



KENTUCKY TRANSPORTATION CABINET  
Department of Highways  
PERMITS BRANCH

TC 99-1A  
Rev. 09/2018  
Page 1 of 4

APPLICATION FOR ENCROACHMENT PERMIT

KYTC KEPT #: 05 2018 01574

SECTION 1: APPLICANT CONTACT INFORMATION *Revised*

NAME LGE PERMITS	ADDRESS 6900 Enterprise Dr	CITY Louisville	
EMAIL [REDACTED]		STATE KY	ZIP 40214
CONTACT NAME 1 Dillon Graff	EMAIL [REDACTED]	PHONE #	[REDACTED]
		CELL #	
CONTACT NAME 2 (if applicable) Steve Beaty	EMAIL	PHONE #	
		CELL #	

SECTION 2: PROPOSED WORK LOCATION

ADDRESS 6885 Cedar Grove Rd	CITY Louisville	STATE Kentucky	ZIP 40165
COUNTY Bullit	ROUTE # KY-480	MILE POINT 6.1	LONGITUDE (X) -85.609148
			LATTITUDE (Y) 37.969644

FOR KYTC USE ONLY

Permit Type:  Air Right  Entrance  Utilities  Vegetation Removal  Other: \_\_\_\_\_

Location:  Left  Right  Crossing

Access:  Full  Partial  by Permit

SECTION 3: GENERAL DESCRIPTION OF WORK

Application to work in ROW on KY-480 across the road from 6885 Cedar Grove Rd at the intersection of Cedar Grove Rd and Millers Ln. We will be tying into existing gas main on the north side of KY-480 and boring under KY-480 a 12.75" OD X 0.5" WT 5LX52 HFW FBE and ARO coated natural gas line to the south at a depth of 5'. The bore will be approx. 60' in length. Any traffic control will be done between the hours of 6:00am to 9:00am on Sundays to avoid peak traffic hours and all signing will be in accordance with the MUTCD. 9 a.m. - 3pm

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.

*Dillon Graff*  
SIGNATURE

1-7-19  
DATE

This is not a permit unless and until the applicant(s) receives an approved TC 99-18 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.



## APPLICATION FOR ENCROACHMENT PERMIT

### TERMS AND CONDITIONS

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



### APPLICATION FOR ENCROACHMENT PERMIT

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





### 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.



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



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**APPLICATION FOR ENCROACHMENT PERMIT**

KYTC KEPT #: 05 2018 01574

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<b>EMAIL</b> [REDACTED]		<b>STATE</b> KY
		<b>ZIP</b> 40214
<b>CONTACT NAME 1</b> Dillon Graff	<b>EMAIL</b> [REDACTED]	<b>PHONE #</b> [REDACTED]
		<b>CELL #</b>
<b>CONTACT NAME 2 (if applicable)</b>	<b>EMAIL</b>	<b>PHONE #</b>
		<b>CELL #</b>

**SECTION 2: PROPOSED WORK LOCATION**

<b>ADDRESS</b> 6019- 8910 Cedar Grove Rd	<b>CITY</b> Shepherdsville	<b>STATE</b> Kentucky	<b>ZIP</b> 40165
<b>COUNTY</b> Bullitt	<b>ROUTE #</b> KY-480	<b>MILE POINT</b> 5.9 - 9.0	<b>LONGITUDE (X)</b> -85.612425
			<b>LATITUDE (Y)</b> 37.970365

**FOR KYTC USE ONLY**

**Permit Type:**  Air Right  Entrance  Utilities  Vegetation Removal  Other: \_\_\_\_\_

**Location:**  Left  Right  Crossing

**Access:**  Full  Partial  by Permit

**SECTION 3: GENERAL DESCRIPTION OF WORK**

Application to work in ROW on KY-480 at 6019-8910 Cedar Grove Rd . We will improve existing permanent access entrances on south side of KY-480, we will have a bored installation of 12.75" OD X 0.375" WT 5LX52 HFW FBE and ARO coated natural gas pipe to a min. cover of 5' at 6019,6084,6158,8910 Cedar Grove Rd.  
 Any traffic control will be done between the hours of 9:00 am and 3:00pm to avoid peak traffic hours and all signing will be in accordance with the MUTCD.

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.

SIGNATURE

11-7-18  
 DATE

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



## APPLICATION FOR ENCROACHMENT PERMIT

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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.
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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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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.



