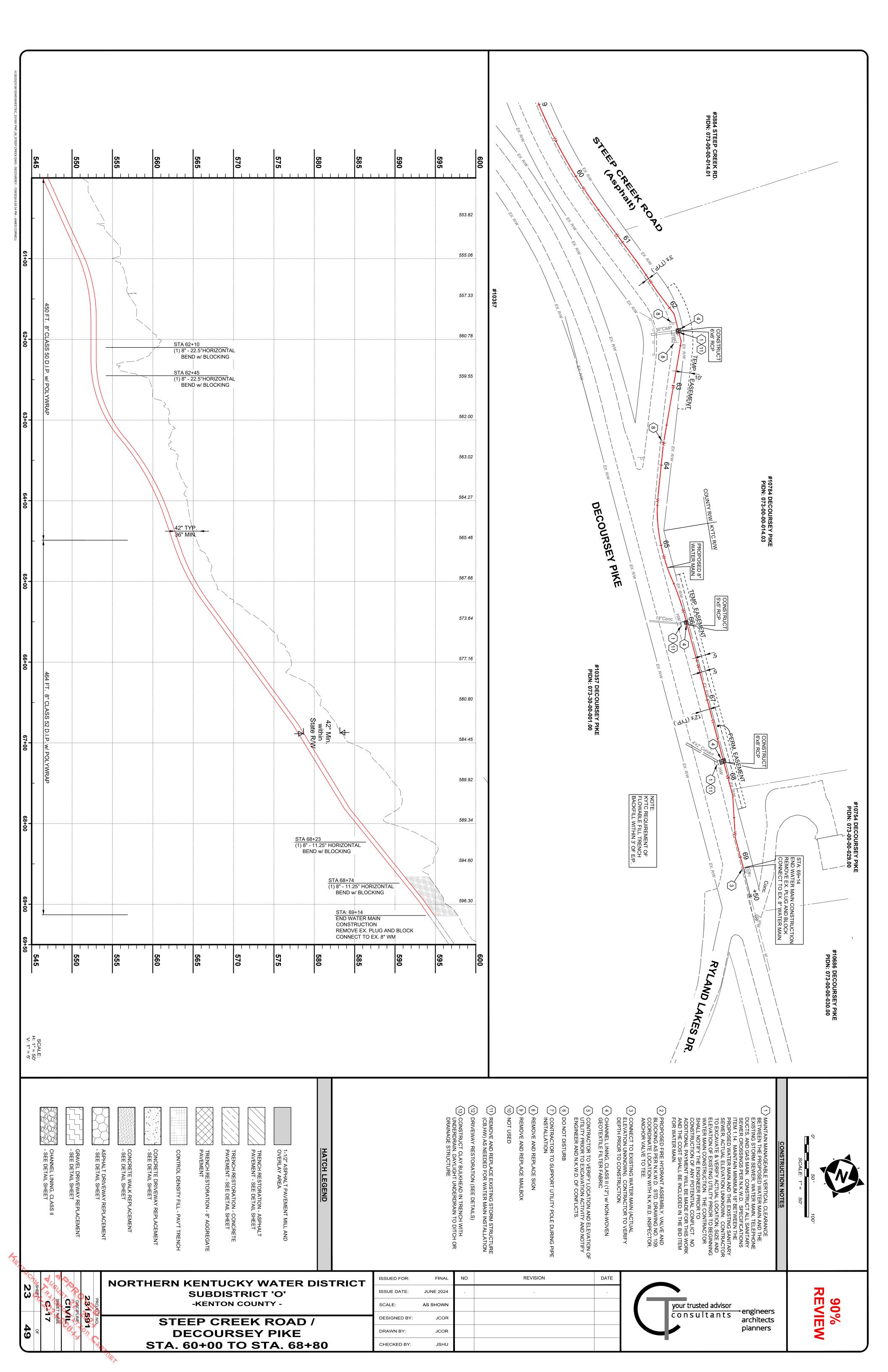
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| -KENTON COUNTY - | |
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KYTC Division of Maintenance Permits Branch District 6



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.



| Permit No. —— | TC 99-21E |
|---------------|-------------|
| | 01/2023 |
| I. SAFETY | Page 2 of 7 |

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 of more of land, you must obtain KPDES KYR 10 permit.
 Information can be found at http://water.ky.gov/permitting/Pages/GeneralPermits.aspx

| F. Additional NotesThe following additional notes apply to this permit: | 084 311 37 38 1.h |
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| | Might de Lieby High |

| 'ermit No. | TC 99-21E |
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| | 01/2023 |
| II UTILITIES | Page 3 of 7 |

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

- 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.

right of way shall be members of Kentucky 811.

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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| Peri | mit No | TC 99-21E |
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| III. | DRAINAGE | 01/2023 Page 4 of 7 |
| • | Negative impacts to existing drainage will be the applicant's responsibility to repair in accordance with SSRBC. | h KYTC |
| • | All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of including bedding and joint seating. Pipe shall not be covered until inspected by the Department and permission obtained to make backfill. It is the applicant's responsibility to request inspection. | nstallation express |
| • | All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with entrance areas or other paved areas within the right-of-way shall not be acceptable. | ith curbs or |
| • | All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall the Department specifications and shall be constructed in accordance with the KYTC's Standard Dra | |
| • | Additional notes: | |
| | | |
| | | • |
| IV. | PAVING | |
| • | No bituminous pavement shall be installed within the right of way between November 15 and April 1, the temperature is below 40 degrees Fahrenheit, without the express consent of the Department. No 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 accommodate to the Department is required prior to begin operations. Phone: Name: | ordance with |
| | 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 operations. In some cases, a pre-work inventory may be requested from the Department. | or paving |
| • | Existing pavement and shoulder material shall be removed to accommodate the above paving specific | ications. |
| • | The finished surface of all new pavement within the right of way shall be true to the required slope an uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent by pavement or as determined by KYTC. | |
| • | To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highwap pavement and shall slope away from the existing edge of the pavement as specified in drawings | S OT |
| • | Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement, edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Depa Highways Standard Specifications (latest edition), shall be applied between new and existing pavement. | rtment of |
| • | Additional notes: | |
| | Culchy Chris | |
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| 'ermit No. | TC 99-21E |
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| | 01/2023 |
| V ENTRANCES | Page 5 of 7 |

• 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.
- KTYC 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 KTYC maintenance facility.

| • | Additional notes: |
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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: | St. 80 COL |
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| Permit No. | TC 99-21E |
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VII. SIDEWALK SPECIFICATIONS

Page 6 of 7

• 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: |
|---|-------------------|
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| | |

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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| | Children Color |

| | ermit No | TC 99-21 |
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| 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. RIGHT OF WAY FENCE RESTORATION | 01/202 Page 7 of |
| 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: | | rotect against |
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| tionality 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: | The fence materials and design shall meet accepted industry standards and be treated as paintable finish materials such as vinyl are acceptable. | le. Durable |
| 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: | tionality and state of repair. All work on the fencing shall be performed by access from the private | e level of func- property. Ac- |
| The control of access shall not be diminished as a result of replacement of the fence. Additional notes: | | |
| Additional notes: | 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. | |
| C. MISCELLANEOUS NOTES | Additional notes: | |
| C. MISCELLANEOUS NOTES | | |
| K. MISCELLANEOUS NOTES | | |
| | (. MISCELLANEOUS NOTES | |
| | | |
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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.

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/

| PROPOSED 8" WATER MAIN INSTALLATION ALONG | n County - Route Latitude | |
|---|--|--------------|
| INSTALLATION ALONG | | Longitude |
| INTO EXISTING 16" WM ON MADISON PIKE | TION ALONG COAD THAT TIES Kenton - KY 17 38.80859 TING 16" WM ON | 2 -84.497293 |



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,

Linzy Brefeld

Limy Brefeld

D6 Permits Supervisor

Attachments



APPROVITORAL CARTINETA CONTROL CARTINETA CARTI



Kentucky Transportation Cabinet Department of Highways Division of Maintenance Permits Branch

ENCROACHMENT PERMIT

| KYTC KEPT #: | 06-2024-00840 | |
|------------------------|----------------------------------|-----------------|
| Permittee: | Northern Kentucky Water District | |
| Permit Type / Subtype: | Utilities / Water | |
| Work Completion Date: | 8/26/2025 | |
| | INDEMNITIES | |
| Туре | 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 b | peen: APPROVED X | 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 |



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



TC 99-1A Rev. 10/2020 Page 1 of 4

APPLICATION FOR ENCROACHMENT PERMIT

| | | күтс н | (EPT #: 06-2024-008 | 340 |
|--|--|--------------------|----------------------------|-------------------|
| SECTION 1: APPLICANT CONTACT II | NFORMATION | | | |
| APPLICANT | ADDRESS | | | |
| NORTHERN KY WATER DISTRICT | 2835 CRESCENT SF | PRINGS PIKE | | |
| EMAIL | CITY | | STATE | ZIP |
| sbroering@nkywater.org | ERLANGER | | KY | 41018 |
| CONTACT NAME 1 | EMAIL | | PHONE # 859-426 | 5-2728 |
| Steve Broering | sbroering@nkywa | ter.org | CELL# | |
| CONTACT NAME 2 (if applicable) | EMAIL | | PHONE # | |
| | | | CELL# | |
| SECTION 2: PROPOSED WORK LOCA | ATION | | | |
| ADDRESS | CITY | | STATE | ZIP |
| | DEMOSSVILLE | | Kentucky | 41033 |
| COUNTY | ROUTE # | MILE POINT | LONGITUDE (X) | LATITUDE (Y) |
| KENTON | 17 | 1.1 | 84D28'30"W | 38D49'08"N |
| ADDITIONAL LOCATION INFORMATION MADISON PIKE (KY 17) AT ELLIOTT ROA | | | | |
| | FOR KYT | C USE ONLY | | |
| PERMIT TYPE: Air Right Entra | nce 🗷 Utilities | Vegetation Rer | moval | |
| ACCESS: Full Partia | al x by Permit | LOCATION: [| Left Right | Crossing |
| SECTION 3: GENERAL DESCRIPTION | OF WORK | | | |
| PROPOSED 8" WATER MAIN INSTALLAT | ION ALONG ELLIOT | T ROAD THAT TIES I | NTO EXISTING 16" WN | A ON MADISON PIKE |
| THE UNDERSIGNED APPLICANT(s), be <u>unedited</u> terms and conditions Steve Bro | ON THE TC 99-1A, pa | | 7-15-2024 | L ORIGINAL |
| This is not a permit unless and until shall become void if not approved by from the date the applicant submits | the applicant(s) rec y the cancellation dat | | | |



TC 99-1A Rev. 10/2020 Page 2 of 4

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.

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TC 99-1A Rev. 10/2020 Page 3 of 4

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), |
| | |
| | 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 |

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.

Algrain bookings



TC 99-1A Rev. 10/2020 Page 4 of 4

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 | Engineering Technician | |
| NAME (Utility Representative) | TITLE (Utility Representative) | |
| Steve Browning | 7-15-2024 | |
| SIGNATURE (Utility Representative) | DATE | 7 |



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

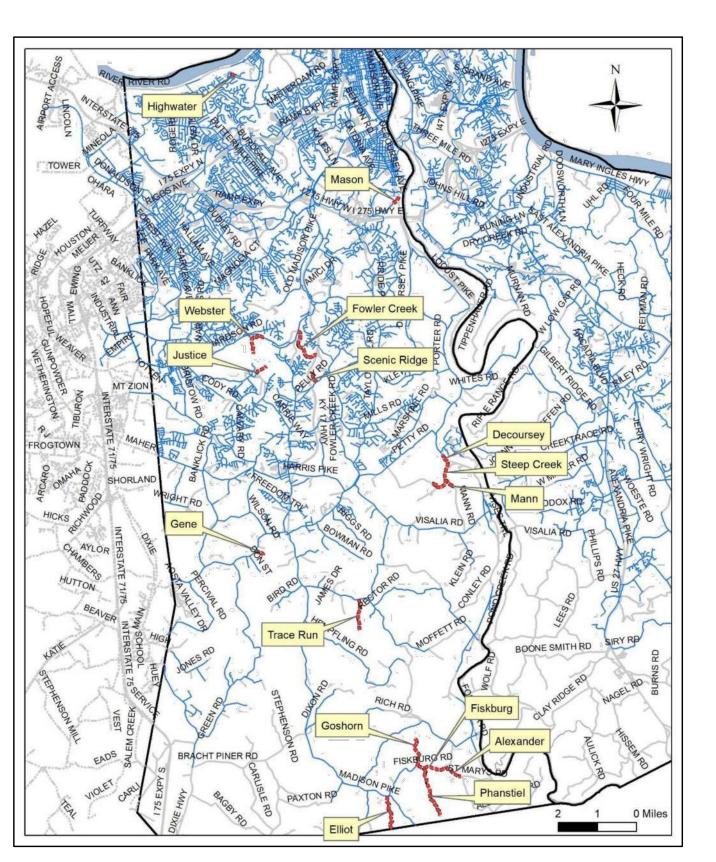
NORTHERN KENTUCKY WATER DISTRICT **SUB-DISTRICT 'O'** WATER MAIN EXTENSION

KENTON COUNTY, KENTUCKY 231591

NORTHERN KENTUCKY WATER DISTRICT OFFICIALS

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

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND

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.

| | INDEX | K OF SHEETS |
|-------|--------------|------------------------|
| NO. | DWG NAME | SHEET NAME |
| 1 | TTL | TITLE |
| 2 | G-01 | GENERAL NOTES & LEGEN |
| 3 | G-02 | DETAILS |
| 4 | G-03 | DETAILS |
| 5 | G-04 | DETAILS |
| 6 | G-05 | EROSION CONTROL DETAIL |
| 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 / DECOURSE |
| 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 |

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| | | | | |

| →engineers | architects | planners |
|----------------------|-------------|----------|
| your trusted advisor | consultants | } |
| | | |

| THERN KENTUCKY WATER DISTRICT SUBDISTRICT 'O' -KENTON COUNTY - TITLE SHEET THERN KENTUCKY WATER DISTRICT SCALE: MAY 2024 DOWN DISTRICT SCALE: AS SHOWN DESIGNED BY: JCOR DRAWN BY: JCO | REVISION |
|--|----------|
| CHECKED BY: JSHU | |

PROJECT NO.

231591

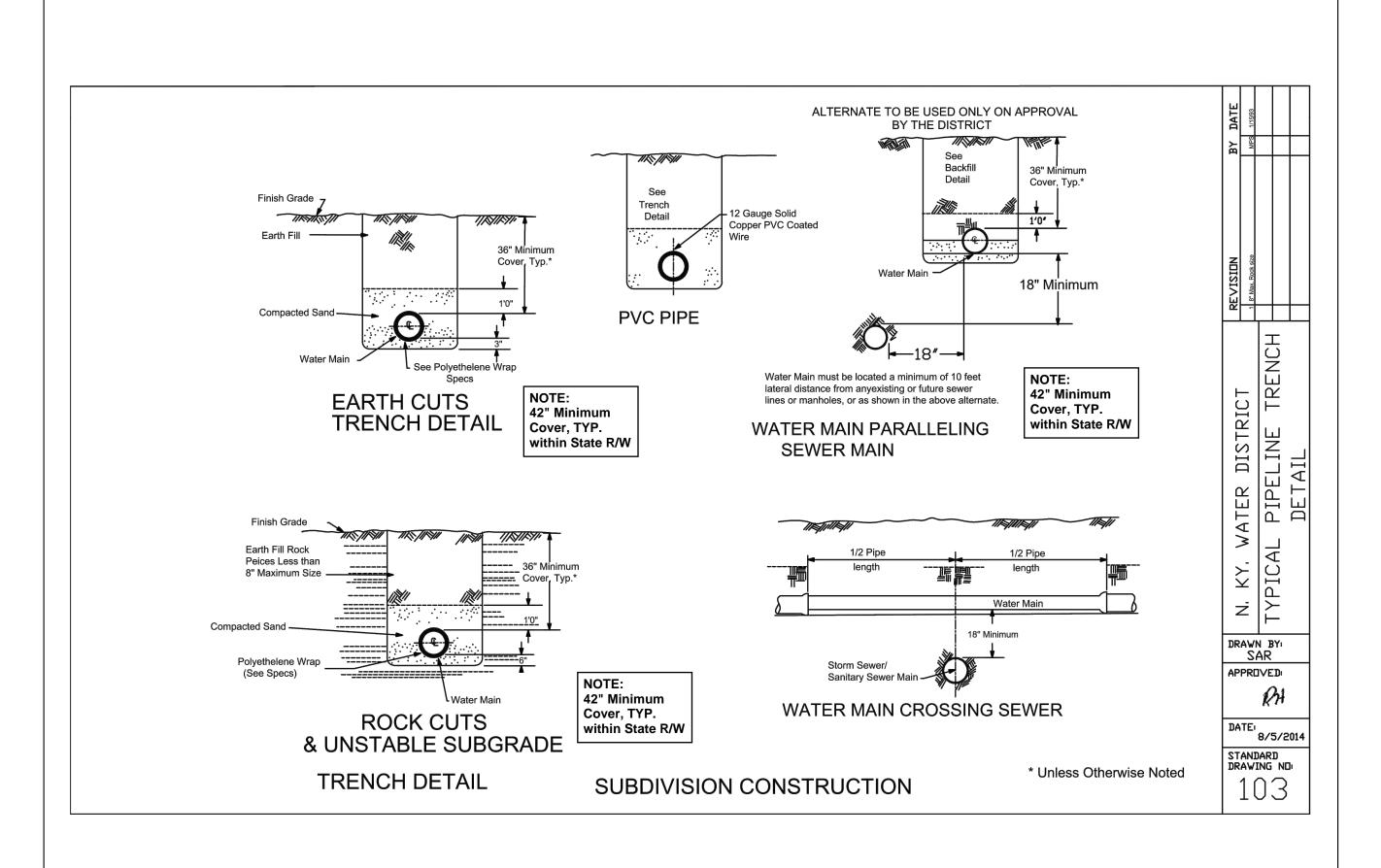
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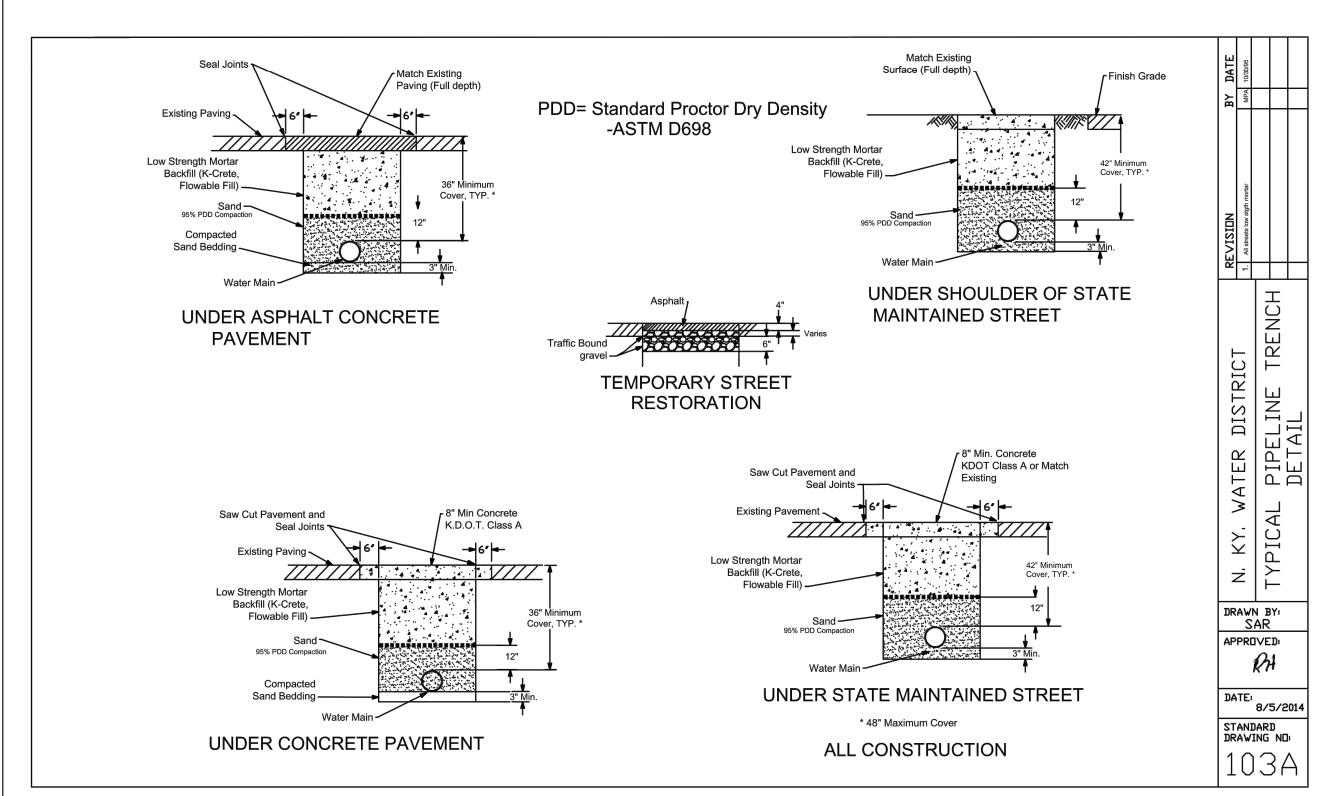
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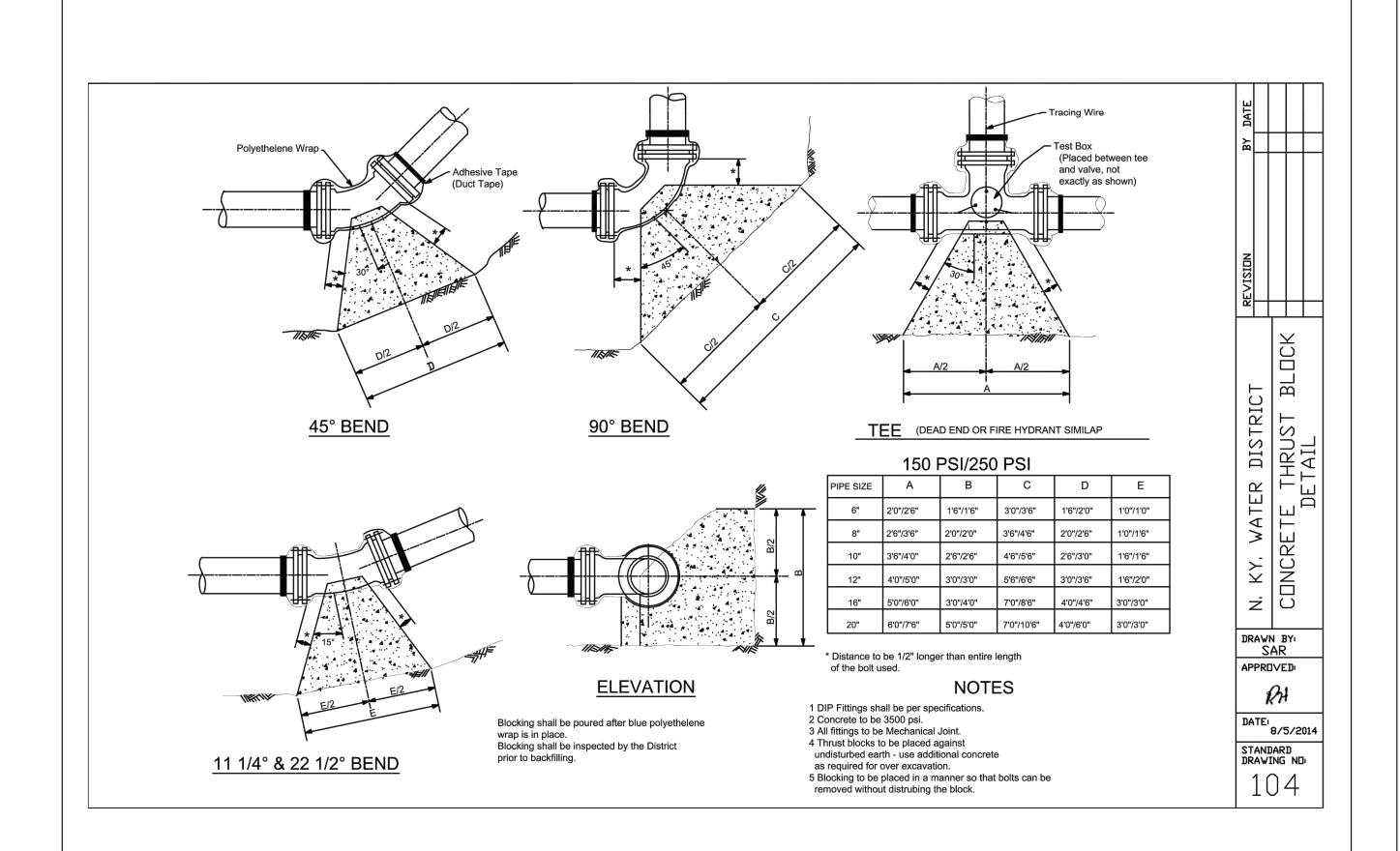
KENTUCKY TRANSPORTATION CABINET SPECIFICATIONS

