

#### **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 Cardinal Engineering titled "SUBDISTRICT HB WATER MAIN EXTENSION PROJECT | CAMPBELL COUNTY, KENTUCKY" dated July 29, 2024 and September 16, 2024 respectively.

The District received approval from the Division of Water on July 20, 2024 (see attached letter).

<u>Easements and Right-of-Way Status</u> - Easement for the project (nine) have been secured and all right-of-way statements have been submitted (permits attached).

Start date of construction – January 2025

Proposed date in service – March 2026

Plant retirements – 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

July 20, 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 HB Water Main Extension

Campbell County, KY Northern KY Water District AI #: 2485, APE20240008 PWSID #: 0590220-24-008

Dear Mr. Kyle Ryan:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 216 linear feet of 2-inch HDPE water main, 29,237 linear feet of 8-in DI water main and 5,644 linear feet of 8-inch PVC water main. 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 Terry Humphries at 502-782-6983 or terry.humphries@ky.gov.

Sincerely,

Terry Humphries, P.E. Supervisor, Engineering Section

Water Infrastructure Branch

3 MA

Division of Water

TH:CF Enclosures

c: Cardinal Engineering Corp

Campbell County Health Department

Division of Plumbing



Northern KY Water District Facility Requirements

Activity ID No.:APE20240008

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## PORT0000000307 (Sub-District HB Water Main Extension) 216 linear feet of 2-inch HDPE water main, 29237 linear feet of 8-in DI water main, and 5644 linear feet of 8-inch PVC water main:

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

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## PORT0000000307 (Sub-District HB Water Main Extension) 216 linear feet of 2-inch HDPE water main, 29237 linear feet of 8-in DI water main, and 5644 linear feet of 8-inch PVC water main:

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]

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## PORT0000000307 (Sub-District HB Water Main Extension) 216 linear feet of 2-inch HDPE water main, 29237 linear feet of 8-in DI water main, and 5644 linear feet of 8-inch PVC water main:

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]

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## PORT0000000307 (Sub-District HB Water Main Extension) 216 linear feet of 2-inch HDPE water main, 29237 linear feet of 8-in DI water main, and 5644 linear feet of 8-inch PVC water main:

Condition	
No.	Condition
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]
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]

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## PORT0000000307 (Sub-District HB Water Main Extension) 216 linear feet of 2-inch HDPE water main, 29237 linear feet of 8-in DI water main, and 5644 linear feet of 8-inch PVC water main:

Condition No.	Condition
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]

## Kentucky Transportation Cabinet Right-of-Way Encroachment Permits

Note: The Northern Kentucky Water District also worked closely with the Campbell County Fiscal Court on the water main design along roads within their jurisdiction. The County is acceptable to the project but will not issue an encroachment permit until a contractor has been selected and the contractor's work sequence / schedule is known. Pending PSC approval and award of contract, NKWD will work with the selected contractor to supply the necessary information to obtain an encroachment permit from the County.

#### NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

#### **PERMITTEE**

Name: Northern Kentucky Water District

Contact Person:

Address: 2835 Crescent Springs Road

City: Erlanger State: Kentucky Zip: 41018 Telephone:

#### PROJECT IDENTIFICATION

Permit Number: 06-2023-00611

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	
Bore and jack 8" ductile iron pipe with 16" steel casing pipe under KY 9 for water main extension.	Campbell - KY 9	38.984089	-84.387019	

ABRITALISM -84.387019

-84.387019

-84.387019

-84.387019



Andy Beshear Governor

### COMMONWEALTH OF KENTUCKY TRANSPORTATION CABINET

Jim Gray Secretary

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

July 26, 2023

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

Subject: Permit #: 06-2023-00611

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

Linny Brefeld

**D6 Permits Supervisor** 

Attachments





#### Kentucky Transportation Cabinet Department of Highways Division of Maintenance Permits Branch

#### **ENCROACHMENT PERMIT**

KYTC KEPT #:	06-2023-00611	
Permittee:	Northern Kentucky Water Distric	ct
Permit Type / Subtype:	Utilities / Water	
Work Completion Date:	7/5/2024	
	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	7/26/2023
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	
Bore and jack 8" ductile iron pipe with 16" steel casing pipe under KY 9 for water main extension.	Campbell - KY 9	38.984089	-84.387019	
Kentucky 81	Know what's <b>below</b> . <b>Call</b> before you <b>dig</b>	To Submit a Locate Re 24 Hours a Day, Seven Call 811 or 800-752-	equest Days a Week:	ABIT





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#### **APPLICATION FOR ENCROACHMENT PERMIT**

<b>КҮТС КЕРТ #</b> :					
SECTION 1: APPLICANT CONTACT	INFORMATION				
APPLICANT	ADDRESS				
Northern Kentucky Water District	2835 Crescent Spr	ings Pike			
EMAIL	CITY		STATE	ZIP	
	Erlanger		KY	41018	
CONTACT NAME 1	EMAIL		<b>PHONE #</b> 859-426	-2713	
Kyle Ryan, PE	KRyan@nkywater	.org	CELL#		
CONTACT NAME 2 (if applicable)	EMAIL		PHONE # 859-392-3673		
Matt Bogen, PE	mbogen@cardina	lengineering.net	CELL#		
SECTION 2: PROPOSED WORK LO	CATION		•		
ADDRESS	CITY		STATE	ZIP	
AA Highway @ Enzweiler Rd.	Alexandria		Kentucky	41001	
COUNTY	ROUTE #	MILE POINT	LONGITUDE (X)	LATITUDE (Y)	
Campbell	KY 9	11.62	-84.387060	38.984022	
ADDITIONAL LOCATION INFORMATIO	ON:				
	FOR KYT	C USE ONLY			
PERMIT TYPE: Air Right Entr	ance 🔽 Utilities	☐ Vegetation Rer	noval		
ACCESS: Full Part	ial 🔽 by Permi	t LOCATION: [	Left Right	✓ Crossing	
SECTION 3: GENERAL DESCRIPTIO	N OF WORK				
Bore and jack 8" ductile iron pipe with 16" steel casing pipe under KY 9 for water main extension.					
THE UNDERSIGNED APPLICANT(s), E <u>UNEDITED</u> TERMS AND CONDITION <u>Steve Bro</u> SIGNATU	IS ON THE TC 99-1A, pa	• • • • • • • • • • • • • • • • • • • •	6-14-2023	ORIGINAL CAN	
This is not a permit unless and unshall become void if not approved from the date the applicant submit	by the cancellation da				



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#### **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.

**H**ENTUCKY



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	APPLICATION FOR ENCROACHIVIENT PERIVIT		
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		
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.	2. 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, <b>shall defend, protect, indemnify and save harmless</b> the Department from any and all liability claims and demands arising out		

- of the work, encroachment, maintenance, or other undertaking by the permittee, its successors and assigns, related or undertaken pursuant to the granted permit, due to any claimed act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party nor operate to enlarge any liability of the Department beyond that existing at common law or otherwise if this right to indemnity did not exist.
- 14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.
- 15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.
- 16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the 🎺 expense of the permittee, except where the Department is required by law to pay any or all of those costs.



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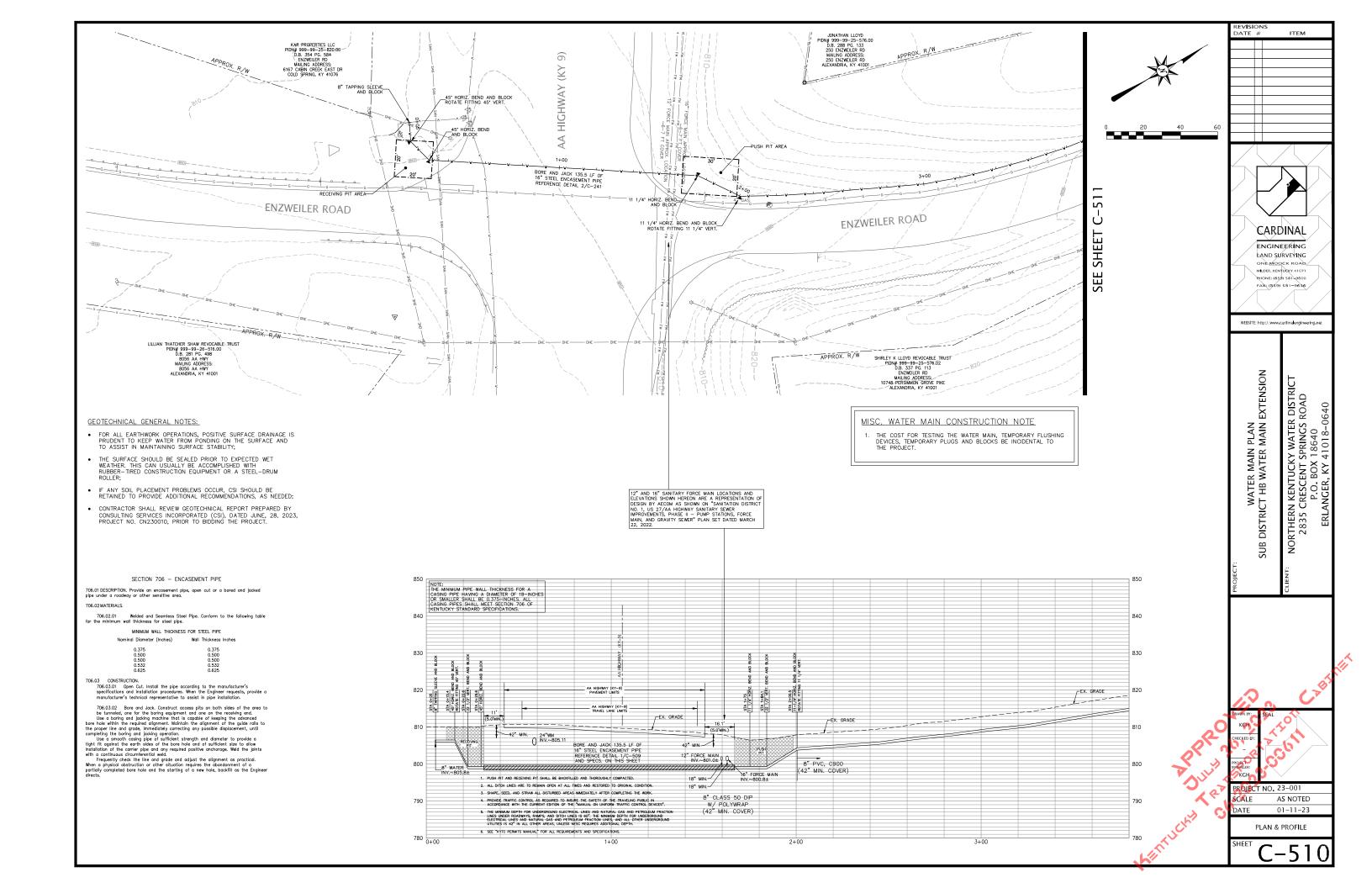
#### **APPLICATION FOR ENCROACHMENT PERMIT**

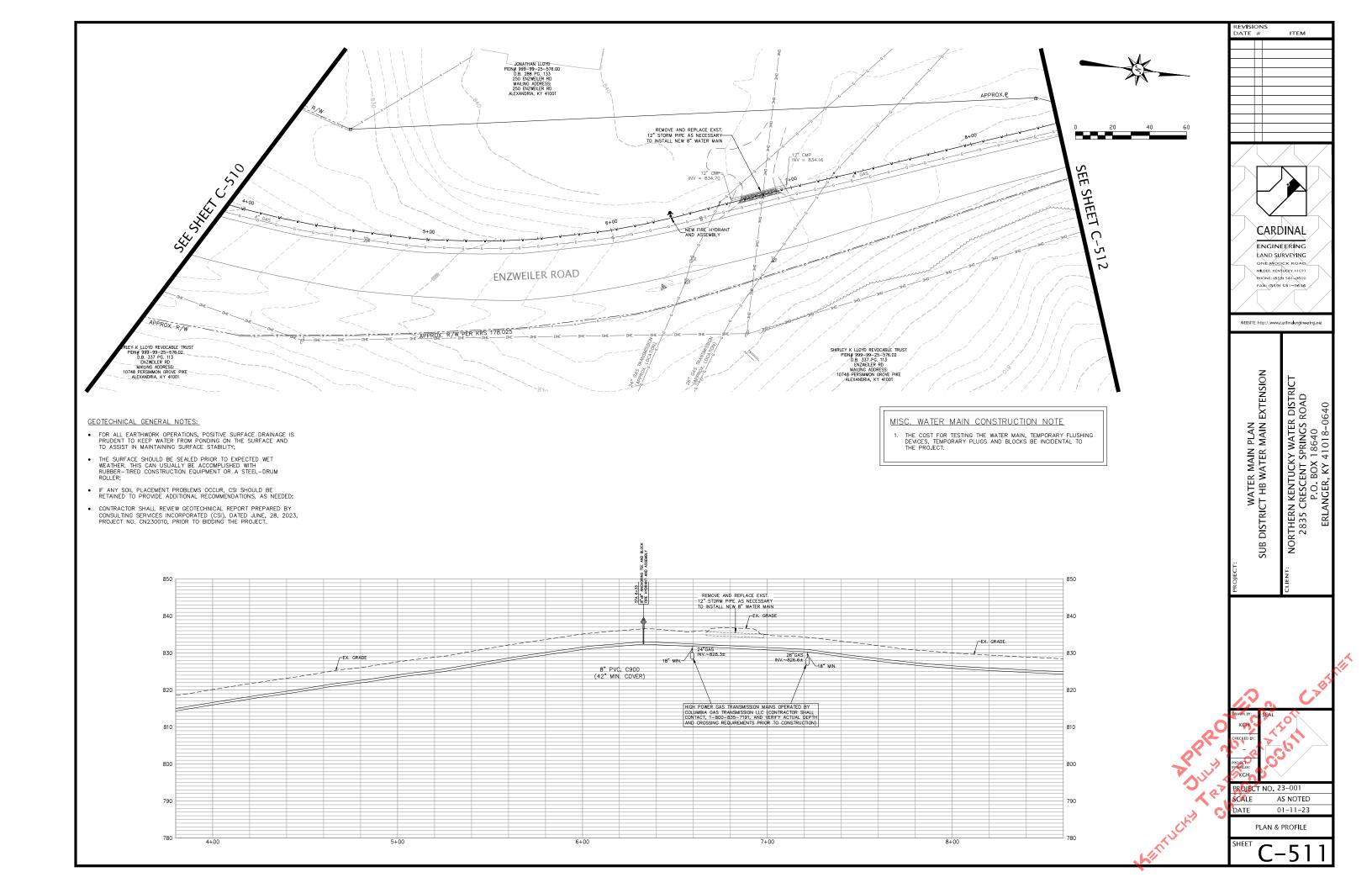
- 17. Permittee agrees that the authorized permit is personal to the permittee and shall remain in effect until such time as (a) the permittee's rights to the adjoining real property to have benefitted from the requested encroachment have been relinquished, (b) until all permit obligations have been 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.

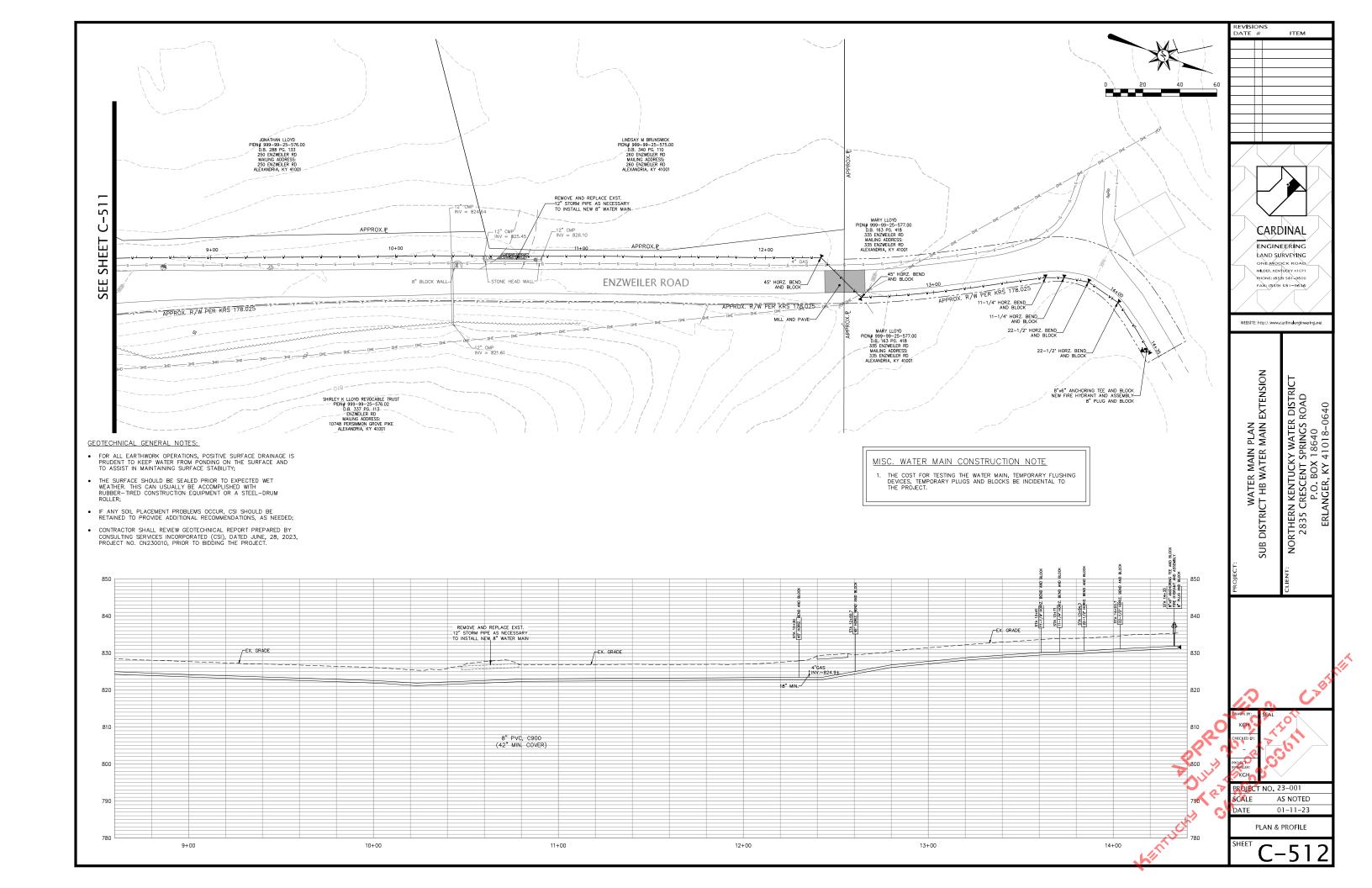
Northern Kentucky Water District			
UTILITY			
Steve Broering	Engineering Technician		
NAME (Utility Representative)	TITLE (Utility Representative)		
Steve Browning	6-14-2023		
Steve Broering SIGNATURE (Utility Representative)	DATE	<u> </u>	



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









# 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.



	I. SAFETY	)T /
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.	)
$\checkmark$	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.	I
<b>√</b>	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.	
$\checkmark$	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.	
$\checkmark$	Working hours shall be between 9:00 AM and 3:00 PM Further date and time restrictions are as follows:	
В. I	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.	
<b>v</b> . (	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 shat 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, prope 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."	Э
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. E.	Environmental  If the activity to which this permit related disturbs one acre of more of land, you must obtain KPDES KYR10 perm Information can be found at <a href="http://water.ky.gov/permitting/Pages/GeneralPermits.aspx">http://water.ky.gov/permitting/Pages/GeneralPermits.aspx</a>	
F. <i>F</i>	Additional Notes  The following additional notes apply to this permit:	
<b>V</b>	Information can be found at <a href="http://water.ky.gov/permitting/Pages/GeneralPermits.aspx">http://water.ky.gov/permitting/Pages/GeneralPermits.aspx</a> Additional Notes The following additional notes apply to this permit:  Bore pits must be made safe for an errant vehicle during non working hours.	

### II. UTILITIES

Page 3 of 7

	i. OTILITILO
<b>✓</b>	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.
$\checkmark$	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
$\checkmark$	Minimum depth for underground Gas and Electric lines is 60" under roadways, ramps, and ditch lines and 42" in all other areas within state right of way. The minimum depth for all other utilities is 42" in all areas.
	When steel plates are installed over an open excavation in the roadway, they must be anchored to the pavement and have asphalt applied to all exposed edges and an MUTCD approved sign noting "Road Plates Ahead." KYTC must be notified of the location, date, time, and permit number associated to BOTH the installation and removal of the plate. Failure to do so may result in permit revocation.
	Utility poles moved for replacement must be removed in their entirety and the hole left behind must be backfilled.
	No poles or anchors shall be installed in a roadside ditch.
	Utility notes specific to fully-controlled access highways ONLY:  All work necessary within the right-of-way shall be performed behind a temporary fence erected prior to the start of work. The temporary woven wire fence shall be removed immediately upon completion of work on the right-of-way, and the control of access immediately restored to original condition, in accordance with applicable KYTC SSRBC. All vents, valves, manholes, etc., shall be located outside of the right-of-way. Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints. The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep. Work in interstate right-of-way requires approval from FHWA (Federal Highway Administration).
	Additional notes:
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Additional notes:

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irements or subdivision
oproved by KYTC before
e is at final grade. The
kings must be in-place epartment.
pre-qualified contractor. aintenance facility.
nals, must request in the right-of-way.
ork. In the event that n before removal and to
mely manner per nt is not acceptable.
not impact the must receive prior
ility to apply for power KYTC District 6 Traffic sted at least two weeks s until the electrical
ection at 859-341-2700.  mergency line at pops out of operation t. Loop repair must be
A CONTROL OF THE CONT
Carina

Permit No	TC 99-21E
IX. 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 pre encroachment.	otect against
The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-w	ay line
The fence materials and design shall meet accepted industry standards and be treated as paintable finish materials such as vinyl are acceptable.	e. Durable
The permittee shall be required to construct and maintain the replacement fencing to an acceptable tionality and state of repair. All work on the fencing shall be performed by access from the private process from the roadway is not allowed.	
The existing fence shall be removed by permittee and stored at the Department's maintenance store future reuse by the Department, or the Department shall be reimbursed the cost of fencing removed	
Right of way monuments shall be installed regardless of if replacement fence is installed or not.	
The control of access shall not be diminished as a result of replacement of the fence.	
Additional notes:	
X. MISCELLANEOUS NOTES	

#### **NOTICE TO PERMITTEE**

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



## KENTUCKY TRANSPORTATION CABINET Department of Highways

**DIVISION OF MAINTENANCE - PERMITS BRANCH** 

TC 99-209 Rev. 12/2021 Page 1 of 1

## TYPICAL HIGHWAY BORE DETAIL - FOR NON-FULLY CONTROLLED HIGHWAYS -

	куто	C KEPT #:
SECTION 1: HIGHWAY INFORMATION		
COUNTY: ROUTE: KY 9	<b>MILE POINT:</b> 11.62	PAVEMENT WIDTH: 93'
SECTION 2: UTILITY INFORMATION		
UTILITY TYPE: Water	PIPE TYPE:  Ductile Iron Pipe	DIAMETER: 8"
SECTION 3: ENCASEMENT INFORMATION		
ENCASEMENT TYPE: Steel		DIAMETER: 16"
SECTION 4: BORE INFORMATION		
BORE TYPE: Bore & jack	<b>LENGTH (L):</b> 135.5 LF	DIAMETER: 16"
SECTION 5: DETAIL FOR NON-FULLY CONT	ROLLED HIGHWAYS	
R/W  Edge of Paveme Surface  5 feet Minimum  60° / 42" Minimum (See General Notes)  Service Line  Encaseme	nt Pavement Surface	5 feet Minimum  60" / 42" Minimum  (See General Notes)

#### **SECTION 6: GENERAL NOTES**

- Push Pit and Receiving Pit shall be backfilled and thoroughly compacted.
- All ditch lines are to remain open at all times and restored to original condition.
- Shape, Seed and Straw all disturbed areas immediately after completing the work.
- Provide traffic control as required to ensure the safety of the traveling public in accordance with the current edition of the Manual on Uniform Traffic Control Devices.
- The minimum depth for underground electrical lines and natural gas and petroleum fraction lines under roadways, ramps, and ditch lines is 60". The minimum depth for underground electrical lines, natural gas and petroleum fraction lines, and all other underground utilities is 42" in all other areas, unless NESC requires additional depth.
- See KYTC Permits Manual for all requirements and specifications.

ABITAL

#### NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

#### **PERMITTEE**

Name: Northern Kentucky Water District

Contact Person:

Address: 2835 Crescent Springs Road

City: Erlanger State: Kentucky Zip: 41018 Telephone:

#### PROJECT IDENTIFICATION

Permit Number: 06-2023-00693

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					
Install 8" ductile iron water main crossing for extension of new main onto Poplar Thicket Rd.	Campbell - KY 915	38.958464	-84.421570					

Jo.958464 -84.421570

REPROPRIEST PORTACIONS

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Andy Beshear Governor

## COMMONWEALTH OF KENTUCKY TRANSPORTATION CABINET

Jim Gray Secretary

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

August 1, 2023

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

Subject: Permit #: 06-2023-00693

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

Kinny Brefeld

**D6 Permits Supervisor** 

Attachments



APPROVING STREET CARTERS STREET STREE



# Kentucky Transportation Cabinet Department of Highways Division of Maintenance Permits Branch

#### **ENCROACHMENT PERMIT**

KYTC KEPT #:	06-2023-00693	
Permittee:	Northern Kentucky Water Distric	ct
Permit Type / Subtype:	Utilities / Water	
Work Completion Date:	7/25/2024	
	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	8/1/2023
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				
Install 8" ductile iron water main crossing for extension of new main onto Poplar Thicket Rd.	Campbell - KY 915	38.958464	-84.421570				



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	KEPT #:T06-2023-00	0693				
SECTION 1: APPLICANT CONTACT	INFORMATION							
APPLICANT	ADDRESS							
Northern Kentucky Water District								
EMAIL	CITY		STATE	ZIP				
	Erlanger		KY	41018				
CONTACT NAME 1	EMAIL		<b>PHONE #</b> 859-42	6-2713				
Kyle Ryan, PE	KRyan@nkywater	.org	CELL#					
CONTACT NAME 2 (if applicable)	EMAIL		<b>PHONE #</b> 859-392-3673					
Matt Bogen, PE	mbogen@cardina	lengineering.net	CELL#					
SECTION 2: PROPOSED WORK LO	CATION		•					
ADDRESS	CITY		STATE	ZIP				
Licking Pike @ Poplar Thicket Rd.	Unincorporated		Kentucky	41001				
COUNTY	ROUTE #	MILE POINT	LONGITUDE (X)	LATITUDE (Y)				
Campbell	KY 915	3.67	-84.421537	38.958437				
ADDITIONAL LOCATION INFORMATION	ON:							
	FOR KYT	C USE ONLY						
PERMIT TYPE: Air Right Ent	rance 🔽 Utilities	Vegetation Re	moval					
ACCESS: Full Par	tial 🔽 by Permi	t LOCATION:	Left Right	✓ Crossing				
SECTION 3: GENERAL DESCRIPTION	N OF WORK							
Install 8" ductile iron water main cros permission to open cut KY 915 crossin be restored to KYTC standards.								
THE UNDERSIGNED APPLICANT(s), <u>UNEDITED</u> TERMS AND CONDITION	NS ON THE TC 99-1A, pa		vner(s), DO AGREE TO AL	L ORIGINAL				
Steve Brasiliania	oering		6-14-2023	77.75				
SIGNAT	URE "		DATE	or oth				
This is not a permit unless and ur shall become void if not approved from the date the applicant submi	by the cancellation da							



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.

**H**ERFUCKS



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

#### **APPLICATION FOR ENCROACHMENT PERMIT**

10.				ent shall not infr Each abutting ow submission								
							, hereby cons	sent to the gran	nting of t	the permit re	equested	l by the
	applicant a	long Ro	ute				which permit o	loes affect fror	ntage rig	hts along my	y (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	•			rfere with any	similar r	ights or pern	nit(s) pre	viously
12.	assigns, ag other encre procedures manner co	ree as a oachme s of the ontrary t	a conditi ents in st e Depart to that p	ocumentation with the grantict accordance ment. Permittee or escribed by the maintenance as	ing of the with the e, its su	he per e subi iccesso ved pe	mit to constru mitted and app ors and assigns ermit. Only nor	ct and maintai roved permit of s, shall not use mal usage as o	n any ar documer e facilitie	nd all permit ntation and t es authorize	ted facil the polic d herein	lities or lies and in any
13.	permitted defend, pr of the wor undertaker employees	facilitie otect, in k, encro n pursus s, or cor	es or othe ndemnife pachmer ant to the ntractors	and assigns, at a ner encroachme iy and save harn nt, maintenance, ne granted perm s. This provision t beyond that ex	nts are nless th , or oth nit, due shall n	remo e Dep er und to an ot inu	ved from the artment from a dertaking by the y claimed act correction to the beneares	right-of-way a any and all liab e permittee, it or omission by efit of any thire	nd the ility claing succes the period party	right-of-way ms and dema sors and ass mittee, its se nor operate	restored ands aristigns, reli ervants, to enlar	d, shall sing out ated or agents, rge any
14.	additional restoration undertaken corrective	action by of the new as ord as ord actions	oy the peright-of ered and to be un	rovision of the permittee, its succ f-way. In the event d within a reason ndertaken and t ccessors and assi	cessors ent add nable tir he Dep	and a litiona ne, the	ssigns, up to ar I actions requi e Department r	nd including the red by the Dep nay in its discre	e remove partmen etion cau	al of the end t under the se those or o	roachme permit a other add	ent and are not ditional
15.	law and re	gulatior	n, includi	nd assigns, shall ing those impose s of the U.S. Dep	ed purs	uant t	o Title VI of the	Civil Right Act	of 1964	4 (42 U.S.C. §	2000d (	
16.	Permittee,	its succ	cessors a	and assigns, agre	ee that	if the	Department de	etermines it is	necessa	ry for the fa	cilities o	r 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.