To Submit a Locate Request  
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Kentucky Transportation Cabinet  
 Department of Highways  
 Permits Branch

**ENCROACHMENT PERMIT**

KEPTS No.: 05-2018- 01574

Permittee: Louisville Gas & Electric Co.-- Dillion Graff

Latitude: 37.970365

Longitude: -85.612425

Completion Date: 12/20/2019

Coordinates provided on the TC 99-1(B) are the approved location for this permit.

Indemnities		
Type	Amount Required	Tracking Number
Performance Bond	\$5,000.00	
Payment Bond		
Liability Insurance		

This permit has been:

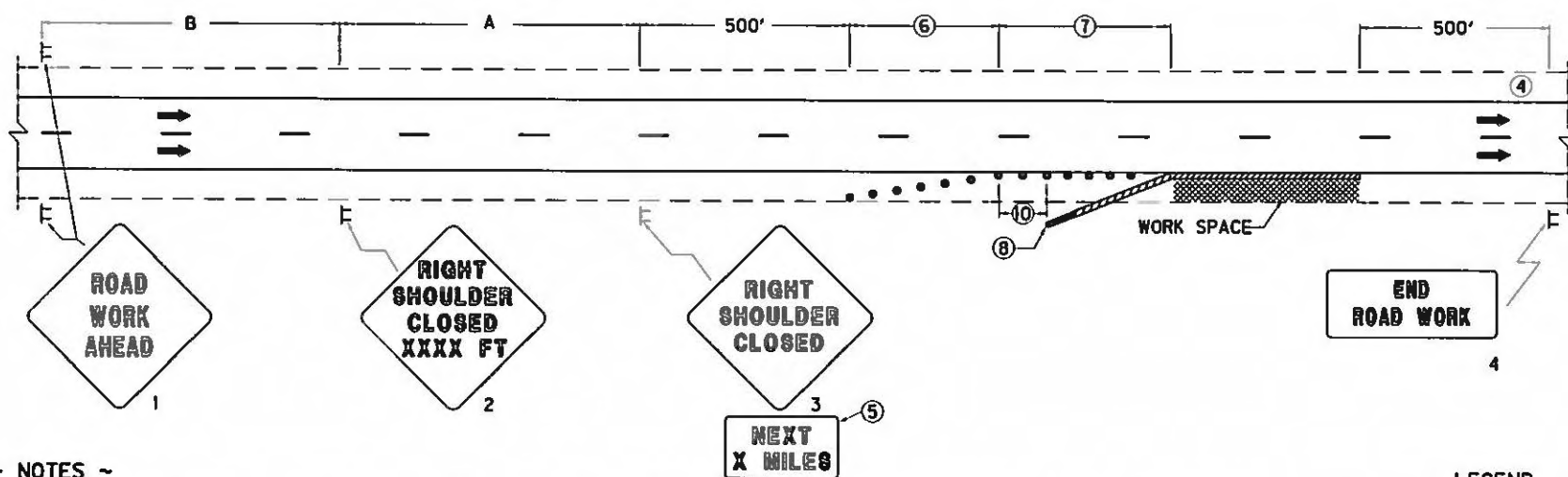
APPROVED  DENIED

\_\_\_\_\_  
 NAME TITLE

\_\_\_\_\_  
 SIGNATURE 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.