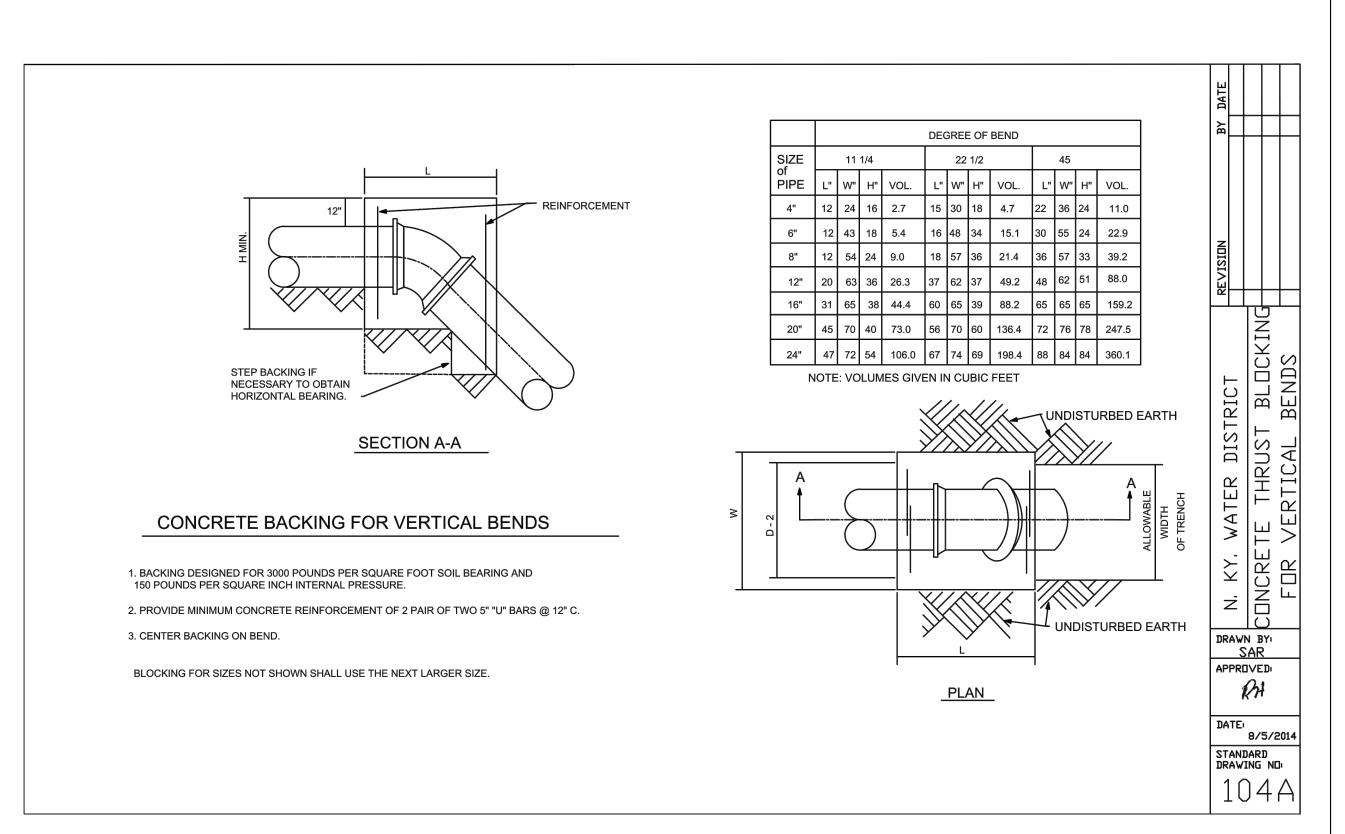
KENTON COUNTY SUBDIVISION REGULATIONS SHALL GOVERN THIS IMPROVEMENT.

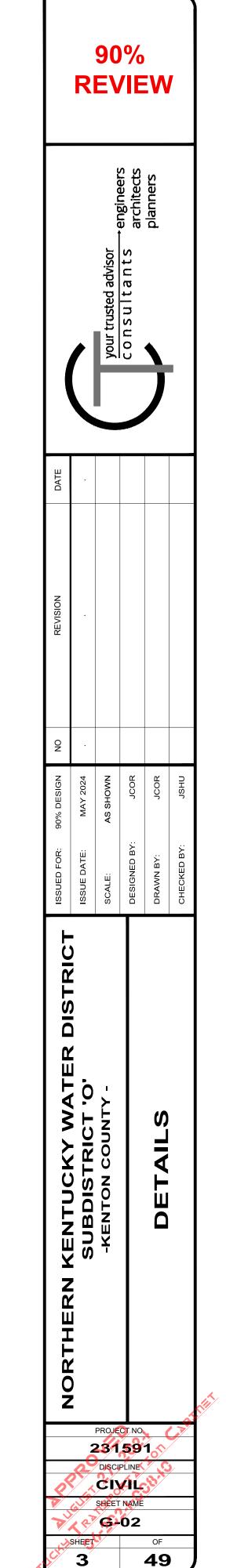
| | m.' - | GENERAL TRENCH EXCAVATION NOTES 1. CONTRACTOR IS TO PROVIDE CONSTANT STABLE SUPPORT FOR THE WATER MAIN TRENCH EXCAVATION (ie SHEETING, SHORING, ETC.) TO PROTECT ALL ADJACENT EXISTING UTILITIES, STORM SEWER PIPE AND STRUCTURES AND THE EXISTING ROADWAY FROM ANY MOVEMENT. (NO ADDITIONAL PAYMENT 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. TRENCH SUPPORT FAILURE RESULTING IN ADVERSE IMPACT TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 2. TRENCH EXCAVATION AND OPEN, UNBACKFILLED LENGTH OF WATER MAIN TRENCH SHALL BE LIMITED AS NECESSARY ALONG THE ROADWAY IN ORDER TO PREVENT MOVEMENT OF, OR DAMAGE TO THE SURROUNDING GROUND SURFACE, NEARBY STRUCTURES/INFRASTRUCTURE AND THE EXISTING ROADWAY | ALL APPLICABLE RECOMMENDATIONS IN NEW HOCKY'S BEST IMANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND. 4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM PLANNING AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY. 5. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHT NOWNER AND APPROVED BY FORT N.K.W.D. 6. ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION SHALL COMMENCE UNTIL ALL STATE, COUNTY AND LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED 8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE KENTUCKY THANSPORTATION CABINET AND KENTON COUNTY AND ANY LOCAL MUNICIPALITY, LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS. 9. ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY. ALL COST FOR ABOVE SHALL BE INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL. AND WATER POLLUTION CONTROL AND WATER POLLUTION CONTROL AND WATER POLLUTION CONTROL AND WATER POLLUTION CONTROL INVESTIGATION REPORT PREPARED BY G.A.I. CONSULTANTS DATED FEBRUARY 2024. | ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFIC THE LATEST EDITION OF THE NORTHERN KENTUCKY WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS AND THE KENTON COUNTY SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCENTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAY AFTER CONSTRUCTION. |
|---|--|---|--|---|
| ELECTRIC NOTES 1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY | 2. CONTRACTOR MAY NOT USE WATER FROM FIRE HYDRANTS WITHOUT PRIOR PERMISSION FROM NKWD 1. ALL WORK RELATING TO GAS MAINS OR GAS SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY | 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. 3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE PRECONSTRUCTION MEETING. 4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED TAPPER BY SD1. WATER NOTES 1. ALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND | 3. TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT. 4. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. STORM & SANITARY NOTES STORM & SANITARY NOTES 1. ALL STORM AND SANITARY ITEMS SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND DETAILS FROM SD1. METAL PIPE MATERIALS SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON | 1. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE 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 TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE. 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 |
| 18. CONNECT SERVICE LINE (3/4" THRU 2"). INCLUDES THE LABOR, EQUIPMENT, EXCAVATION, BEDDING, BACKFILL, ASPHALT PAVEMENT, CONGRETE EXCAVATION, EDDING, ENCORCRETE 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 TO AND INCLUDING THE METER VAUL AND METER SETTING. ALL SERVICE LINE MATERIAL WILL BE SUPPLIED BY NKWD. PAID EACH (EA). 19. THE CONTRACTOR SHALL COORDINATE WITH THE NORTHERN KENTUCKY WATER DISTRICT FOR FIELD INSPECTIONS. 20. FORTY-EIGHT (4/8) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THE KENTUCKY UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. 21. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL KYTC, COUNTY AND/OR LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED. 22. CONTRACTOR IS RESPONSIBLE FOR DEWATERING TRENCH DURING INSTALLATION OF THE WATER MAIN. TEMPORARY FLUSHING DEVICES, TEMPORARY PLUG AND BLOCKS, AND ABANDONING THE EXISTING MAIN SHALL BE INCIDENTAL TO THE PROJECT. 24. ALL PAVEMENT SHALL CONFORM TO THE LATEST EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND KENTON COUNTY SUBDIVISION REGULATIONS. | S CAMCART RACIZA SCHOP | | THE ENGINEER OR OWNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF THE UTILITIES AND TO BEEN VERIFIED BY THE ENGINEER OR OWNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF THE UTILITIES AND TO COORDINATE ANY IMPACT CAUSED BY THE PROPOSED WORK WITH ALL UTILITY OWNERS AND/OR THEIR CONTRACTORS. THE CONTRACTOR WILL BE REQUIRED TO DIG TEST HOLES AT ALL UTILITY CROSSINGS TO LOCATE THE UTILITY AS TO BOTH LOCATION AND ELEVATION AND WILL BE REQUIRED TO REALIGN AND ADJUST THE ELEVATION OF THE PROPOSED WATER MAIN TO AVOID THE UTILITY. COST OF ALL THE ABOVE SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE. 4. UNLESS SPECIFICALLY INSTRUCTED OTHERWISE, RETURN ALL REMOVED WATER EQUIPMENT INCLUDING, FIRE HYDRANTS, VALVES, AND WATER MAIN TO OVERALL CONTRACT PRICE. 5. WATERLINES CROSSING UNDER OR OVER SEWER LINES (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" AND ONE FULL LENGTH OF PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED. 6. CONTRACTOR IS RESPONSIBLE FOR KEEPING FIELD NOTES THAT PROVIDE SUFFICIENT DATA FOR PREPARING "RECORD DRAWINGS" UPON COMPLETION OF CONSTRUCTION. 7. ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE NORTHERN KENTUCKY WATER DISTRICT'S STANDARD DRAWINGS. 8. ALL MATERIAL FOR OBTAINING A CURRENT COPY OF THE NORTHERN KENTUCKE FOR WATER MAIN. | 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 MAIN LOCATION AND ELEVATION. THE EXISTING WATER MAIN LOCATION MAY REQUIRE SOME FIELD ADJUSTMENT TO THE PROPOSED WATER MAIN INCLUDING ADJUSTING THE DEPTH OF THE PROPOSED WATER MAIN INCLUDING THE ABOVE SHALL BE INCIDENTAL TO THE PERTINENT WATER MAIN ITEM. 2. COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, ETC. SHALL BE INCIDENTAL TO THE PROPERTY OWNER ALONG WITH COUNTY OR STATE WHEN REQUIRED. |
| TRENCH RESTORATION - ASPHALT PAVEMENT - SEE DETAIL SHEET TRENCH RESTORATION - CONCRETE PAVEMENT - SEE DETAIL SHEET TRENCH RESTORATION - 8" AGGREGATE PAVEMENT - SEE DETAIL SHEET CONCRETE DRIVEWAY REPLACEMENT - SEE DETAIL SHEET GRAVEL DRIVEWAY REPLACEMENT - SEE DETAIL SHEET CHANNEL LINING, CLASS II - SEE DETAIL SHEET | HATCH LEGEND 1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA | EROSION CONTROL LEGEND (P) INLET PROTECTION (SEE DETAIL) (SF) SILT FENCE (SEE DETAIL) | 4. RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR PROPERTY AT ALL TIMES. 5. EACH DRIVEWAY SHALL BE ACCESSIBLE WHENEVER POSSIBLE. WHEN PORTLAND CEMENT CONCRETE CONSTRUCTION AFFECTS A DRIVEWAY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS 24 HOURS IN ADVANCE AND ADVASE THEM TO FIND ALTERNATIVE PARKING FOR A PERIOD OF AT LEAST 10 CALENDAR DAYS AFTER THE POUR. ALTERNATIVE PARKING SHALL INCLUDE "ON STREET" PARKING WITH ACCESS TO THE PROPERTY. TEMPORARY SIDEWALKS, ETC. WILL BE NECESSARY TO PREVIENT PERSONS FROM WALKING IN MUD IN ORDER TO ENTER THEIR PROPERTY. TEMPORARY BRIDGES, RAILINGS ETC. WILL BECOME NECESSARY IN ORDER TO CROSS FORWED CURB LINES, EXCAVATED AREAS BEHIND CURB LINES AND WALKWAYS, ETC. | MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF KTC 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. 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT. 3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE STATE, COUNTY AND/OR LOCAL POLICE DEPARTMENTS. AT ALL TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS. |
| TING TING TING TING TING TING TING TING | 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 GAS BOX EXISTING GAS BOX EXISTING GAS BOY E | FM FO FN PROPOSED SANITA FO PROPOSED FIBER (| EXISTING FENCE EXISTING FENCE EXISTING CONTOURS (MAJOR) EXISTING CONTOURS (MINOR) EXISTING CONTOURS (MINOR) EXISTING RIGHT OF WAY EXISTING RESEMENT EXISTING RESEMENT EXISTING RESEMENT EXISTING FREE LINE EXISTING FREENTLY EXISTING FREE LINE EXISTING FREENTLY EXISTING FREENT | SYMBOL LEGEND |
| NORTHERN KENTUCKY SUBDISTRIC -KENTON COU GENERAL NOTES | WATER DISTRICT CT 'O' JNTY - | ISSUED FOR: 90% DESIGN NO REVISION ISSUE DATE: MAY 2024 SCALE: AS SHOWN DESIGNED BY: JCOR DRAWN BY: JCOR | your trusted advisor c o n s u l t a n t s arch | ineers altects aners |