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

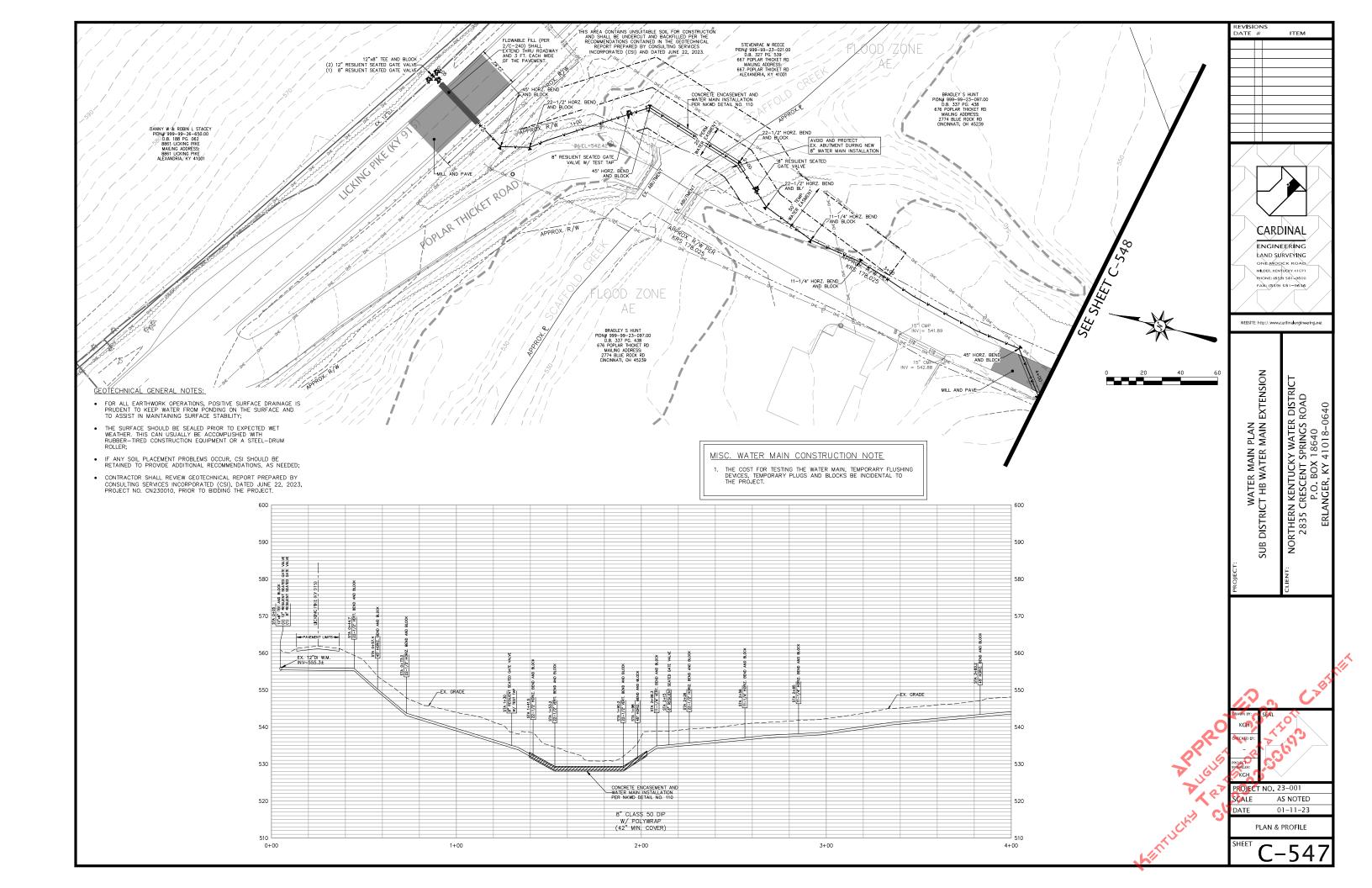
#### APPLICATION FOR ENCROACHMENT PERMIT

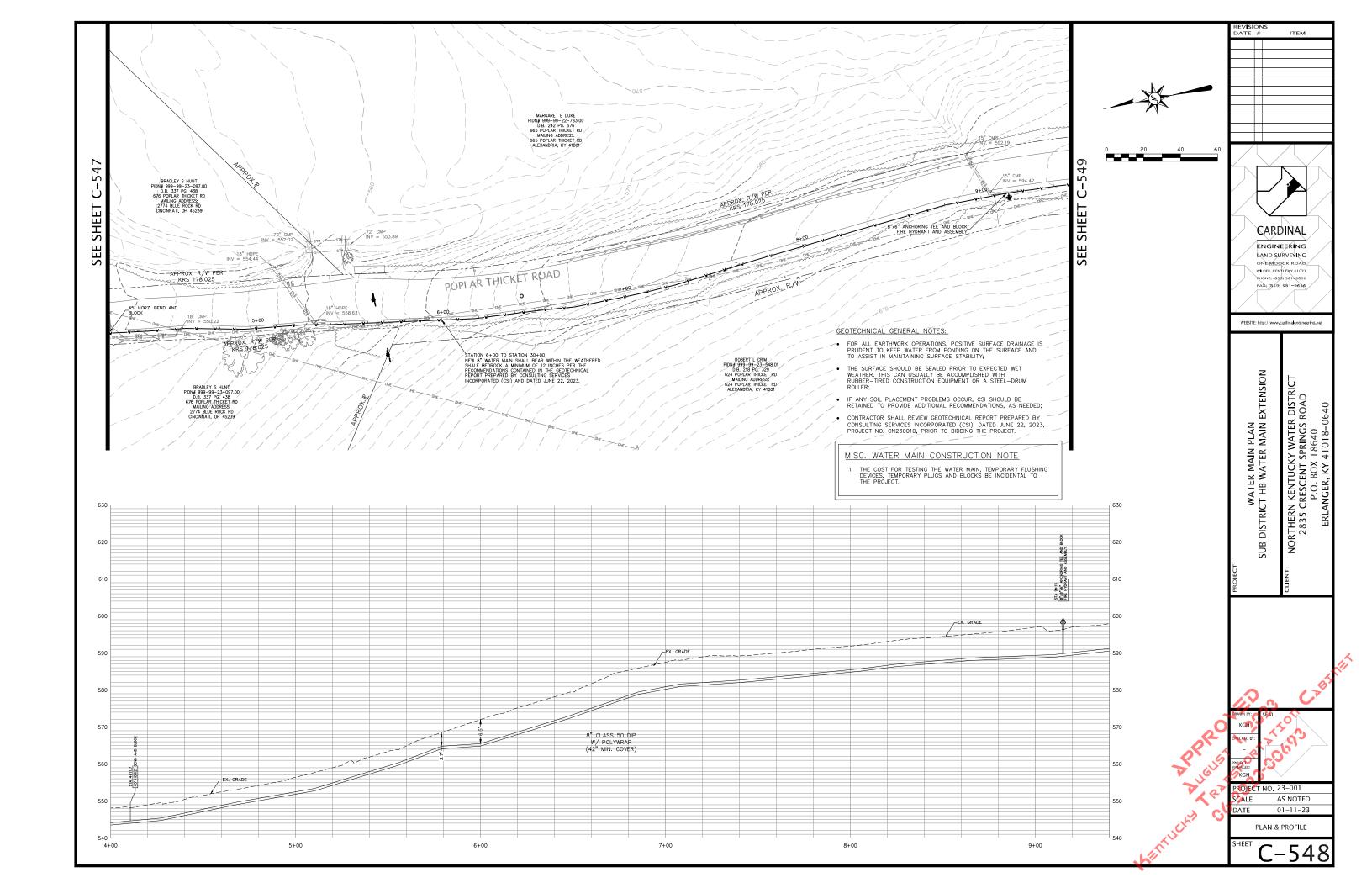
- 17. Permittee agrees that the authorized permit is personal to the permittee and shall remain in effect until such time as (a) the permittee's rights to the adjoining real property to have benefitted from the requested encroachment have been relinquished, (b) until all permit obligations have been 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.

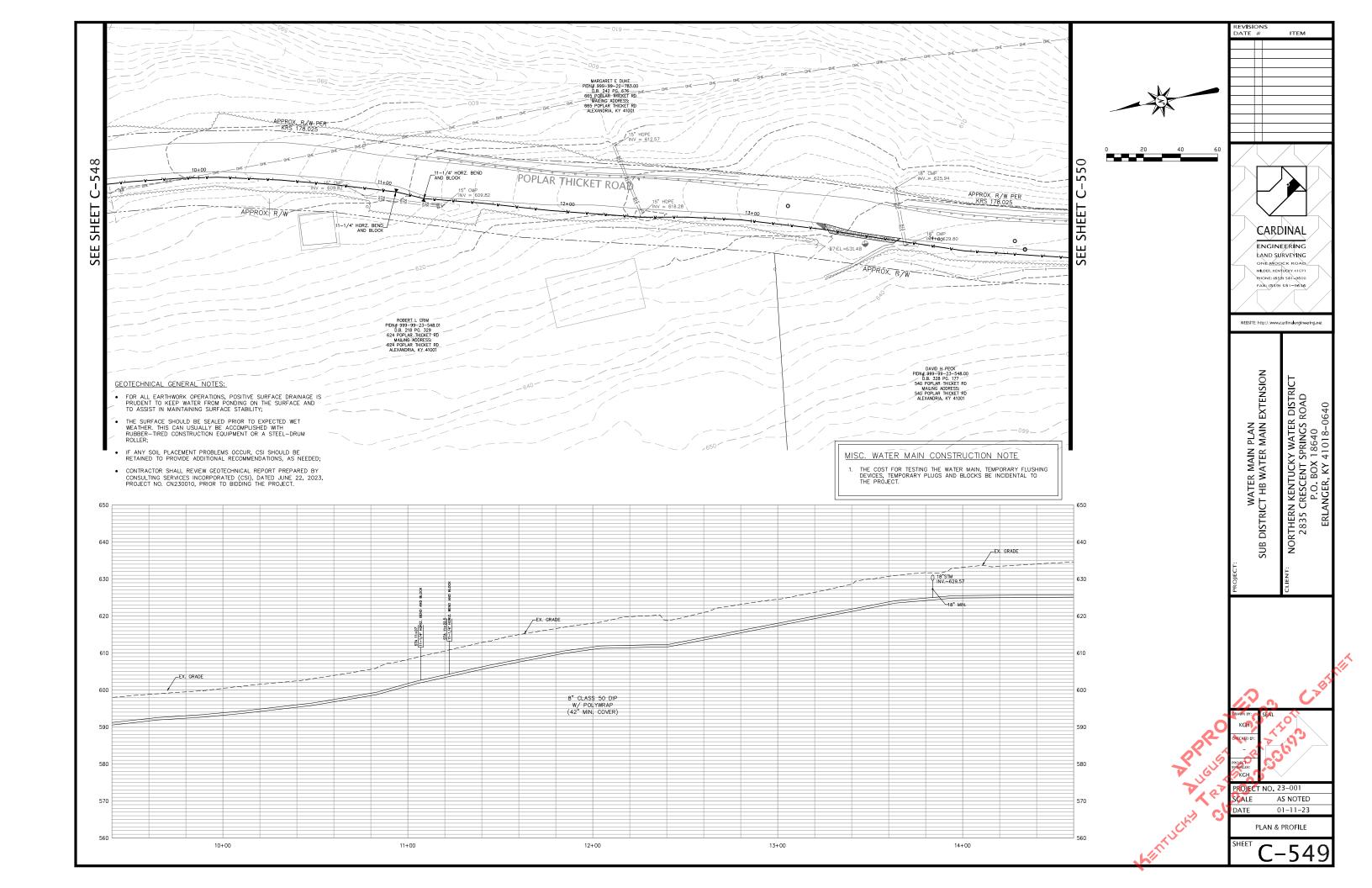
Northern Kentucky Water District			
UTILITY			
Steve Broering	Engineering Technician		
NAME (Utility Representative)	TITLE (Utility Representative)		
Steve Broering	6-14-2023		
SIGNATURE (Utility Representative)	DATE	, Q o	C

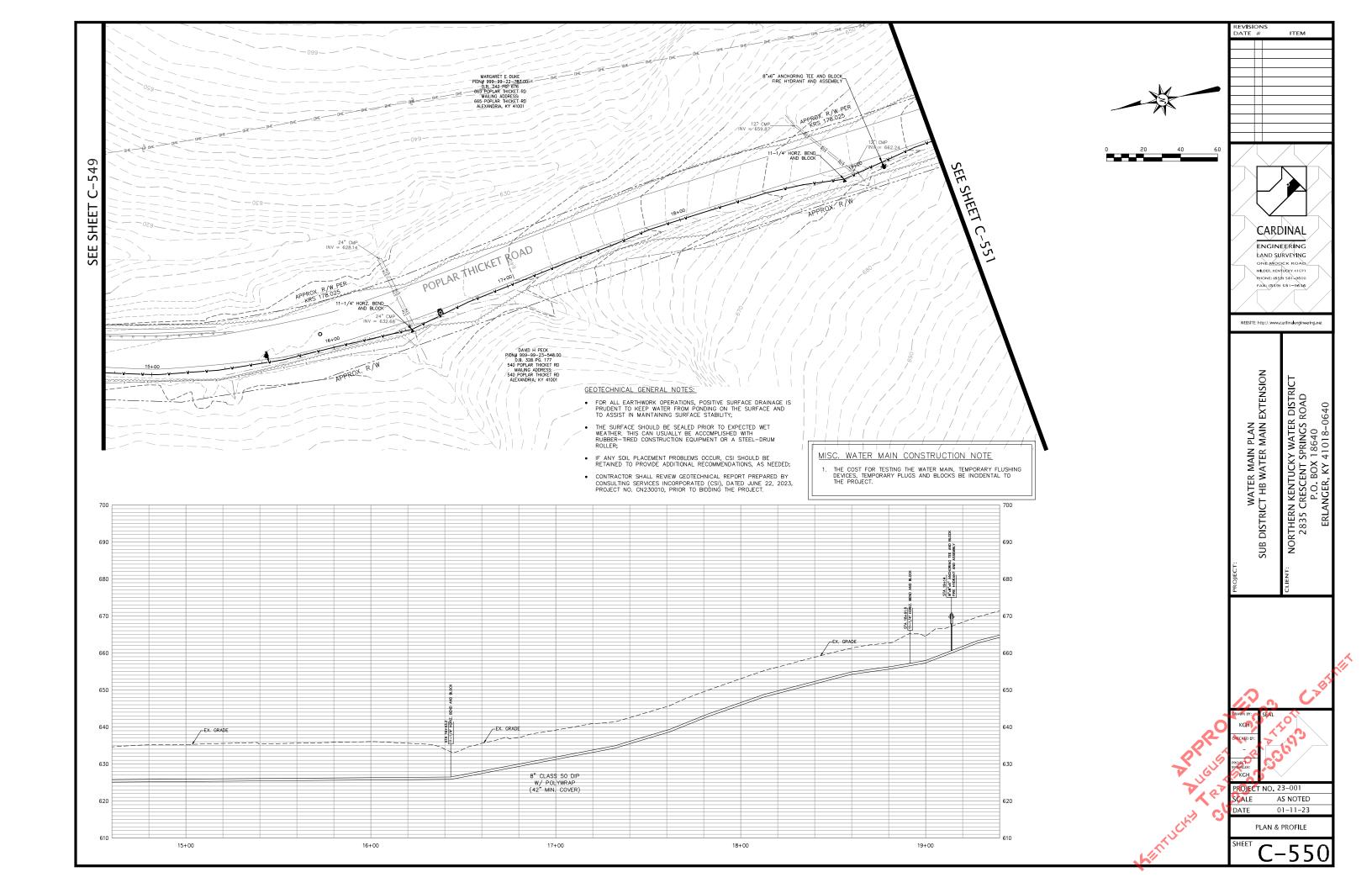


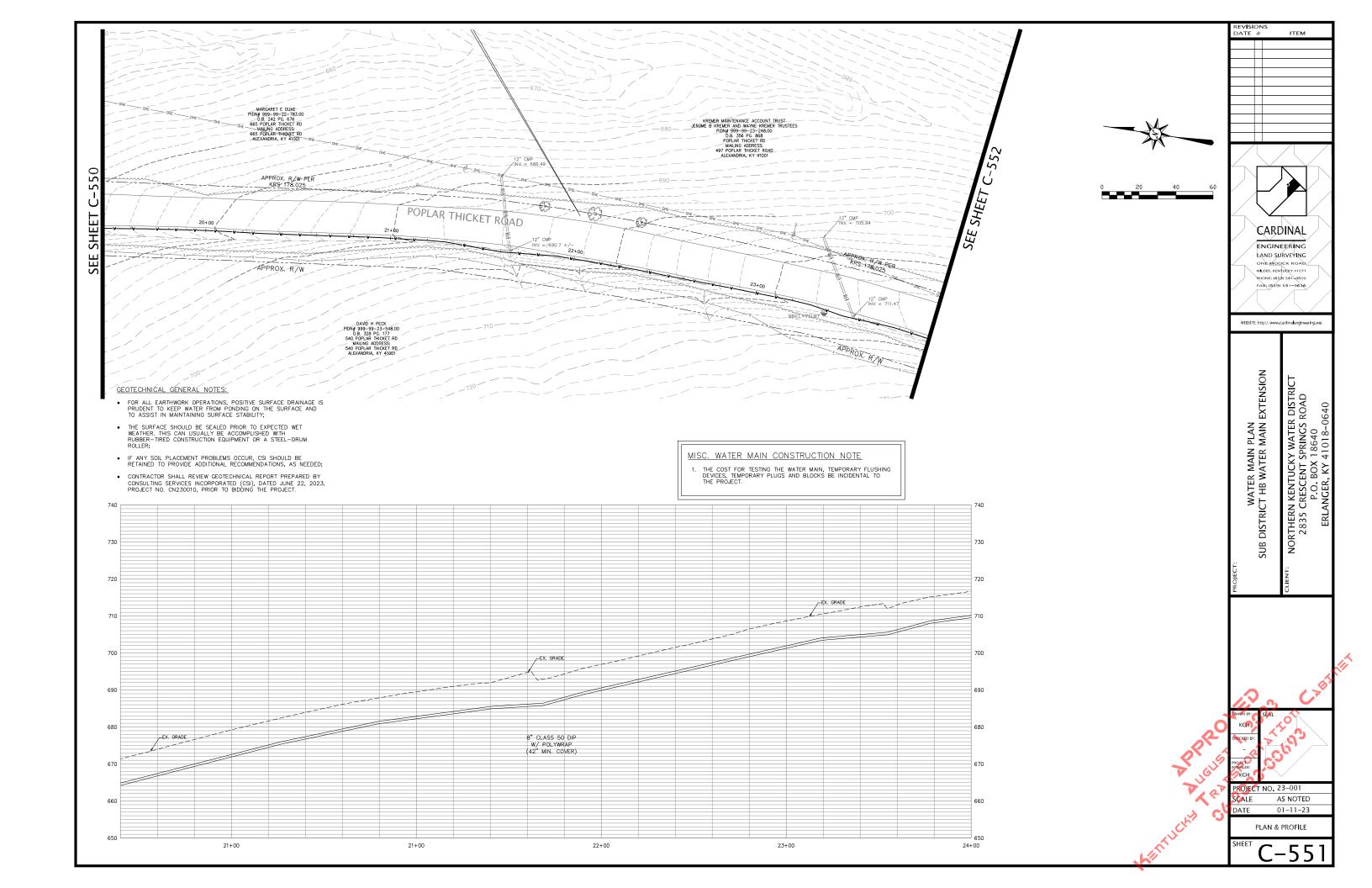
To Submit a Locate Request 24 Hours a Day, Seven Days a Week: Call 811 or 800-752-6007