6102-20-10 TWT



**~ NOTES ~**

1. THE SIZE OF SIGNS 1 THRU 3 SHALL BE 48" X 48" WITH 30" X 24" SUPPLEMENTAL PLAQUES FOR EXPRESSWAYS/FREEWAYS. THE MINIMUM SIZE OF SIGNS 1 THRU 3 SHALL BE 36" X 36" WITH 24" X 18" SUPPLEMENTAL PLAQUES FOR OTHER ROADWAYS. SIGN NO. 4 SHALL BE 48" X 24" FOR EXPRESSWAYS/FREEWAYS AND 36" X 18" FOR OTHER ROADWAYS. A FREEWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS. AN EXPRESSWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.
2. SIGN 1 SHALL NOT BE DUAL-MOUNTED ON TWO-LANE, TWO-DIRECTION HIGHWAYS OR ON MULTI-LANE HIGHWAYS WHERE MEDIAN IS NOT WIDE ENOUGH TO MAINTAIN LATERAL CLEARANCES SHOWN IN THE MUTCD. SIGNS 2 AND 3 SHALL BE INSTALLED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.
3. DRUMS OR TYPE II BARRICADES SHALL BE USED IN LIEU OF CONES OR TUBULAR MARKERS IF CLOSURE EXTENDS INTO NIGHTTIME HOURS.
- ④ ON TWO-LANE TWO-DIRECTION HIGHWAYS, SIGNS 1 THRU 3 SHALL BE INSTALLED ON THE APPROACH WITH THE RIGHT SHOULDER CLOSED. A 'ROAD WORK AHEAD' AND 'SHOULDER WORK' SIGN SHALL BE INSTALLED ON THE OPPOSITE APPROACH. THE 'SHOULDER WORK' SIGN SHALL BE MOUNTED IN ADVANCE OF THE CLOSURE AT A SPACING OF 'A' (SEE SIGNING AND SPACING TABLE). AN ADDITIONAL 'ROAD WORK AHEAD' SIGN SHALL BE INSTALLED IN ADVANCE OF THE 'SHOULDER WORK' SIGN AT A SPACING OF 'B'.
- ⑤ WHEN THE END OF THE CLOSURE CANNOT BE SEEN BY ROAD USERS, A 'NEXT X MILES' PLAQUE SHALL BE INSTALLED BELOW THE 'SHOULDER CLOSED' SIGN. THE PLAQUE SHALL BE 36" X 30" FOR EXPRESSWAYS/FREEWAYS AND 24" X 18" FOR OTHER ROADWAYS.
- ⑥ TAPER LENGTH SHALL BE 0.33 L. SPACING OF CHANNELIZING DEVICES THROUGH THE SHOULDER TAPER SHOULD BE 40'.
- ⑦ SPACING OF CHANNELIZING DEVICES THROUGH THE REMAINDER OF THE CLOSURE SHOULD BE 80'.
- ⑧ TEMPORARY TRAFFIC BARRIER SHALL BE REQUIRED ONLY IF DESIGNATED ELSEWHERE IN THE PLANS. IN ORDER TO MITIGATE THE EFFECT OF STRIKING THE END OF A TEMPORARY TRAFFIC BARRIER, THE END SHALL BE INSTALLED IN ACCORDANCE WITH THE ROADSIDE DESIGN GUIDE BY FLARING (SEE TABLE) UNTIL THE END IS OUTSIDE THE ACCEPTABLE CLEAR ZONE OR BY PROVIDING CRASHWORTHY END TREATMENTS. FLATTER FLARE RATES MAY BE USED.
9. THE COLOR OF BARRIER WALL DELINEATORS SHALL MATCH THE COLOR OF THE EDGE LINE THAT THEY SUPPLEMENT.
10. BUFFER SPACE (OPTIONAL). REFER TO TABLE 6C-2 OF THE MUTCD FOR GUIDANCE ON BUFFER SPACE LENGTH.

BID ITEMS AND UNIT TO BID  
REFER TO SECTION 112 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.

MAXIMUM FLARE RATES FOR TEMPORARY TRAFFIC BARRIER			
DESIGN SPEED	70 MPH	60 MPH	50 MPH
FLARE RATE	15:1	14:1	11:1

SIGNING AND SPACING TABLE			
ROAD TYPE	A	B	L
EXPRESSWAY/FREEWAY	1000'	1600'	840'
SP. LT. ≥ 45 MPH*	500'	500'	680'
SP. LT. ≤ 40 MPH*	500'	500'	320'

\*NOTE: USE NORMAL POSTED SPEED LIMIT

**LEGEND**

- TEMPORARY TRAFFIC BARRIER
- SIGN
- CHANNELIZING DEVICES
  - CONES
  - DRUMS
  - TYPE II BARRICADES
  - TUBULAR MARKERS
- CRASH CUSHION

**DRAWING NOT TO SCALE**

KENTUCKY  
DEPARTMENT OF HIGHWAYS

**SHOULDER CLOSURE**

STANDARD DRAWING NO. TTC-135-02  
 SUBMITTED *R. M. W.* 12-01-15  
 DIRECTOR OF TRANSPORTATION OPERATIONS DATE  
 APPROVED *[Signature]* 12-01-15  
 STATE HIGHWAY ENGINEER DATE

**APPLICATION**

THIS DRAWING APPLIES TO SHOULDER CLOSURES ON MULTI-LANE HIGHWAYS, TWO-LANE TWO-DIRECTION HIGHWAYS, AND ONE-WAY HIGHWAYS.



## ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

Permit No. 05 2018 01574

### I. SAFETY

#### A. 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 Manual.
- All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly completed so that hazards adjacent to the traveled way are kept to an absolute minimum.
- No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All signs and flaggers during lane closure shall conform to the Manual on Uniform Traffic Control Devices.
- When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, snow, fog, etc.) without specific permission from the Department. Working hours shall be between 9:00 am and 3:00 pm
- 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 nonconstruction 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. Explosives

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

#### C. Other Safety Requirements

- Permit does not relieve the applicant of the obligations of item 6, TC 99-1 page 2 or item A TC 99-21, page 1 of 6. Any Traffic Loops damaged during installation shall be repaired by the contractor immediately.

### II. UTILITIES \* Applies to Fully Controlled Access Highways ONLY

- \*All work necessary within the right of way shall be performed behind a temporary fence erected prior to a boring operation.
- \*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 Kentucky Department of Highways Standard Drawings.
- \*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.

**II. UTILITIES (Continued)**

- Encasement pipe shall conform to current standards for highway crossings in accordance with the Permits Manual.
- Parallel lines shall be constructed between back slope of ditch line and right-of-way line and shall have a minimum of 30-inch cover above top of pipe or conduit.
- All pavement cuts shall be restored per Kentucky Transportation Cabinet form TC 99-13.
- Aerial crossing of this utility line shall have a minimum clearance of \_\_\_\_\_ feet from the high point of the roadway to the low point of the line (calculated at the coefficient for expansion of 120 degrees Fahrenheit).
- The 30-foot clear zone requirement shall be met to the extent possible in accordance with the Permits Manual.
- Special requirements:

Compaction and grading of backfill shall be to Kentucky Transportation Cabinet Standard Specifications. The entire project area shall be restored to original or better conditions.

**III. GENERAL**

**A. OSHA**

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

**B. 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.

**C. Utilities in the Work Areas**

- The permittee shall be responsible for any damage to existing utilities, and 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.
- All existing manholes and valve boxes shall be adjusted to be flush with finished grade.

**D. Environmental**

- If the activity to which this permit relates disturbs one acre or more of land, you must obtain a KPDES KYR10 permit.

**Websites**

<http://www.water.ky.gov/permitting/wastewaterpermitting/KPDES/storm/>

Inspectors for KPDES KYR10 at [www.KEPSC.org](http://www.KEPSC.org)





Permit No. 05 2018 01574

**VI. Paving**

- No bituminous pavement shall be installed within the right of way between November 15 and April 1, nor when the temperature is below 40 degrees Farenheit, without the express consent of the Department. No bituminous pavement shall be installed when the underlying course is wet.
- Paving within the right of way shall be as follows:
  - Base (Type) \_\_\_\_\_ (Thickness) \_\_\_\_\_
  - Surface Base (Type) \_\_\_\_\_ (Thickness) \_\_\_\_\_
  - Finished Surface (Type) \_\_\_\_\_ (Thickness) \_\_\_\_\_
- Existing pavement and shoulder material shall be removed to accomodate the above paving specifications.
- The finished surface of all new pavement within the right of way shall be true to the required slope and grade, uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent highway pavement or as determined by the Department of Highways.
- All materials and methods of construction, including base and subgrade preparation, shall be in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).
- 24 hours notice to the Department is required prior to beginning paving operations.  
Phone: \_\_\_\_\_ Name: \_\_\_\_\_
- To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highway pavement and shall slope away from the existing edge of the pavement as specified in drawings.
- Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement. An approved joint sealer, in accordance with Kentucky Department of Highways Standard Specifications (latest edition), shall be applied between new and existing pavements.

**VII. SIDEWALKS SPECIFICATIONS \*This dimension should be equal to the width of the sidewalk.**

**A. New Sidewalks**

- Sidewalks shall be constructed of Class A concrete (3,500 p.s.i. test), shall be \*\_\_\_\_\_ feet in width, 6 inches in thickness across the bituminous entrance, and 4 inches in thickness across the remaining sections.
- Sidewalks shall have tooled joints not less than 1 inch in depth at four foot intervals\*, and 1/2 premolded expansion joints extending entirely through the sidewalk at intervals not to exceed 50 feet.
- All materia's and methods of construction, including curing, shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

**B. Existing Sidewalks**

- (Applicable if existing sidewalks are being relocated) Use of the sidewalk shall not be blocked or obstructed, and a usable walkway shall be maintained across the construction area at all times.
- All damaged sections of the sidewalks shall be entirely replaced to match existing sections.