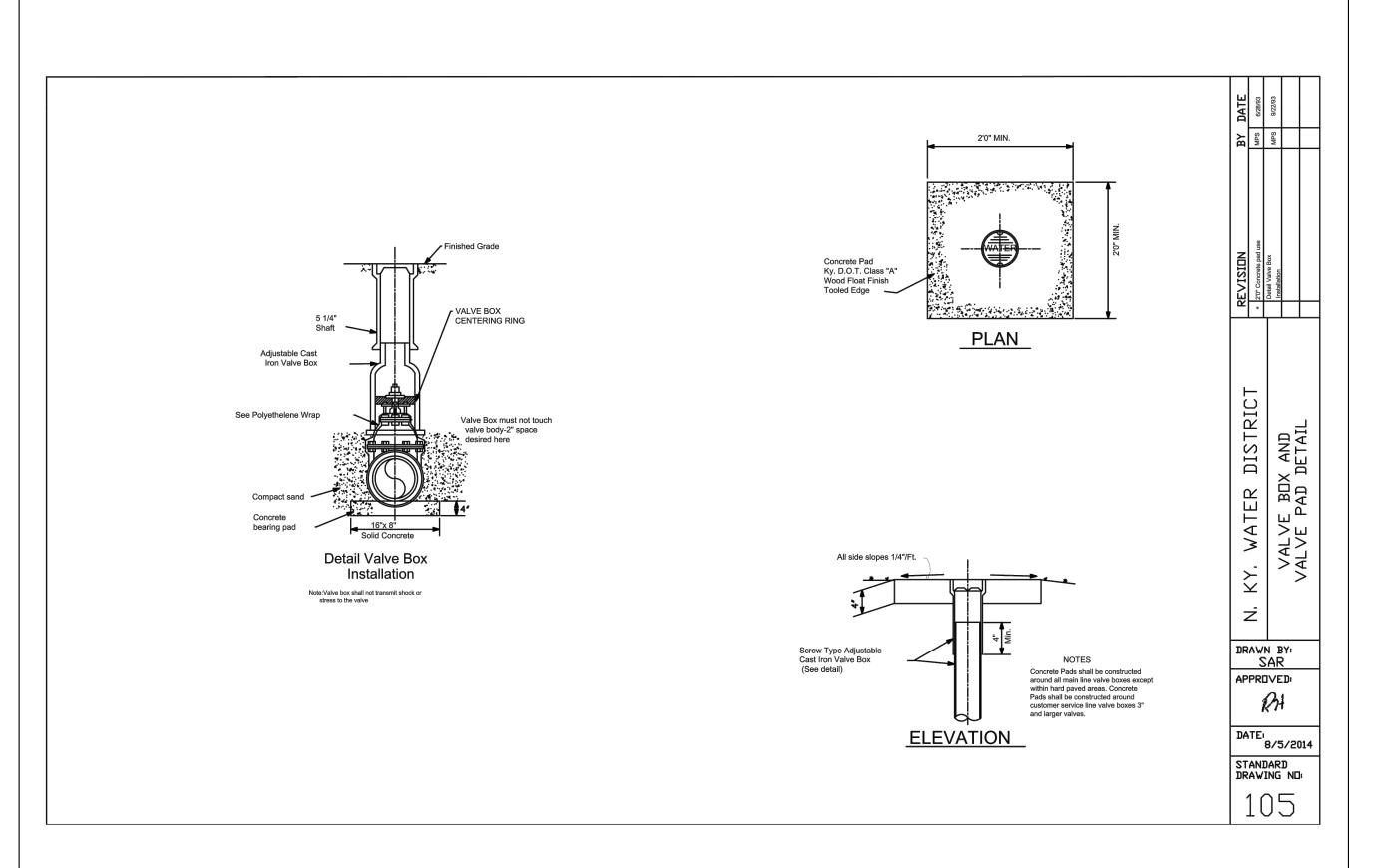


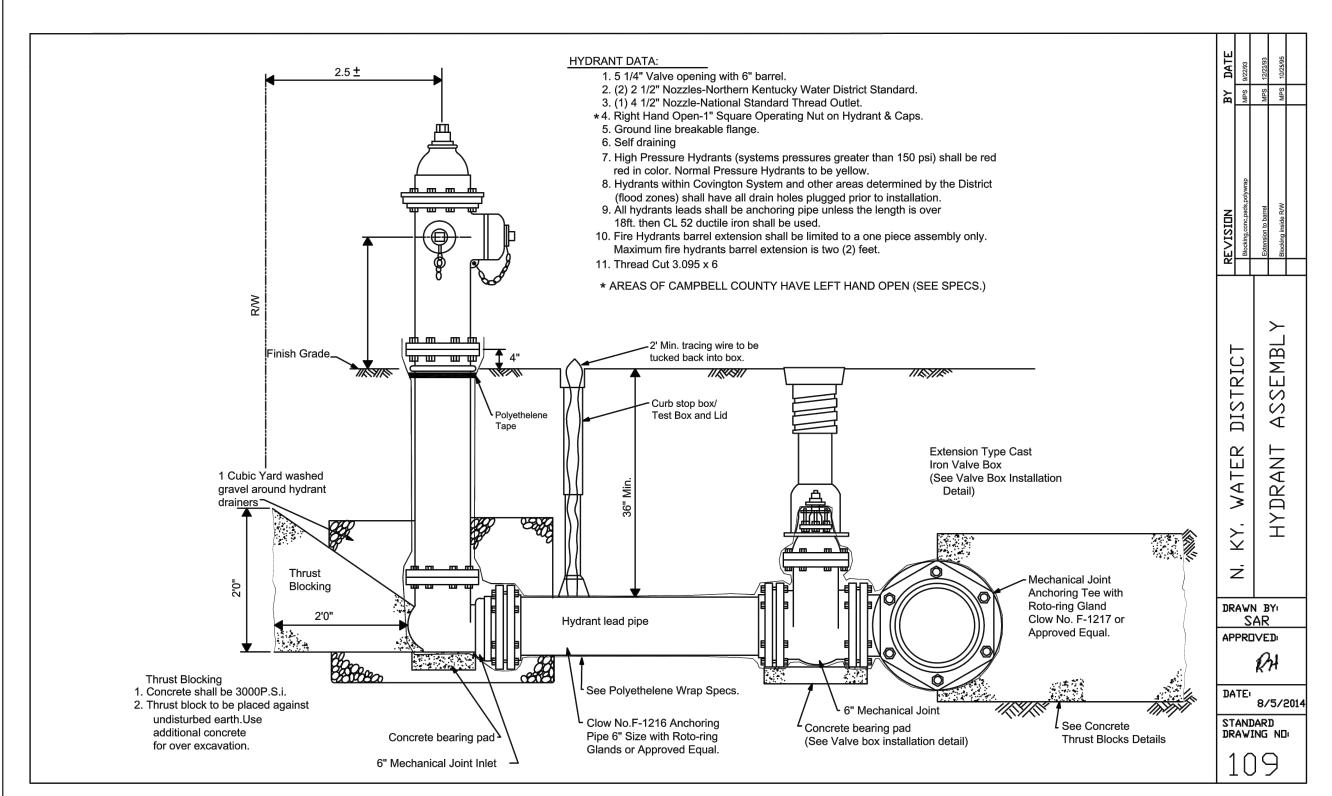


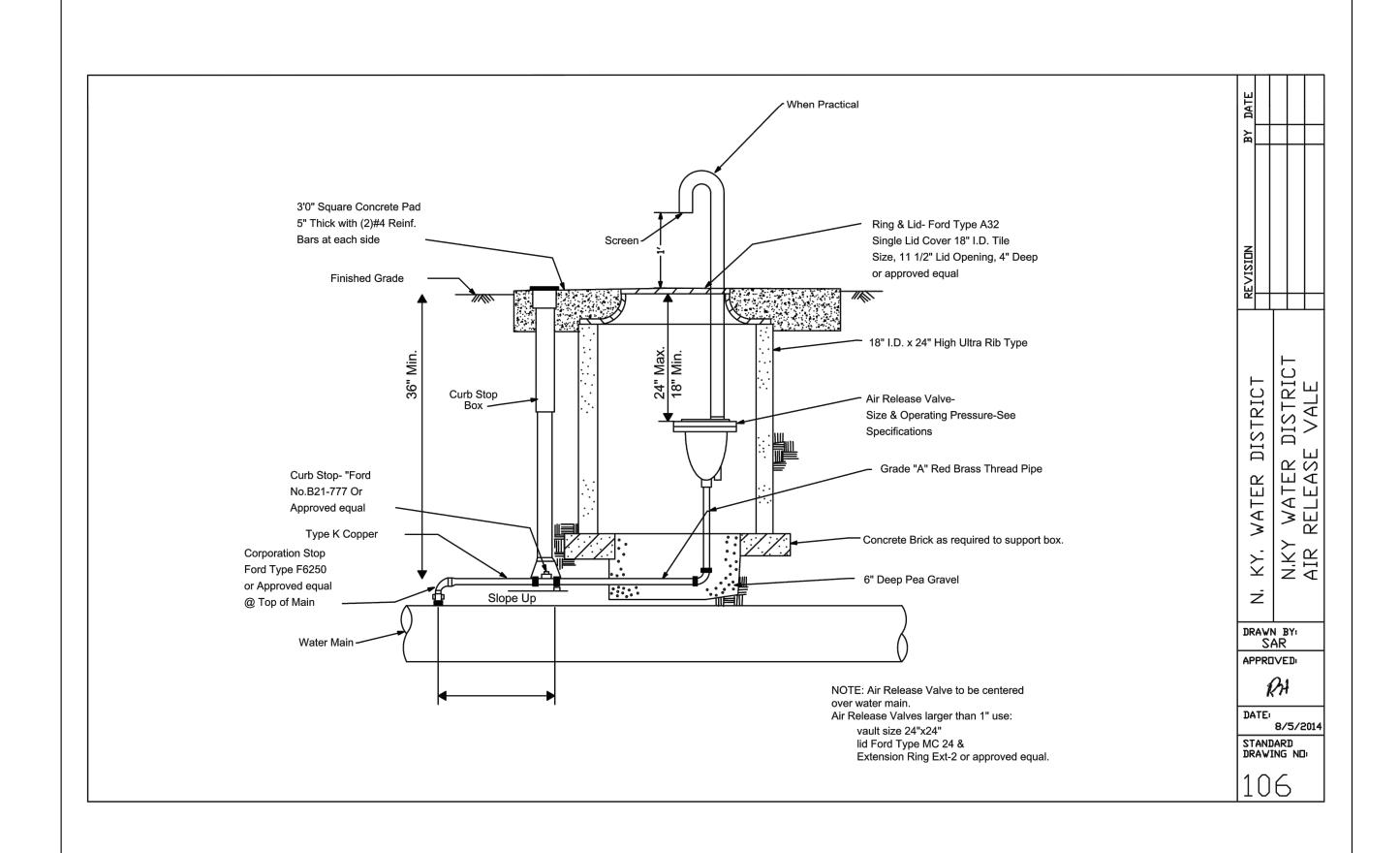




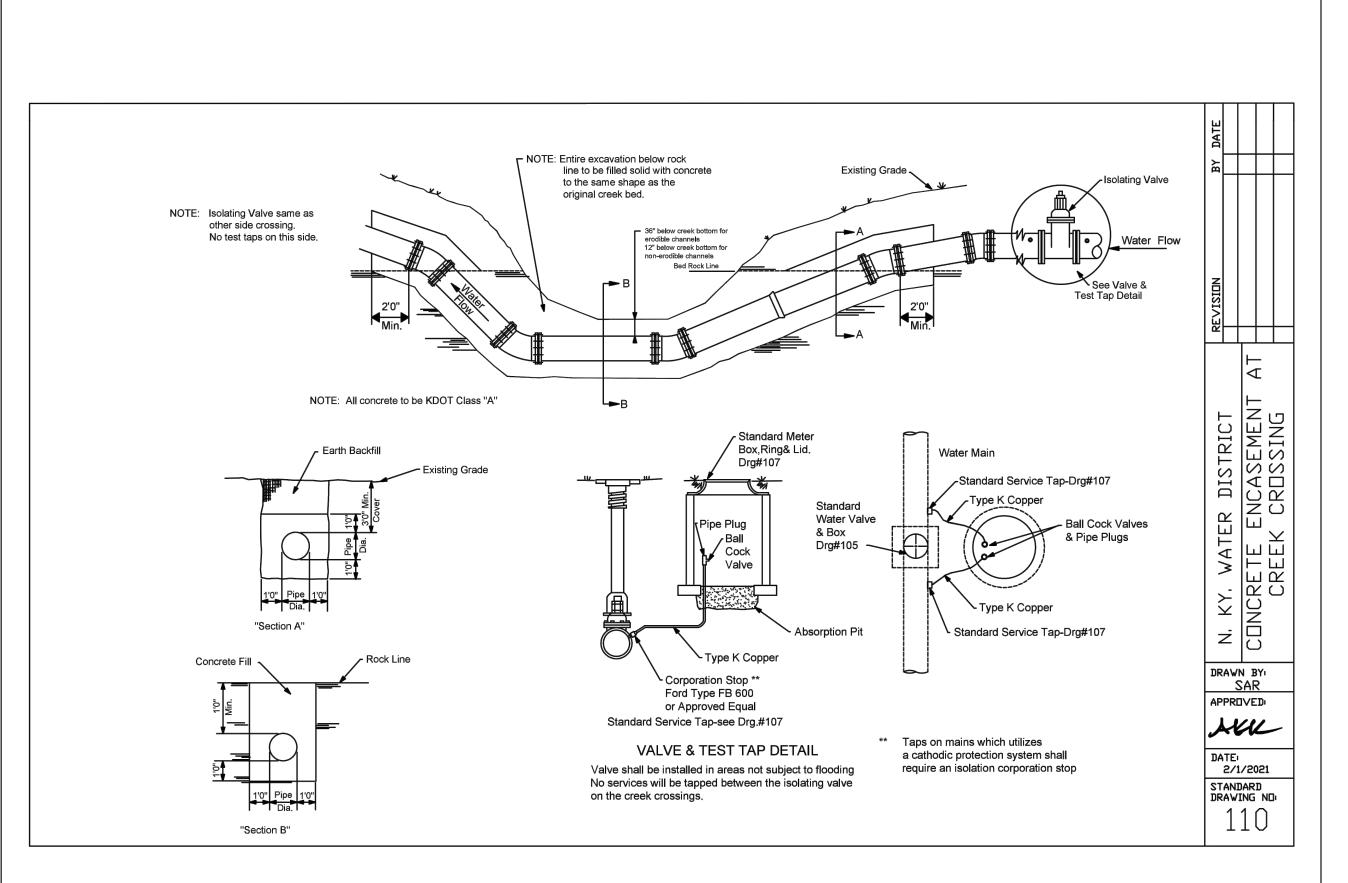
\\CTC.LOCAL\CT_DATA\PROJECTS\2023\231591\DWG\SHEETS\C_231591 00_DETAIL SHEET.DWG - NKWD DTLS - 5/28/2024 2:45:27 PM - JAMES CORNELL

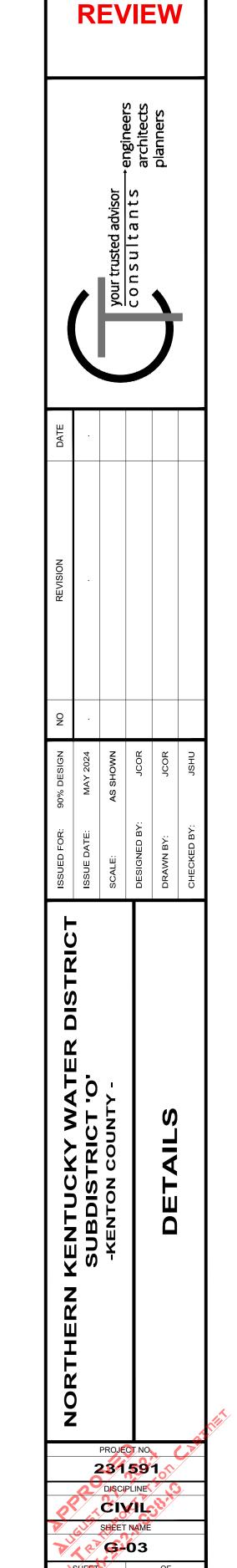


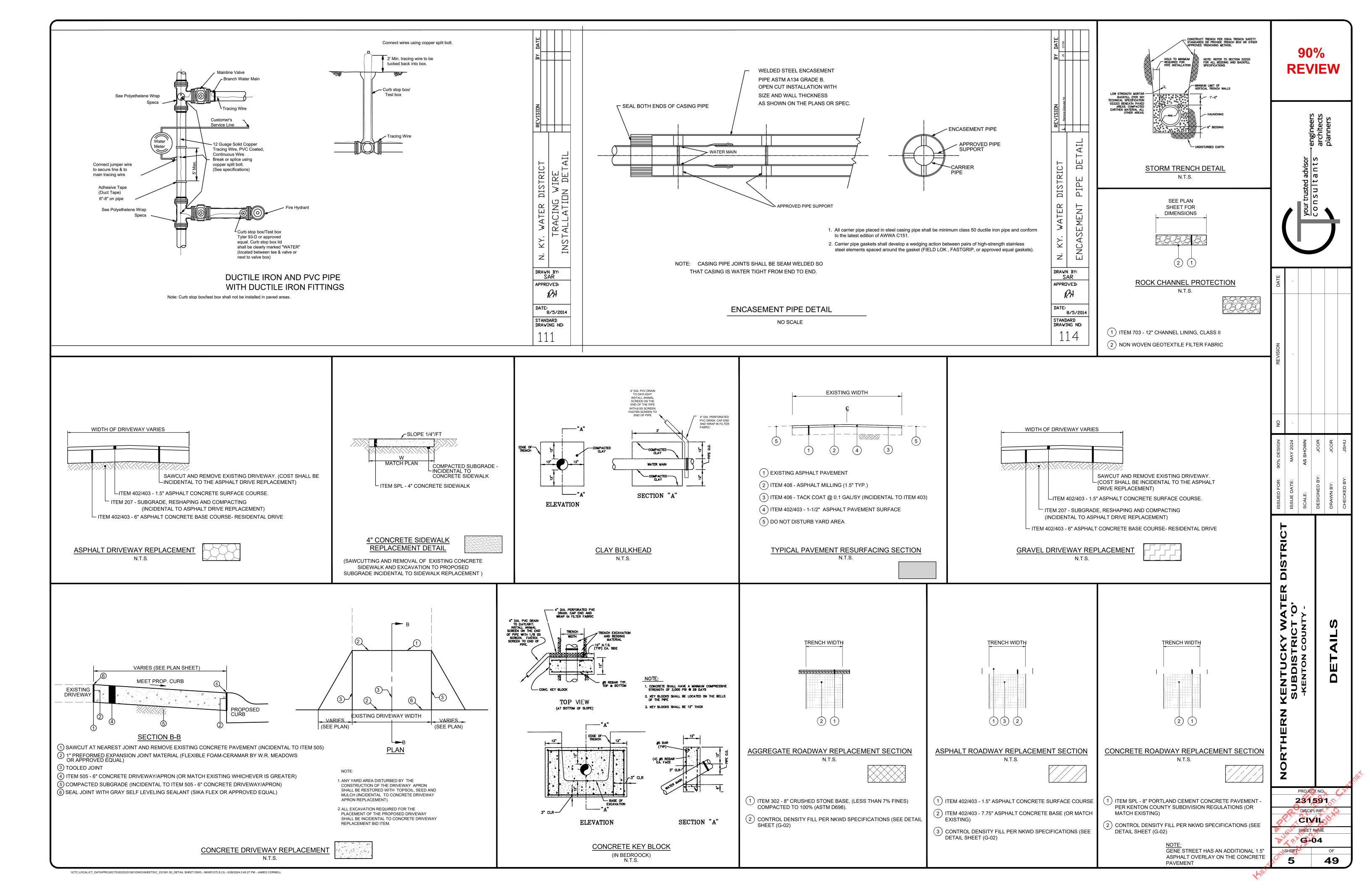




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SEDIMENT BASINS

DEFINITION A TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A WATERCOURSE OR AT OTHER SUITABLE LOCATION TO RETAIN SEDIMENT AND OTHER WATERBORNE DEBRIS.

THE SITE SHALL BE GRADED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.

TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

14' MIN AND NOT LESS THAN WIDTH OF

INGRESS/EGRESS

PPLYING FERTILIZER AS OF A SOIL TEST, R AT 500 LB/AC. OF PERTILIZER SHALL BE

PLAN VIEW

ANY PAVED SURFACE

16" MHV

SEED BED

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.

70' MIN.
(30' MIN. FOR ACCESS TO INDIVIDUAL HOUSE LOT)

ANY PAVED SURFACE

-STRAW BALE -BINDING WIRE

ODOT ITEM #304 — 8"

LEVEL CONTOUR NO SLOPE

STORM GRATE

STIC LINING

5' FLAT SLOPE IN FRONT OF BARRIER

SCOPE
THIS STANDARD ESTABLISHES MINIMUM ACCEPTABLE QUALITY FOR THE DESIGN AND CONSTRUCTION OF TEMPORARY SEDIMENT BASINS FORMED BY AN EMBANKMENT, EXCAVATION OR A COMBINATION OF EMBANKMENT AND EXCAVATION THE STANDARD IS LIMITED TO SITES WHERE:

THE HEIGHT OF DAM IS 25 FEET OR LESS, AS MEASURED FROM THE NATURAL STREAMBED AT THE DAM TO THE TOP OF DAM. FAILURE OF THE STRUCTURE WOULD NOT RESULT IN LOSS OF LIFE; DAMAGE TO HOMES; COMMERCIAL OR INDUSTRIAL BUILDINGS; DAMAGE TO HIGHWAYS OR RAILROADS OR INTERRUPTION OF USE OR SERVICE PRIVATE UTILITIES.

THE TOTAL VOLUME OF STORAGE IS 150 ACRE-FEET OR LESS.

SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY 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.

THE BASIN WILL BE REMOVED WITHIN A THREE-YEAR PERIOD AFTER CONSTRUCTION THE DRAINAGE AREA IS 100 ACRES OR LESS.

PURPOSE TEMPORARY SEDIMENT BASINS ARE USED AS A MEANS OF TRAPPING AND STORING SEDIMENT FROM ERODING AREAS ORDER TO PROTECT DOWNSTREAM AREAS FROM DAMAGE RESULTING FROM SEDIMENTATION AND WATERBORNE DEBRIS.

CONDITIONS WHERE PRACTICE APPLIES TEMPORARY SEDIMENT BASINS APPLY WHERE PHYSICAL SITE CONDITIONS OR OTHER RESTRICTIONS PRECLUDE THE INSTALLATION OF EROSION CONTROL MEASURES TO ADEQUATELY CONTROL EROSION AND SEDIMENTATION. IT MAY USED DOWNSLOPE FROM CONSTRUCTION OPERATIONS WHICH EXPOSE AREAS TO EROSION. TEMPORARY SEDIMENT BASINS WILL BE REMOVED AFTER THE EXPOSED AREAS ARE ADEQUATELY PROTECTED AGAINST EROSION BY VEGETATIVE OR MECHANICAL MEANS.

OMPLIANCE WITH LAWS AND REGULATIONS ESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

LOCATION

TO IMPROVE THE EFFECTIVENESS OF THE BASIN, IT SHOULD BE LOCATED SO AS TO INTERCEPT THE LARGEST POSSIBLE AMOUNT OF RUNOFF FROM THE DISTURBED AREA. THE BEST LOCATIONS ARE GENERALLY LOW AREAS AND NATURAL AMOUNT OF RUNOFF FROM THE DISTURBED AREAS. DRAINAGE INTO THE BASIN CAN BE IMPROVED BY THE USE OF DIVERSION DIKAINAGEWAYS BELOW DISTURBED AREAS. DRAINAGE INTO THE BASIN CAN BE IMPROVED BY THE USE OF DIVERSION DIKES AND DITCHES. THE BASIN SHOULD BE LOCATED TO TRAP SEDIMENT-LADEN RUNOFF BEFORE IT ENTERS THE STREAM. THE BASIN SHOULD NOT BE LOCATED WHERE ITS FAILURE WOULD RESULT IN THE LOSS OF LIFE OR IN INTERRUPTION OF THE USE OR SERVICE OF PUBLIC UTILITIES OR ROADS.

ULTIPLE USE

EDIMENT BASINS MAY BE DESIGNED AS PERMANENT STRUCTURES TO REMAIN IN PLACE AFTER CONSTRUCTION IS
OMPLETED. SITE CONDITIONS MAY MAKE THE USE OF THESE STRUCTURES DESIRABLE FOR STORMWATER DETENTION
URPOSES. WHEREVER THESE STRUCTURES ARE TO BECOME PERMANENT, OR IF THEY EXCEED THE SIZE LIMITATIONS
F THE DESIGN CRITERIA, THEY MUST BE DESIGNED AS PERMANENT PONDS BY A QUALIFIED PROFESSIONAL ENGINEER.
ERMANENT PONDS ARE BEYOND THE SCOPE OF THESE STANDARDS AND SPECIFICATIONS. THE PERMANENT
TRUCTURES MUST BE SUBMITTED WITH CONSTRUCTION DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE CITY

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, FILL
GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.
A MINIMUM OF 70% GROWTH DENSITY, BASED ON A VISUAL
INSPECTION, MUST EXIST FOR AN ADEQUATE PERMANENT
VEGETATIVE PLANTING.

APPLY ADDITIONAL STONE AS CONDITIONS DEMAND AND REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6". REMOVE AND REPLACE IF STONES BECOMES MUD-LADEN.