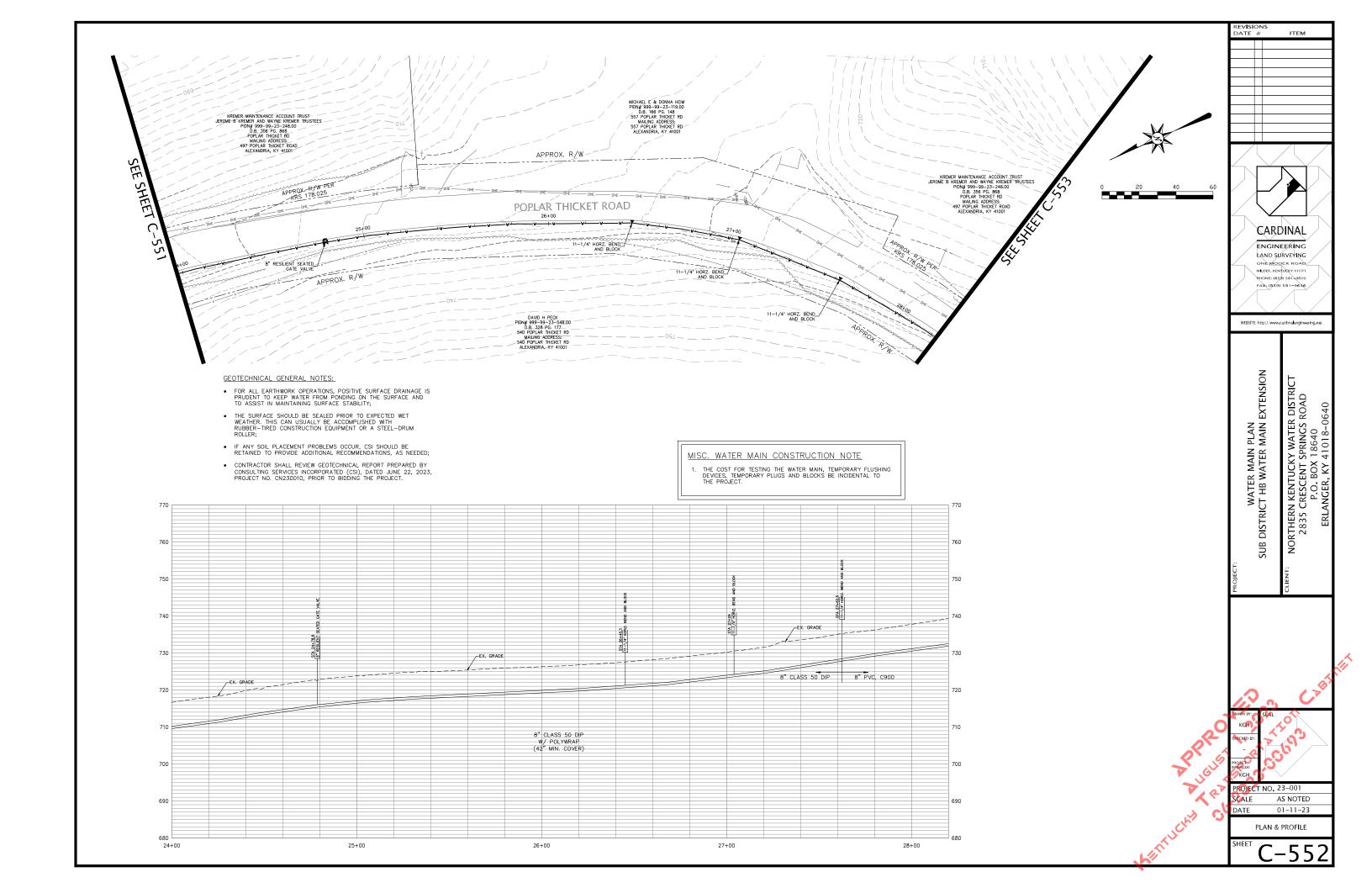


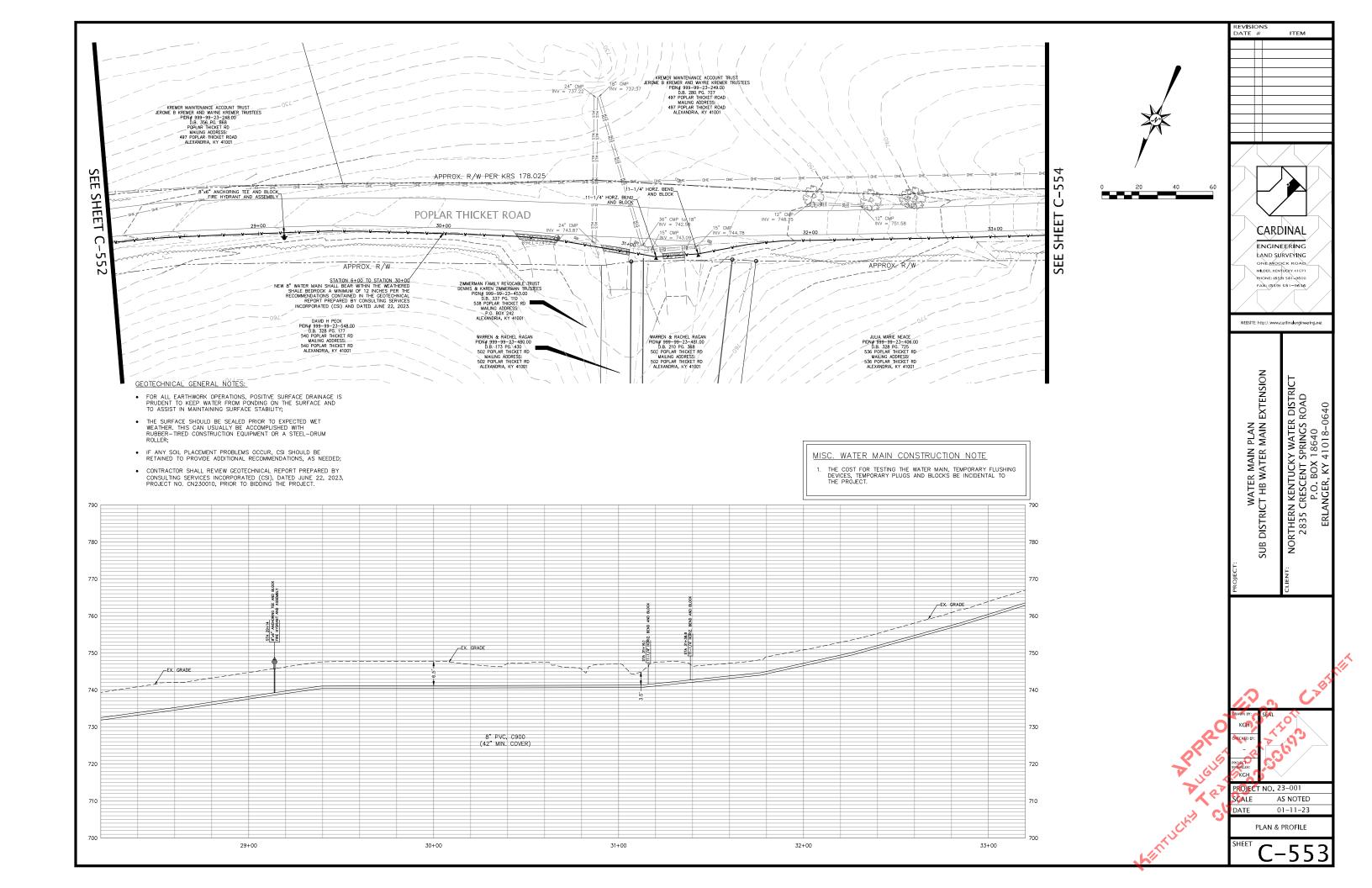


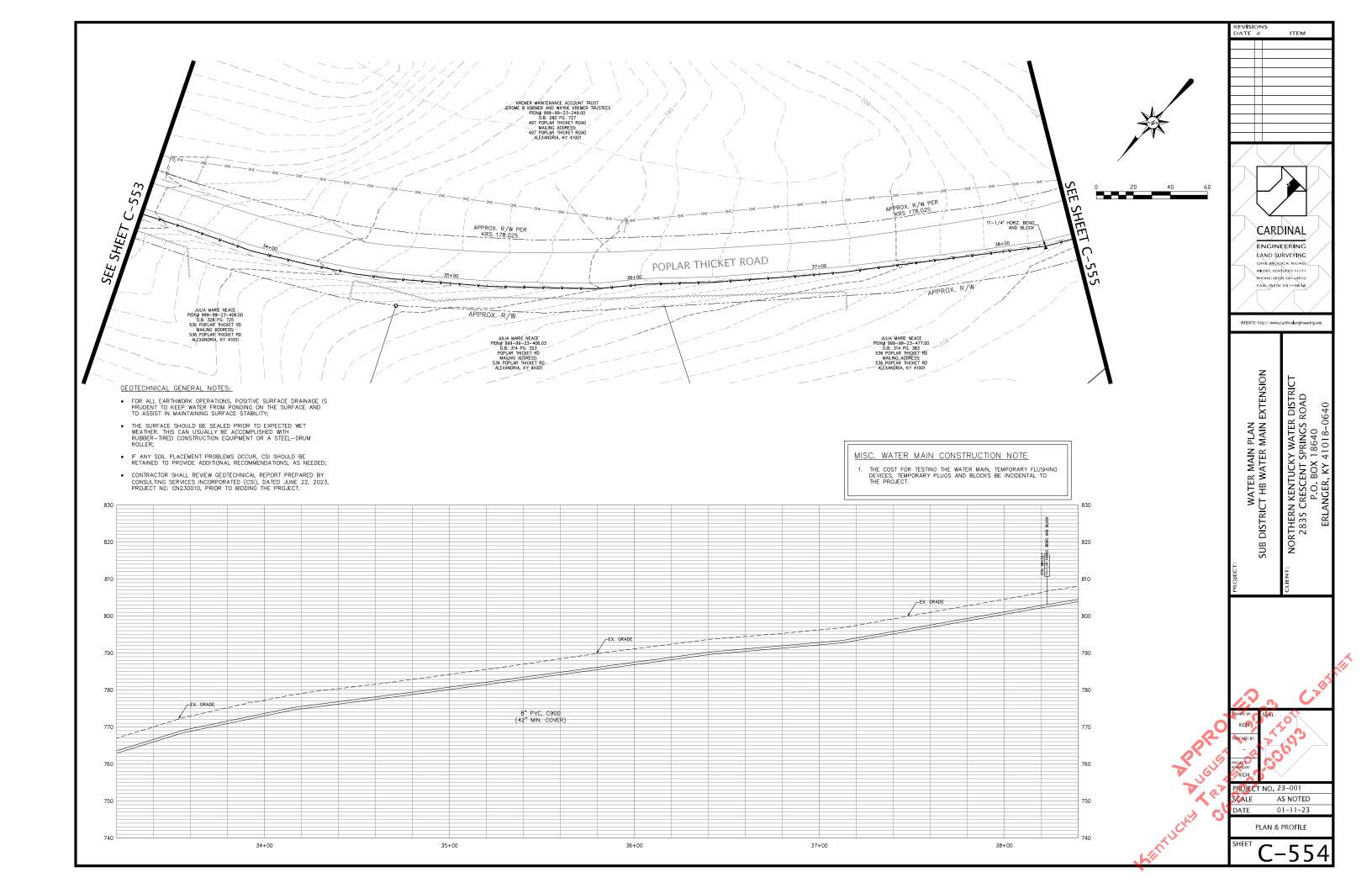


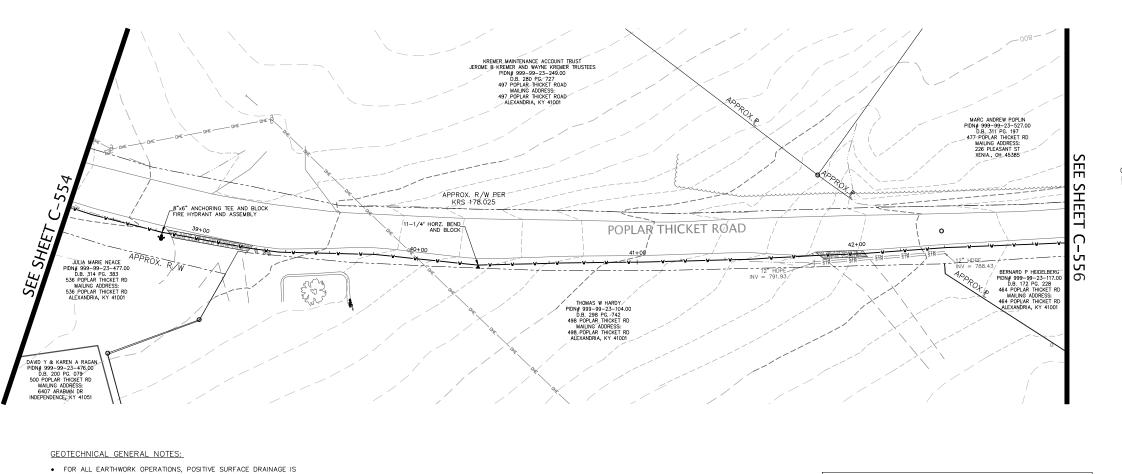








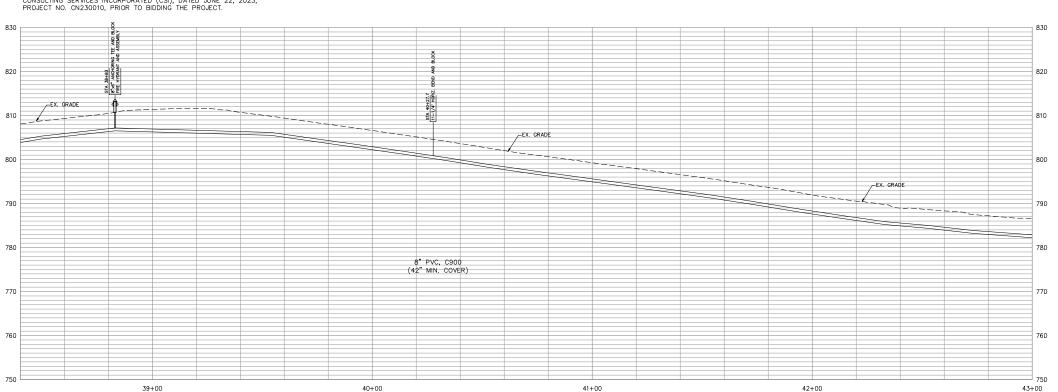




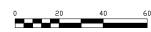
- FOR ALL EARTHWORK OPERATIONS, POSITIVE SURFACE DRAINAGE IS PRUDENT TO KEEP WATER FROM PONDING ON THE SURFACE AND TO ASSIST IN MAINTAINING SURFACE STABILITY;
- THE SURFACE SHOULD BE SEALED PRIOR TO EXPECTED WET WEATHER. THIS CAN USUALLY BE ACCOMPLISHED WITH RUBBER-TIRED CONSTRUCTION EQUIPMENT OR A STEEL-DRUM ROLLER;
- IF ANY SOIL PLACEMENT PROBLEMS OCCUR, CSI SHOULD BE RETAINED TO PROVIDE ADDITIONAL RECOMMENDATIONS, AS NEEDED;
- CONTRACTOR SHALL REVIEW GEOTECHNICAL REPORT PREPARED BY CONSULTING SERVICES INCORPORATED (CSI), DATED JUNE 22, 2023, PROJECT NO. CN230010, PRIOR TO BIDDING THE PROJECT.

#### MISC. WATER MAIN CONSTRUCTION NOTE

THE COST FOR TESTING THE WATER MAIN, TEMPORARY FLUSHING DEVICES, TEMPORARY PLUGS AND BLOCKS BE INCIDENTAL TO THE PROJECT.









REVISIONS DATE #

ITEM

WEBSITE: http://www.cardinalengineering.net

WATER MAIN PLAN DISTRICT HB WATER MAIN EXTENSION

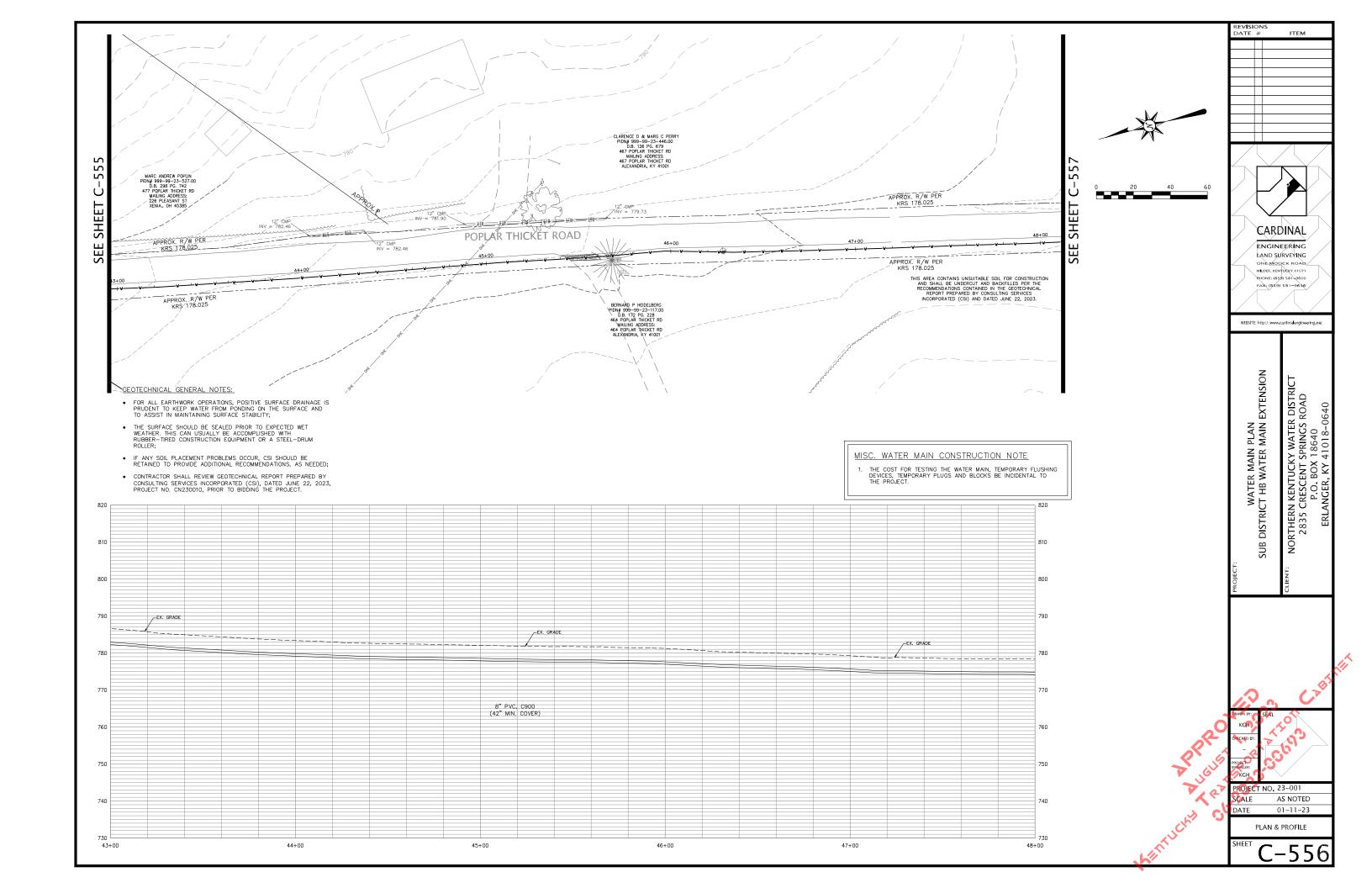
NORTHERN KENTUCKY WATER DISTRICT 2835 CRESCENT SPRINGS ROAD P.O. BOX 18640 ERLANGER, KY 41018–0640

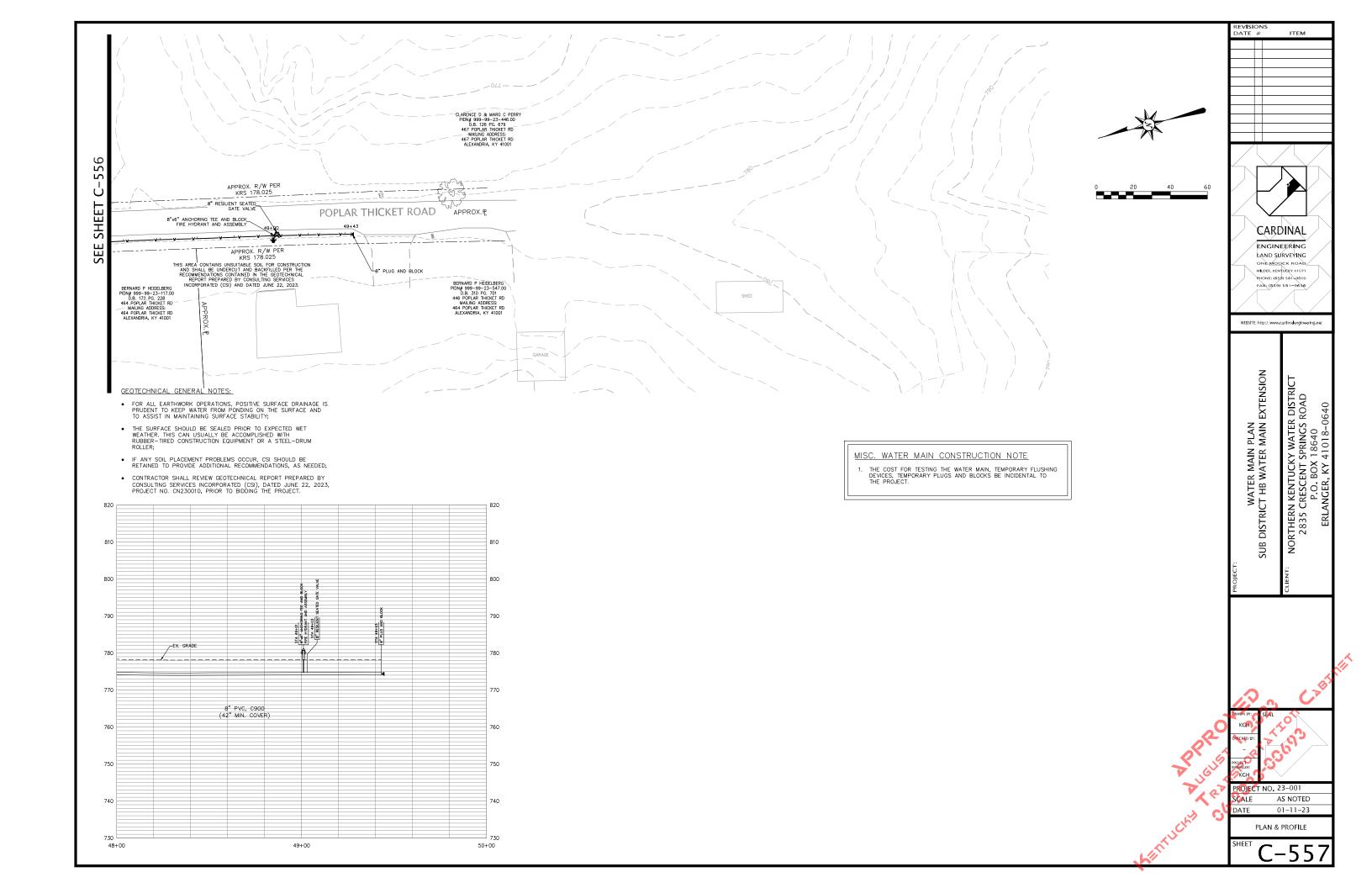
SUB

ROJECT NO. 23-001 AS NOTED

DATE 01-11-23 PLAN & PROFILE

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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	rmit No. 100-2023-00093	01/2023
	I. SAFETY	Page 2 of 7
<b>A.</b> ✓	General Provisions  All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways, latest edition, Part VI, and safety requirements shall comply with the Permits Federal law requires that traffic control shall be implemented in accordance with MUTCD standards and Standard Specifications for Road and Bridge Construction (KYTC SSRBC) under the supervision of a c Work Zone Traffic Control Supervisor.	Manual. d KYTC's
<u>/</u>	All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly so that hazards adjacent to the traveled way are kept to an absolute minimum.	completed
<u>/</u>	No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All sign flaggers during lane closure shall conform to the MUTCD. The traveled-way and shoulders shall be kep mud and other construction debris at all times during construction of the permitted facility. No non-consequipment or vehicles or office trailers shall be allowed on the right of way during working hours. The right be left free and clear of equipment, material, and vehicles during non-working hours.	t clear of truction
/	When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, sr etc.) without specific permission from the Department.	
/	Working hours shall be between 9:00 AM and 3:00 PM. Further date and time restrictions are as	follows:
	One lane of traffic must be maintained during working hours.	
<u>В.</u>	Explosives  No explosive devices or explosive material shall be used within state right of way without proper license approval of the Kentucky Department of Mines and Minerals, Explosive Division.	and
<u>c.</u>	OSHA  Kentucky Occupational Safety and Health Standards for the construction industry, which has the effect states in part: (Page 52, 1926.651, Specific Excavation Requirements) "Prior to opening an excavation, be made to determine whether underground installations, (sewer, telephone, water, fuel, electric lines, encountered, and if so, where such underground installations are located. When the excavation approa estimated location of such an installation, the exact location shall be determined, and when it is uncove supports shall be provided for the existing installation. Utility companies shall be contacted and advised proposed work prior to the start of actual excavation."	effort shall etc.) will be ches the red, proper
D.	Archaeological Whenever materials of an archaeological nature are discovered during the course of construction work maintenance operations, contact shall be made immediately with the Division of Environmental Analysis maintains an archaeologist on staff, or with the Office of the State Archaeologist located at the Universit Kentucky. Following this consultation, further action shall be decided on a case-by-case basis by the St Highway Engineer or the Transportation Planning Engineer or their designated representative.	s, which sy of
E.	Environmental  If the activity to which this permit related disturbs one acre of more of land, you must obtain KPDES KY Information can be found at <a href="http://water.ky.gov/permitting/Pages/GeneralPermits.aspx">http://water.ky.gov/permitting/Pages/GeneralPermits.aspx</a>	R10 permit.
F.	Additional Notes The following additional notes apply to this permit:	School School
	Environmental  If the activity to which this permit related disturbs one acre of more of land, you must obtain KPDES KY Information can be found at <a href="http://water.ky.gov/permitting/Pages/GeneralPermits.aspx">http://water.ky.gov/permitting/Pages/GeneralPermits.aspx</a> Additional Notes  The following additional notes apply to this permit:	
	<b>K</b> ENTUCK	_

## II. UTILITIES

Page 3 of 7

<b>√</b>	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.
$\checkmark$	All pavement cuts shall be restored per Kentucky Transportation Cabinet standards and specifications.
$\checkmark$	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
$\checkmark$	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.
$\checkmark$	When steel plates are installed over an open excavation in the roadway, they must be anchored to the pavement and have asphalt applied to all exposed edges and an MUTCD approved sign noting "Road Plates Ahead." KYTC must be notified of the location, date, time, and permit number associated to BOTH the installation and removal of the plate. Failure to do so may result in permit revocation.
	Utility poles moved for replacement must be removed in their entirety and the hole left behind must be backfilled.
	No poles or anchors shall be installed in a roadside ditch.
	Utility notes specific to fully-controlled access highways ONLY:  All work necessary within the right-of-way shall be performed behind a temporary fence erected prior to the start of work. The temporary woven wire fence shall be removed immediately upon completion of work on the right-of-way, and the control of access immediately restored to original condition, in accordance with applicable KYTC SSRBC. All vents, valves, manholes, etc., shall be located outside of the right-of-way. Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints. The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep. Work in interstate right-of-way requires approval from FHWA (Federal Highway Administration).
	Additional notes:
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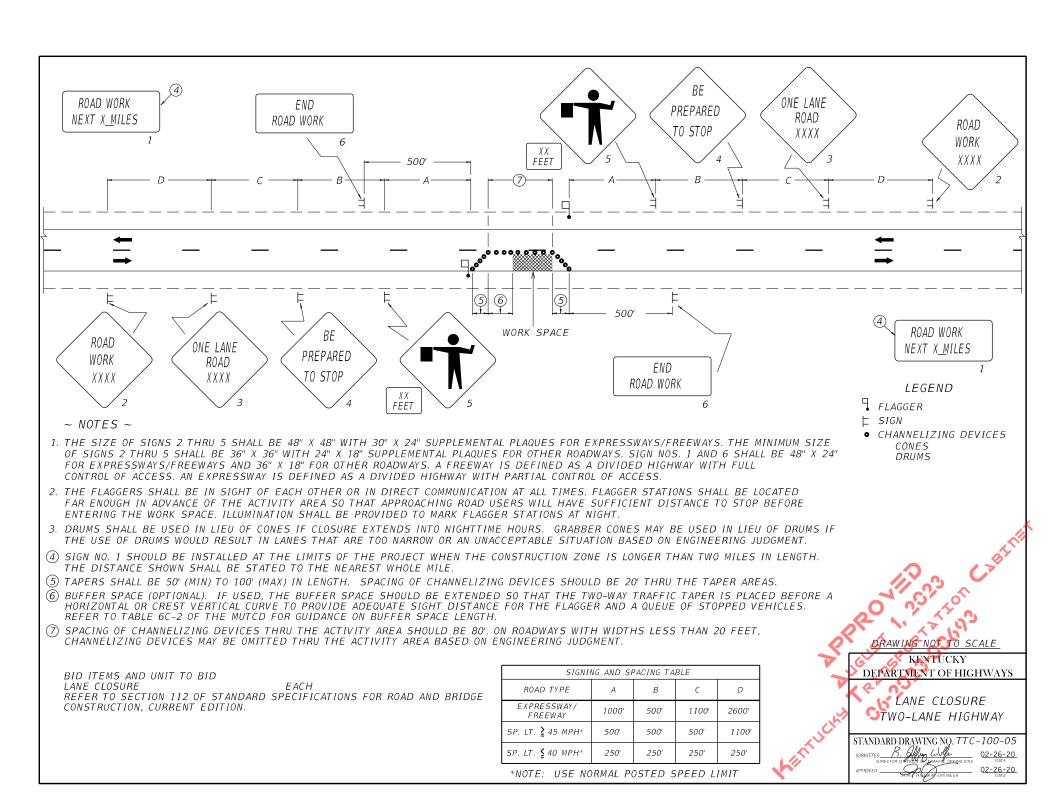
Additional notes:

-en	MIC NO. 100-2020-00033 01/2023 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:
	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.
$\checkmark$	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.
$\checkmark$	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:

Permit No. <u>T06-2023-00693</u> TC 99	
IX. 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 proent encroachment.	tect against
The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-wa	ay 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 tionality and state of repair. All work on the fencing shall be performed by access from the private process from the roadway is not allowed.	
The existing fence shall be removed by permittee and stored at the Department's maintenance stora future reuse by the Department, or the Department shall be reimbursed the cost of fencing removed.	
Right of way monuments shall be installed regardless of if replacement fence is installed or not.	
The control of access shall not be diminished as a result of replacement of the fence.	
Additional notes:	
X. MISCELLANEOUS NOTES	

## NOTICE TO PERMITTEE

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



### NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

#### **PERMITTEE**

Name: Northern Kentucky Water District

Contact Person:

Address: 2835 Crescent Springs Road

City: Erlanger State: Kentucky Zip: 41018 Telephone:

### PROJECT IDENTIFICATION

Permit Number: 06-2023-00812

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
Install 8" ductile iron water main in ditchline north of KY 1566.	Campbell - KY 8	38.973540	-84.303475
Install 8" ductile iron water main in ditchline north of KY 1566.	Campbell - KY 1566	38.960764	-84.324409

8.960764 -84.324409 -87.000 -84.324409 -87.000



Andy Beshear Governor

# COMMONWEALTH OF KENTUCKY TRANSPORTATION CABINET

Jim Gray Secretary

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

September 6, 2023

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

Subject: Permit #: 06-2023-00812

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



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# Kentucky Transportation Cabinet Department of Highways Division of Maintenance Permits Branch

#### **ENCROACHMENT PERMIT**

KYTC KEPT #: 06-2023-00812		
Permittee:	Northern Kentucky Water District	
Permit Type / Subtype:	Utilities / Water	
Work Completion Date:	8/30/2024	
	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	9/6/2023
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
Install 8" ductile iron water main in ditchline north of KY 1566.	Campbell - KY 8	38.973540	-84.303475
Install 8" ductile iron water main in ditchline north of KY 1566.	Campbell - KY 1566	38.960764	-84.324409



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 #:T06-2023-00812				
SECTION 1: APPLICANT CONTACT	INFORMATION			
APPLICANT	ADDRESS			
Northern Kentucky Water District	2835 Crescent Spi	rings Pike		
EMAIL	CITY		STATE	ZIP
	Erlanger		KY	41018
CONTACT NAME 1	EMAIL		<b>PHONE #</b> 859-426	-2713
Kyle Ryan, PE	KRyan@nkywater	.org	CELL#	
CONTACT NAME 2 (if applicable)	EMAIL		PHONE # 859-392	-3673
Matt Bogen, PE	mbogen@cardina	lengineering.net	CELL#	
SECTION 2: PROPOSED WORK LOC	CATION			
ADDRESS	CITY		STATE	ZIP
Washington Trace to KY 8	Unincorporated		Kentucky	41001
COUNTY	ROUTE #	MILE POINT	LONGITUDE (X)	LATITUDE (Y)
Campbell	KY 1566	0.33-1.81	-84.324402	38.960799
ADDITIONAL LOCATION INFORMATIO	N:			
	FOR KYT	C USE ONLY		
PERMIT TYPE: Air Right Entr	ance X Utilities	☐ Vegetation Rer	noval	
ACCESS: Full Part	ial 🔀 by Permi	t <b>LOCATION</b> :	✓ Left ☐ Right	Crossing
SECTION 3: GENERAL DESCRIPTIO	N OF WORK			
Install 8" ductile iron water main in ditchline north of KY 1566. No open cut of roadway will be required.				
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.  Stave Browing SIGNATURE  DATE:  DATE:				
This is not a permit unless and unt shall become void if not approved l	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.			



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### **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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	APPLICATION FOR ENCROACHIVIENT PERIVIT	
10.	The requested encroachment shall not infringe on the frontage rights of an abutting owner without their written consent as hereinafter described. Each abutting owner shall express their consent, which shall be binding on their successors and assigns, by the submission of a notarized statement as follows, "I (we), , hereby consent to the granting of the permit requested by the	
	applicant along Route, which permit does affect frontage rights along my (our) adjacent	
	real property." By signature(s), subscribed	
	and sworn by, on this date	
11.	The permit, if approved, is subject to the agreement that it shall not interfere with any similar rights or permit(s) previously granted to any other party, except as otherwise provided by law.	
12.	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, <b>shall defend, protect, indemnify and save harmless</b> the Department from any and all liability claims and demands arising out	

- of the work, encroachment, maintenance, or other undertaking by the permittee, its successors and assigns, related or undertaken pursuant to the granted permit, due to any claimed act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party nor operate to enlarge any liability of the Department beyond that existing at common law or otherwise if this right to indemnity did not exist.
- 14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.
- 15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.
- 16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the 🎺 expense of the permittee, except where the Department is required by law to pay any or all of those costs.



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### 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.

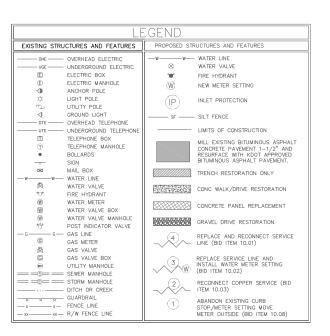
Northern Kentucky Water District		
UTILITY		
Steve Broering	Engineering Technician	
NAME (Utility Representative)	TITLE (Utility Representative)	
Steve Browning	8-18-2023	
SIGNATURE (Utility Representative)	DATE	20 e3 (2)

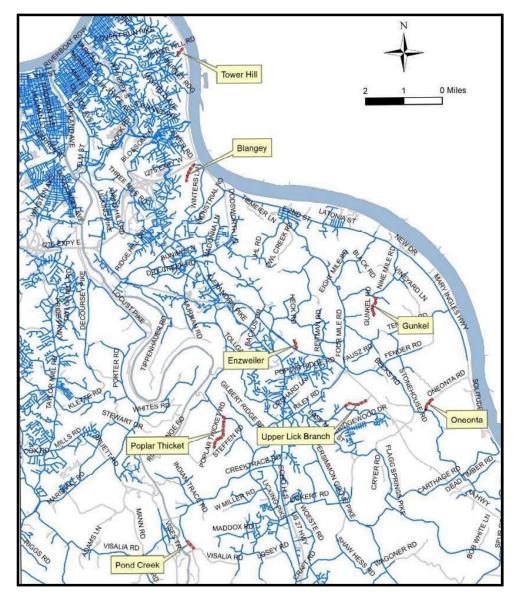


To Submit a Locate Request 24 Hours a Day, Seven Days a Week: Call 811 or 800-752-6007

# SUBDISTRICT HB WATER MAIN EXTENSION PROJECT

CAMPBELL COUNTY, KENTUCKY





## **VICINITY MAP**

SCALE: 1" = 6000'

## BENCHMARK INFORMATION

BASIS OF BEARINGS: BEARING SYSTEM BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, NORTH ZONE (NAD 83) PERFORMED BY CARDINAL ENGINEERING CORPORATION IN MARCH, 2020.