**VIII. DENSE GRADED SHOULDERS**

- Any existing dense-graded aggregate shoulders in the entire frontage within the construction area, which have been disturbed or damaged or on which dirt has been placed or mud has been deposited or tracked, shall be restored to original condition by removal of all contaminated material and replaced to proper grade with new dense-graded aggregate.
- All new aggregate shoulders as specified in the plan shall consist of 5 inches of compacted dense-graded aggregate, 2<sup>1/2</sup> pounds per square yard of calcium chloride.
- All dense-graded aggregate shoulders shall slope away from the new edge of pavement at the rate of 3/4 inch per foot.

**IX. CURBING**

**A. Bituminous Curbs**

- Bituminous concrete curbs shall be given a paint coat of asphalt emulsion.
- The surface under the bituminous concrete curb shall be tacked with asphalt emulsion.
- All bituminous concrete curbs shall be constructed of a Class I bituminous concrete mixture as specified by official Department of Highways specifications.
- All bituminous curbs shall be rolled curb, with a minimum base width of 8 inches and a minimum height of \_\_\_\_\_ inches. The top of the curb shall be constructed in such a manner as to guarantee a uniform rolled effect throughout the entire run.

**B. Concrete Curbs**

- All curbs or curb and gutter shall be constructed of Class A concrete (3,500 p.s.i. test) and shall be uniform in height, width, and alignment, true to grade, and satisfactory in finish and appearance as determined by the Department. All materials and methods of construction, including curing, shall be in accordance with Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).
- All concrete curbs shall be 6 inches in width, extend \_\_\_\_\_ inches above finished grade and 12 inches below finished grade, with all visible edge rounded to 1/2 inch radii.
- All concrete curbs shall have expansion joints constructed at intervals of not more than 30 feet, and 1/2 inch premolded expansion joint material (cut to conform to the curb or to the curb and gutter section) shall be used in each expansion joint.
- The last \_\_\_\_\_ feet of all concrete curbs are to be tapered down to finished grade.

Permit No. 05 2018 01574

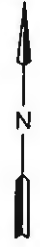
**X. RIGHT-OF-WAY FENCE-REPLACEMENT**

- The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to contain all animals (if applicable).
  
- 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.
- The permittee shall be required to maintain the fence in a high state of repair.
- The existing fence shall be removed by permittee and stored at the Department's maintenance storage yard for future reuse by the Department.
- The control of access shall not be diminished as a result of replacement of the fence.
- Miscellaneous:

**NOTICE TO PERMITTEE**

THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH 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.