PERMITTIVITY

EQUIVALENT OPENING SIZE

= 20% < 0.6 MM = 0.001 CM/SEC

SAND BAG (TYP)

NOTES:

PRESERVE VEGETATION FOR 5 FEET UPSLOPE FROM THE SILT FENCE. IF SHALL BE RE-ESTABLISHED WITHIN 7 INSTALLATION.

OR AS MUCH AS POSSIBLE, VEGETATION IS REMOVED, IT DAYS FROM SILT FENCE

OF SILT FENCE

IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.

CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR TO PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

SAND BAG -PLASTIC LINING

CHANGE THE LAYOUT OF THE SILT FENCE. REMOVE ACCUMULATED SEDIMENT. INSTALL OTHER PRACTICES.

SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW:

APPLY MULCH MATERIAL IMMEDIATELY AFTE PERMANENT SEEDING SHALL INCLUDE IRRIG ESTABLISH VEGETATION DURING DRY OR HO ADVERSE SITE CONDITIONS AS NEEDED. AVCIRRIGATION AND MONITOR TO PREVENT EROFROM RUNOFF.

FTER SEEDING.
RIGATION TO
NOT WEATHER OR ON
AVOID EXCESSIVE
EROSION AND DAMAGE

BURST STRENGTH

= 320 PSI

TEAR STRENGTH

ELONGATION

PUNCTURE STRENGTH

= 80 PSI = 50 LBS.

FROM OCTOBER 1 TO NOVEMBER 20, SEEDING RATE BY 50%, PREPARE TH LIME AND FERTILIZER, MULCH AND A

), INCREASE THE HE SEED BED, ADD ANCHOR.

/ OCTOBER 1 TO RMINATE, BUT WILL NOT /ING METHODS FOR

18" OR SUFFICIENT TO DIVERT RUNOFF

GEOTEXTILE

NO. #2 RECYCLED CONCRETE AGGREGATE

AS NEEDED

10' MIN.

FROM NOVEMBER 20 TO MARCH 15, ONLY IF SOIL CONDITIONS PERMIT, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR.

PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING STONE MEETING THE MIN. SPECIFICATIONS:

PLAN VIEW
SINGLE LOCATION FOR ENTIRE PROJECT

2X4 STAKE PER BALE)

STORM DRAIN INLET PROTECTION DEFINITION A SEDIMENT FILTER INSTALLED AROUND A STORM DRAIN INLET OR CURB INLET TO REDUCE SEDIMENT DISCHARGE MAINTENANCE BASINS SHALL BE CHECKED WEEKLY AND CLEANED WHEN NO LONGER EFFECTIVE

(H

CONSTRUCTION ENTRANCE
SCALE: NONE

PLASTIC LINING

PLAN VIEW

SECTION B-B

TEMPORARY LOCATION FOR MULTIPLE PHASE PROJECT

NOTES:

WASHOUT PIT SHALL BE LOCATED 100' MINIMUM FROM INLETS, STREAMS, WETLANDS AND ANY OTHER SURFACE WATERS.

SLURRY FLOW RATE
EQUIVALENT OPENING
SIZE

ULTRAVIOLET
RADIATION STABILITY

(SF

SF

MULLEN BURST STRENGTH

190 PSI MIN

ASTM D-3786

FABRIC PROPERTIES

VALUES 90 LB. MIN

TEST METHOD
ASTM
D-1682

THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.

SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO DI ACCE

ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, SHALL BE DISPOSED OF IN THE CONCRETE WASHOUT AREA. DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASHOUT ON THE GROUND, OR IN STORM DRAINS, DITCHES OR WATER BODIES, IS PROHIBITED.

PURPOSE TO PREVENT SEDIMENT FROM ENTERING THE STORM DISCHARGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED DRAINAGE AREA. DIFFERENT TYPES OF STRUCTURES ARE APPLICABLE TO DIFFERENT CONDITIONS.

STORM WATER POLLUTION PREVENTION NOTES

SANITATION DISTRICT NO. 1 IS TO BE CONTACTED 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY AT 859-578-6892

A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A COPY OF THE "NOTICE OF INTENT" (NOI) SHALL BE KEPT ON SITE.

AN AMENDMENT OF THE SWPPP IS REQUIRED WHENEVER A CHANGE IN DESIGN, CONSTRUCTION, AND OPERATION OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS, OR IF THE SWPPP PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF SWPPP.

6. CONSTRUCTION SEQUENCE
ALL PERIMETER SILT FENCE, INLET PROTECTION AND OTHER EROSION CONTROLS SHALL BE IN PLACE BEFORE ANY OTHER EARTH MOVING ACTIVITIES BEGIN.
THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THE AREAS PLANNED FOR EARTH MOVING.
REMOVE TOPSOIL, STOCKPILE IT, AND INSTALL SILT FENCE AROUND PERIMETER.
SEED SOIL STOCKPILE WITH PERENNIAL RYE GRASS AND MULCH WITH STRAW IF NO TO BE DISTURBED FOR MORE THAN 21 DAYS.
CONSTRUCT DETENTION BASIN AND CONTROL STRUCTURE. DETENTION BASIN SHALL BE USED AS A SEDIMENT BASIN UNTIL THE SITE IS STABILIZED.
INSTALL STORM SEWER SYSTEM AND SURFACE STORM INLET AND MANHOLE PROTECTION.
ESTABLISH A TEMPORARY SEEDING ON ALL BARE AREAS THAT ARE TO REMAIN UNDISTURBED FOR MORE THAN 21 DAYS. SEED WITH PERENNIAL RYE GRASS MULCH WITH STRAW.
IMMEDIATE AFTER TOPSOIL HAS BEEN PLACED, STABILIZE THE SAME SURFACE AREA WITH FINAL SEED AND MULCH 7 DAYS AFTER REACHING FINAL GRADE.
AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL PRACTICES.

7. EROSION CONTROLS MUST BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF 0.5" OR GREATER RAINFALL. REMOVE ACCUMULATED SEDIMENT FROM EROSION CONTROLS. TEMPORARY SEEDING SHALL BE PERENNIAL RYE GRASS (40 LB / ACRED) AND MULCH AT 3 BALES OF STRAW PER 1000 S.F.

CONTRACTOR IS RESPONSIBLE FOR OBTAINING BORROW MATERIAL ONSITE AND / OR DISPOSING MATERIAL OFF SITE AS REQUIRED TO MEET INDICATED DESIGN ELEVATIONS.

CURB OPENING-WITHOUT GRATE

OF CURB INLET SEDIMENT CONTROL DEVICE
WITH CURB FILTER

 $\left(\overline{\mathbb{P}} \right)$

DANDY CURB SCALE: NONE

0

49

231,591

CIVIE

G-05

11. THE CONSTRUCTION OF BMPs SHALL BE REVISED OR ADDED IF DEEMED NECESSARY PER SECTION 1000 OF THE SANITATION DISTRICT 1 REGULATIONS. 0 DEBRIS SHALL BE COLLECTED WITHIN PROPERTY LIMITS WEEKLY OR AS NEEDED FOR PUBLIC SAFETY. SURROUNDING STREETS AFFECTED BY THE CONSTRUCTION SHALL BE CLEANED DAILY OR AS NEEDED FOR PUBLIC SAFETY. SEE CONSTRUCTION ENTRANCE DETAIL IN SWPPP DETAILS SHEET.

ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED AS SHOWN ON THE PLANS, AND SHALL BE IN COMPLIANCE WITH THE LATEST CONSTRUCTION ACTIVITY "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" RULES AND REGULATIONS.

THE CONTRACTOR SHALL ALSO MAINTAIN THE FOLLOWING RECORDS ON SITE:
A. GENERAL CONTRACTOR AND/OR SUBCONTRACTOR SWPPP CERTIFICATIONS
B. THE DATE, TIME, AND EXACT LOCATION OF THE INSPECTION, AND THE NAME OF THE INSPECTOR
C. AN ASSESSMENT OF THE CONDITION OF THE EROSION CONTROLS
D. A DESCRIPTION OF ANY EROSION CONTROL IMPLEMENTATION AND MAINTENANCE PERFORMED
E. A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION AT THE SITE

FLAT PEA TALL FESCUE TURF-TYPE FESCUE KENTUCKY BLUEGRASS KENTUCKY BLUEGRASS PERENNIAL RYEGRASS TALL FESCUE PERMANENT SEEDING DETAIL SCALE: NONE 100 - 120 100 - 120 40 - 50 10 - 20 20 - 30 20 - 25 20 - 25 20 - 30 FOR

TEMPORARY SEEDING DETAIL SCALE: NONE

(MA)

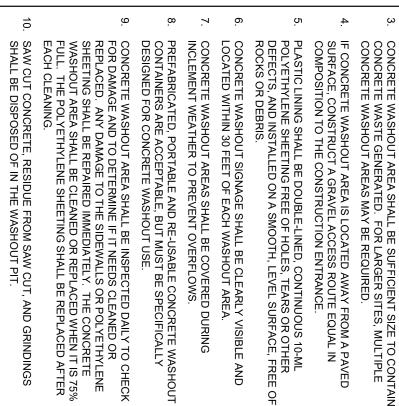
CONCRETE WASHOUT DETAIL
SCALE: NONE

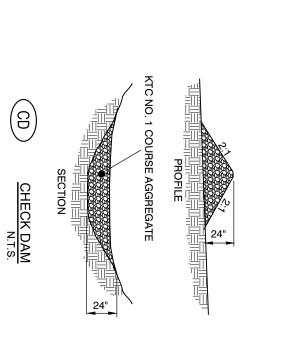
7 6 5 4 3

TALL FESCUE CROWN VETCH FESCUE TURF-TYPE FESCUE PERMANENT SEEDING FERTILIZATION PERMANENT BANKS OR CUT SEED RATE LB/AC. FORMULA 10-10-10 20 - 40 10 - 20 20 - 40 PR CLOSE MOWING AND ATERWAYS WITH ≤2.0 //SEC. VELOCITY LECTION SPRING, AND YEARLY AFTER ESTABLISHED FALL, YEARLY, OR AS NEEDED MOWING CHART I٧

NOT SEED LATER THAN NOT SEED LATER THAN MARCH 1 TO AUGUST 15 AUGUST 16 TO NOVEMBER 1 APPLY MULCHING IMMEDIATELY AFTER SEEDING.
SEEDING SHALL BE INSPECTED FOR BARE SPOTS AND WASHOUTS, AND RESEEDED AS NECESSARY. RYE TALL FESCUE PERENNIAL RYEGRASS OATS
TALL FESCUE
PERENNIAL RYEGRASS
PERENNIAL RYEGRASS
TALL FESCUE PERENNIAL RYEGRASS
TALL FESCUE WHEAT TALL FESCUE PERENNIAL RYEGRASS LB/1,000 SF

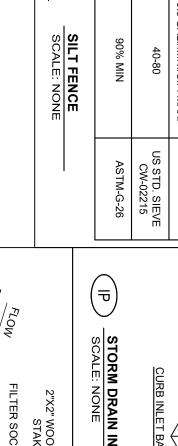
ONLY MULCH OR DORMANT 112 40 40 6 4

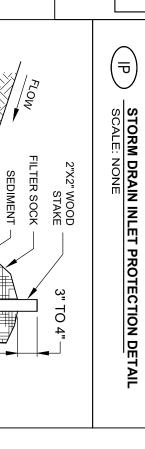


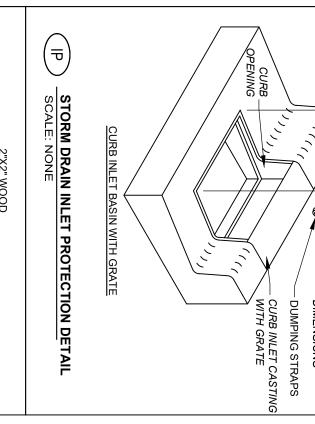


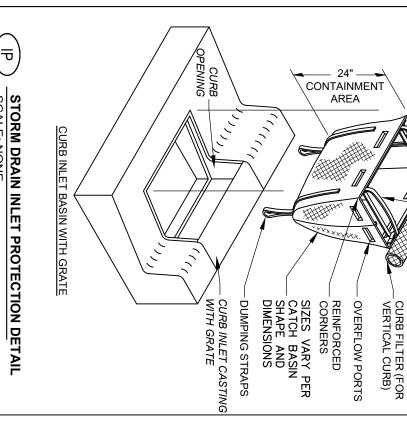
ILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, DPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH OMPOST.

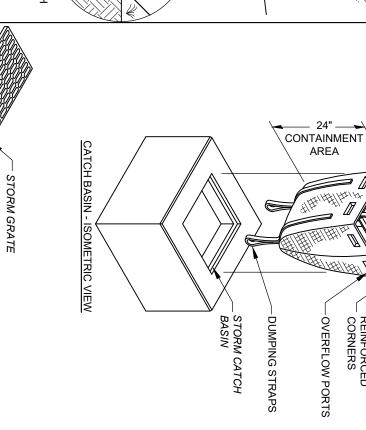
12" MIN

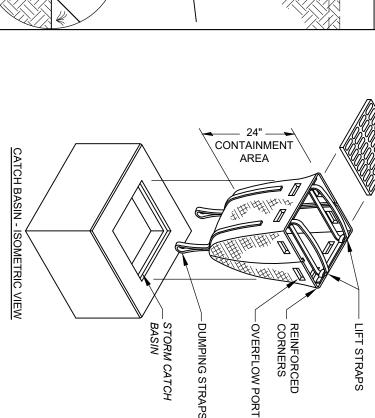








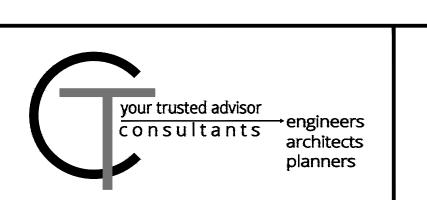




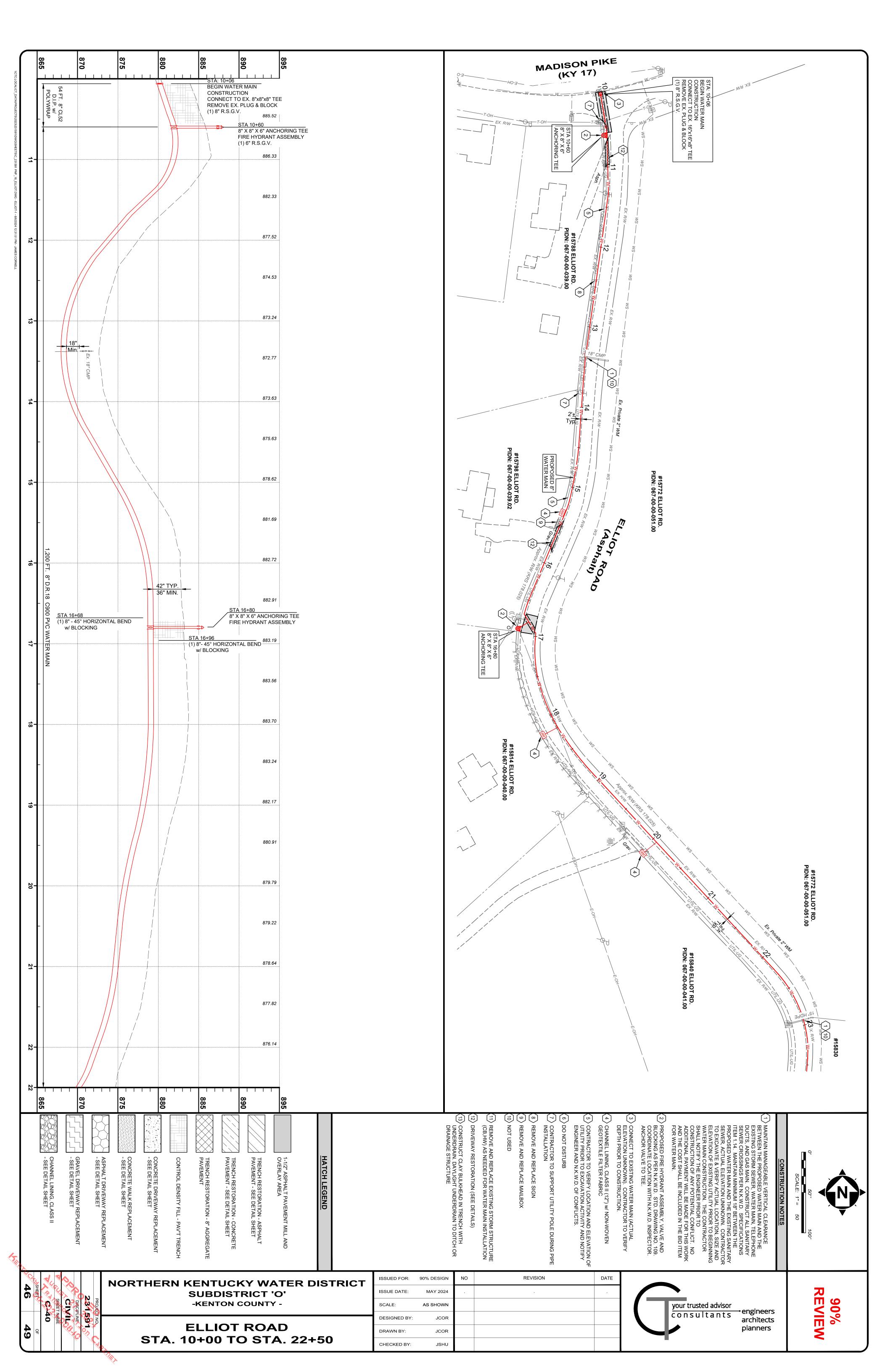
| NORTHERN | SI | JE | 3 D | IS | T | R | Y WATER DISTRICT ICT 'O' DUNTY - |
|----------|----------------------------|------------|-------------|----------|-------------|--------------------|--|
| | | 200' | 250' | 350' | 24" | | TH TOXIC TOXIC SOSED LES TOE OF EACHED L BE L BE |
| | | 150' | 200' | 300' | 18" | SK. | ED WITH CT FREE, ERIALS TO ECOMPOS EACROSS M THE TO HAS REA HAS REA FILTER SI |
| | | 100' | 125' | 250' | 12" | FILTER SOCK | AL, FILL DINSECER MATE WELL-DE ST OF F "EL LINE LOPE. T 5' FRO T 5' FRO JIRED, I' JIRED, I' OPE: |
| | | 75' | 100' | 125' | ထူ | OVE FIL | G MATERIAL, FI |
| | SOCK DETAIL NONE | 10:1 - 5:1 | 50:1 - 10:1 | 0 - 50:1 | RATIO (H:V) | SLOPE LENGTH ABOVE | TIN NTS NTS NTS NTS NTS NTS NTS NTS NTS NT |
| | FILTER SOCK SCALE: NONE | 10% - 20% | 2% - 10% | 0% - 2% | SLOPE | MAX. | DPE 3/8" KNITTED MESH NETTIN OMPOST OMPOST SHALL BE WEED, PATH F ANY REFUSE, CONTAMINANTS OPLANT GROWTH, BE DERIVED DURCE OF ORGANIC MATTER, A ANGING FROM 3/8" TO 2". LTER SOCKS SHALL BE PLACED OPES PARALLEL TO THE BASE LTER SOCKS SHALL BE PLACED OPE FOR SEDIMENT DEPOSIT. JILT UP SEDIMENT SHALL BE RE 3 THE FILTER SOCK HEIGHT. HEN A FILTER SOCK IS NO LONG SPERSED ON-SITE. HE MAXIMUM DRAINAGE AREA FILE MAXIMUM DRAINAGE |

EROSION CONTROL DETAILS

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



| Permit No. —— | TC 99-21E |
|---------------|-------------|
| | 01/2023 |
| I. SAFETY | Page 2 of 7 |

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 of more of land, you must obtain KPDES KYR10 permit.
 Information can be found at http://water.ky.gov/permitting/Pages/GeneralPermits.aspx

| F. Additional NotesThe following additional notes apply to this permit: | 0P2 71, 757,10 |
|--|--|
| | Magraphy And Andrews A |

| Permit No. | IC 99-21 |
|------------|----------|
| | 01/202 |
| | 01,202 |

Page 3 of 7

• 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.

II. UTILITIES

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).

| TTTVT (1 odoral riighway riaminiotidiloh). | |
|--|----------------------------|
| Additional notes: | |
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| | OT. |
| | |
| | 0 2 40 |
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| | Charles Control of Control |
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| | nit No | TC 99-21 |
|----------|--|------------------------|
| III. | DRAINAGE | 01/2023 Page 4 of |
| , | Negative impacts to existing drainage will be the applicant's responsibility to repair in accordance with SSRBC. | th KYTC |
| • | All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of including bedding and joint seating. Pipe shall not be covered until inspected by the Department and permission obtained to make backfill. It is the applicant's responsibility to request inspection. | nstallation express |
| • | All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along win entrance areas or other paved areas within the right-of-way shall not be acceptable. | vith curbs or |
| • | All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall the Department specifications and shall be constructed in accordance with the KYTC's Standard Dra | |
| • | Additional notes: | |
| | | |
| V | PAVING | |
| <u> </u> | | J . |
| • | No bituminous pavement shall be installed within the right of way between November 15 and April 1 the temperature is below 40 degrees Fahrenheit, without the express consent of the Department. No 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 accommodate Specifications. At least 24 hours notice to the Department is required prior to beging operations. | |
| | Phone: Name: | |
| Þ | Utility companies performing road cuts must restore the pavement to pre-existing condition. Pictures recommended to ensure proper placement of signs and lane markers that are temporarily removed for 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 speci | fications. |
| • | The finished surface of all new pavement within the right of way shall be true to the required slope ar uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent pavement or as determined by KYTC. | nd grade, nighway |
| • | To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highw pavement and shall slope away from the existing edge of the pavement as specified in drawings. | ay of |
| • | Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Department Highways Standard Specifications (latest edition), shall be applied between new and existing pavem | artment of |
| . | Additional notes: | |
| | | |
| | Lichts 13/ | |

| Permit No. | TC 99-21E |
|-------------|-------------|
| | 01/2023 |
| V ENTRANCES | Page 5 of 7 |

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.
- KTYC 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-gualified contractor. Any guardrail that is removed during construction must be returned to the local KTYC maintenance facility.

| • | Additional notes: |
|---|-------------------|
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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: | Professional Contraction of the |
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| | | المراجع |

| Permit No. | TC 99-21E |
|------------|------------------|
| | ■ 01/2022 |

VII. SIDEWALK SPECIFICATIONS

Page 6 of 7

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: |
|---|-------------------|
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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: | A CILL OF CO. CO. |
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| Pe: | mit No | TC 99-21I |
|-----|--|------------------------|
| D | X. RIGHT OF WAY FENCE RESTORATION | 01/2023 Page 7 of 7 |
| • | The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to protect encroachment. | ot against |
| • | 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. D finish materials such as vinyl are acceptable. | urable |
| • | The permittee shall be required to construct and maintain the replacement fencing to an acceptable levi tionality and state of repair. All work on the fencing shall be performed by access from the private properties from the roadway is not allowed. | |
| • | The existing fence shall be removed by permittee and stored at the Department's maintenance storage future reuse by the Department, or the Department shall be reimbursed the cost of fencing removed. | yard for |
| • | 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: | |
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| X | . MISCELLANEOUS NOTES | |
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| l | | |

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.