SOURCE OF ELEVATION: VERTICAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1988, PER GPS OBSERVATIONS UTILIZING KENTUCKY CORS VIRTUAL REFERENCE STATIONING (NAVD 88)

SITE BENCH MARK:

## SHEET INDEX

<b>C</b> -000	TITLE/VICINITY MAP
C-100	SPECIFICATION SHEET
<b>C-24</b> 0-241	D <b>ETAIL SHEETS</b>
<b>C-5</b> 01-503	TOWER HILL ROAD <b>PLAN AND PROFILE SHEETS</b>
<b>C-5</b> 04-509	BLANGEY ROAD <b>PLAN AND PROFILE SHEETS</b>
<b>C-5</b> 10-512	ENZWEILER ROAD <b>PLAN AND PROFILE SHEETS</b>
<b>C-5</b> 13-518	GUNKEL ROAD <b>PLAN AND PROFILE SHEETS</b>
<b>C-5</b> 19-534	ONEONTA ROAD (KY 1566) <b>PLAN AND PROFILE SHEETS</b>
C-535-542	UPPER LICK BRANCH PLAN AND PROFILE SHEETS
C-543-546	POND CREEK ROAD (KY 1936) <b>PLAN AND PROFILE SHEETS</b>
C-547-557	POPLAR THICKET ROAD <b>PLAN AND PROFILE SHEETS</b>
1	

## **CONTACTS**

#### **PUBLIC WORKS:**

(TOWER HILL ROAD)
TIM MATTINGLY
CITY OF FORT THOMAS
130 N FORT THOMAS AVENUE
FORT THOMAS, KENTUCKY 41075
(859) 441–1055

#### **ROAD DEPARTMENTS:**

(BLANGEY ROAD, GUNKEL ROAD, UPPER LICK BRANCH, ENZWEILER ROAD, POPLAR THICKETT ROAD)

LUKE MANTLE
CAMPBELL COUNTY ROAD DEPARTMENT
1175 RACE TRACK ROAD
ALEXANDRIA, KENTUCKY 41001
(859)-635-9100

(KY 8, KY 1566, KY 9, KY 915, KY 1936)

LINZY BREFELD KENTUCKY TRANSPORTATION CABINET DISTRICT 6 421 BUTTERMILK PIKE CRESCENT SPRINGS, KENTUCKY 41017 (502)-564-6014

WATER: NORTHERN KENTUCKY WATER DISTRICT 2835 CRESCENT SPRINGS ROAD P.O. BOX 18640 ERLANGER, KY 41018 (859) 578-9898

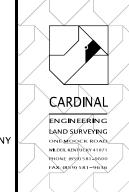
SEWER: SANITATION DISTRICT NO.1 1045 EATON DRIVE FORT WRIGHT, KENTUCKY 41011 (859) 578-7450

ELECTRIC: DUKE ENERGY 1262 COX ROAD ERLANGER, KENTUCKY 41018 (513) 287–3589 GAS: DUKE ENERGY 1262 COX ROAD ERLANGER, KENTUCKY 41018 (859) 287–5408

TELEPHONE: CINCINNATIBELL TELEPHONE COMPANY 201 EAST FOURTH STREET 103–1175 CINCINNATI, OHIO 45202 (513) 566–7185

CABLE TELEVISION: INSIGHT COMMUNICATIONS 7906 DIXIE HIGHWAY FLORENCE, KENTUCKY 41076 (888) 735–0300

OTHER UTILITIES: UNITED UTILITIES PROTECTION (800) 752–6007



WEBSITE: http://www.cardinalengineering.ne

VATER DISTRICT
RINGS ROAD
640

NORTHERN KENTUCKY WAT 2835 CRESCENT SPRING

JOB LOG
DATE ITEM

06-02-23 TO NKWO-CSI-OTTE-K&V

09-01-23 TO NKWO, CSI, OTTE FINAL RE

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DERGROUND UTILITIES ARE SHOWN BA:
ABOVE GROUND OBSERVATIONS AND
NSTRUCTION PLANS PROUBED TO
RDINAL ENGINEERING AND MAY NOT B
MPLETE OR ACCURATE.

CHECKED BY:
KGH
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KGH
PROJECT NO. 23-001
SCALE
AS NOTED
DATE
01-11-23
TITLE-VICINITY

OR ACCURATE.

OR TO VERIFY LOCATION AND USE WHEN EXCAVATING IN AREAS OF

#### OSHA NOTES

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): IT SHALL BE THE FULL AND COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO MEET AND COMPLY WITH SAFETY REQUIREMENTS AND REGULATIONS AS ESTABLISHED BY OSHA OR ANY OTHER REQULATIONS BOY. THE OWNER AND ENGINEER WILL NOT PERFORM ANY SAFETY COMPLIANCE IN SPECTIONS, AS THE CONTRACTOR HAS ACCEPTED FULL AND COMPLETE RESPONSIBILITY FOR PERFORMING SUCH INSPECTIONS FOR COMPLIANCE TO THE REGULATIONS. THE CONTRACTOR SHALL INDEMNIFY AND PROTECT AND HOLD HARMLESS THE OWNER AND ENGINEER FROM AN' LOSS EXPENSE FINE DAMAGE OR SUIT INCLUDING ATTORNEY'S FEES ARISING OUT OF ANY SAFETY VIOLATION SUITS BROUGHT BY INJURED PERSONS AND/OR FINES LEVIED BY OSHA OR ANY OTHER REGULATORY BODY, AS A RESULT OF THE CONTRACTOR'S WORK.

#### GENERAL NOTES

- CONTRACTOR SHALL NOTIFY KENTUCKY UTILITIES PROTECTION SERVICE AND ALL ENTITIES NOT COVERED BY UTILITY PROTECTION SERVICE AT LEAST (2) DAYS PRIOR TO THE START OF CONSTRUCTION OR ANY
- WATER SERVICE VALVES TO BE LOCATED AND INSTALLED AS DIRECTED BY THE NORTHERN KENTUCKY WATER
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE, AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH SANITATION DISTRICT NO. 1'S BEST MANAGEMENT PRACTICES.
- CLSM (CONTROLLED LOW STRENGTH MORTAR) SHALL BE PER KYTC SPECIFICATION 601.03.03.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR PERMITS, LICENSES, FEES & TAXES AND PAY ALL
- CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH OWNER. PROVIDE BARRICADES, LIGHTING, SIGNS & MARKERS AS REQUIRED TO PROTECT VEHICULAR & PEDESTRIAN TRAFFIC. MAINTAIN FACILITY SECURITY AS
- BOUNDARY INFORMATION BASED ON DEEDS AND PLATS OF RECORD AND DOES NOT REFLECT A BOUNDARY
- TOPOGRAPHIC INFORMATION BASED ON A FIELD SURVEY PERFORMED BY CARDINAL ENGINEERING CORPORATION,
- UTILITY CROSSING (VERTICAL) CONFLICTS SHALL BE RESOLVED ACCORDING TO THE FOLLOWING RULES AND HEIRARCHY: SANITARY HAS FIRST PRIORITY, STORM HAS SECOND PRIORITY, DUE TO BOTH BEING GRAVITY SYSTEMS. NO OTHER UTILITY SHALL BE INSTALLED TO CONFLICT WITH STORM AND SANITARY. ALL OTHER UTILITIES NEED TO COORDINATE CLEARANCES AND LOCATIONS WITH EACH OTHER, CITY INSPECTOR, AND PUBLIC UTILITY, WITH THE PRIORITY GIVEN TO SPECIFIC PLAN NOTES FOR INDIVIDUAL CROSSINGS. LAST PRIORITY SHALL BE BASED ON ORDER OF INSTALLATION, WITH ALL WORK ADHERING TO MINIMUM COVER AND CLEARANCES. MAINTAIN 18-INCH MINIMUM CLEARANCE TYPICAL BETWEEN ALL UTILITIES AT CROSSINGS
- DURING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING LITHLITIES AND STRUCTURES FROM DAMAGE, RECARDLESS OF WHETHER THEY ARE SHOWN ON THE PLANS. IF DAMAGE IS CAUSED, THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND/OR RESTORATION OF SAME TO THE SATISFACTION OF THE ENGINEER AND/OR NORTHERN KENTUCKY WATER DISTRICT.
- THE CONTRACTOR SHALL TAKE OVER AND ASSUME ALL RESPONSIBILITY FOR THE ENTIRE PREMISES. MAINTAIN . THE CONTRACTOR SHALL TAKE OVER AND ASSUME ALL RESPONSIBILITY FOR THE ENTIRE PREMISES, MAINTAIN ALL EXISTING PROTECTIONS, AND SHALL PROVIDE AND MAINTAIN SUITABLE TEMPORARY SIDEWALKS, FENCES, OR OTHER STRUCTURES AS MAY BE REQUIRED BY LAW SO AS NOT TO OBSTRUCT OR INTERFERE WITH TRAFFIC IN PUBLIC STREETS, ALLEYWAYS, OR PRIVATE RIGHT OF WAYS; LEAVE AN UNOBSTRUCTED WAY ALONG PUBLIC AND PRIVATE PLACES FOR TRAVELERS, TRUCKS, ETC. LEAVE AN ACCESS TO HYDRANTS, PROVIDE WALKS OVER OR AROUND OBSTRUCTIONS MADE IN A PUBLIC PLACE IN CARRYING ON THE CONTRACT, AND TO MAINTAIN FROM THE BEGINNING OF TIMULGHT THROUGHOUT THE WHOLE OF EVERY RIGHT SUFFICIENT LIGHT AND GUARDS TO PROTECT TRAVELERS FROM INJURY THEREBY. THE CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT AND MATERIAL SUPPLIED BY THE OWNER AND PLACED ON PREMISES.
- BEFORE ORDERING ANY MATERIAL OR PERFORMING ANY WORK, EACH CONTRACTORS SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR SAME. NO EXTRA CHARGE WILL BE ALLOWED OR COMPRISATION ALLOWED ON ACCOUNT OF DIFFERENCE TO ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE PLANS AND ANY DIFFERENCE WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CORRECTION BEFORE PROCEEDING WITH WORK
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF HIS OWN WORK. THE OWNER WILL PROVIDE AN ACCESSIBLE BENCHMARK ON OR NEAR THE SITE. ANY CONTRACTOR WHICH DAMAGES, DESTROYS, OR DISTURBS ANY BOUNDARY MARKER OR BENCHMARK SHALL AT HIS EXPENSE, HAVE SAID MARKER REPLACED BY A LAND SURVEYOR LICENSED TO PRACTICE IN THE COMMONWEALTH OF KENTUCKY.
- THE CONTRACTOR SHALL CAREFULLY PROTECT ALL TREES, SHRUBS, AND LAWNS FROM INJURY DURING THE COURSE OF HIS WORK AND PAY FOR ANY DAMAGE TO SAME RESULTING FROM INSUFFICIENT OR IMPROPER PROTECTION. TREES AND BUSHES SHALL ONLY BE REMOVED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL SUPPLY THE ENGINEER AND NORTHERN KENTUCKY WATER DISTRICT WITH A SET OF FIELD NOTES IN SUFFICIENT DETAIL UPON COMPLETION OF THE PROJECT FOR RECORD DRAWING PREPARATION.
- . ALL CONSTRUCTION TO CONFORM TO THE CURRENT NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS AND DETAILS. CONTRACTOR SHALL OBTAIN A COPY OF SAID STANDARD SPECIFICATIONS AND DRAWINGS FROM THE
- UTILITIES BASED ON MARKINGS PROVIDED BY KENTUCKY UTILITY PROTECTION SERVICES, UTILITY DRAWINGS AND ABOVE-GROUND EVIDENCE.
- 18. AT ANY LOCATION WHERE THE EXISTING MAIN IS CUT AND ABANDONED THE PIPE END WILL BE PROPERLY SEALED AS DIRECTED BY THE INSPECTOR.

### WATER DISTRIBUTION (FIRE AND DOMESTIC) NOTES:

#### QUALITY ASSURANCE

- REGULATORY REQUIREMENTS:
- COMPLY WITH REQUIRMENTS OF KENTUCKY PLUMBING CODE (WHERE APPLICABLE) AND NORTHERN KENTUCKY WATER DISTRICT (NKWD). INCLUDE TAPPING OF WATER MAINS AND BACKFLOW PREVENTION.
- COMPLY WITH STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR POTABLE WATER-SERVICE PIPING, INCLUDING MATERIALS, INSTALLATION, TESTING, AND DISINFECTION.
- <u>Water Services:</u> Water Service lines shall be installed without excavating highway or public street pavement. Any damage to said areas is to be repaired to the satisfaction of the APPLICABLE JURISDICTION. COSTS FOR PAVEMENT RESTORATION REQUIRED AS A RESULT OF SERVICE INSTALLATION SHALL BE INCLUDED IN ITEMS 10.01, 10.02, AND/OR 10.03
- ABANDONED VALVE BOXES: REMOVE LID AND RETURN TO NKWD. FILL VOID WITH CONCRETE. WORK IS INCIDENTAL TO WATER MAIN CONSTRUCTION
- THE WATER MAIN TRENCH EXCAVATIONS THROUGHOUT THE PROJECT MUST BE MADE IN A MANNER THAT PROVIDES FOR THE SAFETY OF WORKERS IN THE EXCAVATIONS AND PROTECTS EXISTING GROUND, PAYEMENT, STRUCTURES, AND INFRASTRUCTURE ADJACENT TO THE EXCAVATIONS FROM DAMAGE, INCLUDING BUT NOT LIMITED TO NEARBY UNDERGROUND ELECTRIC, TELEPHONE, GAS, STORM SEWERS SANITARY SEWERS AND OVERHEAD UTILITIES. THE EXCAVATIONS SHOULD BE BRACED, SHORED, SLOPED OR OTHERWISE STABILIZED IN A MANNER THAT SATISFIES ALL SAFETY CONCERNS AND ALL FEDERAL STATE AND LOCAL REQULATIONS. THE RESPONSIBILITY OF MAINTAINING SAFE WORKING CONDITIONS IN THE EXCAVATIONS AND FOR PROTECTING GROUND, STRUCTURES AND INFRASTRUCTURE ADJACENT TO THE EXCAVATIONS IS THE CONTRACTOR'S. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE EXISTING INFRASTRUCTURE DURING THE PROPOSED WATER MAIN INSTALLATION PROCESS

#### SWPP PLAN NOTES

#### PETROLEUM PRODUCTS

- ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCES OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED. EQUIPMENT FUELING AND MAINTAINCE, OIL CHANGRIG, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATEFUELY COULD SECONDARY CONTAINMENT SHALL BE PROMISED END ALL SHELD CONTAINED. AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERNEASURES (SPCC) REQUIREMENTS MAY APPLY, AN SPCC PLAN IS REQUIRED AND SHALL BE PREPARED BY THE PROVIDED BY THE CONTRACTOR IF FOR ONE SINGLE ABOVEGROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVEGROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. SOILS THAT HAVE BECOME CONTAMINATED MUST BE PROPERLY
- B. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S

FERTILIZERS USED WILL ONLY BE APPLIED IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE OF SAID FERTILIZER WILL BE COMPLETLY COVERED. THE CONTENTS OF ANY PARTIALLY USED BAGS OR CONTAINERS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC CONTAINER TO AVOID SPILLS.

A. 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.

A. BEST MANAGEMENT PRACTICES (BMPs) AS PRESENTED IN THE CURRENT SD1 BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED ON THE SITE AT ALL TIMES. A COPY OF THIS MANUAL SHALL BY ONSITE AT ALL TIMES.

A. THE CONTRACTOR IS REQUIRED TO PROVIDE TRAFFIC CONTROL FOR THE EXPORTING OF MATERIAL FROM THE SITE.

#### ELECTRIC NOTES

- 1. THE CONTRACTOR SHALL CONTACT THE COMPANY PRIOR TO EXCAVATION IN VICINITY OF ELECTRIC UNDERGROUND FACILITIES (APPROXIMATE PLAN LOCATION SHOWN) OR WHEN WORKING NEAR OVERHEAD FLECTRIC FACILITIES.
  - a. FOR FIELD INSPECTOR TO LOCATE UNDERGROUND ELECTRIC LINE IN KENTUCKY CALL "KENTUCKY UNDERGROUND PROTECTION INC." 1-800-752-6007 (AT LEAST 48 HOURS IN ADVANCE), EXCLUDING HOURS, SAT, SUN, & STATE LEGAL HOLIDAYS.
  - b. FOR NOTIFICATION OF CONSTRUCTION ACTIVITY NEAR ENERGIZED ELECTRIC FACILITIES. CALL 287-3426, OR THE ELECTRIC TECHNICIAN, IF KNOWN, THAT HAS BEEN ASSIGNED TO YOUR PROJECT AT LEAST 48 HOURS IN ADVANCE.
  - c. FOR ADDITIONAL UNDERGROUND ELECTRIC RECORD INFORMATION, CALL 287-2454.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ELECTRIC FACILITIES DURING CONSTRUCTION
- 3. ELECTRIC FACILITIES TO BE KEPT IN SERVICE AT ALL TIMES.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING EXISTING ELECTRIC FACILITIES AFFECTED BY THE
  - WHERE HIGH PRESSURE OIL FILLED PIPE TYPE CABLE INSTALLATION ARE EXPOSED OR OTHERWISE INTERFERED WITH BY THE CONTRACTOR, PROTECTION BY THE CONTRACTOR WILL BE REQUIRED AGAINST DAMAGE TO THE COATING OR SURROUNDING THERMAL SAND ENVELOPE.
  - b. WHERE CONCRETE ENCASED CONDUIT SYSTEMS OR DIRECT BURIED CARLE SYSTEMS ARE EXPOSED. OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THE SYSTEM AS NECESSARY AGAINST DAMAGE, AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
  - c. WHERE POLES OR ANCHORS THAT SUPPORT OVERHEAD ELECTRIC FACILITIES ARE EXPOSED OR OTHERWISE INTERFERED WITH. THE CONTRACTOR PROTECT THEM FROM DAMAGE AND PROVIDE TEMPORARY SUPPORT TO INSURE THE INTEGRITY OF THE SYSTEM. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY
  - d. WHERE THE DEPTH OF EXCAVATION FOR THE PROPOSED WORK IS GREATER THAN FIVE (5) FEET, THE CONTRACTOR SHALL SHEET AND SHORE THE TRENCH TO CONTINUOUSLY MAINTAIN THE SUPPORT OF ELECTRIC FACILITIES AT LOCATION WHERE THE ELECTRIC FACILITIES ARE WITHIN THE ZONE OF INFLUENCE ADJACENT TO THE EXCAVATION AS DETERMINED BY THE NATURAL ANGLE OF
  - e. ALL DAMAGE TO ELECTRIC FACILITIES AND SERVICES REQUIRING ADJUSTMENTS, RELOCATION'S AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S COST.
  - f. CONTRACTOR SHALL NOT BACKFILL EXPOSED FLECTRIC FACILITIES UNTIL THE COMPANY HAS INSPECTED ITS FACILITY OR PERFORMED ANY ADJUSTMENTS AND/OR MAINTENANCE THAT MAY BE
  - q. SHOULD CONTRACTOR DAMAGE ELECTRIC FACILITIES, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ELECTRIC TROUBLE AT 651-4182. CONTRACTOR SHALL KEEP EVERYONE CLEAR OF DAMAGED ELECTRIC FACILITIES UNTIL COMPANY PERSONNEL ARRIVE AT THE WORK SITE.

#### CAMPBELL COUNTY ROADWAY NOTES

- CONTRACTOR (PERMITTEE) SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CAMPBELL COUNTY ROAD DEPARTMENT FOR THE WATER MAIN PROJECTS ALONG BLANGEY ROAD, ENZWEILER ROAD, GUNKEL ROAD, UPPER LICK BRANCH, AND POPLAR THICKET ROAD.
- CONTRACTOR SHALL PROVIDE CAMPBELL COUNTY ROAD DEPARTMENT A PRE-CONSTRUCTION VIDEO OF THESI ROADWAYS (CONSTRUCTION CORRIDOR) PRIOR TO COMMENCEMENT OF CONSTRUCTION (REQUIRED AS PART OF
- THE CONTRACTOR SHALL NOTIFY THE CAMPBELL COUNTY ROAD DEPARTMENT THREE (3) DAYS PRIOR TO
- ANY DAMAGE TO THESE ROADS, ESPECIALLY PAVEMENT EDGES, DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR IN ACCORDANCE WITH THE GOVERNING JURISD
- CONSTRUCTION ACCESS ROADS, EXISTING PAVEMENT OR GRAVEL ROADS, AND DRIVEWAYS IF REMOVED DISTURBED, OR DAMAGED BY CONTRACTOR'S WORK SHALL BE MAINTAINED BY CONTRACTOR AND RESTORED OR REPLACED TO EXISTING OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AFTER WORK IS COMPLETE. THE COST OF THIS RESTORATION OR REPLACEMENT SHALL BE INCLUDED IN THE TOTAL COST FOR THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE.
- CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE CAMPBELL COUNTY ROAD DEPARTMENT AS PART OF THE PERMIT PROCESS.
- THE PERMITTEE SHALL CARRY ON THE WORK IN SUCH MANNER AS TO CAUSE A MINIMUM OF INTERFERENCE WITH TRAFFIC. ADEQUATE WARNING SIDNS AND DEVICES TO WARN AND GUIDE TRAFFIC AND SHALL PLACE THE SIGNS AND WARNING DEVICES PER MUTCD.
- 8. IF CAMPBELL COUNTY DEEMS IT NECESSARY TO HAVE FLAGMEN BECAUSE OF HAZARDOUS CONDITIONS CREATED BY THE PROJECT, THE PERMITTEE SHALL FURNISH FLAGMEN AT THEIR OWN EXPENSE
- 9. IN CASE OF AN EMERGENCY OCCURRING IN ANY IMPORTANT THOROUGHFARE THE PERMITTEE MUST NOTIFY THE COUNTY POLICE AND THE APPROPRIATE FIRE DEPARTMENT IMMEDIATELY.

#### EXCAVATION:

- 10. WHENEVER CULVERTS, SEMERS, MANHOLES, VALVE CHAMBERS, CATCH BASIN CONNECTIONS, MATER MAINS, GAS PIPE, ELECTRIC CONDUITS, SERVICES OR HOUSE CONNECTIONS THERETO, OR ANY TYPE OF SUBSURFACE FACILITIES ARE EXPOSED IN EXCAVATING, THE PERMITTEE SHALL, AT THEIR OWN EXPENSE, PROTECT THEM FROM
- 11 THE PERMITTEE SHALL LISE ALL NECESSARY PRECAUTIONS TO PROTECT PERSONS AND/OR PROPERTY FROM INJURY AND/OR DAMAGE. BARRICADES AND SUFFICIENT WARNING LIGHTS SHALL BE PLACED ALONG THE OPENING PER MUTCD. FLAGMEN SHALL BE PROVIDED BY THE PERMITTEE, IF NECESSARY, PER MUTCD.
- 12. EVERY PRECAUTION SHALL BE TAKEN TO SAFEGUARD THE WORK, AND TO INCONVENIENCE THE PUBLIC AS LITTLE
- 13. THE PERMITTEE SHALL CAREFULLY REMOVE THE PAVING AND BASE COURSE MATERIALS AND STORE THEM IN PILES SEPARATED FROM THE EXCAVATED FARTH, EXCAVATED MATERIAL SHALL BE PLACED SO AS NOT TO OBSTRUCT GUTTERS OR DRAINS/CATCH BASINS AND IN SUCH MANNER AS WILL CAUSE MINIMUM INCONVENIENCE TO THE PUBLIC. IF NECESSARY, TEMPORARY SILT COVERS FOR GUTTERS, DRAINS/CATCH BASINS SHALL BE NSTALLED TO INSURE STORM SYSTEM PRESERVATION. IT MAY BE NECESSARY TO HAUL PART OR ALL OF THE EXCAVATED MATERIAL FROM THE PROJECT AREA.
- 14. EXCAVATIONS SHALL BE PROPERLY SHEETED AND BRACED WHERE NECESSARY. TO PREVENT CAVING. SLIPPING. OR CRACKING OF SIDES. SHEETING AND BRACING USED TO SUPPORT THE SIDES OF THE OPENING SHALL BE CAREFULLY REMOVED AS THE BACKFILLING OF THE TRENCH PROGRESSES. IF PAVEMENT ALONG THE SIDES OF THE OPENING SI, OR BECOMES UNDERWIND AND UNSUPPORTED, THE PERMITTEE SHALL, AT THEIR OWN COST AND EXPENSE, BREAK DOWN AND REMOVE SUCH UNDERWINED PAVEMENT AND THE FOUNDATION THEREOF, AND

- 15. UTILITY ASSETS TO BE SHADED PER UTILITY OWNER SPECIFICATIONS, THEN CONTROL DENSITY FILL (CDF) USED TO FILL ENTIRE EXCAVATION TO ELEVATION THAT MEETS RESTORATION SPECIFICATION. ANY AND ALL SPOILS TO BE HAULED AWAY.
- 16. ALL SOILS MUST BE COMPACTED.

#### ASPHALT ROADS:

- 17. ALL EXCAVATIONS BEGIN WITH SAW CUT.
- 18. 36"MINIMUM COVER TO ASSET (MAIN, SERVICE, ETC.).
- 19. SHADE UTILITY ASSET PER UTILITY OWNER'S SPECIFICATION.
- 20. CONTROL DENSITY FILL (CDF) TO WITHIN NINE AND ONE HALF (9.5) INCHES OF THE ROAD SURFACE AFTER
- 21. TACK APPLIED TO ALL CUT/MILLED SURFACES.
- 22. TWO (2), FOUR (4) INCH LIFTS OF BASE ASPHALT HOT MIX, ONE FOOT FROM ALL SIDES OF SAW CUT MILLED TO A DEPTH OF ONE AND A HALF INCHES (1.5) AND ONE AND A HALF (1.5) INCHES ASPHALT SURFACE HOT MIX COMPACTED EVENLY, WITHOUT RIPPLES OR DIPS, TO MATCH ROAD SURFACE ELEVATION.
- 23 PROPER DRAINAGE RESTORED IN PROJECT AREA
- 24. ALL JOINTS SEALED.
- 25. UNDERDRAINS INSTALLED AS NEEDED. ONE FOOT BY ONE FOOT EXCAVATION ALONG PROJECT AREA, WRAPPED IN SOIL FILTER FABRIC, FOUR INCH PERFORATED PVC, BACKFILLED IN STONE (#57), CAPPED WITH SOIL, RUN TO CATCH BASIN OR DAY LIGHTED WHERE OUTFLOW WILL NOT CAUSE EROSION OR BE A NUISANCE.
- 26. SEED AND STRAW ALL DISTURBED AREAS, NETTING INSTALLED AS NEEDED.
- ANY SETTLING OR FAILURE, IN OR AROUND PROJECT AREA WILL BE REPAIRED AT UTILITIES/PERMITTEES
  EXPENSE FOR A PERIOD OF TWELVE MONTHS.
- . ANY CUT OR DAMAGED SIDEWALKS TO BE CLEANLY SAW CUT AND REPLACED AS AN ENTIRE BLOCK AND MEET CURRENT ADA SPECIFICATIONS. EXPANSION JOINTS INSTALLED AS NEEDED.
- 29. ALL SPOILS HAULED OFF FROM PROJECT AREA DAILY.