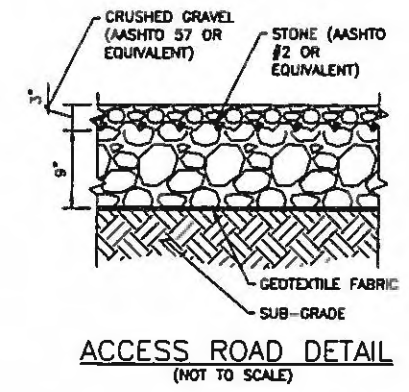
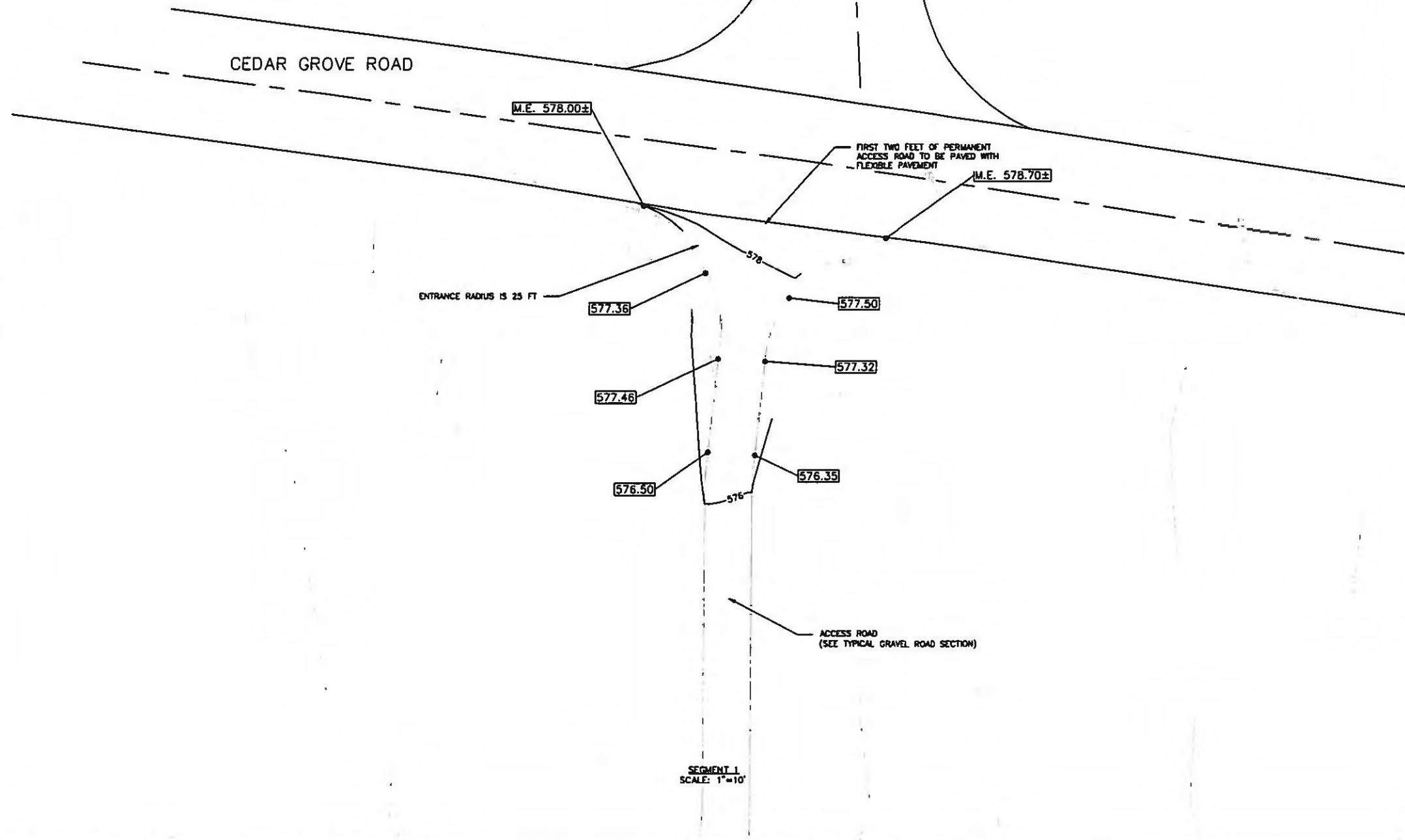




**LEGEND**

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	MAJOR CONTOUR
	MINOR CONTOUR
	BOUNDARY LINE
	SPOT ELEVATION
EX	EXISTING
FG	FINISHED GRADE
M.E.	MATCH EXISTING

- NOTES:**
- EXISTING NON-SURVEYED CONDITIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO CONSTRUCTION.
  - ALL EXISTING FEATURES ARE DENOTED IN GRAYSCALE.
  - CONTRACTOR SHALL PERFORM CLEAN UP AND FINAL RESTORATION IMMEDIATELY UPON COMPLETION OF WORK IN ANY AREA THAT WILL NOT RECEIVE FURTHER OR SUBSEQUENT WORK.
  - ALL EROSION MEASURES SHALL BE IN PLACE PRIOR TO EARTHWORK OPERATION.
  - CONTRACTOR TO ENSURE NEW SURFACES HAVE POSITIVE DRAINAGE, PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING PAVEMENT TO AVOID RIDGES AND DEPRESSIONS.
  - CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES AFFECTED BY CONSTRUCTION ACTIVITIES.
  - EXISTING DRAINAGE CULVERTS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION & NOTIFY ENGINEER OF ANY DISCREPANCIES.
  - CONTRACTOR TO PROVIDE TEMPORARY TIMBER MATTING AT EXISTING AND PROPOSED PIPELINE CROSSING DURING CONSTRUCTION. CONTRACTOR TO PROVIDE MATTING DESIGN AND SPECIFICATIONS FOR CLIENT'S REVIEW AND APPROVAL PRIOR TO USE.
  - ALL GRADE ELEVATIONS ARE FINISHED GRADE UNLESS OTHERWISE NOTED.
  - CMP CULVERT SHALL HAVE 1' MIN COVER AND BE RATED FOR HS-20 LOADING.