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/

| INSTALLATION ON GENE STREET THAT TIES INTO Kenton - KV 16 38 899193 -84 559854 | LOCATION(S) | | | | | | | |
|---|-------------|----------------|---------------------|------------|--|--|--|--|
| INSTALLATION ON GENE STREET THAT TIES INTO EXISTING 8" WM ON WALTONNICHOLSON PIKE (KY) Kenton - KY 16 38.899193 -84.559854 | Description | County - Route | Latitude | Longitude | | | | |
| | | | 38.899193 | -84.559854 | | | | |
| | | | Legith ⁱ | Chip Op | | | | |



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,

Linzy Brefeld

D6 Permits Supervisor

Attachments



Algust Sp. Castrilla



Kentucky Transportation Cabinet Department of Highways Division of Maintenance Permits Branch

ENCROACHMENT PERMIT

| KYTC KEPT #: | 06-2024-00838 | | | | | |
|------------------------|----------------------------------|-----------------|--|--|--|--|
| Permittee: | Northern Kentucky Water District | | | | | |
| Permit Type / Subtype: | Utilities / Water | | | | | |
| Work Completion Date: | 8/26/2025 | | | | | |
| | INDEMNITIES | | | | | |
| Туре | 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 b | peen: APPROVED X | 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 | | | |



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



TC 99-1A Rev. 10/2020 Page 1 of 4

APPLICATION FOR ENCROACHMENT PERMIT

| KYTC KEPT # : | | | | | | |
|--|------------------|---------------|------------------------|-----------------------|--|--|
| SECTION 1: APPLICANT CONTACT | INFORMATION | | | | | |
| APPLICANT | ADDRESS | | | | | |
| NORTHERN KY WATER DISTRICT | 2835 CRESCENT SF | PRINGS PIKE | | | | |
| EMAIL | CITY | | STATE | ZIP | | |
| sbroering@nkywater.org | ERLANGER | | KY | 41018 | | |
| CONTACT NAME 1 | EMAIL | | PHONE # 859-426 | 5-2728 | | |
| Steve Broering | sbroering@nkywa | ter.org | CELL# | | | |
| CONTACT NAME 2 (if applicable) | EMAIL | | PHONE # | | | |
| | | | CELL# | | | |
| SECTION 2: PROPOSED WORK LOC | ATION | | | | | |
| ADDRESS | CITY | | STATE | ZIP | | |
| | WALTON | | Kentucky | 41094 | | |
| COUNTY | ROUTE # | MILE POINT | LONGITUDE (X) | LATITUDE (Y) | | |
| KENTON | 16 | 2.5 | 84D33'35"W | 38D53'57"N | | |
| ADDITIONAL LOCATION INFORMATIO WALTON - NICHOLSON PIKE AT GENES | | | | | | |
| | FOR KYT | C USE ONLY | | | | |
| PERMIT TYPE: Air Right Entra | ance 🗓 Utilities | Vegetation Re | moval | | | |
| ACCESS: Full Parti | al X by Permit | LOCATION: | Left Right | Crossing | | |
| SECTION 3: GENERAL DESCRIPTION | N 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 Bro SIGNATU | ering RF | | 7-15-2024 OATE | 7 7 7 03 7 1 7 0 0 | | |
| 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. | | | | | | |



TC 99-1A Rev. 10/2020 Page 2 of 4

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.

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TC 99-1A Rev. 10/2020 Page 3 of 4

APPLICATION FOR ENCROACHMENT PERMIT

| 10. | The reques | sted end | croachm | ent shall not infr | inge or | n the fi | rontage rights o | of an abutting o | wner w | ithout their v | written o | consent |
|-----|--|--|--|---|---|--|---|---|---|--|--|---|
| | as hereinaf | fter des | cribed. E | ach abutting ow | ner sh | all exp | ress their cons | ent, which shall | be bind | ding on their | success | ors and |
| | assigns, | by | the | submission | of | а | notarized | statement | as | follows, | "I | (we), |
| | | | | | | | , hereby cons | sent to the gran | ting of | the permit re | equested | d by the |
| | applicant a | long Ro | oute | | | , | which permit o | loes affect fron | tage rig | thts along my | (our) a | djacent |
| | real proper | rty." By | signatu | re(s) | | | | | | | , sub | scribed |
| | and sworn | by | | | | | , on t | his date | | | | · |
| 11. | - | | | subject to the ag , except as othe | | | | erfere with any s | similar r | ights or pern | nit(s) pre | eviously |
| 12. | assigns, ag other encre procedures manner co | ree as a coachme so of the ontrary | a conditi ents in st e Depart to that p | ocumentation won of the grantictict accordance ment. Permittee rescribed by the maintenance a | ng of twith the, its subsection its subsection. | the perne subsuccessoned percentage in the perce | rmit to constru mitted and app ors and assigns ermit. Only no | ct and maintain proved permit d s, shall not use mal usage as c | n any ai locumei facilitie | nd all permit ntation and t es authorized | ted faci he polic d herein | lities or cies and in any |
| 13. | permitted defend, pro of the work undertaken employees | facilitie otect, i k, encro n pursu s, or co | es or oth ndemnif bachmer ant to the ntractors | and assigns, at a ler encroachment y and save harn at, maintenance, ne granted perm s. This provision beyond that exi | nts are nless th or oth nit, due shall r | e remone Deponer und to an incomme de to | wed from the artment from a dertaking by the y claimed act cure to the bene | right-of-way ar any and all liabi e permittee, its or omission by efit of any third | nd the lity clair succes the perior the party | right-of-way ms and dema sors and ass mittee, its se nor operate | restore ands aris igns, rel ervants, to enla | d, shall sing out ated or agents, rge any |
| 14. | additional restoration undertaker corrective | action I n of the n as ord actions | by the peright-of lered and to be up | rovision of the permittee, its succ f-way. In the event d within a reason ndertaken and t ccessors and assi | cessors ent ado able ti he Dep | and a ditiona me, the | ssigns, up to ar I actions requi e Department r | nd including the red by the Dep nay in its discre | remov artmen tion cau | al of the enc it under the use those or c | roachmo permit other ad | ent and are not ditional |
| 15. | law and reg | gulatio | n, includi | nd assigns, shall ng those impose s of the U.S. Dep | ed purs | suant t | o Title VI of the | Civil Right Act | of 1964 | 4 (42 U.S.C. § | 2000d | |
| 16. | Permittee, | its suc | cessors a | and assigns, agre | e that | if the | Department de | etermines it is | necessa | ry for the fa | cilities c | 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.

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TC 99-1A Rev. 10/2020 Page 4 of 4

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.

| UTILITY WATER DISTRICT | | |
|------------------------------------|--------------------------------|--------|
| Steve Broering | Engineering Technician | |
| NAME (Utility Representative) | TITLE (Utility Representative) | |
| Steve Browning | 7-15-2024 | |
| SIGNATURE (Utility Representative) | DATE | D \ (3 |



Know what's **below. Call** before you di

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

NORTHERN KENTUCKY WATER DISTRICT SUB-DISTRICT 'O' WATER MAIN EXTENSION

KENTON COUNTY, KENTUCKY 231591

NORTHERN KENTUCKY WATER DISTRICT OFFICIALS

INDSEY RECHTIN. CPA

COMMISSIONERS

FRED A. MACKE, JR. (Chair)

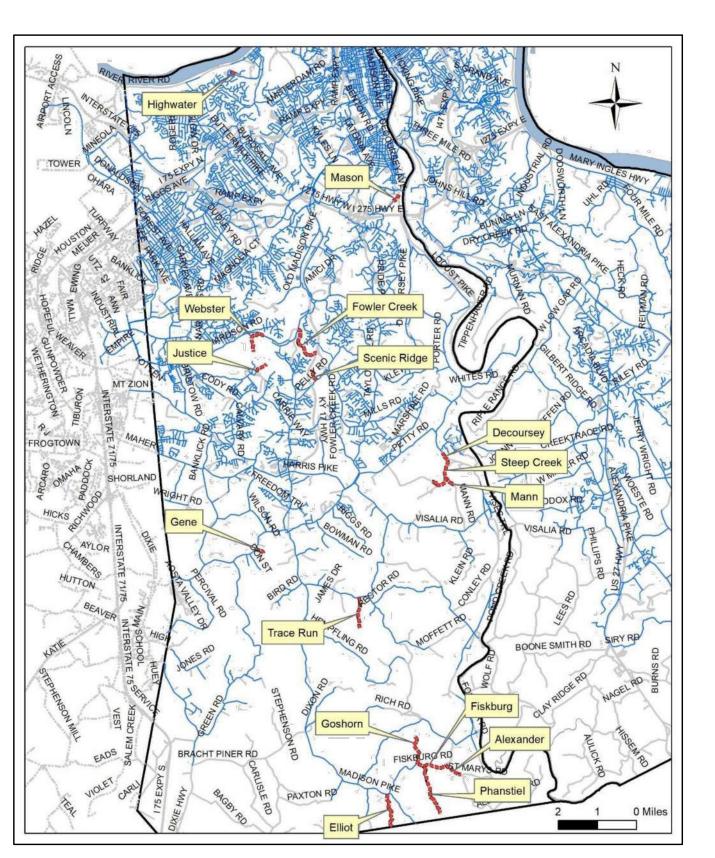
JODY R. LANGE (Vice-Chair)

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.

| | INDEX | K OF SHEETS |
|----------------------------|--------------|-----------------------|
| NO. | DWG NAME | SHEET NAME |
| 1 | TTL | TITLE |
| 2 | G-01 | GENERAL NOTES & LEGE |
| 3 | G-02 | DETAILS |
| 4 | G-03 | DETAILS |
| 5 G-04 6 G-05 7 C-01 | | DETAILS |
| | | EROSION CONTROL DETAI |
| | | 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 / DECOURS |
| 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 |

| | →engineers architects planners |
|----------------------|--------------------------------------|
| your trusted advisor | consultants |

90%

REVIEW

| THE SHEET JCOR | -KENTON COUNTY - AS SHOWN | | SOUTHERN KENTICKY WATER DISTRICT ISSUED FOR: 90% DESIGN NO REVISION | 90% DESIGN MAY 2024 AS SHOWN JCOR JCOR | ISSUED FOR: ISSUE DATE: SCALE: DESIGNED BY: DRAWN BY: |
|----------------|---------------------------|--------|---|--|---|
| | | SCALE: | ISSUE DATE: | 0 | |

231591

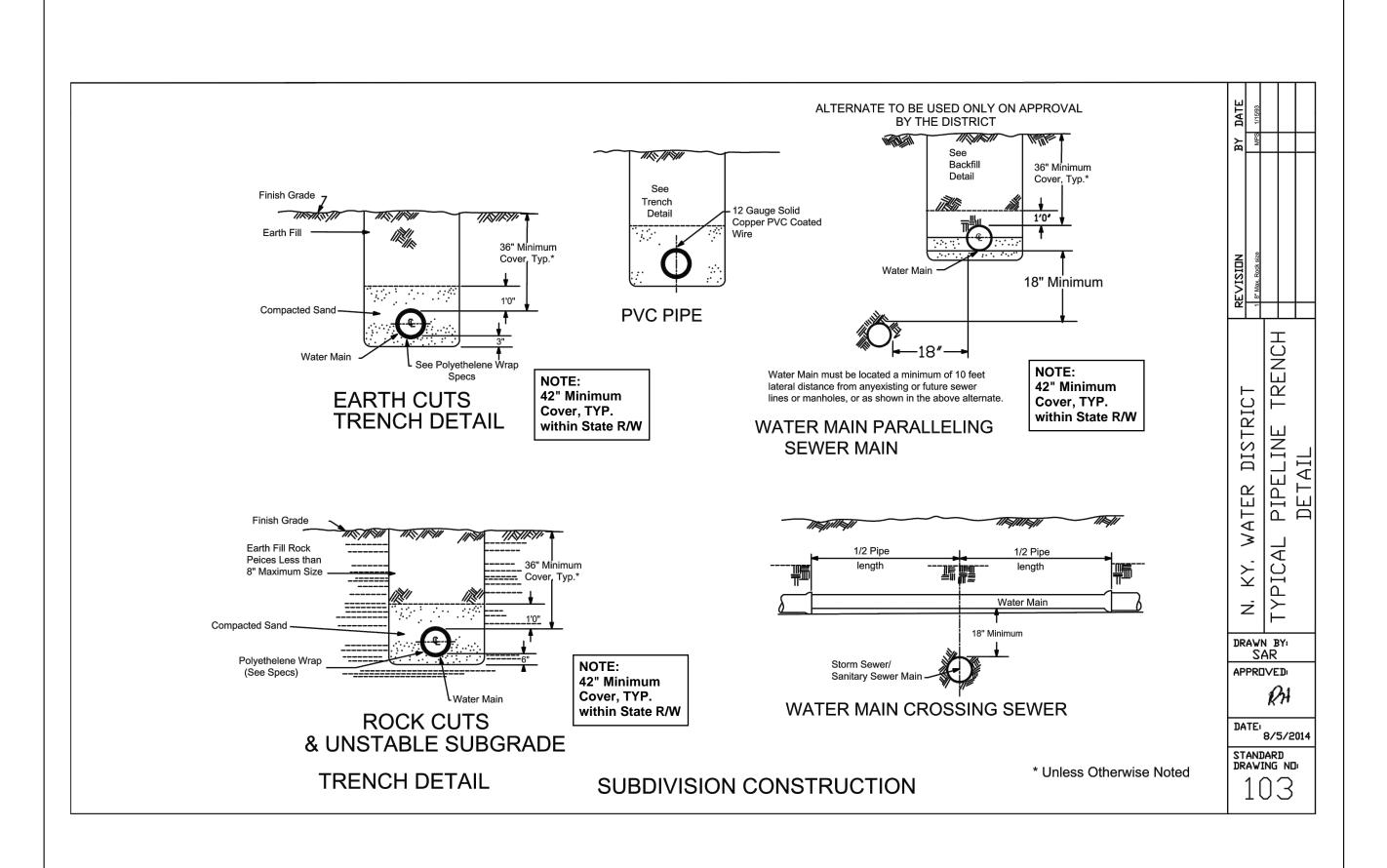
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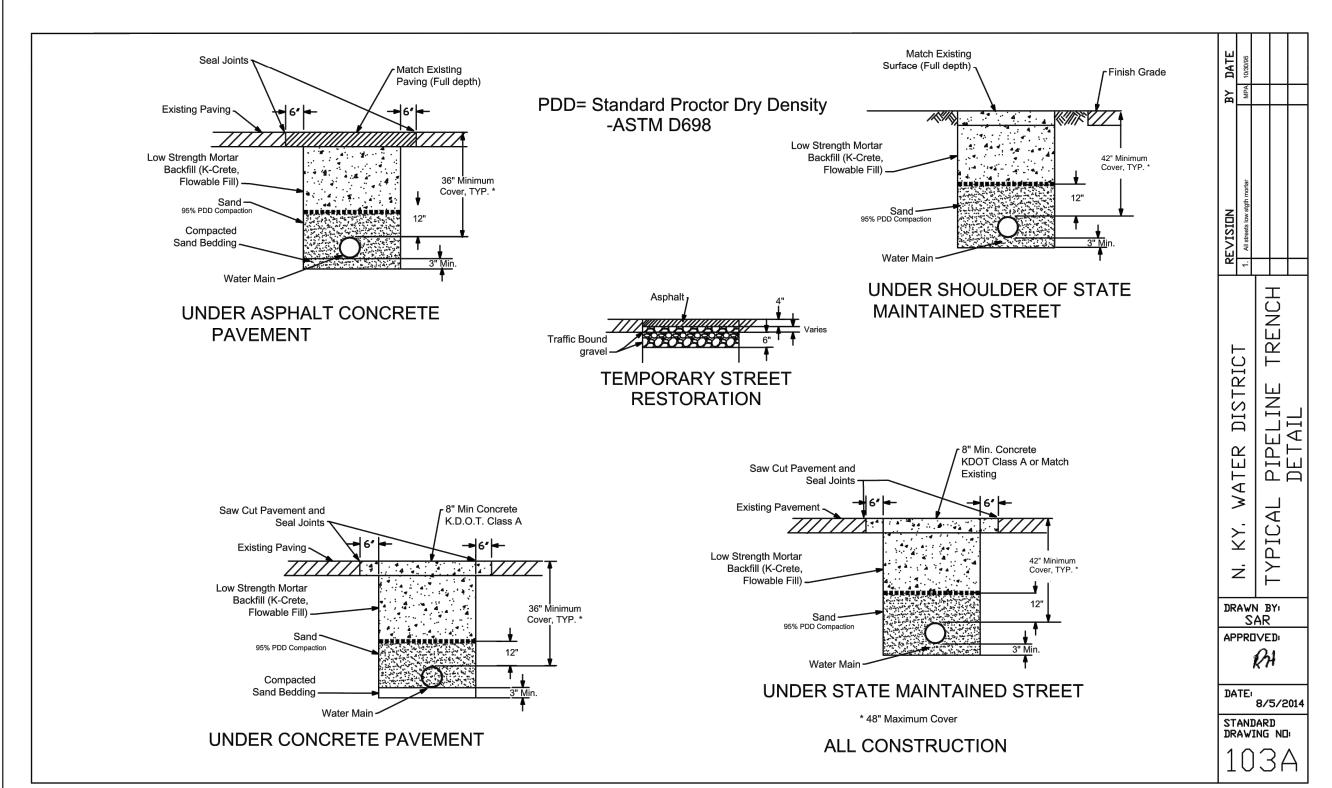
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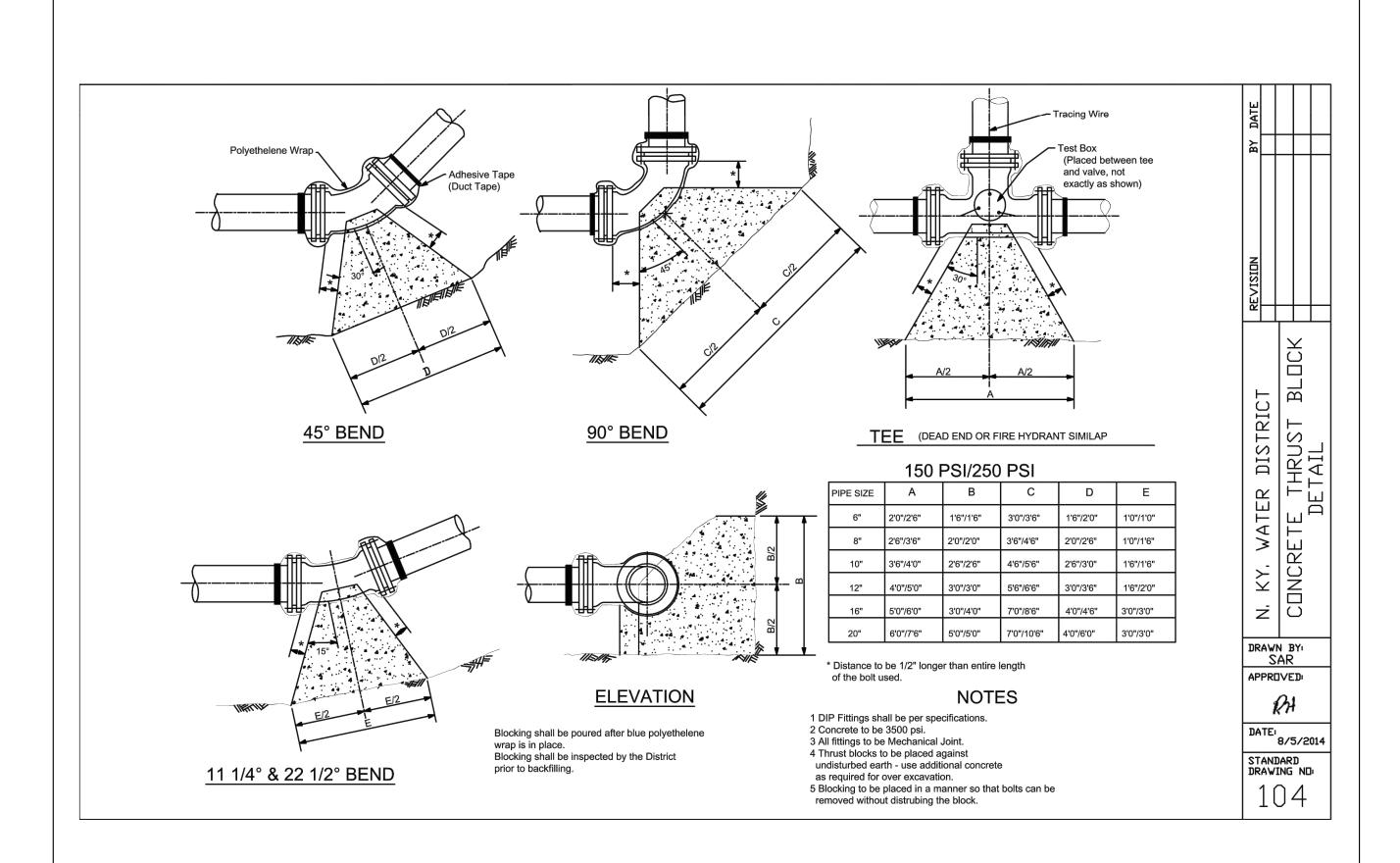
Always Call 811 or 1-800-752-6007 Refore you Dig