#### RESPONSIBILTY FOR DUST, DIRT, AND APPEARANCE:

30. ALL PROJECT AREAS WILL BE KEPT CLEAN, SWEPT AND/OR WASHED AS NEEDED. EVERY ACTION WILL BE TAKEN TO KEEP DEBRIS OUT OF STORM WATER SYSTEMS, INCLUDING DITCH LINES. ANY DISTURBANCES WILL BE

#### CAMPBELL COUNTY ROADWAY NOTES (continued)

- (A) IF SLAB IS CLIT FOR EXCAVATION THEN ENTIRE SLAB MUST BE REPLACED.
- 36" MINIMUM COVER TO ASSET (MAIN, SERVICE...).
  SHADE UTILITY ASSET PER UTILITY OWNER'S SPECIFICATION.
- CONTROL DENSITY FILL (CDF) TO WITHIN EIGHT (8) INCHES OF ROAD SURFACE AFTER SETTLING.
- COMPACT IN SITU MATERIAL AROUND EXCAVATION TO DEPTH OF EIGHT (8) INCHES BELOW SIAB SURFACE.
  PINNED EIGHTEEN INCH ON CENTER, EIGHTEEN INCH LENGTH, DRILLED NINE INCHES, CLEAN 5/8" REBAR.
- 4000 PSI, 8" THICK,
- PROPER DRAINAGE RESTORED IN PROJECT AREA. REPLACE CURBS AS NEEDED. ALL JOINTS SEALED.
- PROPER DRAINAGE RESTORED IN PROJECT AREA.
- BLOCKED OFF PER MUTCD FOR SUFFICIENT CURING, NO ROAD CLOSURES.
  SEED AND STRAW ALL DISTURBED AREAS, NETTING INSTALLED AS NEEDED
- UNDERDRAINS INSTALLED AS NEEDED, ONE FOOT BY ONE FOOT EXCAVATION ALONG PROJECT AREA, WRAPPED IN SOIL FILTER FABRIC, FOUR INCH PERFORATED PVC, BACKFILLED IN STONE (#57), CAPPED WITH SOIL, RUN TO CATCH BASIN OR DAY LIGHTED WHERE OUTFLOW WILL NOT CAUSE EROSION OR BE A NUISANCE. ANY SETLING OR FALLURE, IN OR AROUND PROJECT AREA WILL BE REPAIRED AT UTILITIES/PERMITTEE'S EXPENSE FOR A PERIOD OF TWELVE MONTHS.
- (0) ANY CUT OR DAMAGED SIDEWALKS TO BE CLEANLY SAW CUT AND REPLACED AS AN ENTIRE BLOCK AND MEET CURRENT ADA SPECIFICATIONS. EXPANSION JOINTS INSTALLED AS NEEDED.
- (P) ALL SPOILS HAULED OFF FROM PROJECT AREA DAILY.

#### DITCH LINE AND / OR RIGHT OF WAY:

- (A) ALL UTILITY ASSETS (MAINS, SERVICES...) TO BE BURIED NO LESS THAN 42" BELOW BOTTOM OF DITCH LINE, AND TWO FEET OFF EDGE OF ROAD SO THAT FUTURE DITCH LINE MAINTENANCE CAN PROCEED WITHOUT FEAR OF UTILITY SERVICE INTERRUPTION.
- DITCH LINE TO REMAIN OPEN THEN RESTORED WITH FLOW TOWARDS INTENDED OUTFALL DICH LINE TO REMAIN OFEN THEN RESTORED WITH FLOW TOWARDS INTENDED OTTALL.

  NEAREST SLOPE OF DITCH LINE TO BE AT LEAST TWO FEET OFF EDGE OF ROAD. ADDITIONAL EXCAVATION MAY 
  NEED TO BE TAKEN IN ORDER TO OBTAIN PROPER DITCH LINE. ALL SLOPES TO BE RESTORED AT A MINIMUM 
  OF 3-1. IF OTHERWISE INTENDED CONTACT ROAD DEPARTMENT PRIOR TO PROJECT START.
- (D) IT WILL BE UP TO UTILITY/PERMITTEE TO CONTACT PROPERTY OWNER(S) IF SCOPE OF PROJECT WILL INTERFERE
- WITH ANY PROPERTY OUTSIDE OF COUNTY MAINTAINED RIGHT OF WAY. IT WILL BE UP TO UTILITY/PERMITTEE
  TO DETERMINE PROPERTY LINES VERSUS RIGHT OF WAY.
  THIS DOCUMENT DOES NOT GIVE PERMISSION FOR UTILITY/PERMITTEE TO PERFORM WORK OUTSIDE OF RIGHT OF
- (F) ANY FENCING, GATES, MAILBOXES OR OTHER PROPERTY DISTURBED WILL BE RESPONSIBILITY OF UTILITY TO
- REPLACE IF DAMAGED (G) ANY CROSS ROAD CULVERT/ BRIDGE TO BE AVOIDED. IF CULVERT DAMAGED OR PLUGGED, UTILITY OWNER/PERMITTEE WILL HAVE TO REPLACE CULVERT WITH MATERIALS AND TECHNIQUES TO BE SPECIFIED BY
- ROAD DEPARTMENT. SAME FOR DRIVEWAY CULVERTS. IF CULVERT(S) CANNOT BE AVOIDED THEN ARRANGEMENTS WILL BE MADE PRIOR TO PROJECT FOR REPLACEMENT. DRAINAGE TO/FROM INLET AND/OR OUTLET OF CULVERTS, GUTTERS OR CATCH BASINS WILL BE RESTORED
- AND/OR IMPROVED AS A RESULT OF PROJECT. BACKFILLING TO INCLUDE PROPER MATERIAL AND MUST BE COMPACTED IN ORDER TO AVOID ANY FUTURE UNDERDRAINS INSTALLED AS NEEDED. ONE FOOT BY ONE FOOT EXCAVATION ALONG PROJECT AREA, WRAPPED
- IN SOIL FILTER FABRIC, FOUR INCH PERFORATED PVC, BACKFILLED IN STONE (#57), CAPPED WITH SOIL, RUN TO CATCH BASIN OR DAY LIGHTED WHERE OUTFLOW WILL NOT CAUSE EROSION OR BE A NUISANCE.
- SEED AND STRAW ALL DISTURBED AREAS. NETTING INSTALLED AS NEEDED.

  ANY SETTLING OR FALLURE, IN OR AROUND PROJECT AREA WILL BE REPAIRED AT UTILITIES/PERMITTEE'S EXPENSE FOR A PERIOD OF TWELVE MONTHS.

#### KYTC ROADWAY NOTES

- PAVEMENT OF STATE ROUTES SHALL NOT BE OPEN CUT UNLESS OTHERWISE NOTED ON PLANS, OR BY PRIOR AUTHORIZATION FROM KYTC.
- THE NORTHERN KENTUCKY WATER DISTRICT WILL PAY FOR AND OBTAIN ALL PERMITS FROM THE KENTUCKY TRANSPORTATION CABINET, DISTRICT 6.
- APPLICABLE ROADWAYS INCLUDE MARY INGLES HIGHWAY (KY 8), ONEONTA ROAD (KY 1566), AA HIGHWAY (KY 9), POND CREEK ROAD (KY 1936), AND LICKING PIKE (915).
- CONTRACTOR SHALL COMPLY WITH THE TERMS OF THE KENTUCKY TRANSPORTATION CABINET ENCROACHMENT
- 5. THE CONTRACTOR SHALL NOTIFY THE KENTUCKY TRANSPORTATION CABINET, DISTRICT 6 THREE (3) DAYS PRIOR ANY DAMAGE TO TO SAID ROADWAYS, ESPECIALLY PAVEMENT EDGES, DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION
- ALL PAVEMENT CUTS SHALL BE SAW CUT AND NEATLY PATCHED TO MATCH EXISTING PAVEMENT SECTION. ALL COSTS FOR SUCH PAVEMENT CUTS, PATCHING, AND OVERLAYS AS REQUIRED SHALL BE INCLUDED IN THE
- CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT AFTER CONSTRUCTION, SHALL MINIMIZE INCONVENIENCE TO TRAFFIC DURING CONSTRUCTION, AND SHALL PROVIDE SMOOTH TRANSITIONS TO EXISTING PAVEMENT. PAVING MATERIALS AND CONSTRUCTION THEREOF SHALL BE IN ACCORDANCE WITH THE KYTC STANDARD SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
- CONSTRUCTION ACCESS ROADS, EXISTING PAVEMENT OR GRAVEL ROADS, AND DRIVEWAYS IF REMOVED, DISTURBED, OR DAMAGED BY CONTRACTOR'S WORK SHALL BE MAINTAINED BY CONTRACTOR AND RESTORED OR REPLACED TO EXISTING OR BETTER THAM PRE—CONSTRUCTION CONDITIONS AFTER WORK IS COMPLETE. THE COST OF THIS RESTORATION OR REPLACEMENT SHALL BE INCLUDED IN THE TOTAL COST FOR THE PROJECT. NO
- 10. CONTRACTOR SHALL MAKE EVERY EFFORT TO PREVENT DAMAGE TO SAID ROADWAY PAVEMENTS DURING CONSTRUCTION. IF ANY DAMAGE DOES OCCUR DURING CONSTRUCTION, THE CONTRACTOR, AT HIS/HER EXI SHALL REPAIR SAID DAMAGE TO THE SATISFACTION OF THE KENTUCKY DEPARTMENT OF TRANSPORTATION DISTRICT 6.

### CITY OF FORT THOMAS ROADWAY NOTES

ADDITIONAL PAYMENT WILL BE MADE.

- APPLICABLE ROAD IS TOWER HILL ROAD.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF FORT THOMAS PUBLIC WORKS THREE (3) DAYS PRIOR TO
- ALL PAVEMENT CUTS SHALL BE SAW CUT AND NEATLY PATCHED TO MATCH EXISTING PAVEMENT SECTION. ALL COSTS FOR SUCH PAVEMENT CUTS, PATCHING, AND OVERLAYS AS REQUIRED SHALL BE INCLUDED IN THE
- CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT AFTER CONSTRUCTION, SHALL MINIMIZE INCONVENIENCE TO TRAFFIC DURING CONSTRUCTION, AND SHALL PROVIDE SMOOTH TRANSITIONS TO EXISTING PAVEMENT. PAVING MATERIALS AND CONSTRUCTION THEREOF SHALL BE IN ACCORDANCE WITH CITY OF FORT THOMAS SUBDIVISION.
- 5. CONSTRUCTION ACCESS ROADS, EXISTING PAVEMENT OR GRAVEL ROADS, AND DRIVEWAYS IF REMOVED. DISTURBED, OR DAMAGED BY CONTRACTOR'S WORK SHALL BE MAINTAINED BY CONTRACTOR AND RESTORED OR REPLACED TO EXISTING OR BETTER THAN PRE-CONSTRUCTION CONDITIONS ATTER WORK IS COMPLETE. THE COST FOR THE RESTORATION OR REPLACEMENT SHALL BE INCLUDED IN THE TOTAL COST FOR THE-RIGIDET.
- WATER MAIN IN STREET PAVEMENT OR PAVED SHOULDER SHALL BE BACKFILLED WITH LOW STRENGTH MORTAR (FLOWABLE FILL) IN ACCORDANCE WITH DETAIL ON SHEET C-240 AND HAVE AN 8-INCH FULL DEPTH ASPHALT CONCRETE PAICH REPAIR MATCHING BY SECTION CONCRETE PATCH REPAIR MATCHING EX. SECTION.

CARDINAL ENGINEERING LAND SURVEYING WILDER, KENTUCKY 41071 FAX; (\$59) 581-9636 VEBSITE: http://www.cardinalengineering

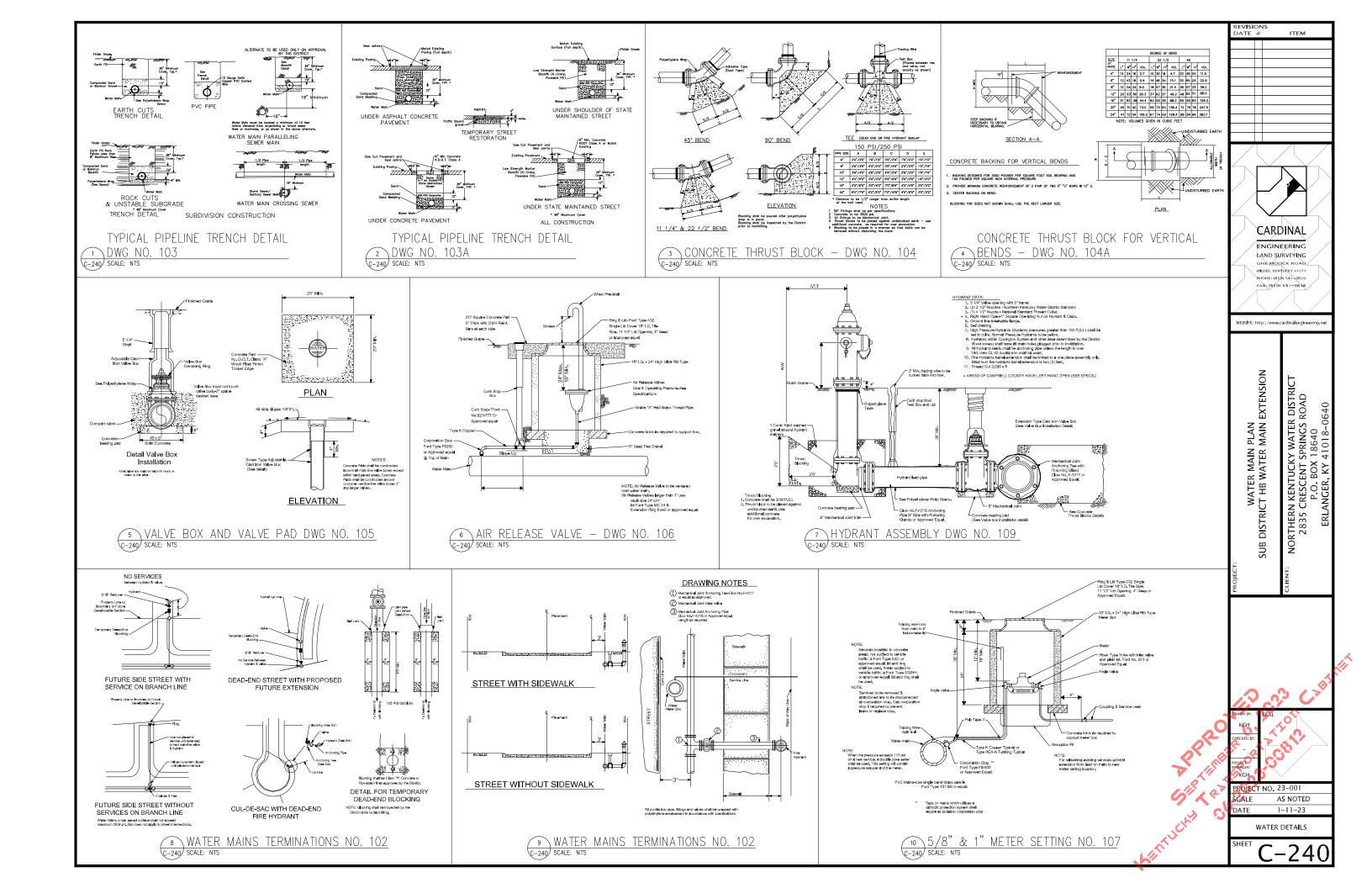
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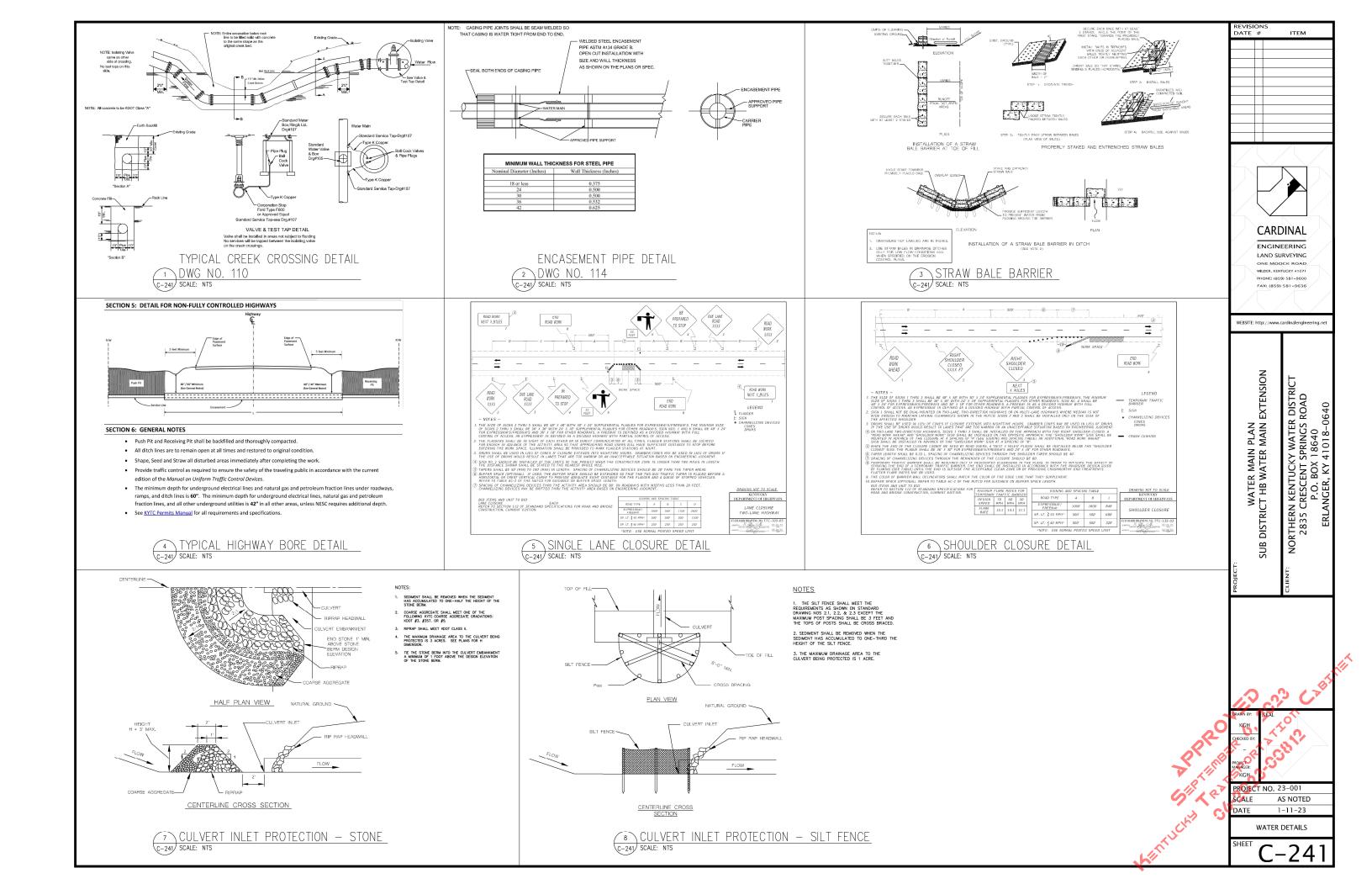
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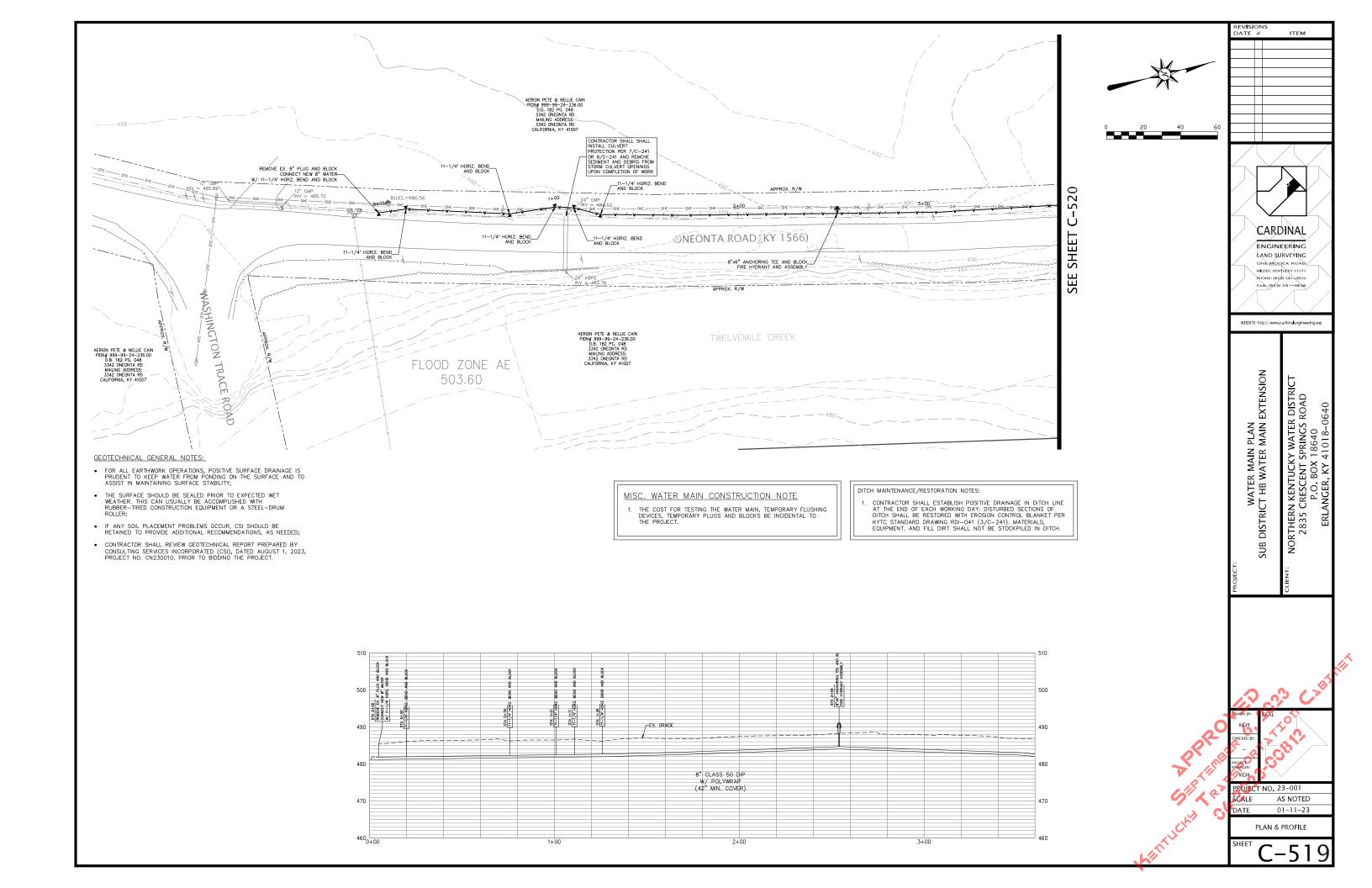
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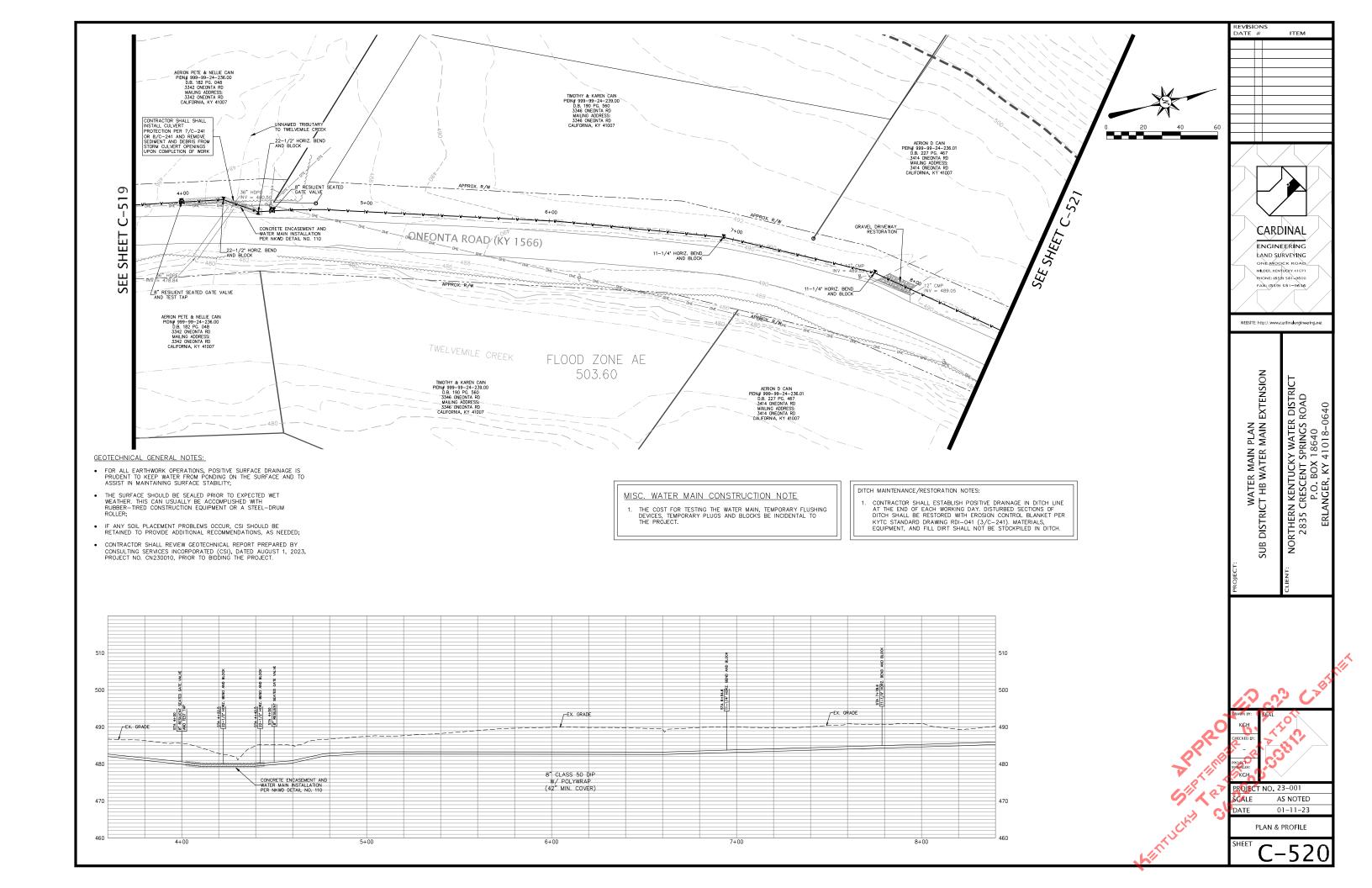
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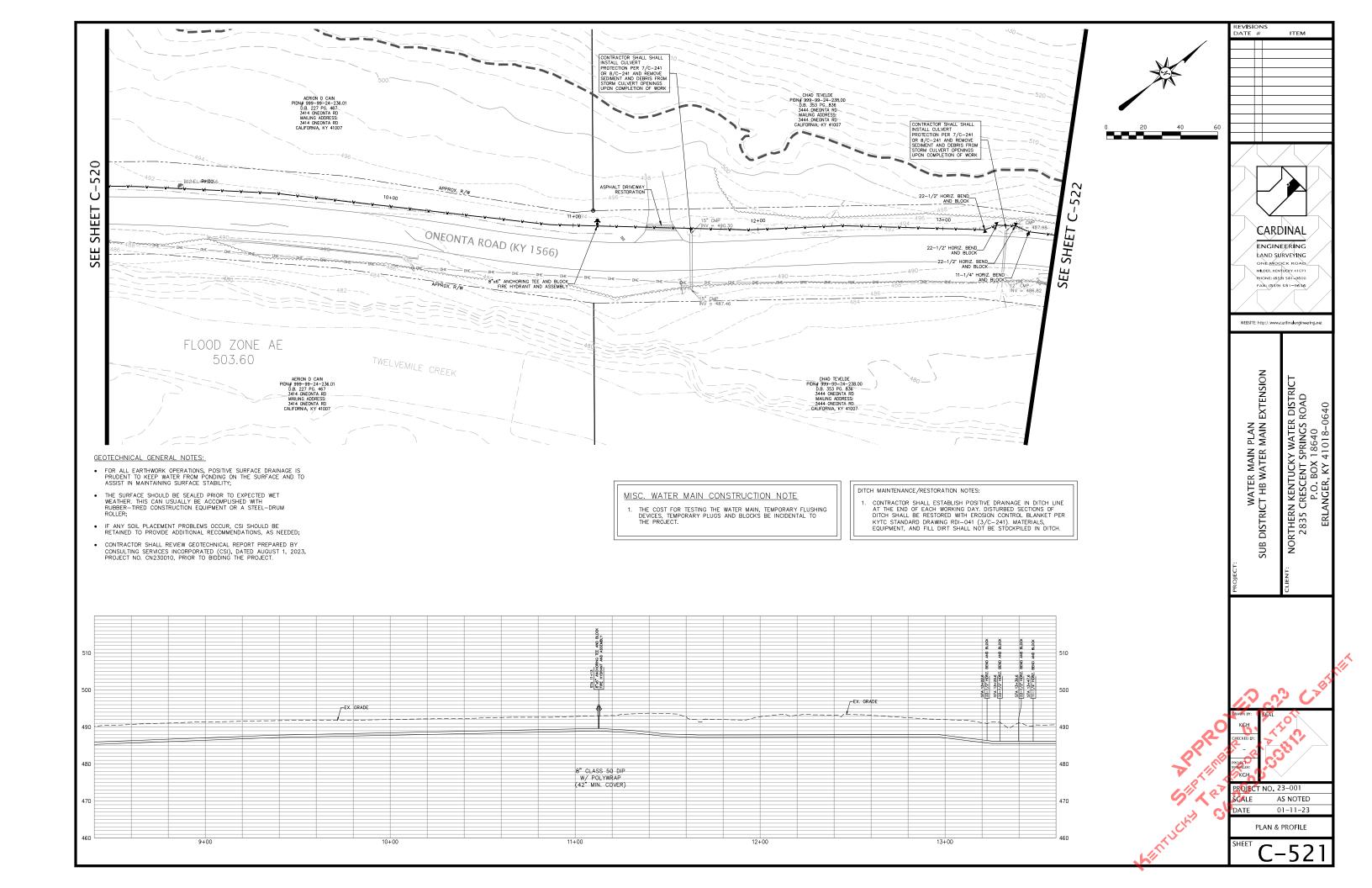
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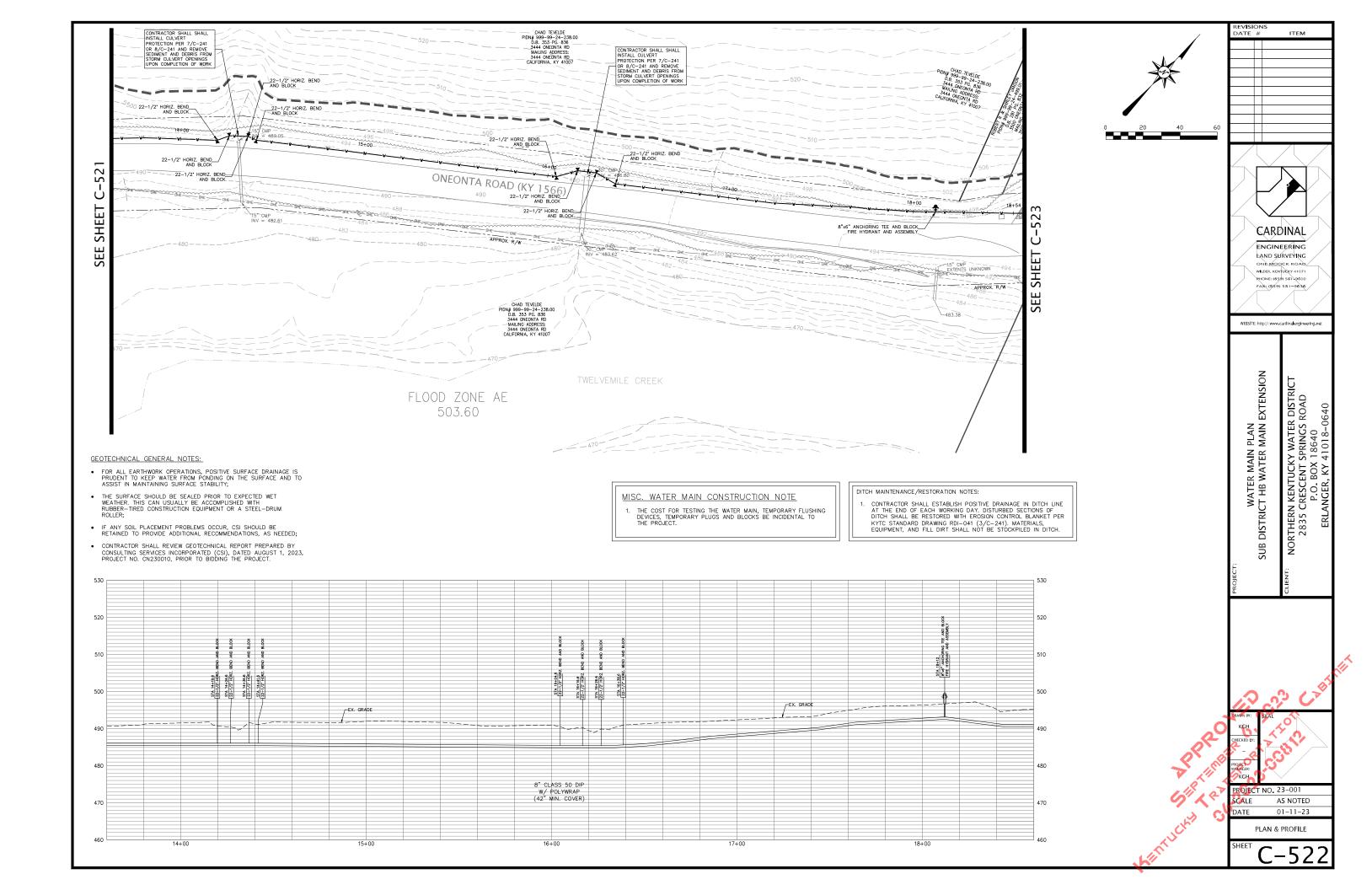