DESIGNED IN ACCORDANCE WITH TITLE 48-PART 116 OF ILLINOIS FEDERAL SAFETY STANDARDS AND CODES GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPE SYSTEMS, LATEST EDITION.

DATE	BY	DATE	BY	REVISION	DATE	BY

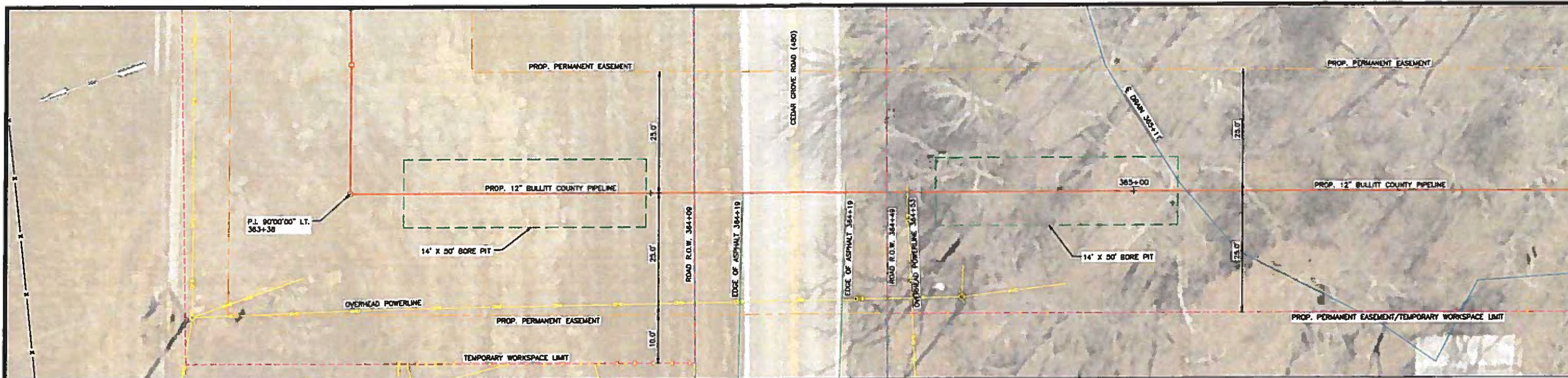
**ENEngineering**  
 28100 TORCH PARKWAY  
 WARRENVILLE, IL 60555  
 TEL. 630.353.4000  
 FAX 630.353.7777  
 WWW.ENENGINEERING.COM

DWG NUMBER	TITLE

<b>LGE</b> a PPL company	
ISSUED FOR BID	PROJECT I.D.
ISSUED FOR CONSTRUCTION	DRAWING SIZE <b>D</b>

<b>12" BULLITT COUNTY PIPELINE PERMANENT ACCESS ROAD FROM CEDAR GROVE RD</b>	
BULLITT COUNTY <span style="float: right;">KY</span>	
DATE	08/23/18
DRWN	JM
CHK. BY	JML
SCALE	FILE NO.
PROJECT ENGR. / PROJECT MGR.	ELW / MDW
<b>LGE-BC-KYTC-X3</b>	
1 OF 1	