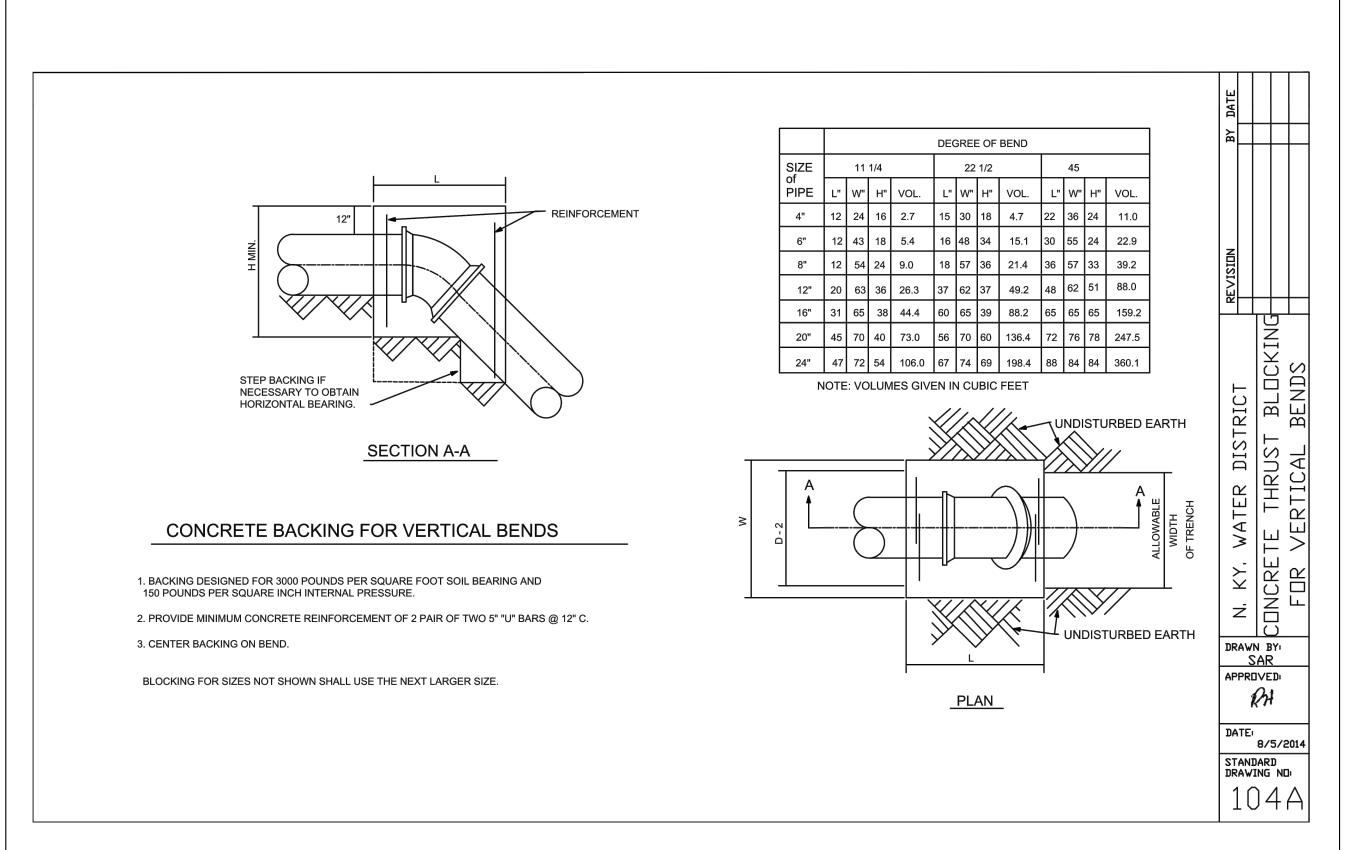
JAMES M. SHUMATE P.E. #18156

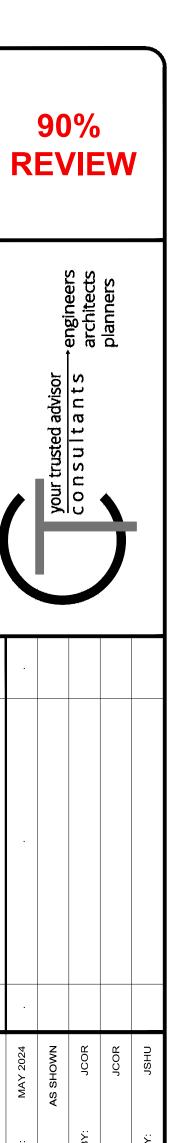
| | TRENCH EXCAVATION SHALL ALSO BE LIMITED TO THE CONTRACTOR'S ABILITY TO PROVIDE TRENCH BOXES FOR SUPPORT. UNDER NO CIRCUMSTANCES SHALL TRENCH EXCAVATION EXCEED LENGTH OF SUPPORT AVAILABLE. | CONTRACTOR IS TO PROVIDE CONSTANT STABLE SUPPORT FOR THE WATER MAIN TRENCH EXCAVATION (ie SHEETING, SHORING, ETC.) TO PROTECT ALL ADJACENT EXISTING UTILITIES, STORM SEWER PIPE AND STRUCTURES AND THE EXISTING ROADWAY FROM ANY MOVEMENT. (NO 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. TRENCH SUPPORT FAILURE RESULTING IN ADVERSE IMPACT TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 2. TRENCH EXCAVATION AND OPEN, UNBACKFILLED LENGTH OF WATER MAIN TRENCH SHALL BE LIMITED AS NECESSARY ALONG THE ROADWAY IN ORDER TO PREVENT MOVEMENT OF, OR DAMAGE TO THE SURROUNDING GROUND SURFACE, NEARBY STRUCTURES/INFRASTRUCTURE AND THE EXISTING ROADWAY PAVEMENT. | 7. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL STATE, COUNTY AND LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED 8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE KENTUCKY TRANSPORTATION CABINET AND KENTON COUNTY AND ANY LOCAL MUNICIPALITY. LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS. 9. ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY. ALL COST FOR ABOVE SHALL BE INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL. 10. ALL CONSTRUCTION WORK SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY G.A.I. CONSULTANTS DATED FEBRUARY 2024. | 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. 3. ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND. 4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM PLANNING AND DEVELOPMENT SERVICES (PDS) G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY. 5. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY FORT N.K.W.D. 6. ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED | 1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE NORTHERN KENTUCKY WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS AND THE KENTON COUNTY SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. 2. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS |
|---|---|---|---|---|---|
| ELECTRIC NOTES 1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY | 2. CONTRACTOR MAY NOT USE WATER FROM FIRE HYDRANTS WITHOUT PRIOR PERMISSION FROM NKWD GAS NOTES 1. ALL WORK RELATING TO GAS MAINS OR GAS SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY | 2. CON ITACLIOK SHALL BE REQUIRED I O MAINI AIN SI ORM AND SANITARY SEWER FLOW THROUGHOUT THE PROJECT, FOR THE DURATION OF CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE CONTRACT. 3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE PRECONSTRUCTION MEETING. 4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED TAPPER BY SD1. 1. ALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND BEGLINATIONS OF THE NORTHERN KENTUCKY WATER DISTRICT (NEWD). | | EXPENSE. 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. 3. TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT. 4. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. | 1. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE 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 TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED. |
| 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 AGCORDANCE WITH THE SPECIFICATIONS AND STANDARD DRAWINGS, COMPLETE AND READY FOR USE. LEAD SERVICE LINES ENCOUNTERED BY THE EXCAVATION SHALL BE REPLACED FROM THE MAIN TO AND INCLUDING THE METER VAULT AND METER SETTING. ALL SERVICE LINE MATERIAL WILL BE SUPPLIED BY NKWD. PAID EACH (EA). 19. THE CONTRACTOR SHALL COORDINATE WITH THE NORTHERN KENTUCKY WATER DISTRICT FOR FIELD INSPECTIONS. 20. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION. 21. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL KYTC, COUNTY AND/OR LOCAL PERMITS HAVE BEEN ISSUED AS REQUIRED. 22. CONTRACTOR IS RESPONSIBLE FOR DEWATERING TRENCH DURING INSTALLATION OF THE WATER MAIN. 23. THE COST OF TESTING THE MAIN, TEMPORARY FLUSHING DEVICES, TEMPOPRARY PLUG AND BLOCKS, AND ABANDONING THE EXISTING MAIN SHALL BE INCIDENTAL TO THE PROJECT. 24. ALL PAVEMENT SHALL CONFORM TO THE LATEST EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND KENTON COUNTY SUBDIVISION REGULATIONS. | ZC camcart bacciae scho | | 5. WATERLINES CROSSING UNDER OR OVER SEWER LINES (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" AND ONE FULL LENGTH OF PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED. 6. CONTRACTOR IS RESPONSIBLE FOR KEEPING FIELD NOTES THAT PROVIDE SUFFICIENT DATA FOR PREPARING "RECORD DRAWINGS" UPON COMPLETION OF CONSTRUCTION. 7. ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CURRENT COPY OF THE NORTHERN KENTUCKY WATER DISTRICT'S STANDARD DRAWINGS. 8. ALL MATERIAL FOR THE PROP. WATER MAIN INSTALLATION INCLUDING ALL FITTINGS, BLOCKING, ETC., SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR WATER MAIN. 9. COST OF ALL TRENCHING, PIPE, PIPE BEDDING, BACKFILL, YARD | COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, E CIDENTAL TO THE OVERALL CONTRACT PRICE AND SHA Y N.K.W.D. AND THE PROPERTY OWNER ALONG WITH CO Y N.K.W.D. AND THE PROPERTY OWNER ALONG WITH CO Y N.K.W.D. AND THE PROPERTY OWNER ALONG WITH CO WHEN REQUIRED. HE UTILITY INFORMATION SHOWN ON THE PLANS IS BAS IFORMATION RECEIVED FROM OTHERS AND HAS NOT BE HE UTILITY INFORMATION RECEIVED FROM OTHERS AND HAS NOT BE HE RESPONSIBLE ONTRACTOR TO VERIFY THE LOCATION OF THE UTILITIES CONTRACTORS. THE CONTRACTORS. THE CONTRACTORS. THE CONTRACTOR AND MILL EQUIRED TO DIG TEST HOLES AT ALL UTILITY CROSSING TILITY AS TO BOTH LOCATION AND ELEVATION OF THE PROPOSEING ON THE UTILITY. COST OF ALL THE ABOVE SHALL BE INVERSALL CONTRACT PRICE. NLESS SPECIFICALLY INSTRUCTED OTHERWISE, RETURN NLESS SPECIFICALLY INSTRUCTED OTHERWISE, RETURN NLESS SPECIFICALLY INSTRUCTED OTHERWISE, RETURN NLESS SPECIFICALLY INSTRUCTED OTHERWISE. | |
| 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 ASPHALT DRIVEWAY REPLACEMENT - SEE DETAIL SHEET CHANNEL LINING, CLASS II - SEE DETAIL SHEET | HATCH LEGEND 1-1/2" ASPHALT PAVEMENT MILL AND OVERLAY AREA | EROSION CONTROL LEGEND (IP) INLET PROTECTION (SEE DETAIL) (SF) SILT FENCE (SEE DETAIL) | EAS BEHIND CORB LINES AND WALKWAYS, E.C. | AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT. 3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE STATE, COUNTY AND/OR LOCAL POLICE DEPARTMENTS. AT ALL TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS. 4. RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR PROPERTY AT ALL TIMES. 5. EACH DRIVEWAY SHALL BE ACCESSIBLE WHENEVER POSSIBLE. WHEN PORTLAND CEMENT CONCRETE CONSTRUCTION AFFECTS A DRIVEWAY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS 24 HOURS IN ADVANCE AND ADVISE THEM TO FIND ALTERNATIVE PARKING FOR A PERIOD OF AT LEAST 10 CALENDAR DAYS AFTER THE POUR. ALTERNATIVE PARKING SHALL INCLUDE "ON STREET" PARKING WITH ACCESS TO THE PROPERTY. TEMPORARY SIDEWALKS, ETC. WILL BE NECESSARY TO PREVENT PERSONS FROM WALKING IN MUD IN ORDER TO ENTER THEIR PROPERTY. TEMPORARY BRIDGES, RAILINGS ETC. WILL BECOME NECESSARY IN ORDER TO CROSS FORMED CURB LINES, | 1. ALL MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF KTC 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. |
| EXISTING SANITARY MANHOLE SCO EXISTING STORM MANHOLE EXISTING STORM MANHOLE EXISTING STORM MANHOLE EXISTING STORM MANHOLE EXISTING CATCH BASIN EXISTING CATCH BASIN EXISTING TELEPHONE MANHOLE EXISTING TELEPHONE PEDESTAL EXISTING FIRE HYDRANT EXISTING WATER METER EXISTING WATER METER EXISTING WATER VALVE EXISTING BUSHES / TREES EXISTING BUSHES / TREES EXISTING BUSHES / TREEE EXISTING BUSHES / TREEE EXISTING BUSHES / TREEE EXISTING SURVEY BENCHMARK PROPOSED STORM CLEANOUT PROPOSED TELEPHONE MANHOLE PROPOSED TELEPHONE MANHOLE PROPOSED TELEPHONE PEDESTAL PROPOSED WATER METER PROPOSED SLOPE DIRECTION PROPOSED SLOPE DIRECTION | EXISTING PULL BOX EXISTING GROUND LIGHT EXISTING LIGHT POLE EXISTING ELECTRIC METER EXISTING GAS METER EXISTING GAS WALVE EXISTING GAS BOX EXISTING GAS BOX EXISTING GAS BOY EXISTING GAS BOY EXISTING GAS WALVE OF COLUMN AND AND AND AND AND AND AND AND AND AN | EXISTING EXISTING EXISTING EXISTING EXISTING | EXISTING ROCK WALL C.OH PROPOSED GAS LINE PROPOSED GAS SERVICE EXISTING ELECTRIC (UNDERGROUND / OVERHEAD) PROPOSED CABLE (UNDERGROUND / OVERHEAD) PROPOSED WATER MAIN PROPOSED WATER SERVICE PROPOSED WATER SERVICE PROPOSED STORM SEWER PROPOSED UNDERDRAIN / DOWNSPOUT COLLECTOR OPEN PROPOSED SANITARY SEWER PROPOSED SANITARY SEWER PROPOSED SANITARY FORCE MAIN | ====================================== | SYMBOL LEGEND SYMBOL LEGEND SYMBOL LEGEND EXISTING GAS LINE EXISTING GAS SERVICE EXISTING GAS SERVICE EXISTING ELECTRIC (UNDERGROUND / OVERHEAD) EXISTING CABLE (UNDERGROUND / OVERHEAD) EXISTING TELEPHONE (UNDERGROUND / OVERHEAD) EXISTING WATER MAIN EXISTING WATER SERVICE EXISTING WATER SERVICE |
| NORTHERN KENTUCKY SUBDISTRI -KENTON CO GENERAL NOTES | ICT 'O' DUNTY - | ISSUED FOR: 90% DESIGN NO REISSUE DATE: MAY 2024 . SCALE: AS SHOWN DESIGNED BY: JCOR DRAWN BY: JCOR | | our trusted advisor onsultants architects planners | 90% REVIEW |











PROJECT NO.