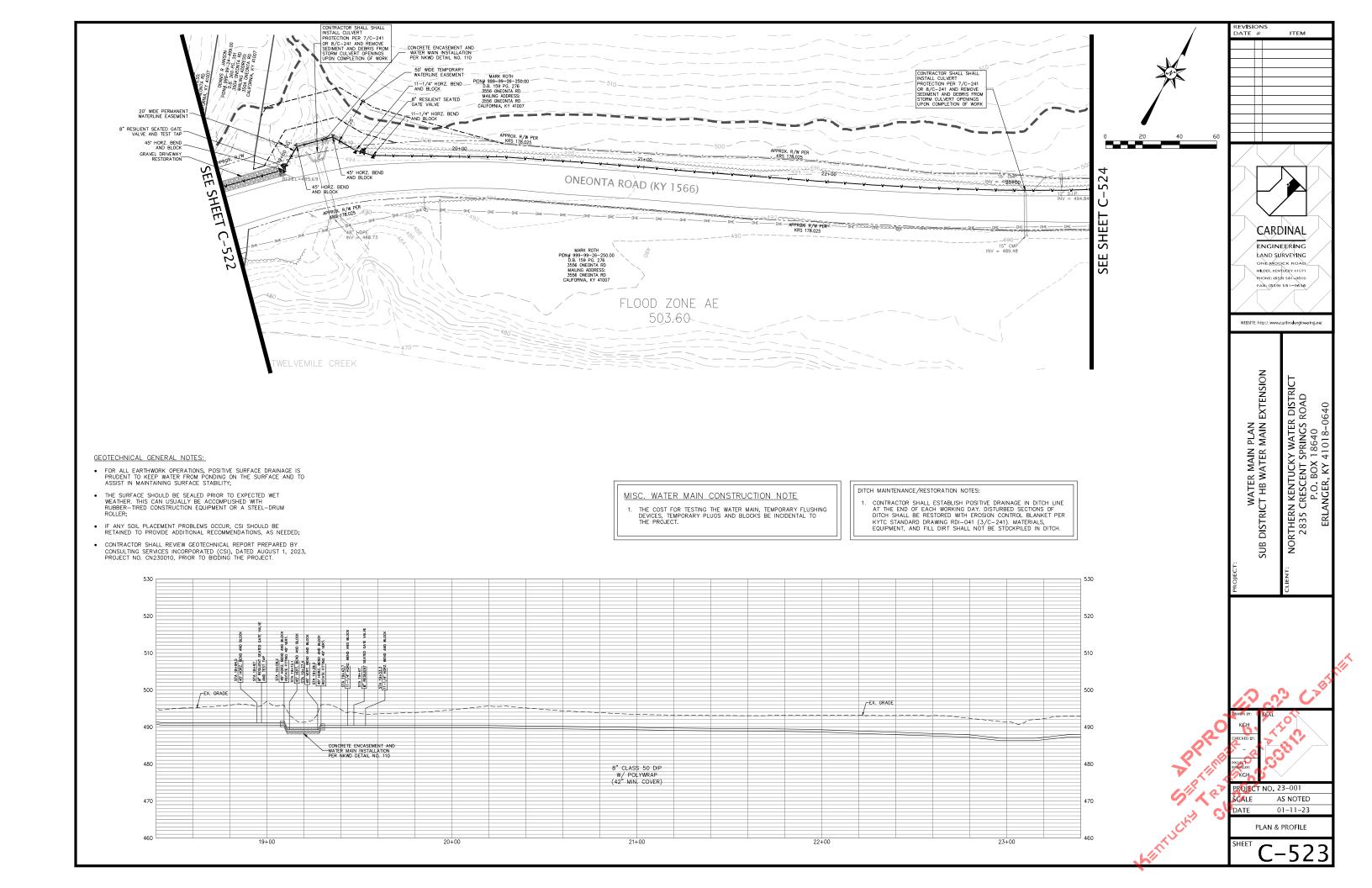


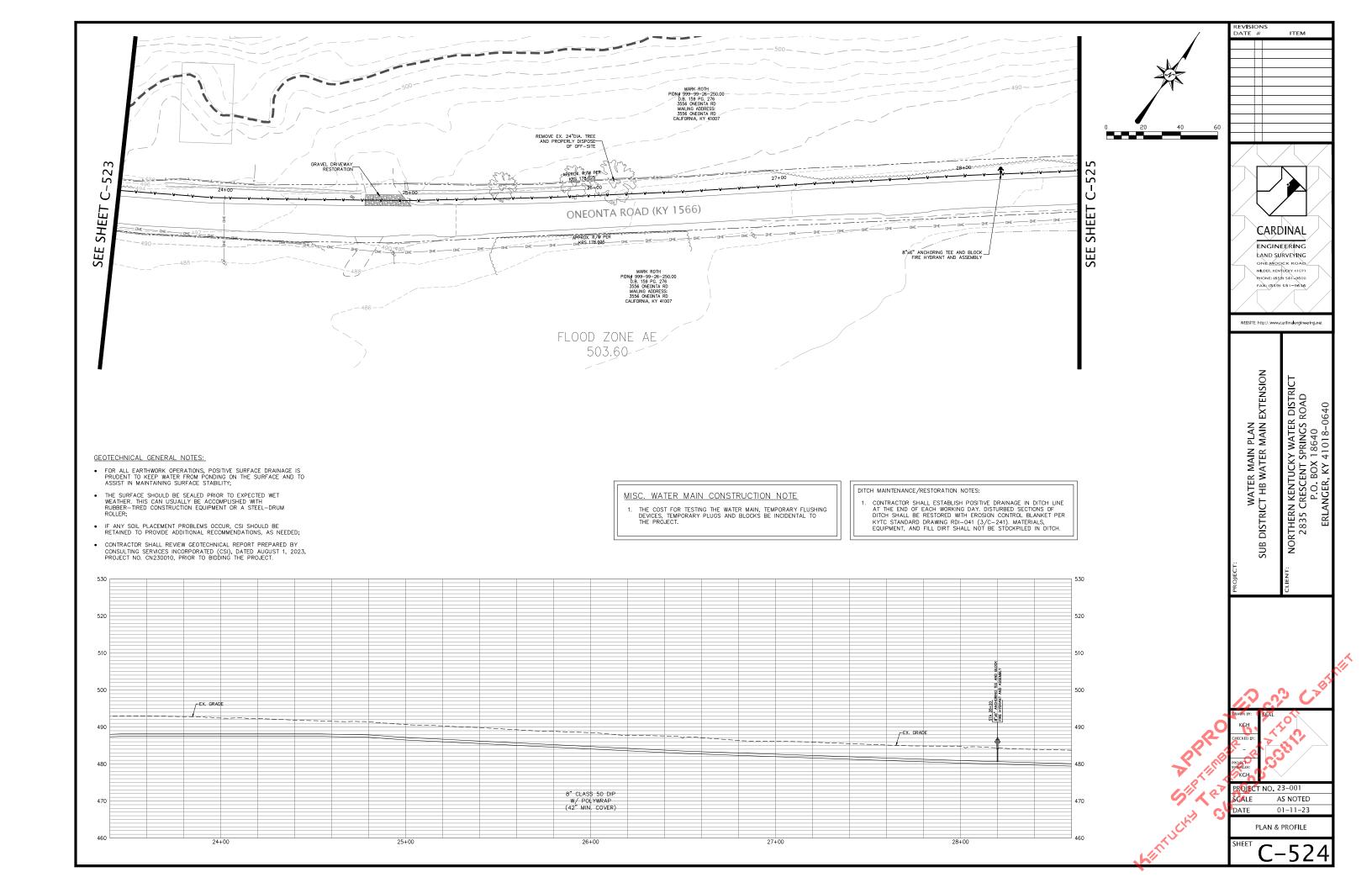


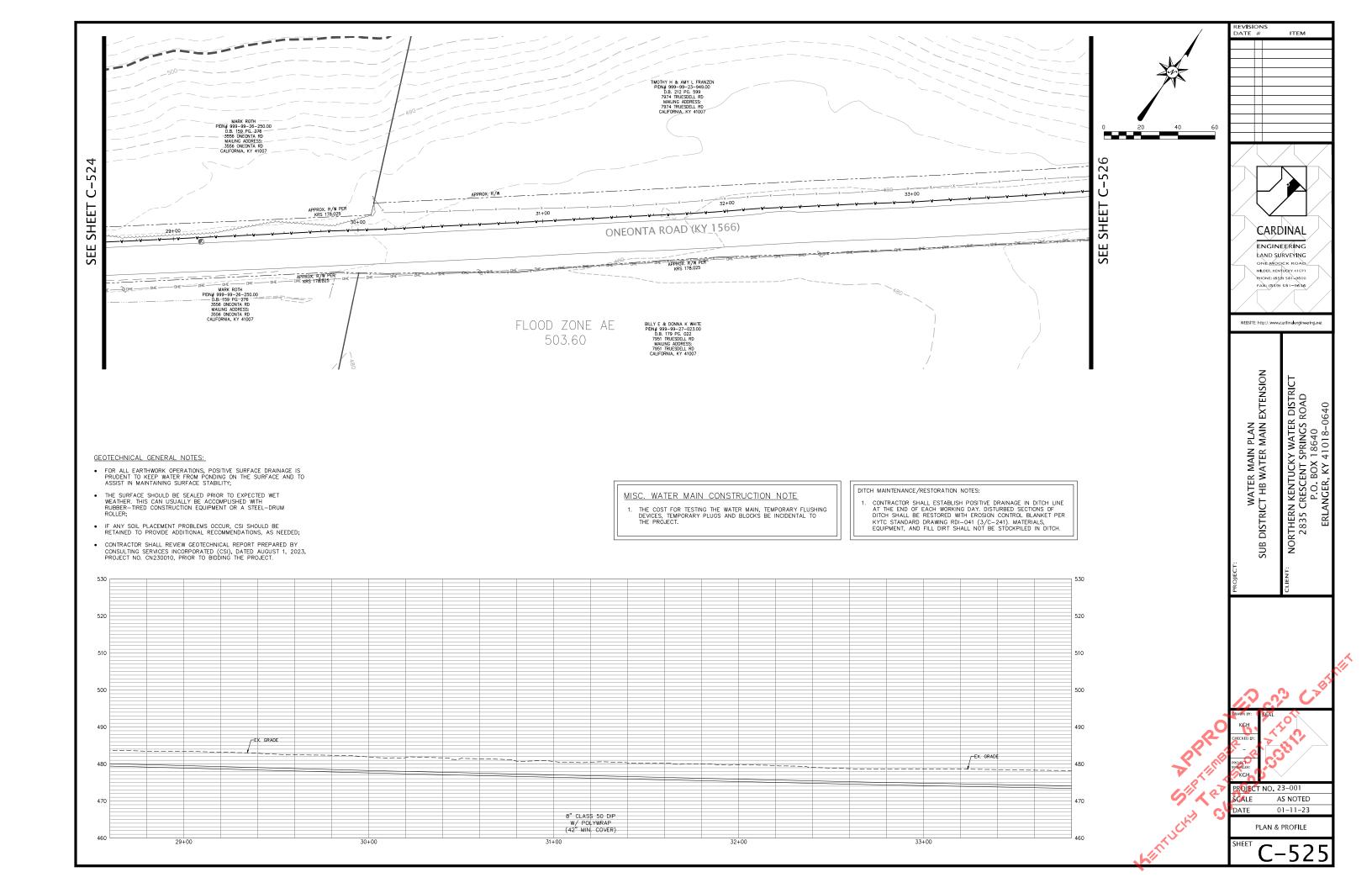


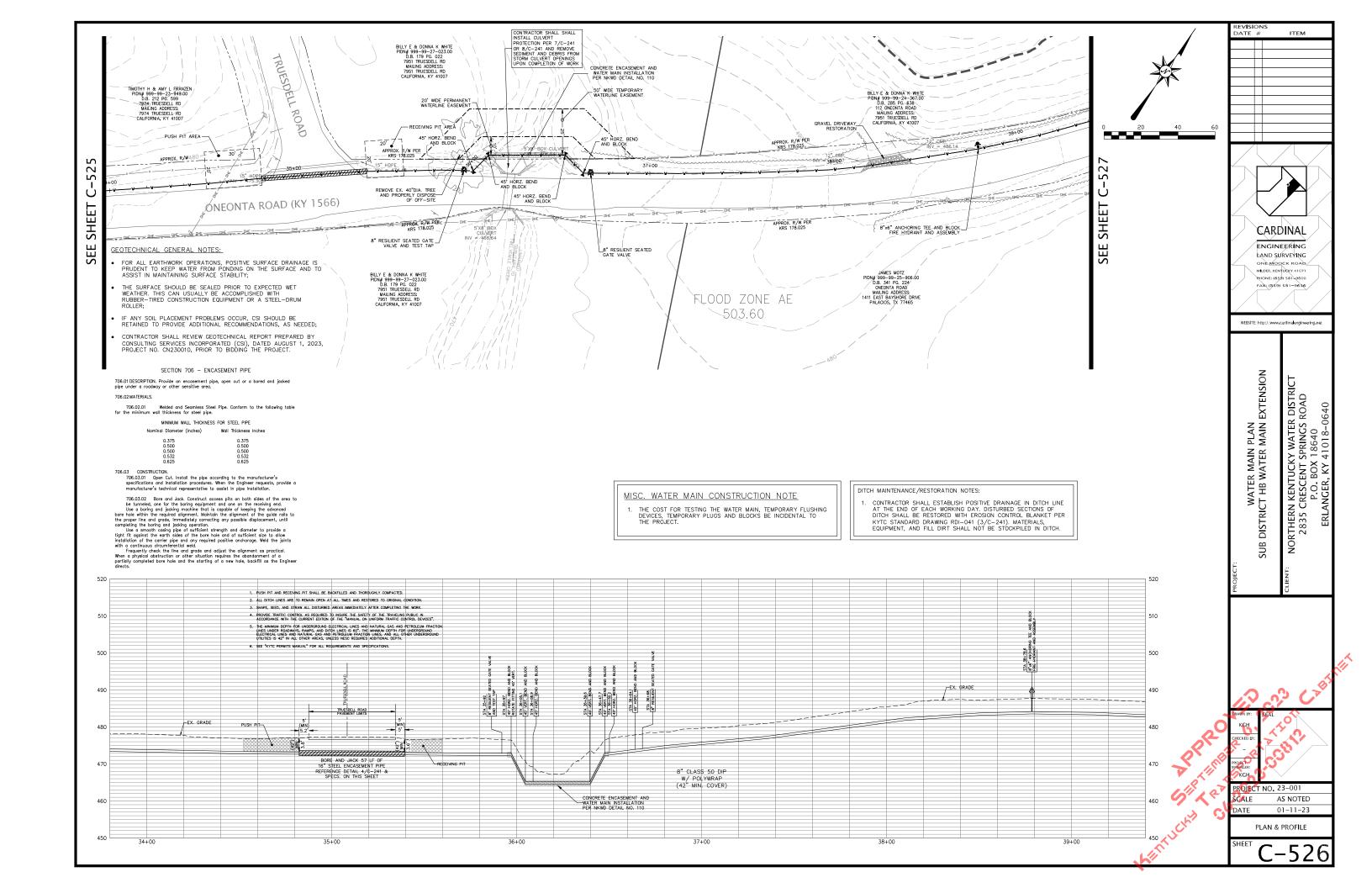


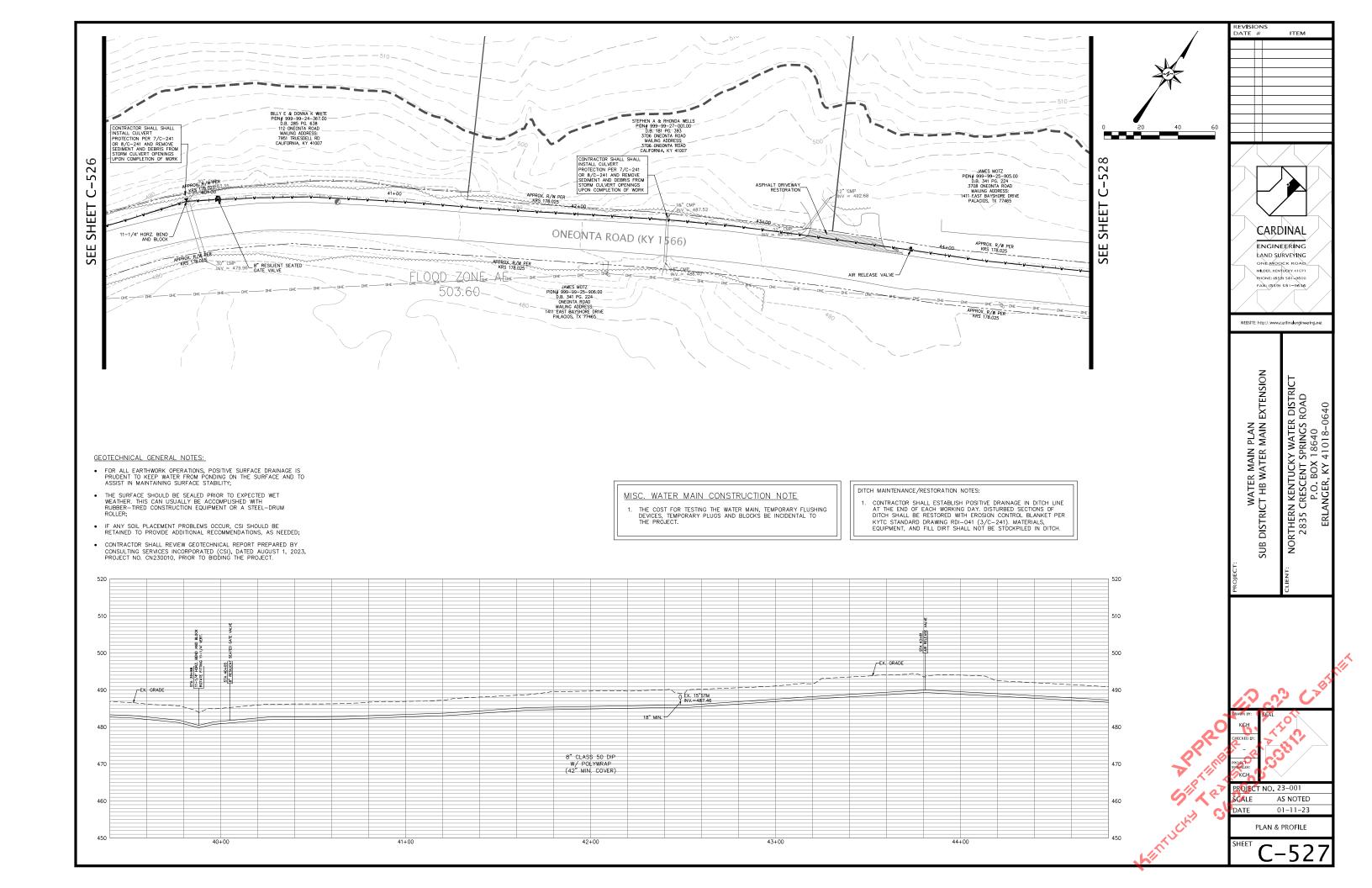


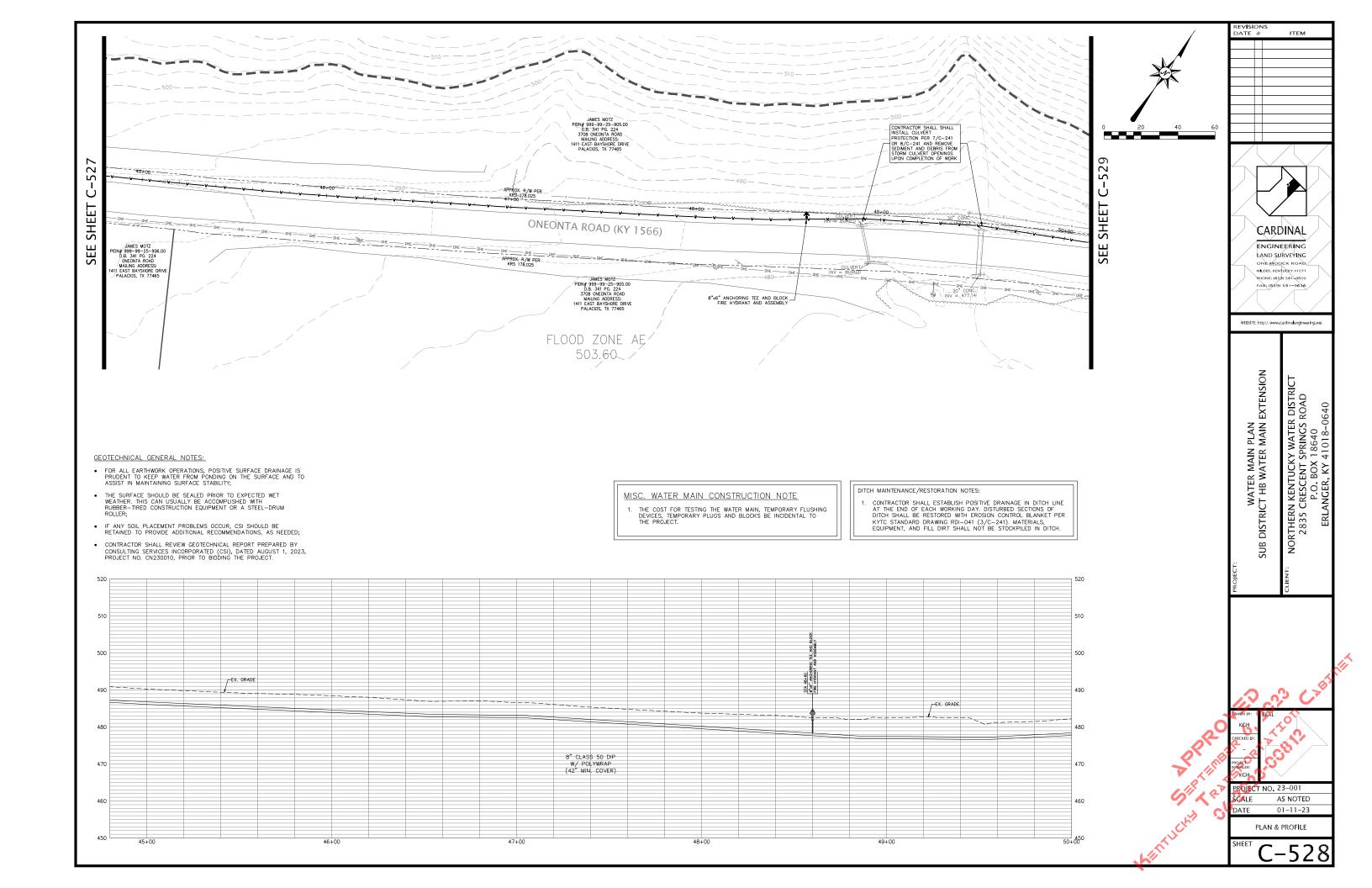


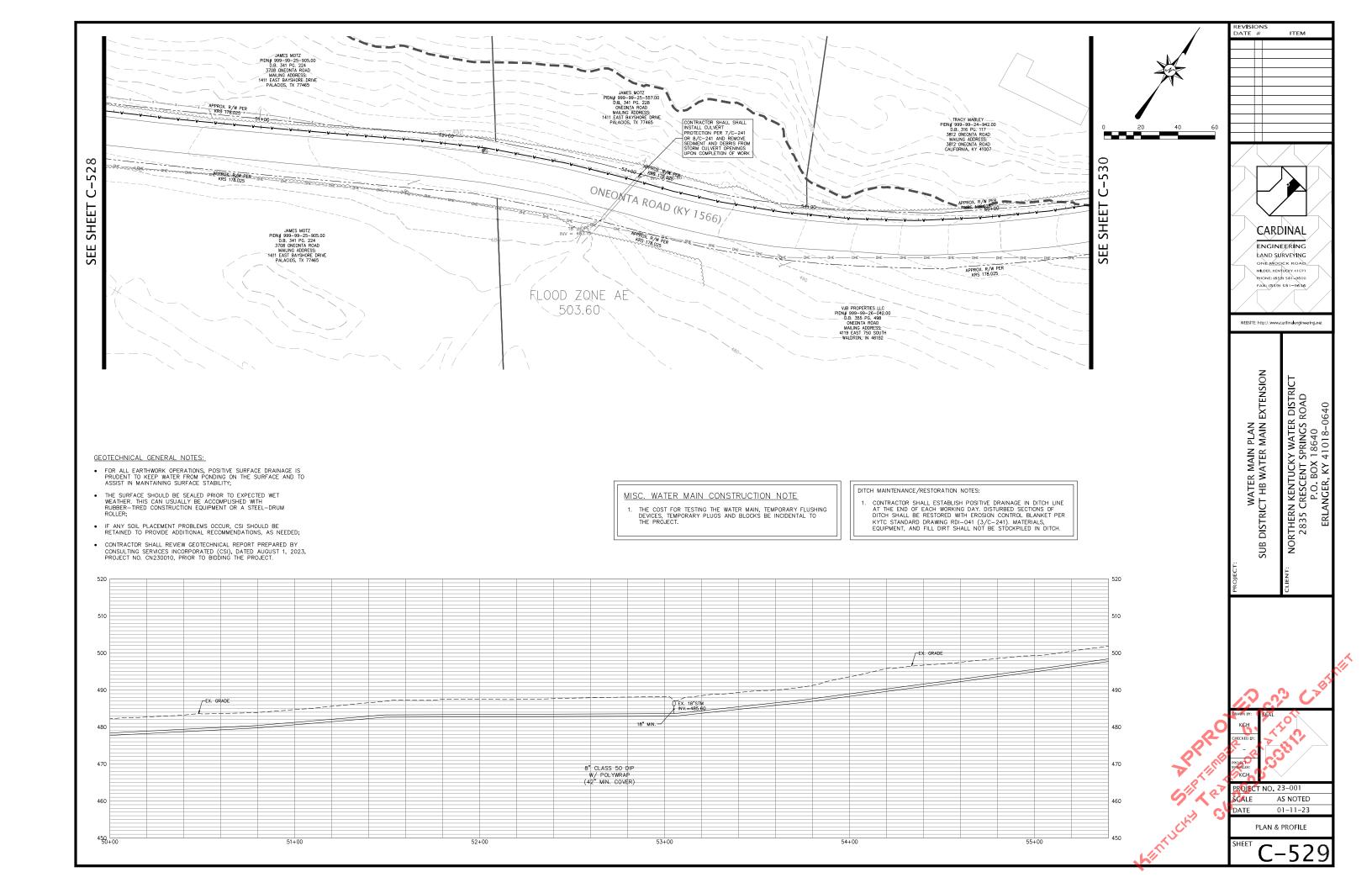


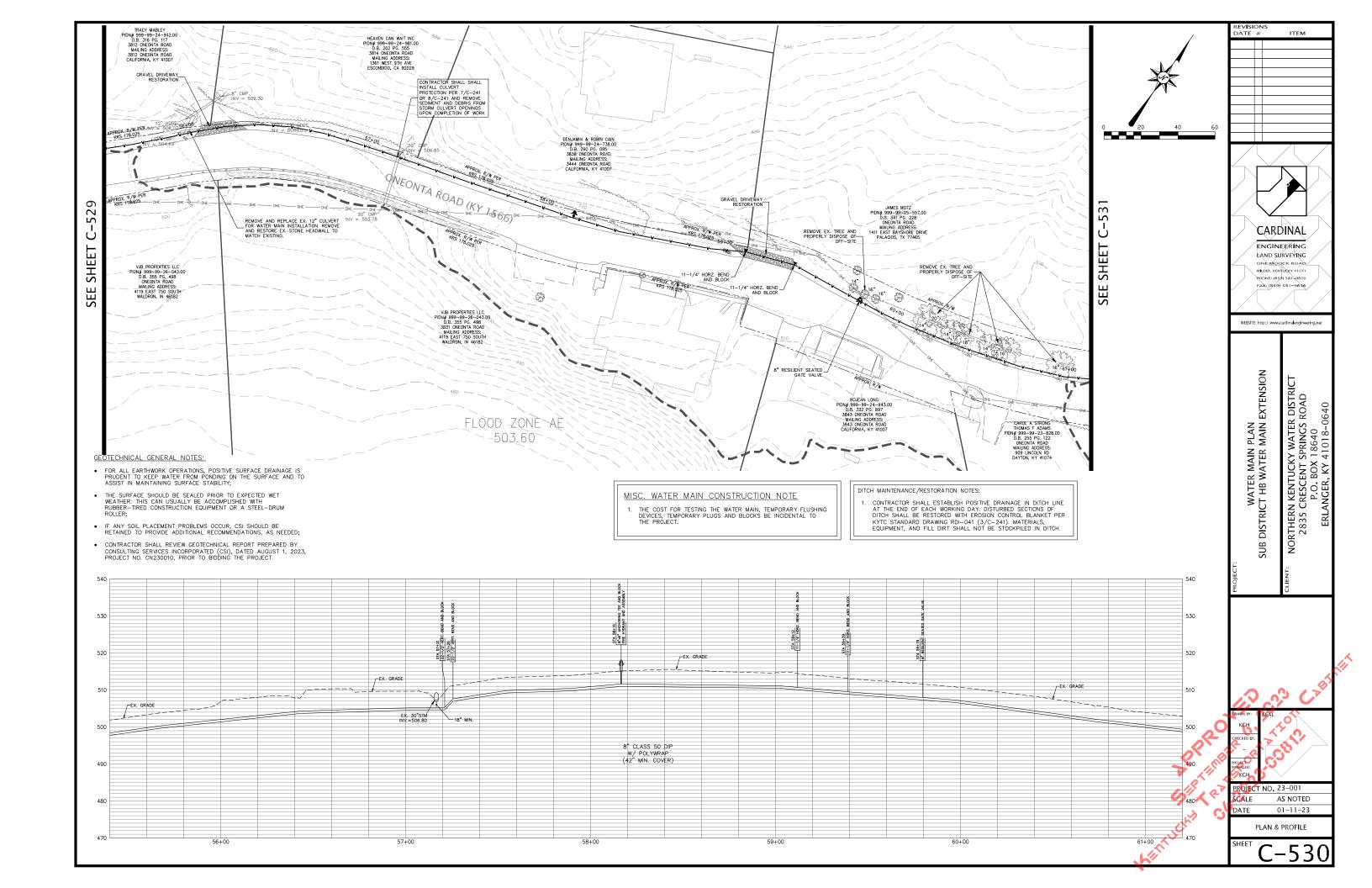


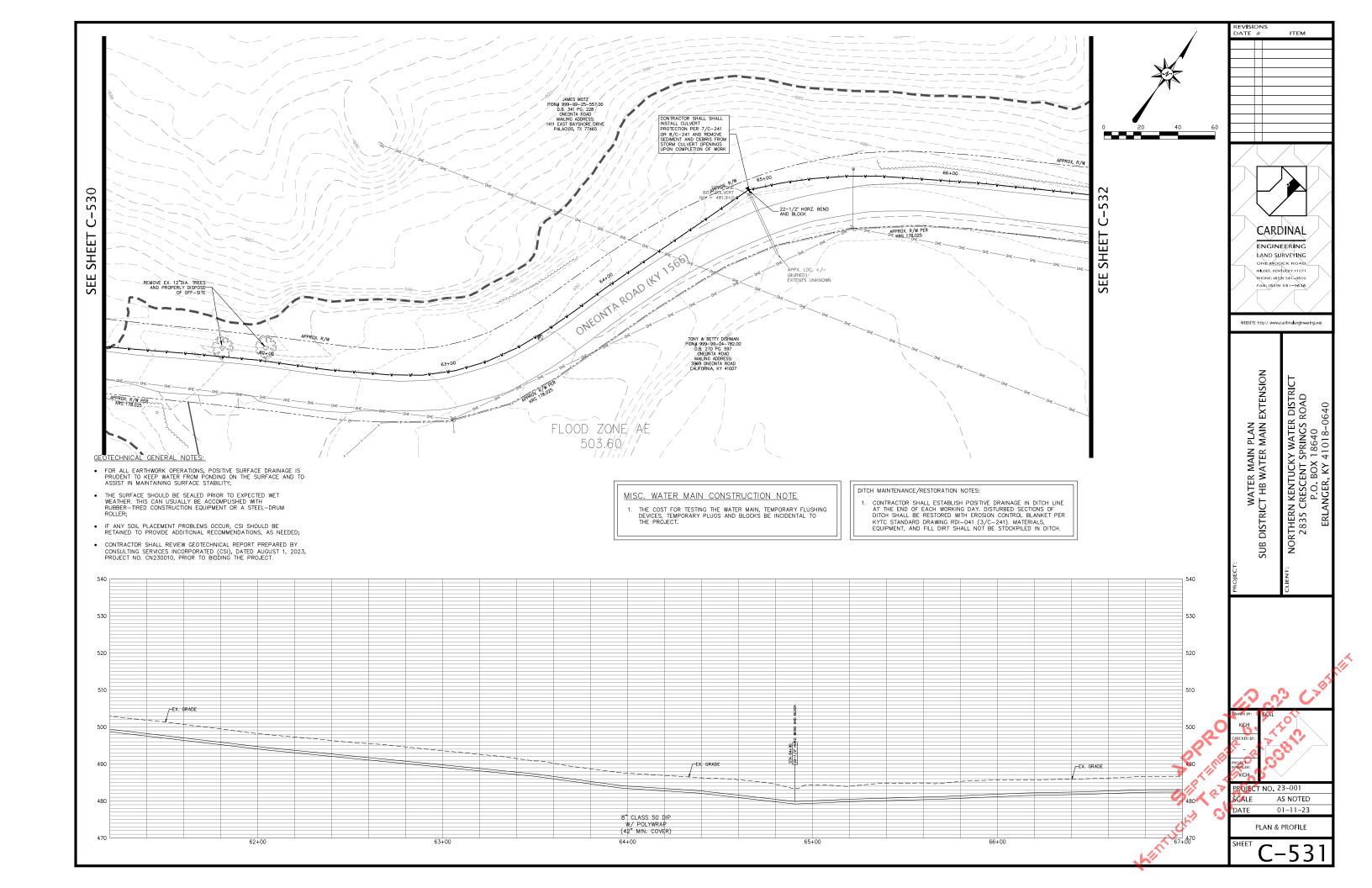


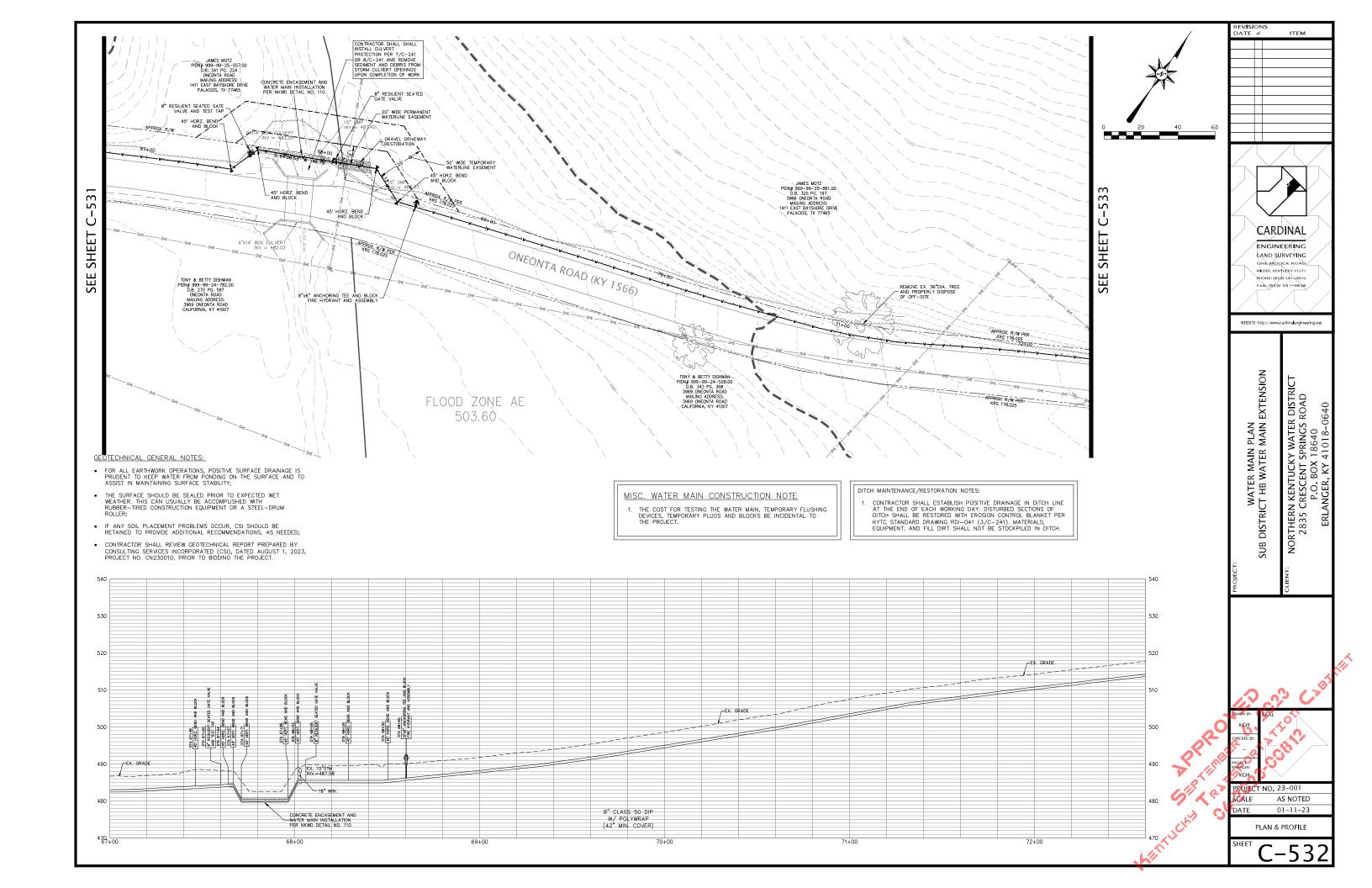


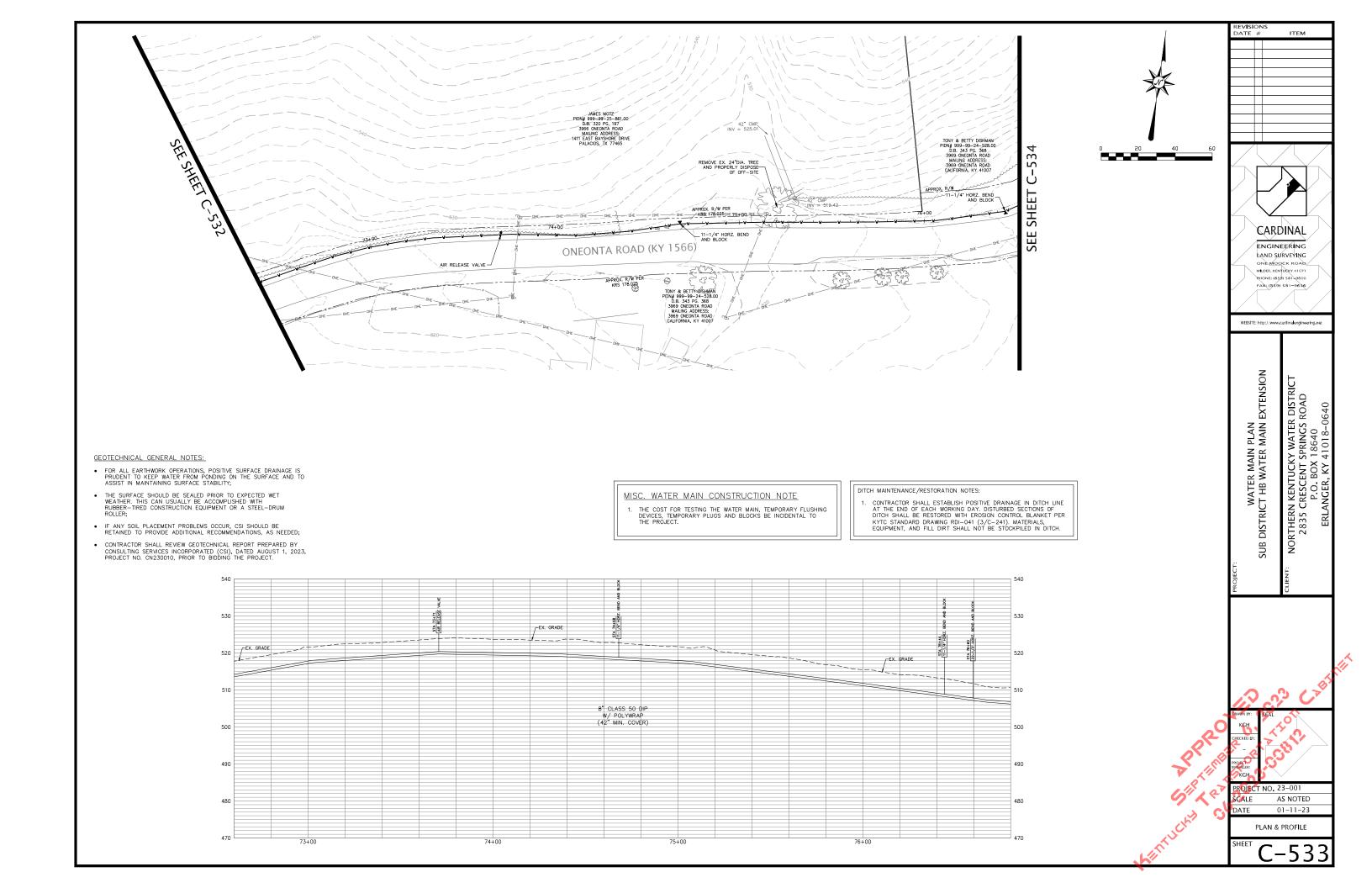


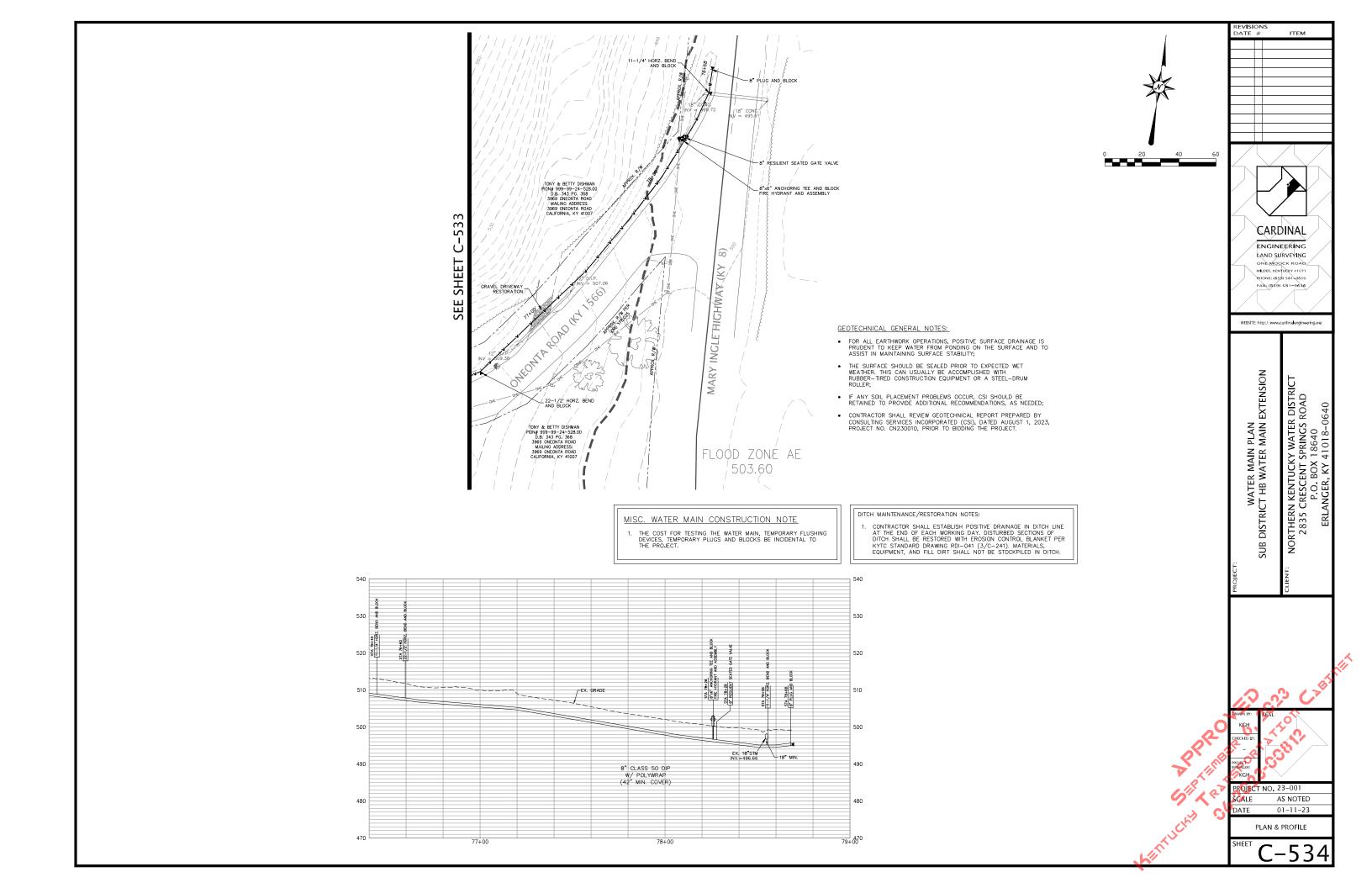














# KYTC Division of Maintenance Permits Branch District 6



### **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.



Page 2 of 7

### I. SAFETY

<b>A</b> , (	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.
$\checkmark$	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.
<b>√</b>	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.
<b>√</b>	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.
$\checkmark$	Working hours shall be between 9:00 AM and 3:00 PM . 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.
<b>c.</b> (	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. I	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 <a href="http://water.ky.gov/permitting/Pages/GeneralPermits.aspx">http://water.ky.gov/permitting/Pages/GeneralPermits.aspx</a>
F. /	Additional Notes  The following additional notes apply to this permit:
	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 <a href="http://water.ky.gov/permitting/Pages/GeneralPermits.aspx">http://water.ky.gov/permitting/Pages/GeneralPermits.aspx</a> Additional Notes  The following additional notes apply to this permit:

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Page 3 of 7

	i. UTILITIES
<b>√</b>	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
<b>√</b>	Minimum depth for underground Gas and Electric lines is 60" under roadways, ramps, and ditch lines and 42" in all other areas within state right of way. The minimum depth for all other utilities is 42" in all areas.
	When steel plates are installed over an open excavation in the roadway, they must be anchored to the pavement and have asphalt applied to all exposed edges and an MUTCD approved sign noting "Road Plates Ahead." KYTC must be notified of the location, date, time, and permit number associated to BOTH the installation and removal of the plate. Failure to do so may result in permit revocation.
	Utility poles moved for replacement must be removed in their entirety and the hole left behind must be backfilled.
	No poles or anchors shall be installed in a roadside ditch.
	Utility notes specific to fully-controlled access highways ONLY:  All work necessary within the right-of-way shall be performed behind a temporary fence erected prior to the start of work. The temporary woven wire fence shall be removed immediately upon completion of work on the right-of-way, and the control of access immediately restored to original condition, in accordance with applicable KYTC SSRBC. All vents, valves, manholes, etc., shall be located outside of the right-of-way. Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints. The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep. Work in interstate right-of-way requires approval from FHWA (Federal Highway Administration).
	Additional notes:
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Additional notes:

01/2023 Page 5 of 7 V FNTRANCES

٧.	LINTRANCES
	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:
	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.
$\checkmark$	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.
$\checkmark$	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:
	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:

Permit No. T06-2023-00812	TC 99-21E
IX. 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 prote 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. Definish materials such as vinyl are acceptable.	ourable
The permittee shall be required to construct and maintain the replacement fencing to an acceptable lever 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.	e 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:	
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 RERMIT 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.

From: Kool, Kenneth H (KYTC-D06)

To: <u>Steve Broering</u>

**Subject:** \*EXTERNAL\* RE: Oneonta Rd - 06-2023-00812

**Date:** Monday, March 25, 2024 7:28:59 AM

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Steve.

I have no issues with the proposed change. I will update our files.

Thanks,

Kenny Kool KYTC District 6 Permits (859) 341-2700

**From:** Steve Broering <sbroering@nkywater.org>

**Sent:** Friday, March 22, 2024 3:24 PM

**To:** Kool, Kenneth H (KYTC-D06) < Kenny. Kool@ky.gov>

**Subject:** FW: Oneonta Rd - 06-2023-00812

\*\*CAUTION\*\* PDF attachments may contain links to malicious sites. Please contact the COT Service Desk ServiceCorrespondence@ky.gov for any assistance.

Hi Kenny,

Have you had a chance to review this requested change to the plan?

Thanks,

**Steve Broering** 

**NKWD** 

From: Steve Broering

Sent: Friday, March 15, 2024 10:33 AM

**To:** Kool, Kenneth H (KYTC-D06) < kenny.kool@ky.gov>

**Subject:** Oneonta Rd - 06-2023-00812

### Kenny,

Upon review of the proposed water main plan on Oneonta Road in Campbell County we are requesting a change to the pipe alignment on sheet C-526. Under permit 06-2023-00812, the old plan had a bore and jack for the intersection of Oneonta Road and Truesdale Road (see old sheet.pdf). Upon review, this bore and jack as shown will not work and the bore pit would have to be pushed further out into Oneonta Road. Our proposal is to route the water main up and