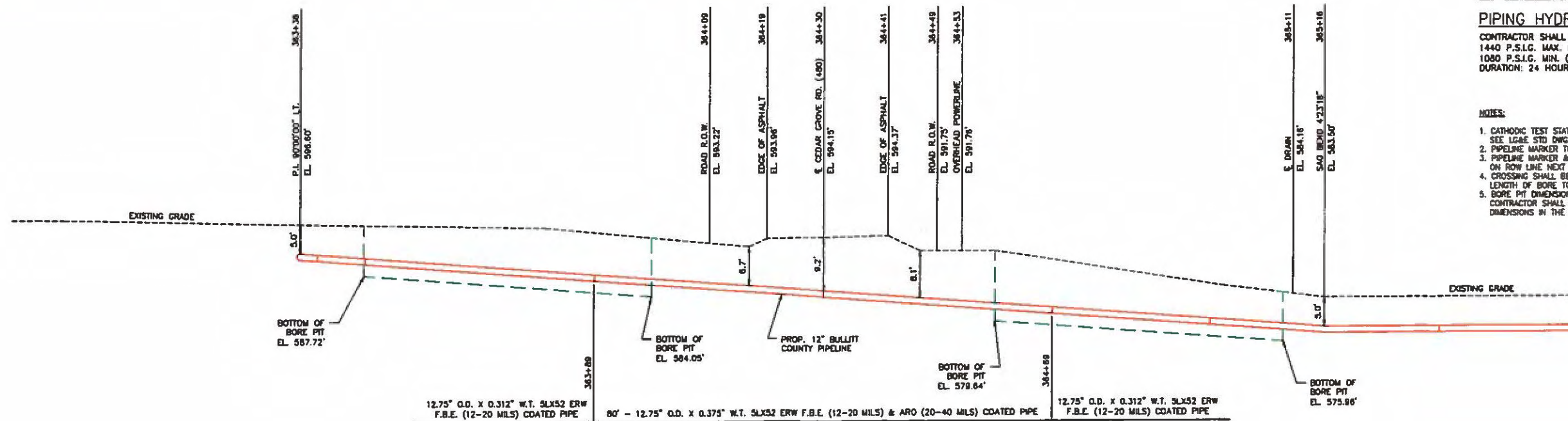


PLAN  
SCALE: 1" = 10'

DESIGN PRESSURE: 720 P.S.I.G.  
DESIGN FACTOR: 0.50  
CORROSION ALLOWANCE: 0.125"

PIPING HYDROSTATIC TEST NOTES:  
CONTRACTOR SHALL HYDROSTATIC TEST 12" PIPELINE TO:  
1440 P.S.I.G. MAX. (2 X DESIGN PRESSURE),  
1080 P.S.I.G. MIN. (1.5 X DESIGN PRESSURE)  
DURATION: 24 HOURS MIN.

- NOTES:
- CATHODIC TEST STATION TO BE INSTALLED. SEE LG&E STD. DRG. NO. GCS 50 20 804.
  - PIPELINE MARKER TO BE INSTALLED.
  - PIPELINE MARKER & TEST STATIONS TO BE INSTALLED ON ROW LINE NEXT TO FENCE IF POSSIBLE.
  - CROSSING SHALL BE INSTALLED BY JACK AND BORE. LENGTH OF BORE TO BE DETERMINED IN THE FIELD.
  - BORE PIT DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE ACTUAL BORE PIT DIMENSIONS IN THE FIELD.



PROFILE  
SCALE: 1" = 10'

CONTRACTOR SHALL INSTALL ALL NEW FACILITIES SHOWN ON THIS DRAWING UNLESS OTHERWISE NOTED.

NO.	DATE	BY	DESCRIPTION	APPROVED
A	08/15/18	JML	ISSUED FOR BID REVIEW	ELW 08/15/18 MDW

**ENEngineering**  
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WARRENVILLE, IL 60555  
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FAX 630.353.7777  
WWW.ENENGINEERING.COM

DWG NUMBER	TITLE
	REFERENCE DRAWINGS

**LG&E**  
a PPL company

ISSUED FOR BID  
ISSUED FOR CONSTRUCTION

PROJECT I.D.  
DRAWING SIZE **D**

**12" BULLITT COUNTY PIPELINE  
BORE CROSSING CEDAR GROVE RD. (480)  
PLAN AND PROFILE**

BULLITT COUNTY KY

SCALE: 1" = 10' DATE: 07/08/17

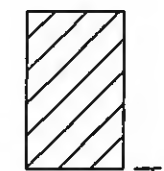
PROJECT NO. / PROJECT I.D.  
ELW MDW

**LGE-BC-HC-E3**  
22 OF 89





CEDAR GROVE ROAD



500'



6084  
CEDAR GROVE ROAD



DATE	BY	DATE	BY	DESCRIPTION	DATE	BY
ISSUED	AS BUILT				APPROVED	

REVISIONS

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 28100 TORCH PARKWAY  
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DWG NUMBER	TITLE
	REFERENCE DRAWINGS

<b>LGE</b> a PPL company	
ISSUED FOR BID	PROJECT I.D.
ISSUED FOR CONSTRUCTION	DRAWING SIZE <b>D</b>

<b>12" BULLITT COUNTY PIPELINE CEDAR GROVE RD. UTILITY CROSSING TEMPORARY TRAFFIC CONTROL PLAN</b>			
BULLITT COUNTY		KY	
DATE	SCALE	DATE	SCALE
08/28/18	NONE		
PROJECT ENGR. / PROJECT MGR. ELW / MDW	FILE NO. <b>LGE-BC-KYTC-X1</b>	1 OF 1	