231591

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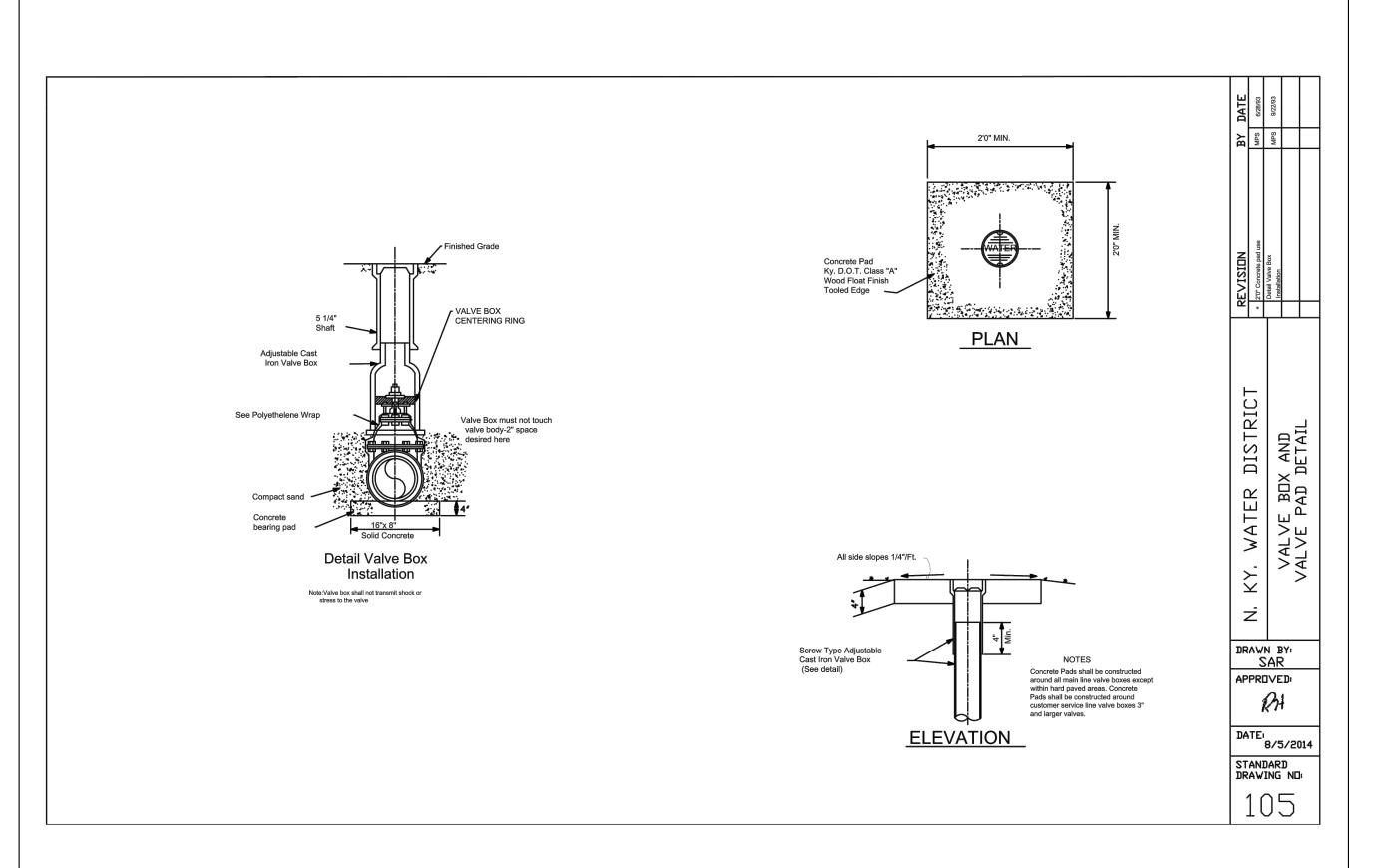
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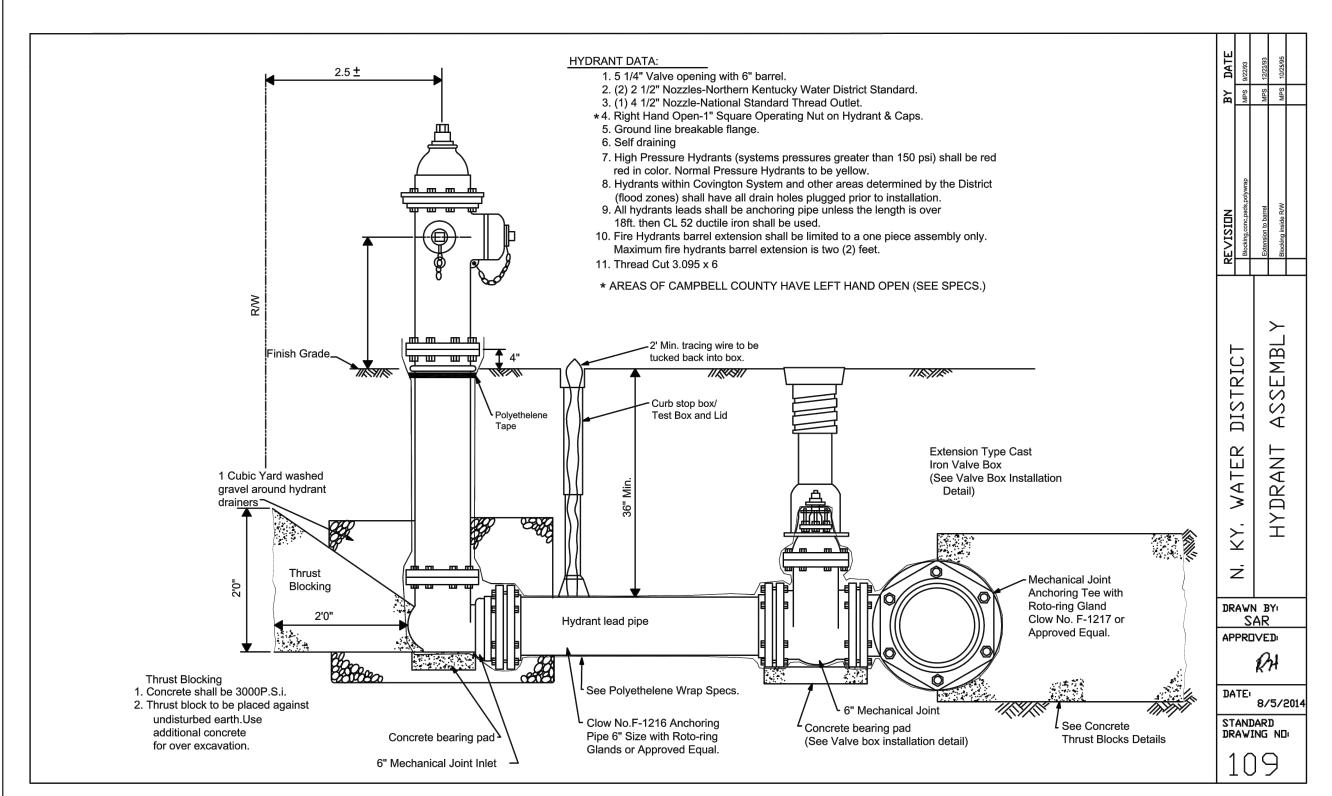
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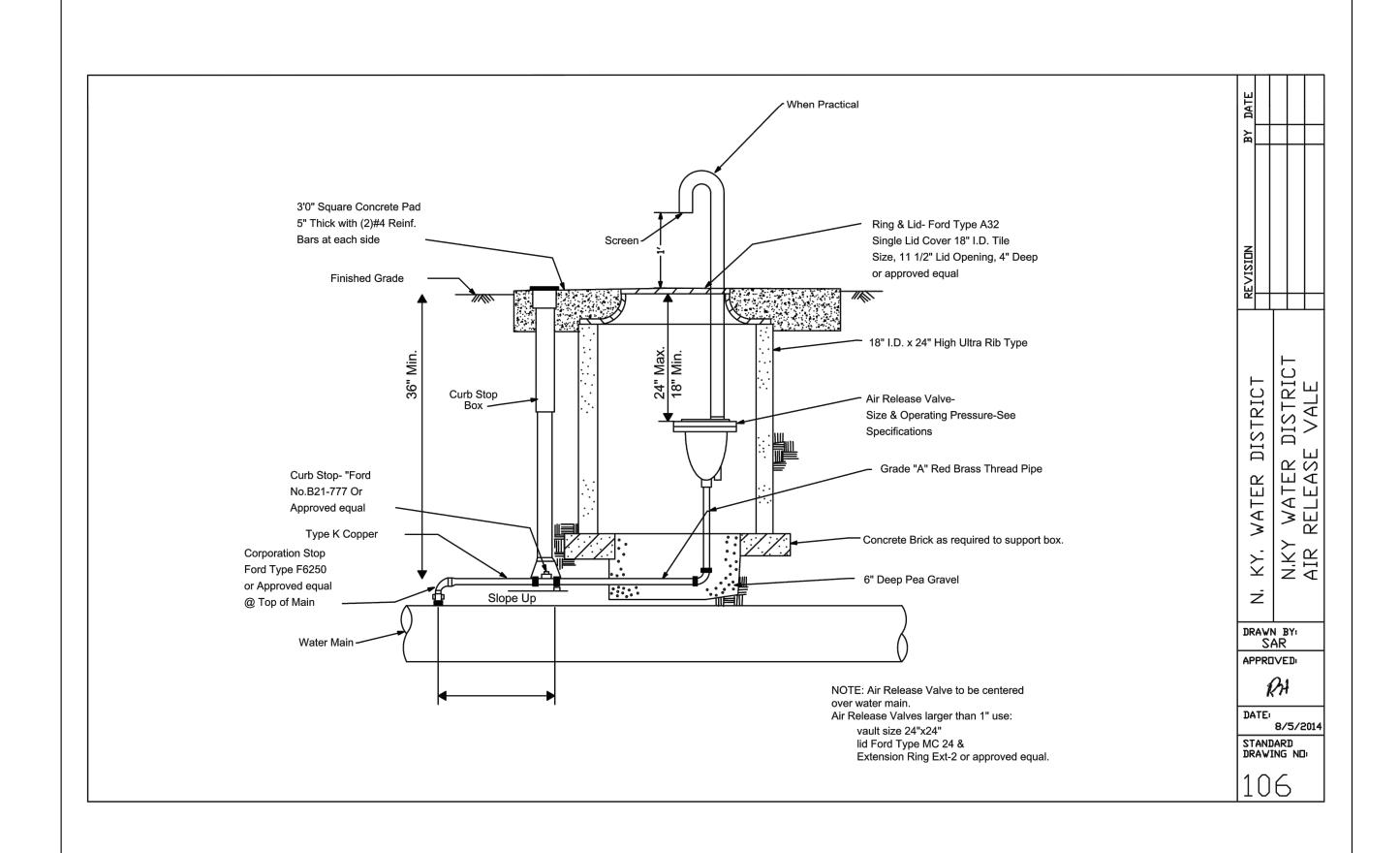
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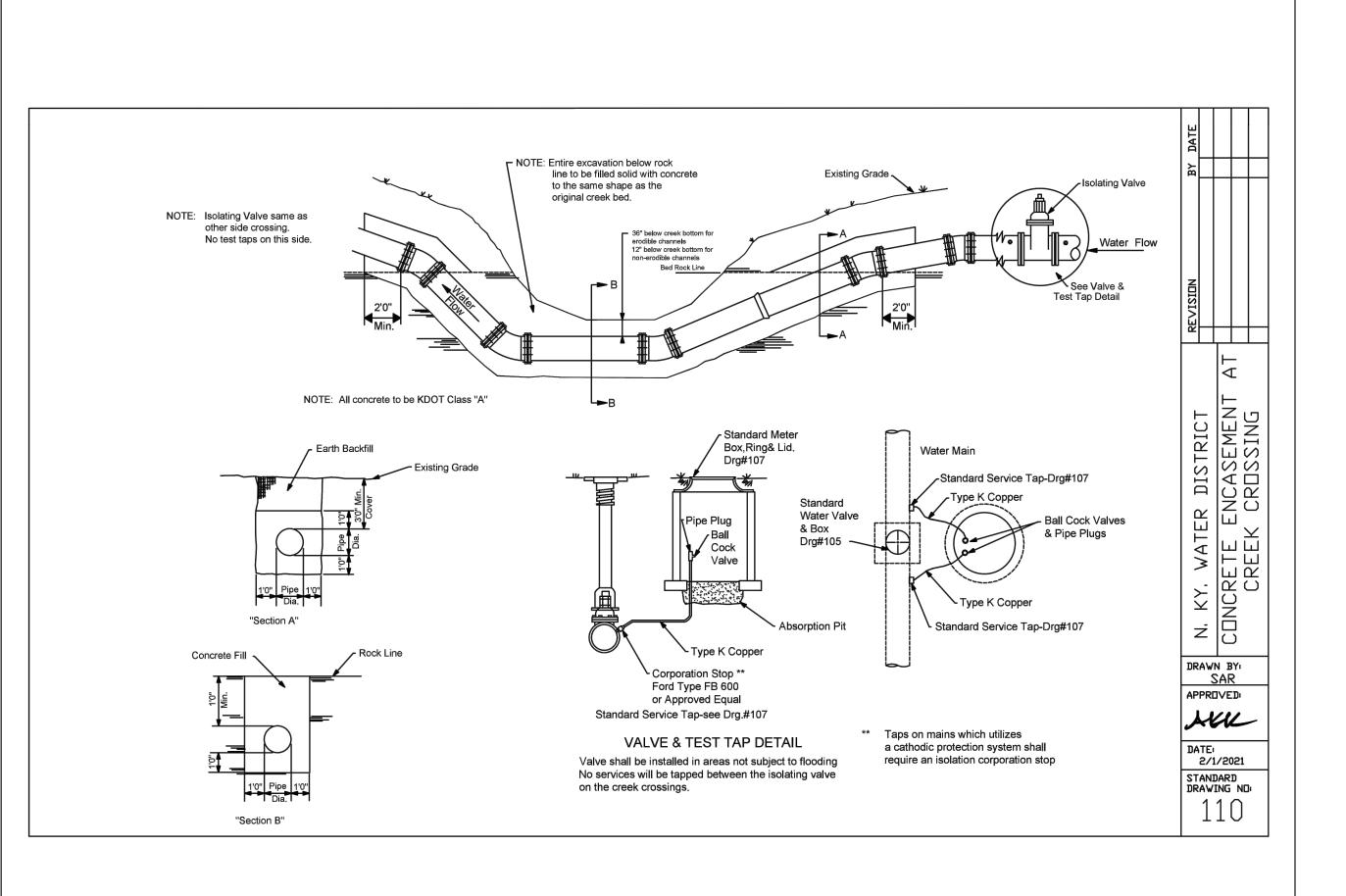
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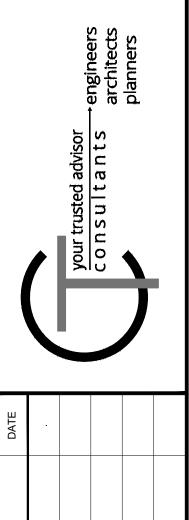




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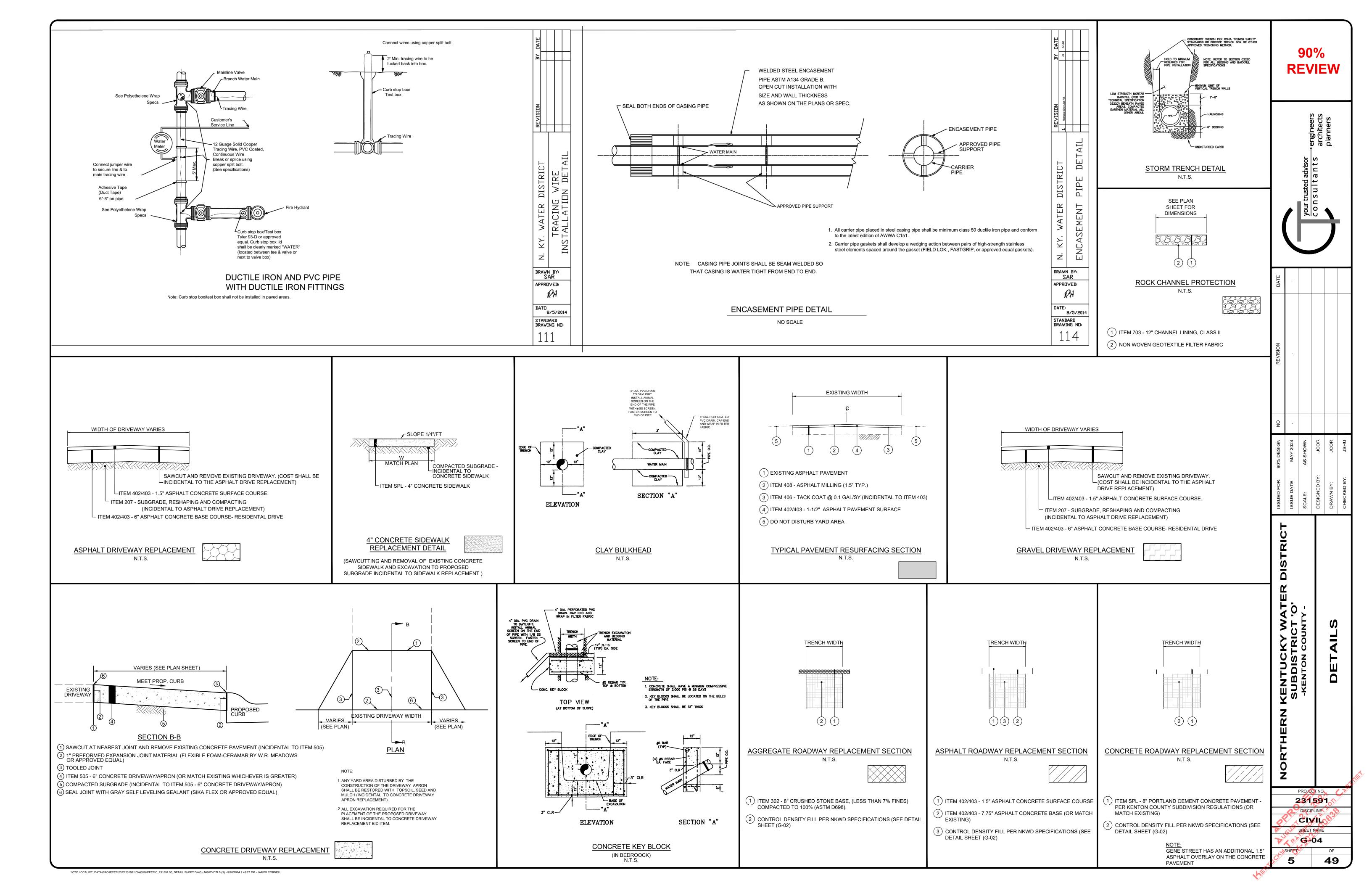






| TER DISTRICT ISSUED FOR: 90% DESIGN NO REVIS | ISSUE DATE: MAY 2024 . | SCALE: AS SHOWN | DESIGNED BY: JCOR | DRAWN BY: JCOR | CHECKED BY: JSHU |
|--|------------------------|------------------|-------------------|----------------|------------------|
| NORTHERN KENTIICKY WATER D | SUBDISTRICT 'O | -KENTON COUNTY - | | DETAILS | |
| P | | | 59 PLINE LIL NAME | | <u> </u> |

G-03



SEDIMENT BASINS

DEFINITION A TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A WATERCOURSE OR AT OTHER SUITABLE LOCATION TO RETAIN SEDIMENT AND OTHER WATERBORNE DEBRIS.

THE SITE SHALL BE GRADED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.

TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

14' MIN AND NOT LESS THAN WIDTH OF

INGRESS/EGRESS

PPLYING FERTILIZER AS OF A SOIL TEST, R AT 500 LB/AC. OF PERTILIZER SHALL BE

PLAN VIEW

ANY PAVED SURFACE

16" MHV

SEED BED

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.

70' MIN.
(30' MIN. FOR ACCESS TO INDIVIDUAL HOUSE LOT)

ANY PAVED SURFACE

-STRAW BALE -BINDING WIRE

ODOT ITEM #304 — 8"

STIC LINING

5' FLAT SLOPE IN FRONT OF BARRIER

24" _____ CONTAINMENT

AREA

REINFORCED CORNERS

_STORM CATCH BASIN

JMPING STRAPS

LEVEL CONTOUR NO SLOPE

STORM GRATE

LIFT STRAPS

SCOPE
THIS STANDARD ESTABLISHES MINIMUM ACCEPTABLE QUALITY FOR THE DESIGN AND CONSTRUCTION OF TEMPORARY SEDIMENT BASINS FORMED BY AN EMBANKMENT, EXCAVATION OR A COMBINATION OF EMBANKMENT AND EXCAVATION THE STANDARD IS LIMITED TO SITES WHERE:

FAILURE OF THE STRUCTURE WOULD NOT RESULT IN LOSS OF LIFE; DAMAGE TO HOMES; COMMERCIAL OR INDUSTRIAL BUILDINGS; DAMAGE TO HIGHWAYS OR RAILROADS OR INTERRUPTION OF USE OR SERVICE OF PRIVATE UTILITIES.

THE TOTAL VOLUME OF STORAGE IS 150 ACRE-FEET OR LESS. THE HEIGHT OF DAM IS 25 FEET OR LESS, AS MEASURED FROM THE NATURAL STREAMBED AT THE DAM TO THE TOP OF DAM.

SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY 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.

THE BASIN WILL BE REMOVED WITHIN A THREE-YEAR PERIOD AFTER CONSTRUCTION THE DRAINAGE AREA IS 100 ACRES OR LESS.

PURPOSE TEMPORARY SEDIMENT BASINS ARE USED AS A MEANS OF TRAPPING AND STORING SEDIMENT FROM ERODING AREAS ORDER TO PROTECT DOWNSTREAM AREAS FROM DAMAGE RESULTING FROM SEDIMENTATION AND WATERBORNE DEBRIS.

CONDITIONS WHERE PRACTICE APPLIES TEMPORARY SEDIMENT BASINS APPLY WHERE PHYSICAL SITE CONDITIONS OR OTHER RESTRICTIONS PRECLUDE THE INSTALLATION OF EROSION CONTROL MEASURES TO ADEQUATELY CONTROL EROSION AND SEDIMENTATION. IT MAY USED DOWNSLOPE FROM CONSTRUCTION OPERATIONS WHICH EXPOSE AREAS TO EROSION. TEMPORARY SEDIMENT BASINS WILL BE REMOVED AFTER THE EXPOSED AREAS ARE ADEQUATELY PROTECTED AGAINST EROSION BY VEGETATIVE OR MECHANICAL MEANS.

OMPLIANCE WITH LAWS AND REGULATIONS ESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

LOCATION

TO IMPROVE THE EFFECTIVENESS OF THE BASIN, IT SHOULD BE LOCATED SO AS TO INTERCEPT THE LARGEST POSSIBLE AMOUNT OF RUNOFF FROM THE DISTURBED AREA. THE BEST LOCATIONS ARE GENERALLY LOW AREAS AND NATURAL AMOUNT OF RUNOFF FROM THE DISTURBED AREAS. DRAINAGE INTO THE BASIN CAN BE IMPROVED BY THE USE OF DIVERSION DIKAINAGEWAYS BELOW DISTURBED AREAS. DRAINAGE INTO THE BASIN CAN BE IMPROVED BY THE USE OF DIVERSION DIKES AND DITCHES. THE BASIN SHOULD BE LOCATED TO TRAP SEDIMENT-LADEN RUNOFF BEFORE IT ENTERS THE STREAM. THE BASIN SHOULD NOT BE LOCATED WHERE ITS FAILURE WOULD RESULT IN THE LOSS OF LIFE OR IN INTERRUPTION OF THE USE OR SERVICE OF PUBLIC UTILITIES OR ROADS.

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, FILL
GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.
A MINIMUM OF 70% GROWTH DENSITY, BASED ON A VISUAL
INSPECTION, MUST EXIST FOR AN ADEQUATE PERMANENT
VEGETATIVE PLANTING.

APPLY ADDITIONAL STONE AS CONDITIONS DEMAND AND REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6". REMOVE AND REPLACE IF STONES BECOMES MUD-LADEN.

PERMITTIVITY

EQUIVALENT OPENING SIZE

= 20% < 0.6 MM = 0.001 CM/SEC

SAND BAG (TYP)

JOINING SECTION
OF SILT FENCE

NOTES:

PRESERVE VEGETATION FOR 5 FEET UPSLOPE FROM THE SILT FENCE. IF SHALL BE RE-ESTABLISHED WITHIN 7 INSTALLATION.

ELONGATION BURST STRENGTH TEAR STRENGTH

IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.

CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR TO PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

SAND BAG -PLASTIC LINING

CHANGE THE LAYOUT OF THE SILT FENCE REMOVE ACCUMULATED SEDIMENT. INSTALL OTHER PRACTICES.

LATH AND FLAGGING

APPLY MULCH MATERIAL IMMEDIATELY AFTE PERMANENT SEEDING SHALL INCLUDE IRRIG ESTABLISH VEGETATION DURING DRY OR HO ADVERSE SITE CONDITIONS AS NEEDED. AVCIRRIGATION AND MONITOR TO PREVENT EROFROM RUNOFF.

FTER SEEDING.
RIGATION TO
HOT WEATHER OR ON
AVOID EXCESSIVE
EROSION AND DAMAGE

FROM OCTOBER 1 TO NOVEMBER 20, SEEDING RATE BY 50%, PREPARE TH LIME AND FERTILIZER, MULCH AND A

), INCREASE THE HE SEED BED, ADD ANCHOR.

/ OCTOBER 1 TO RMINATE, BUT WILL NOT /ING METHODS FOR

18" OR SUFFICIENT TO DIVERT RUNOFF

GEOTEXTILE

NO. #2 RECYCLED CONCRETE AGGREGATE

AS NEEDED

10' MIN.

FROM NOVEMBER 20 TO MARCH 15, ONLY IF SOIL CONDITIONS PERMIT, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR.

PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING STONE MEETING THE MIN. SPECIFICATIONS:

PLAN VIEW
SINGLE LOCATION FOR ENTIRE PROJECT

2X4 STAKE PER BALE)

WRAP GEOTEXTILE AROUND STAKES BEFORE DRIVING

PUNCTURE STRENGTH

= 80 PSI = 50 LBS.