around the existing culvert (see new sheet.pdf). I have also attached two photos of this intersection.

Please let me know if you have any additional questions about this request.

Regards, Steve Broering NKWD 859-426-2728

### NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

### **PERMITTEE**

Name: Northern Kentucky Water District

Contact Person:

Address: 2835 Crescent Springs Road

City: Erlanger State: Kentucky Zip: 41018 Telephone:

### PROJECT IDENTIFICATION

Permit Number: 06-2023-00633

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		
Install 8" ductile iron water main in ditch line north of KY 1936.	Campbell - KY 1936	38.908619	-84.436909		

38.908619 -84.436909 -84.436909 -84.436909 -84.436909 -84.436909 -84.436909 -84.436909



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

July 25, 2023

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

Subject: Permit #: 06-2023-00633

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



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### 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 #: 06-2023-00633					
Permittee:	Permittee: Northern Kentucky Water District				
Permit Type / Subtype:	Utilities / Water				
Work Completion Date: 7/12/2024					
	INDEMNITIES				
<u>,                                      </u>	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	7/25/2023			
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
Install 8" ductile iron water main in ditch line north of KY 1936.	Campbell - KY 1936	38.908619	-84.436909
Kentucky 81	Know what's <b>below. Call</b> before you dig	To Submit a Locate Re 24 Hours a Day, Seven Call 811 or 800-752-	equest Days a Week:





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

### **APPLICATION FOR ENCROACHMENT PERMIT**

KYTC KEPT #:						
SECTION 1: APPLICANT CONTACT II	NFORMATION					
APPLICANT	ADDRESS					
Northern Kentucky Water District	2835 Crescent Spr	ings Pike				
EMAIL	CITY		STATE	ZIP		
	Erlanger		KY	41018		
CONTACT NAME 1	EMAIL		<b>PHONE #</b> 859-426	5-2713		
Kyle Ryan, PE	KRyan@nkywater	.org	CELL#			
CONTACT NAME 2 (if applicable)	EMAIL		<b>PHONE #</b> 859-392	2-3673		
Matt Bogen, PE	mbogen@cardina	lengineering.net	CELL#			
SECTION 2: PROPOSED WORK LOCA	ATION					
ADDRESS	CITY		STATE	ZIP		
10365 Pond Creek Rd to 208 Visalia Rd.	Unincorporated		Kentucky	41001		
COUNTY	ROUTE #	MILE POINT	LONGITUDE (X)	LATITUDE (Y)		
Campbell	KY 1936	7.14-6.82	-84.440654	38.912396		
ADDITIONAL LOCATION INFORMATION	N:					
	FOR KYT	C USE ONLY				
PERMIT TYPE: Air Right Entra	nce 🔽 Utilities	☐ Vegetation Rer	moval 🗌 Other:			
ACCESS: Full Partia	al 😡 by Permi	t <b>LOCATION</b> : [	☑ Left ☑ Right			
SECTION 3: GENERAL DESCRIPTION OF WORK  Install 8" ductile iron water main in ditchline north of KY 1936. No open cut of roadway will be required.						
THE UNDERSIGNED APPLICANT(s), be UNEDITED TERMS AND CONDITIONS  Steve Brown SIGNATURE  This is not a permit unless and until shall become void if not approved by	ON THE TC 99-1A, particles of the applicant(s) rec	ages 1-4.  eives an approved TC	6-14-2023  DATE  99-1B from KYTC. This a	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.

**L**EMUCK!



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

### APPLICATION FOR ENCROACHMENT PERMIT

	APPLICATION FOR ENCROACHIVIENT PERIVIT				
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				
	<ol> <li>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.</li> <li>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</li> </ol>				
13.	this application and routine maintenance are authorized by the permit.  3. 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				

- 14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.
- 15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.
- 16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the expense of the permittee, except where the Department is required by law to pay any or all of those costs.

**L**ERTUCKS



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 Browing	6-14-2023	
SIGNATURE (Utility Representative)	DATE	 13



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



# 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:



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.	
$\checkmark$	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.	
<b>√</b>	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.	
<b>√</b>	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.	
$\checkmark$	Working hours shall be between 9:00 AM and 3:00 PM . Further date and time restrictions are as follows:	
$\checkmark$	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.  OSHA	
$\checkmark$	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.	A
E. I	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 <a href="http://water.ky.gov/permitting/Pages/GeneralPermits.aspx">http://water.ky.gov/permitting/Pages/GeneralPermits.aspx</a>	
F. /	Additional Notes  The following additional notes apply to this permit:	
▼	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 <a href="http://water.ky.gov/permitting/Pages/GeneralPermits.aspx">http://water.ky.gov/permitting/Pages/GeneralPermits.aspx</a> Additional Notes  The following additional notes apply to this permit:  Bore pits must be made safe for an errant vehicle during non working hours.	