= 320 PSI

ULTIPLE USE

EDIMENT BASINS MAY BE DESIGNED AS PERMANENT STRUCTURES TO REMAIN IN PLACE AFTER CONSTRUCTION IS
OMPLETED. SITE CONDITIONS MAY MAKE THE USE OF THESE STRUCTURES DESIRABLE FOR STORMWATER DETENTION
URPOSES. WHEREVER THESE STRUCTURES ARE TO BECOME PERMANENT, OR IF THEY EXCEED THE SIZE LIMITATIONS
F THE DESIGN CRITERIA, THEY MUST BE DESIGNED AS PERMANENT PONDS BY A QUALIFIED PROFESSIONAL ENGINEER.
ERMANENT PONDS ARE BEYOND THE SCOPE OF THESE STANDARDS AND SPECIFICATIONS. THE PERMANENT
TRUCTURES MUST BE SUBMITTED WITH CONSTRUCTION DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE CITY

MAINTENANCE BASINS SHALL BE CHECKED WEEKLY AND CLEANED WHEN NO LONGER EFFECTIVE

STORM DRAIN INLET PROTECTION DEFINITION A SEDIMENT FILTER INSTALLED AROUND A STORM DRAIN INLET OR CURB INLET TO REDUCE SEDIMENT DISCHARGE PURPOSE TO PREVENT SEDIMENT FROM ENTERING THE STORM DISCHARGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED DRAINAGE AREA. DIFFERENT TYPES OF STRUCTURES ARE APPLICABLE TO DIFFERENT CONDITIONS.

PERMANENT

LECTION

A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A COPY OF THE "NOTICE OF INTENT" (NOI) SHALL BE KEPT ON SITE.

AN AMENDMENT OF THE SWPPP IS REQUIRED WHENEVER A CHANGE IN DESIGN, CONSTRUCTION, AND OPERATION OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS, OR IF THE SWPPP PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF SWPPP.

THE CONTRACTOR SHALL ALSO MAINTAIN THE FOLLOWING RECORDS ON SITE:
A. GENERAL CONTRACTOR AND/OR SUBCONTRACTOR SWPPP CERTIFICATIONS
B. THE DATE, TIME, AND EXACT LOCATION OF THE INSPECTION, AND THE NAME OF THE INSPECTOR
C. AN ASSESSMENT OF THE CONDITION OF THE EROSION CONTROLS
D. A DESCRIPTION OF ANY EROSION CONTROL IMPLEMENTATION AND MAINTENANCE PERFORMED
E. A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION AT THE SITE

6. CONSTRUCTION SEQUENCE
ALL PERIMETER SILT FENCE, INLET PROTECTION AND OTHER EROSION CONTROLS SHALL BE IN PLACE BEFORE ANY OTHER EARTH MOVING ACTIVITIES BEGIN.
THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THE AREAS PLANNED FOR EARTH MOVING.
REMOVE TOPSOIL, STOCKPILE IT, AND INSTALL SILT FENCE AROUND PERIMETER.
SEED SOIL STOCKPILE WITH PERENNIAL RYE GRASS AND MULCH WITH STRAW IF NO TO BE DISTURBED FOR MORE THAN 21 DAYS.
CONSTRUCT DETENTION BASIN AND CONTROL STRUCTURE. DETENTION BASIN SHALL BE USED AS A SEDIMENT BASIN UNTIL THE SITE IS STABILIZED.
INSTALL STORM SEWER SYSTEM AND SURFACE STORM INLET AND MANHOLE PROTECTION.
ESTABLISH A TEMPORARY SEEDING ON ALL BARE AREAS THAT ARE TO REMAIN UNDISTURBED FOR MORE THAN 21 DAYS. SEED WITH PERENNIAL RYE GRASS MULCH WITH STRAW.
IMMEDIATE AFTER TOPSOIL HAS BEEN PLACED, STABILIZE THE SAME SURFACE AREA WITH FINAL SEED AND MULCH 7 DAYS AFTER REACHING FINAL GRADE.
AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL PRACTICES.

7. EROSION CONTROLS MUST BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF 0.5" OR GREATER RAINFALL. REMOVE ACCUMULATED SEDIMENT FROM EROSION CONTROLS.

PERMANENT SEEDING DETAIL SCALE: NONE

CURB OPENING-WITHOUT GRATE

CONTRACTOR IS RESPONSIBLE FOR OBTAINING BORROW MATERIAL ONSITE AND / OR DISPOSING MATERIAL OFF SITE AS REQUIRED TO MEET INDICATED DESIGN ELEVATIONS. TEMPORARY SEEDING SHALL BE PERENNIAL RYE GRASS (40 LB / ACRED) AND MULCH AT 3 BALES OF STRAW PER 1000 S.F.

0

11. THE CONSTRUCTION OF BMPs SHALL BE REVISED OR ADDED IF DEEMED NECESSARY PER SECTION 1000 OF THE SANITATION DISTRICT 1 REGULATIONS. DEBRIS SHALL BE COLLECTED WITHIN PROPERTY LIMITS WEEKLY OR AS NEEDED FOR PUBLIC SAFETY. SURROUNDING STREETS AFFECTED BY THE CONSTRUCTION SHALL BE CLEANED DAILY OR AS NEEDED FOR PUBLIC SAFETY. SEE CONSTRUCTION ENTRANCE DETAIL IN SWPPP DETAILS SHEET.

OF CURB INLET SEDIMENT CONTROL DEVICE
WITH CURB FILTER

 $\left(\overline{\mathbb{P}} \right)$

DANDY CURB SCALE: NONE

0

49

231,591

CIVIL

G-05

STORM WATER POLLUTION PREVENTION NOTES

SANITATION DISTRICT NO. 1 IS TO BE CONTACTED 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY AT 859-578-6892

ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED AS SHOWN ON THE PLANS, AND SHALL BE IN COMPLIANCE WITH THE LATEST CONSTRUCTION ACTIVITY "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" RULES AND REGULATIONS.

FLAT PEA TALL FESCUE TURF-TYPE FESCUE KENTUCKY BLUEGRASS KENTUCKY BLUEGRASS PERENNIAL RYEGRASS TALL FESCUE 100 - 120 100 - 120 40 - 50 90 5 FOR

TEMPORARY SEEDING DETAIL SCALE: NONE

ONLY MULCH OR DORMANT

10.

SAW CUT CONCRETE, RESIDUE FROM SAW CUT, AND GRINDINGS SHALL BE DISPOSED OF IN THE WASHOUT PIT.

(MA)

CONCRETE WASHOUT DETAIL
SCALE: NONE

PERENNIAL RYEGRASS TALL FESCUE

WHEAT TALL FESCUE PERENNIAL RYEGRASS

120 40 40

TALL FESCUE SEED MIX TURF-TYPE FESCUE BANKS OR CUT SEED RATE LB/AC. 10 - 20 20 - 30 20 - 25 20 - 25 20 - 30 20 - 40 10 - 20 20 - 40 PR CLOSE MOWING AND ATERWAYS WITH ≤2.0 //SEC. VELOCITY NOT SEED LATER THAN NOT SEED LATER THAN

AUGUST 16 TO NOVEMBER 1

RYE TALL FESCUE PERENNIAL RYEGRASS

112 40 40

6 4

MARCH 1 TO AUGUST 15

OATS
TALL FESCUE
PERENNIAL RYEGRASS
PERENNIAL RYEGRASS
TALL FESCUE

LB/1,000 SF

CROWN VETCH FESCUE PERMANENT SEEDING FERTILIZATION FORMULA 10-10-10 SPRING, AND YEARLY AFTER ESTABLISHED FALL, YEARLY, OR AS NEEDED MOWING CHART I٧

(H)

CONSTRUCTION ENTRANCE
SCALE: NONE

PLASTIC LINING

THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.

SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO DI ACCE

APPLY MULCHING IMMEDIATELY AFTER SEEDING.
SEEDING SHALL BE INSPECTED FOR BARE SPOTS AND WASHOUTS, AND RESEEDED AS NECESSARY. PLAN VIEW

SECTION B-B

TEMPORARY LOCATION FOR MULTIPLE PHASE PROJECT

NOTES:

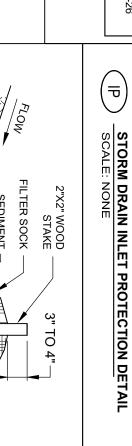
ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, SHALL BE DISPOSED OF IN THE CONCRETE WASHOUT AREA. DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASHOUT ON THE GROUND, OR IN STORM DRAINS, DITCHES OR WATER BODIES, IS PROHIBITED. WASHOUT PIT SHALL BE LOCATED 100' MINIMUM FROM INLETS, STREAMS, WETLANDS AND ANY OTHER SURFACE WATERS. CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. FOR LARGER SITES, MULTIPLE CONCRETE WASHOUT AREAS MAY BE REQUIRED.

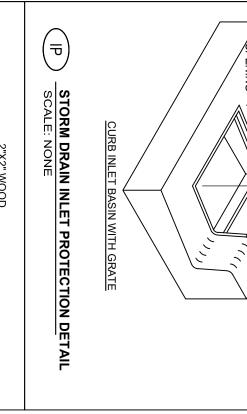
PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS, AND INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF ROCKS OR DEBRIS. CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA. F CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO THE CONSTRUCTION ENTRANCE.

CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND TO DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR POLYETHYLENE SHEETING SHALL BE REPAIRED IMMEDIATELY. THE CONCRETE WASHOUT AREA SHALL BE CLEANED OR REPLACED WHEN IT IS 75% FULL. THE POLYETHYLENE SHEETING SHALL BE REPLACED AFTER EACH CLEANING. PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE, BUT MUST BE SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT USE. ONCRETE WASHOUT AREAS SHALL BE COVERED DURING NCLEMENT WEATHER TO PREVENT OVERFLOWS.

KTC NO. 1 COL RSE AGGREGATE 24" 24"

ULTRAVIOLET
RADIATION STABILITY (SF SF SCALE: NONE 90% MIN ASTM-G-26





SLURRY FLOW RATE
EQUIVALENT OPENING
SIZE

40-80

MULLEN BURST STRENGTH

190 PSI MIN

ASTM D-3786

GRAB TENSILE STRENGTH

FABRIC PROPERTIES

VALUES 90 LB. MIN

CURB CURB INLET CASTII WITH GRATE DUMPING STRAPS

SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW: OR AS MUCH AS POSSIBLE, VEGETATION IS REMOVED, IT DAYS FROM SILT FENCE US STD. SIEVE CW-02215 TEST METHOD

ASTM
D-1682 CONTAINMENT AREA REINFORCED CORNERS CURB FILTER (FOR VERTICAL CURB) OVERFLOW PORTS

| | | | | | 7) | 6) | 5) | 4) | 3) | 7 |) = | NOTES: | |
|------------|-------------|----------|-------------|--------------------|--|---|---|--|---|--|--|----------|----------|
| 10% - 20% | 2% - 10% | 0% - 2% | SLOPE | MAX. S | THE MAXIMUM DR IS 1/2 ACRE AND IS | WHEN A FILTER SOC DISPERSED ON-SITE. | BUILT UP SEDIMENT SHALL BE 1/3 THE FILTER SOCK HEIGHT. | FILTER SOCKS SHALL BE PLACEI SLOPE FOR SEDIMENT DEPOSIT. | FILTER SOCKS SH SLOPES PARALLE | OF ANY REFUSE, CONTAIN TO PLANT GROWTH, BE DIS SOURCE OF ORGANIC MAT RANGING FROM 3/8" TO 2" | HDPE 3/8" KNITTEI COMPOST. | ES: | FLOW |
| 10:1 - 5:1 | 50:1 - 10:1 | 0 - 50:1 | RATIO (H:V) | SLOPE LENGTH ABOVE | THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE: | WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE. | BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT. | FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT. | FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE. | OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2". | FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST. | | SEDIMENT |
| 75' | 100' | 125' | တ <u>ှ</u> | | 100 FE THE SLO | REQU |)VED W | LEAST | THE SL | OM A W | CONTIN | % | |
| 100' | 125' | 250' | 12" | FILTER SC | ET OF F | RED, I | HEN IT | 5' FRO | OPE. | R MATE /ELL-DE ST OF F | AL, FILL | | |
| 150' | 200' | 300' | 18" | SOCK | ILTER: | T SHALL | HAS RE | M THE | ACROS | ERIALS : ECOMPC PARTICL | TUBUL ED WITI | - | 12" MIN. |
| 200' | 250' | 350' | 24" | | SOCK | BE | ACHED | TOE OF | SS | TOXIC DSED LES | 7,7 | | |

(8)

CHECK DAM N.T.S.

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

FILTER SOCK DETAIL SCALE: NONE

| ΓAILS | |
|-------|--|

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

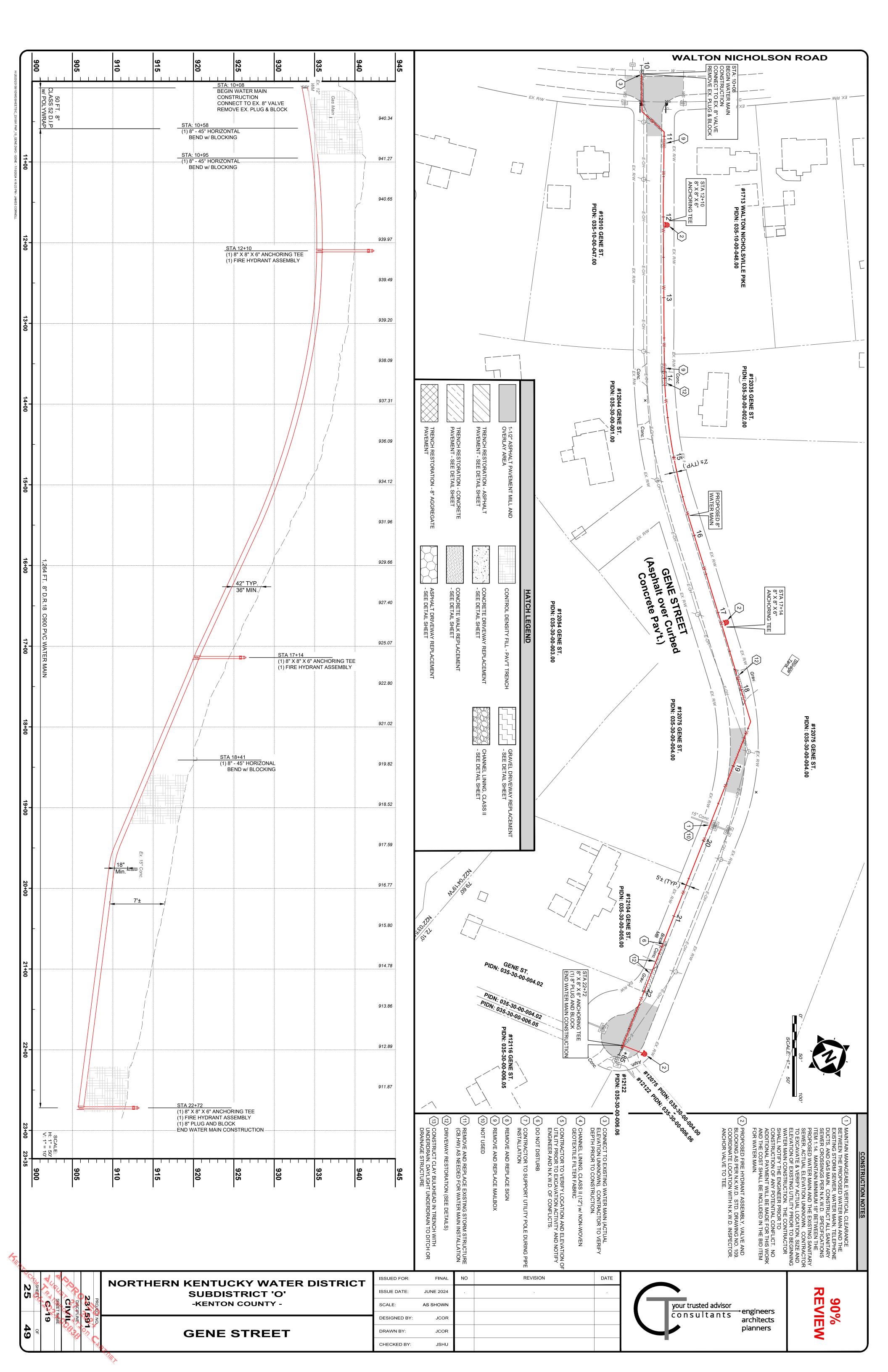


CATCH BASIN

SOMETRIC VIEW



KENTON COUNT **EROSION CONTROL DET**





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.



| Permit No. —— | TC 99-21E |
|---------------|-------------|
| | 01/2023 |
| I. SAFETY | Page 2 of 7 |

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 of more of land, you must obtain KPDES KYR 10 permit.
 Information can be found at http://water.ky.gov/permitting/Pages/GeneralPermits.aspx

| F. Additional NotesThe following additional notes apply to this permit: | OPPONIATIONS OF THE PROPERTY O |
|--|--|
| | Man Sp. Co. T. C |

| | D 2 7 |
|-----------|-----------|
| | 01/2023 |
| | 04 /2022 |
| ermit No. | IC 99-21E |

II. UTILITIES

Page 3 of 7

TC 00 24F

- 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: | |
|-------------------|-----------------|
| | LP 22 CARTIN |
| | |
| | Algust Poly Co. |
| | Chy 3 Gbr |

| Peri | rermit No TC 99-21E | | |
|------|---|-------------------------|--|
| III. | DRAINAGE | 01/2023 Page 4 of 7 | |
| • | Negative impacts to existing drainage will be the applicant's responsibility to repair in accordance with SSRBC. | n KYTC | |
| • | All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of including bedding and joint seating. Pipe shall not be covered until inspected by the Department and permission obtained to make backfill. It is the applicant's responsibility to request inspection. | nstallation express | |
| • | All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with in entrance areas or other paved areas within the right-of-way shall not be acceptable. | ith curbs or | |
| • | 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, the temperature is below 40 degrees Fahrenheit, without the express consent of the Department. No 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 accommodate Specifications. At least 24 hours notice to the Department is required prior to begin operations. Phone: Name: | rdance with | |
| | | | |
| • | Utility companies performing road cuts must restore the pavement to pre-existing condition. Pictures/recommended to ensure proper placement of signs and lane markers that are temporarily removed for operations. In some cases, a pre-work inventory may be requested from the Department. | videos are or paving | |
| • | Existing pavement and shoulder material shall be removed to accommodate the above paving specif | ications. | |
| • | The finished surface of all new pavement within the right of way shall be true to the required slope an uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent have pavement or as determined by KYTC. | | |
| • | To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highwap pavement and shall slope away from the existing edge of the pavement as specified in drawings | S OT CASE | |
| • | Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement, edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Depa Highways Standard Specifications (latest edition), shall be applied between new and existing pavement. | rtment of | |
| • | Additional notes: | | |
| | Chicking City | | |
| | H arin | | |

| ermit No. | TC 99-21E |
|-------------|-------------|
| | 01/2023 |
| V ENTRANCES | Page 5 of 7 |

• 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.
- KTYC 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 KTYC maintenance facility.

| • | Additional notes: |
|---|-------------------|
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| | |

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: | ST ST ROP SOL |
|---|-------------------|---------------|
| | | A' CALUCULA |

| Permit No. | TC 99-21E |
|------------|-----------|
| | 01/2022 |

VII. SIDEWALK SPECIFICATIONS

Page 6 of 7

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: | |
|---|-------------------|-----------|
| | | D'A CO OS |
| | | Chy Cop |

| ermit No | TC 99-21 |
|--|------------------------------------|
| IX. RIGHT OF WAY FENCE RESTORATION | 01/202 Page 7 of |
| The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to pencroachment. | orotect against |
| 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 paintab finish materials such as vinyl are acceptable. | le. Durable |
| The permittee shall be required to construct and maintain the replacement fencing to an acceptabl tionality and state of repair. All work on the fencing shall be performed by access from the private cess from the roadway is not allowed. | le level of func- property. Ac- |
| The existing fence shall be removed by permittee and stored at the Department's maintenance stored future reuse by the Department, or the Department shall be reimbursed the cost of fencing remove | |
| 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.







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





LEADING FROM THE FRONTIER TO THE FUTURE

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.





859-356-5302 • FAX: 859-356-6843

CERTIFICATE OF ENCROACHMENT APPLICATION

| | 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 | | |
| | Approximatelyfeet \(\sumsymbol{\text{N}} \subseteq \text{E} \subseteq \text{W} \) of \(\subseteq \text{See attached plans} \) | | |
| 4. 5. | Is Location of Encroachment on a: City Road Additional Information: proposed installation of 8" water main | | |
| | Approved: Yes □No Conditions: | | |
| | Heads up when you start Ken - 859-743-3218 | | |
| | Inspected By: : Date: Da | | |
| | | | |



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."



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 | | |
| City Erlanger Contact Person Steve Broering | Phone 859-426-2728 | | |
| Type of Encroachment \boxtimes Street \square Sidewalk \square 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 Encroachme | | | |
| Construction of 367 ft of 8" water main along Highwater | er Road from the current water main terminus | | |
| across from River Heights Lane to #1873 Highwater F | Road | | |
| Explanation of Need for Encroachment | | | |
| Due to topography along the roadway in this area and | | | |
| main, the proposed water main alignment needs to be | | | |
| Date & Time Activity to Commence TBD | _ To be Completed _ ^{TBD} | | |
| Cellular Equipment Only Has the proposed work bee | n reviewed and approved by the Kenton County | | |
| Municipal Planning and Zoning Commission? \square Yes \square | ∃ No | | |
| The following must be included: | | | |
| $\ \square$ A scaled plot plan showing the location, dimension | ns, 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). | | | |
| STATE OF Kentucky :ss | | | |
| | 14 Land Dark 2004 | | |
| Acknowledged, subscribed and sworn to before me this | s the 14 day of <u>Nox</u> , 2024. | | |
| 0 - 11 | Notary Public KYN P24266 My Commission Expires: 2124125 | | |
| APPROVED: D.C YELTON PERMIT NO | 2027-ENC-059 | | |
| 1430500.1 225415-74698 | | | |