### II. UTILITIES

<b>✓</b>	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.
$\checkmark$	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.
$\checkmark$	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
$\checkmark$	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:

APPROXIBEORISCHOS

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Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement, and an edge key will be installed in the overlap. An approved joint sealer, in accordance with Kentucky Department of Highways Standard Specifications (latest edition), shall be applied between new and existing pavements.

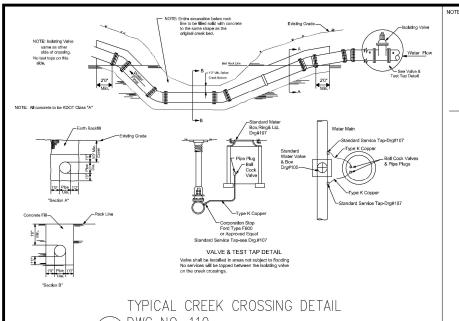
Additional notes:

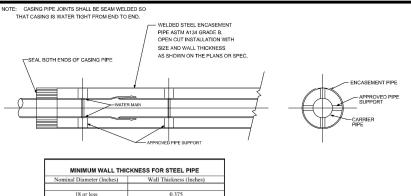
٧.	ENTRANCES	Page 5 of 7
	Encroachment permits issued by KYTC in no way supersede local planning/zoning requirements or suregulations. KYTC has no authority with zoning changes.	ıbdivision
	Commercial entrances must be paved to the right-of-way line. Any deviations must be approved by KY installation.	'TC before
	KTYC can dictate drainage improvement installation during construction or after entrance is at final graph permit release does not release the permit applicant from drainage maintenance.	ade. The
	Signs (ground-mounted and span-mounted), stop bars, crosswalk, and proper lane markings must be before entrance is open for traffic. Lane width modifications must be approved by the Department.	in-place
	Guardrail installation must be pre-approved by the Department and installed by a KYTC pre-qualified of Any guardrail that is removed during construction must be returned to the local KTYC maintenance factors.	
	Additional notes:	
	VI. TRAFFIC	
	Any contractor performing work within the vicinity of KYTC roadway lighting or traffic signals, must reclocates from the KYTC District 6 Traffic section at least one week before of starting work in the right-of	
$\checkmark$	Applicant must maintain all KYTC Roadway signage that is impacted by the permitted work. In the everany signs have to be moved, it is the applicant's responsibility to mark the sign's location before remove install the original or new sign per KYTC standards for sign installation.	
$\checkmark$	Any thermoplastic or striping damaged during the encroachment must be restored in a timely manner KYTC standards. Stopbars, arrows, and crosswalks must be thermoplastic material, paint is not accept 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 papproval.	e Orior
	If the scope of the permit involves a signal build or rebuild, it is the applicant's responsibility to apply for service (and pay monthly electrical bill) as well as request electrical inspection from the KYTC District section. If the signal modifications require timing or phasing changes this must be requested at least to in advance of the signal's turn-on date. KYTC will not take ownership of permitted signals until the electric inspection is formally accepted and approved.	6 Traffic wo weeks
	Work which impacts traffic loops requires 48-hour notice to the KYTC District 6 Traffic section at 859-3 Accidental damage of a traffic loop must be reported immediately to KYTC District 6's emergency line 859-620-2738. Any disturbed traffic loops must be replaced in a timely manner. Traffic loops out of opfor more than five working days will subject the applicant to the cancellation of the permit. Loop repair performed by a KYTC pre-qualified contractor.  Additional Notes:	at C
	Additional Notes:	333
	The Copy of the Co	

Permit No. T06-2023-00633					
IX. 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.	ct against				
The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-way I	line				
The fence materials and design shall meet accepted industry standards and be treated as paintable. Definish materials such as vinyl are acceptable.	urable				
The permittee shall be required to construct and maintain the replacement fencing to an acceptable lev tionality and state of repair. All work on the fencing shall be performed by access from the private propercess 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:					
X. MISCELLANEOUS NOTES					

### NOTICE TO PERMITTEE

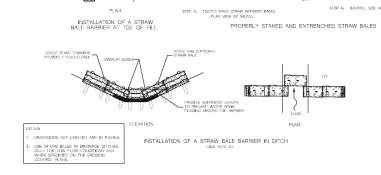
THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE CURRENT KYTC STANDARD SPECIFICATIONS AND THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE 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.





ENCASEMENT PIPE DETAIL

DWG NO. 114 C-241 SCALE: NTS



STRAW BALE BARRIER

C-241 SCALE: NTS



WEBSITE: http://www.cardinalengineering.r

WATER MAIN PLAN DISTRICT HB WATER MAIN EXTENSION

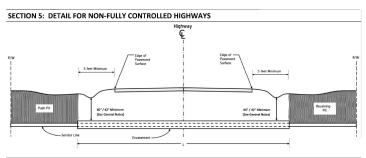
SUB

NORTHERN KENTUCKY WATER DISTRICT 2835 CRESCENT SPRINGS ROAD P.O. BOX 18640 ERLANGER, KY 41018-0640

REVISIONS DATE #

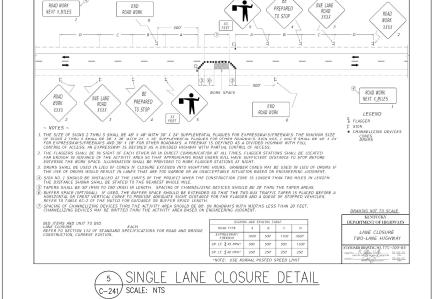
ITEM



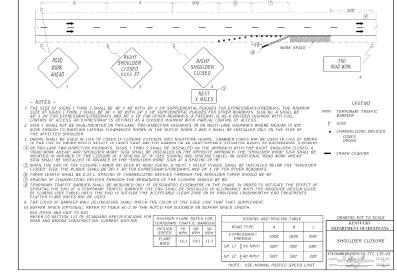


#### SECTION 6: GENERAL NOTES

- Push Pit and Receiving Pit shall be backfilled and thoroughly compacted.
- All ditch lines are to remain open at all times and restored to original condition
- Shape, Seed and Straw all disturbed areas immediately after completing the work.
- Provide traffic control as required to ensure the safety of the traveling public in accordance with the current edition of the Manual on Uniform Traffic Control Devices.
- The minimum depth for underground electrical lines and natural gas and petroleum fraction lines under roadways, ramps, and ditch lines is 60". The minimum depth for underground electrical lines, natural gas and petroleum fraction lines, and all other underground utilities is 42" in all other areas, unless NESC requires additional depth.
- See KYTC Permits Manual for all requirements and specifications.





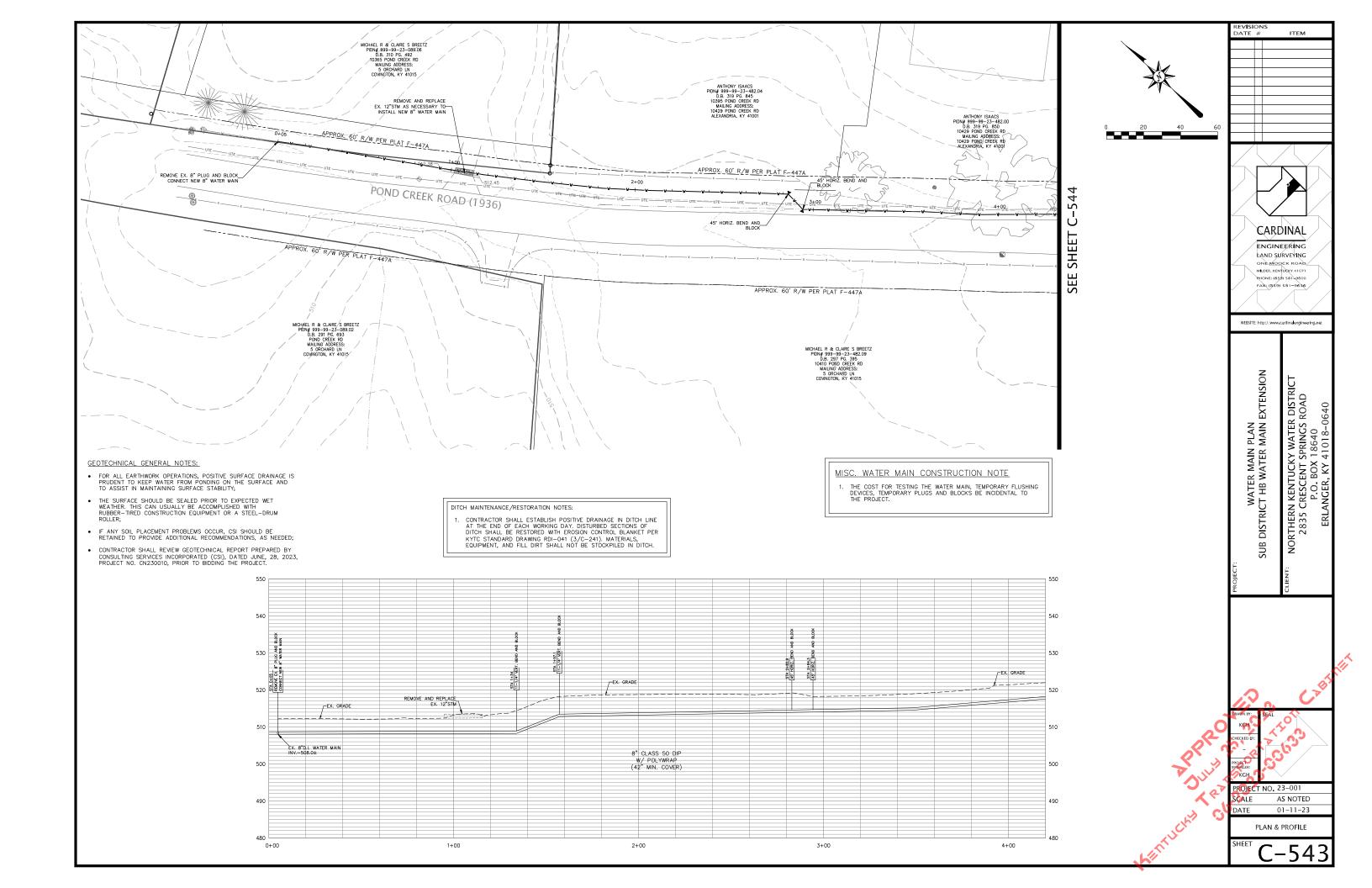


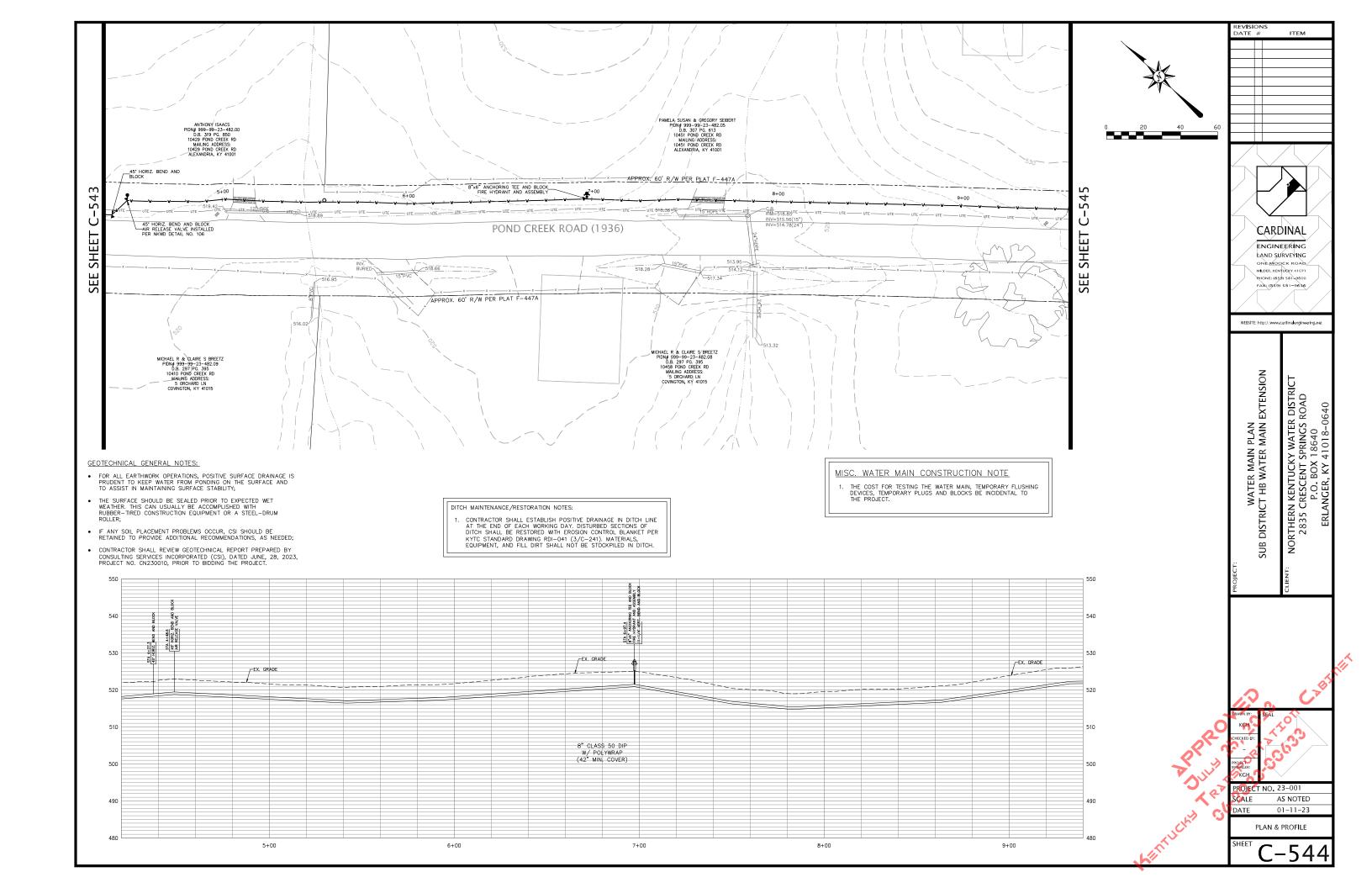


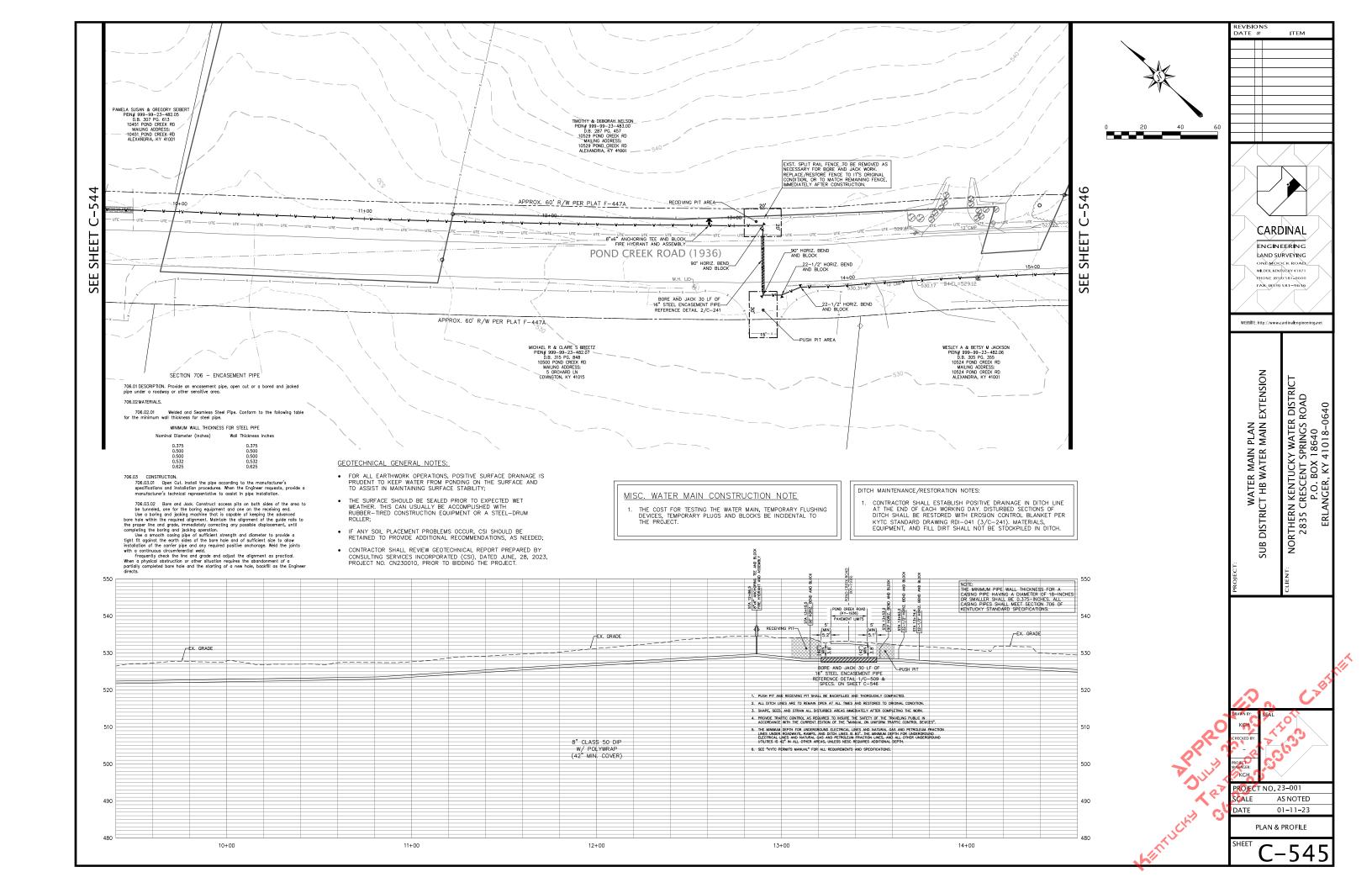
Duling PROJECT NO. 23-001 AS NOTED DATE 1-11-23 WATER DETAILS

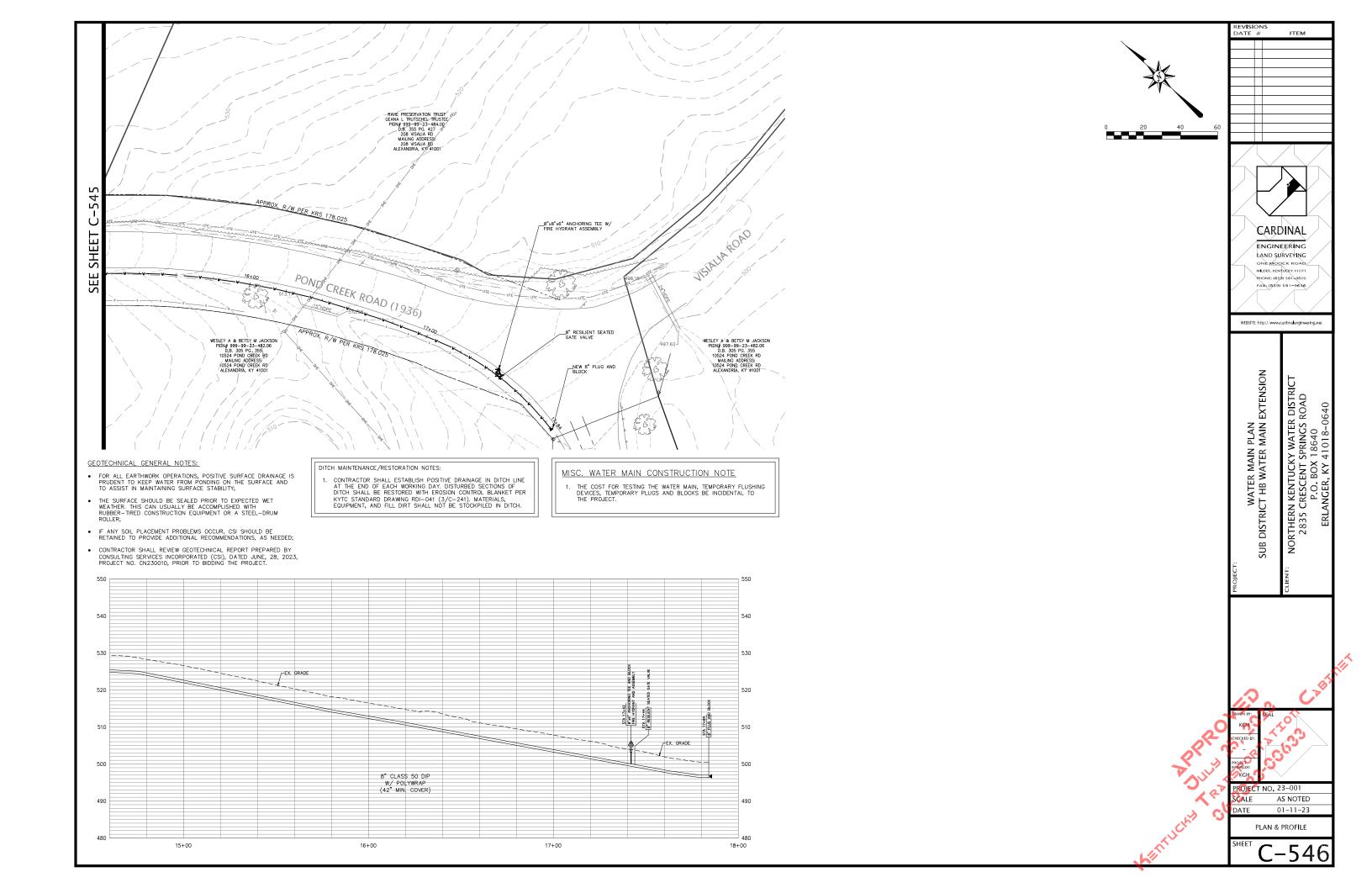
TYPICAL HIGHWAY BORE DETAIL

C-24) SCALE: NTS











### KENTUCKY TRANSPORTATION CABINET Department of Highways

**DIVISION OF MAINTENANCE - PERMITS BRANCH** 

TC 99-209 Rev. 12/2021 Page 1 of 1

### TYPICAL HIGHWAY BORE DETAIL - FOR NON-FULLY CONTROLLED HIGHWAYS -

	KYTC KEPT #:					
SECTION 1: HIGHWAY INF	ORMATION					
COUNTY: Campbell	ROUTE: KY 1936		MILE POINT: 6.94	PAVEMENT WIDTH: 19.75'		
SECTION 2: UTILITY INFOF	RMATION					
UTILITY TYPE: Water		PIPE TYPE: Ductile Iron Pipe		DIAMETER: 8"		
SECTION 3: ENCASEMENT	INFORMATION					
ENCASEMENT TYPE: Steel				DIAMETER: 16"		
<b>SECTION 4: BORE INFORM</b>	IATION					
BORE TYPE: Bore & jack			LENGTH (L): 30 LF	DIAMETER:		
SECTION 5: DETAIL FOR N	ON-FULLY CONT	ROLLED HIG	<b>GHWAYS</b>			
R/W	Edge of Paveme Surface	High Q I	Edge of Pavement Surface	R/W 		
Push Pit 60" / 42" Minimum (See General Notes)			5 feet Mir	inum		
			60" / 42" Minimum (See General Notes)	Receiving Pit		
Service Line	Encaseme	nt l		!		
SECTION 6: GENERAL NOT	res					

- Push Pit and Receiving Pit shall be backfilled and thoroughly compacted.
- All ditch lines are to remain open at all times and restored to original condition.
- Shape, Seed and Straw all disturbed areas immediately after completing the work.
- Provide traffic control as required to ensure the safety of the traveling public in accordance with the current edition of the Manual on Uniform Traffic Control Devices.
- The minimum depth for underground electrical lines and natural gas and petroleum fraction lines under roadways, ramps, and ditch lines is 60". The minimum depth for underground electrical lines, natural gas and petroleum fraction lines, and all other underground utilities is 42" in all other areas, unless NESC requires additional depth
- See **KYTC** Permits Manual for all requirements and specifications.

From: Kool, Kenneth H (KYTC-D06)

To: <u>Steve Broering</u>

Subject: \*EXTERNAL\* RE: \*EXTERNAL\* RE: KY 1936 Pond Creek Road

**Date:** Monday, March 25, 2024 7:04:38 AM

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks! I have updated our files.

**From:** Steve Broering <sbroering@nkywater.org>

Sent: Friday, March 22, 2024 3:14 PM

**To:** Kool, Kenneth H (KYTC-D06) < Kenny. Kool@ky.gov>

Subject: RE: \*EXTERNAL\* RE: \*EXTERNAL\* RE: KY 1936 Pond Creek Road

\*\*CAUTION\*\* PDF attachments may contain links to malicious sites. Please contact the COT Service Desk ServiceCorrespondence@ky.gov for any assistance.

Kenny,

Attached is updated Sheet C-545 that depicts the change in the road crossing and restoration requirements.

This drawing is an update for KYTC permit 06-2023-00633

Thank you for getting this approved.

Regards,
Steve Broering
NKWD

From: Kool, Kenneth H (KYTC-D06) < Kenny.Kool@ky.gov>

**Sent:** Thursday, March 21, 2024 9:22 AM **To:** Steve Broering <sbroering@nkywater.org>

Subject: \*EXTERNAL\* RE: \*EXTERNAL\* RE: KY 1936 Pond Creek Road

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Steve,

The crossing will be permitted to cross at a 45 degree angle.

Thanks,

Kenny Kool

### KYTC District 6 Permits (859) 341-2700

**From:** Steve Broering <<u>sbroering@nkywater.org</u>>

**Sent:** Friday, March 15, 2024 10:02 AM

**To:** Kool, Kenneth H (KYTC-D06) < Kenny.Kool@ky.gov > **Subject:** RE: \*EXTERNAL\* RE: KY 1936 Pond Creek Road

### Kenny,

I have one more question about the crossing. Can the crossing be at a 45 degree angle or must it be a 90 degree angle? I want to give my engineer some direction before he finishes modifying the plan sheet. From the Water Districts perspective, it is easier to place concrete blocking behind 45 degree fittings vs. 90 degree fitting and have everything stay together.

Thanks, Steve Broering NKWD 859-426-2728

From: Kool, Kenneth H (KYTC-D06) < Kenny. Kool@ky.gov>

**Sent:** Friday, March 1, 2024 1:36 PM

**To:** Steve Broering < sbroering@nkywater.org > **Subject:** \*EXTERNAL\* RE: KY 1936 Pond Creek Road

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Steve,

The proposed crossing will be permitted to be open cut. Please send the revised plan sheet showing the trench being backfilled with flowable fill to the bottom of the existing pavement section and the remainder of the pavement section being filled with asphalt base to the surface. After 2 weeks, the entire width of the road will need to be milled 1.5" deep 25' on each side of the trench and replaced with 1.5" asphalt surface. Feel free to reach out to me with any questions.

Thanks,

Kenny Kool KYTC District 6 Permits (859) 341-2700 From: Steve Broering < sbroering@nkywater.org>
Sent: Monday, February 19, 2024 2:55 PM

To: Kool, Kenneth H (KYTC-D06) < Kenny. Kool@ky.gov>

Subject: FW: KY 1936 Pond Creek Road

\*\*CAUTION\*\* PDF attachments may contain links to malicious sites. Please contact the COT Service Desk ServiceCorrespondence@ky.gov for any assistance.

### Kenny,

The Northern Kentucky Water District is requesting to install a water main across KY 1936. The original plan was to bore and jack the proposed water main under the roadway. The District has been unsuccessful in negotiating an easement for the bore pit. It was requested by KYTC to look for another place for a bore pit along the road. The attached map shows that all the property is owned by Michael Breetz from the beginning of the project to where the proposed water main crosses the road. Moving the crossing further down the road is complicated by the next driveway which is heavily landscaped and hard to replace and the topography of the right of way is much steeper for installation of the water main.

From: Steve Broering

Sent: Monday, February 5, 2024 2:59 PM

To: Linzy Brefeld (<a href="mailto:linzy.brefeld@ky.gov">linzy.brefeld@ky.gov</a>>

**Subject:** KY 1936 Pond Creek Road

#### Linzy,

The Water District is having difficulty in acquiring the easement for crossing Pond Creek Road. We are requesting to change the existing permit to allow crossing the road with an open cut followed up by mill and pave restoration. The crossing would be similar to the work that will be done on KY 915.

KY 915 - KYTC permit 06-2023-00633 KY 1936 - KYTC permit 06-2023-00633

Please see attachments.

If you need to discuss the project I can be reached via email or at 859-426-2728.

Regards, Steve Broering Northern Kentucky Water District