



COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

April 26, 2019

LG&E -- Dillion Graff
6900 Enterprise Dr.
Louisville, Ky. 40214

Project ; 665 Clarks Ln
Shepherdsville, KY. 40165

Permit ; # 05-2019-00683

Your application for an encroachment permit has been approved by the Department of Highways. We are returning (2) copies of the approved permit. One copy of the permit is for your record and files, the other is to be on the work site at all times. Failure to have this permit at the site could result in a stop-work order by the Department of Highways.

The "Manual on Uniform Traffic Control Devices" (MUTCD) is the accepted national standard for all traffic control. All traffic control measures used must be in compliance with the MUTCD.

Please contact this office prior to beginning the work and also when the work has been completed. Please see that work is done in strict conformity with the permit and any other applicable conditions (see form TC99-21 and any other attached documents, conditions, or specifications). The permit will be released when the permitted work and any necessary restoration has been completed.

Please contact this office if you have any questions.

Sincerely,

Jason Richardson
502 210-5437
District 5 Permits
Traffic Engineering and Permits

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

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

Applicant Identification	Project Identification
Name: Louisville Gas & Electric Co	Permit: 05-2019-00683
Contact: Dillion Graff	County: Bullitt
Address: 6900 Enterprise Dr.	Route#: KY 1442
City: Louisville	Location; 665 Clarks Ln Shepherdsville, , Ky. 40165
State: KY	Coordinates: -85.571053 37.980104
Zip: 40214	Telephone: 502-364-8368

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

_____ Date
Applicant

Please Return To: Department of Highways
District 5 Louisville
8310 WESTPORT RD
Louisville, Ky. 40242

Attention: Traffic Engineering and Permits

**This form must be returned to the state for final inspection to occur.
Upon approval of final inspection all indemnities will be released from the
State.**



APPLICATION FOR ENCROACHMENT PERMIT

KYTC KEPT #: 05 2019 00683

SECTION 1: APPLICANT CONTACT INFORMATION

NAME LGE PERMITS	ADDRESS 6900 Enterprise Dr	CITY Louisville
EMAIL LGE-PERMITS@LGE-KU.COM		STATE KY
		ZIP 40214
CONTACT NAME 1 Dillon Graff	EMAIL Dillon.Graff@lge-ku.com	PHONE # 502-398-0107
		CELL #
CONTACT NAME 2 (if applicable) <u>Steve Bentz</u>	EMAIL	PHONE #
		CELL #

SECTION 2: PROPOSED WORK LOCATION

ADDRESS 665-722 Clarks Ln	CITY Shepherdsville	STATE Kentucky	ZIP 40165
COUNTY Bullitt	ROUTE # KY-1442	MILE POINT 5.772-7.101	LONGITUDE (X) -85.571053
		LATITUDE (Y) 37.980104	

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-1442 at 665 - 722 Clarks Ln . We will install a temporary construction entrance on east side of KY-1442 and open cut installation of 12.75" OD X 0.375" WT 5LX52 HFW FBE and ARO coated natural gas pipe to a min. cover of 5'.

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]
SIGNATURE

4-9-19
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

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.



Know what's below. Call before you dig.

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



Kentucky Transportation Cabinet
 Department of Highways
 Permits Branch

ENCROACHMENT PERMIT

KEPTS No.: 05-2019-00683

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

Latitude: 37.980104

Longitude: -85.571053

Completion Date: 04/17/2020

TRT 04-22-2019

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

Indemnities		
Type	Amount Required	Tracking Number
Performance Bond	\$6,000.00	
Payment Bond		
Liability Insurance		

This permit has been:

APPROVED DENIED

Jason Richards TE SUPERVISOR
 NAME TITLE

[Signature] 5/2/19
 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.

ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

I. SAFETY

A. General Provisions

- All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, latest edition, Part 6, and safety requirements shall comply with the KYTC Permits Manual. Federal law requires that traffic control shall be implemented in accordance with MUTCD standards, KYTC's Standard Specifications for Road and Bridge Construction (KYTC SSRBC), current edition and under the supervision of a certified Work Zone Traffic Control Supervisor.
- All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly completed so that hazards adjacent to the traveled way are kept to an absolute minimum.
- No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All signs, flaggers and other devices during lane closures shall conform to the MUTCD. The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility. No non-construction equipment or vehicles or office trailers shall be allowed on the right of way during working hours. The right of way shall be left free and clear of equipment, material, and vehicles during non-working hours.
- When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, snow, fog, etc.) without specific permission from the Department.
- Normal working hours for lane closures shall be between 9:00 A.M.—3:00 P.M., weekdays. All exceptions regarding lane closures and working hours must be submitted and approved in advance by the Department.
- All materials and methods of construction shall be in accordance with the latest edition of the KYTC SSRBC.
- Date and time restrictions pertaining to this permit are as follows:

B. Explosives

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

C. OSHA

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

D. Archaeological

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

E. Environmental

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

II. UTILITIES

- The permittee shall be responsible for any damage to existing utilities. Any utility modifications or relocations within state right of way necessary, as determined by the Department or by the owner of the utility, shall be at the expense of the permittee and subject to the approval of the Department.
- All existing manholes and valve boxes shall be adjusted to be flush with finished grade.
- Encasement pipe shall conform to current standards for highway crossings in accordance with the KYTC Permits Manual. Pipe encasing shall not be required if the pipe interior diameter is 2" or less.
- Parallel utilities shall be constructed between back slope of ditch line and right-of-way line and shall have a minimum of 36" cover above top of pipe or conduit.
- All pavement cuts shall be restored per KYTC SSRBC and the District 5 Pavement Restoration drawing.
- Aerial crossing of utility lines shall have a minimum clearance of 24' from the high point of the roadway to the low point of the line.
- The clear zone requirement shall be met to the extent possible in accordance with the AASHTO Roadside Design Guide.
- The minimum depth for underground utilities is 42" under roadways, ramps, and ditch lines, and a minimum depth of 36" in all other areas within state right of way except for natural gas and petroleum fraction lines.
- Natural gas and petroleum fraction lines require a minimum depth of 60" under roadways, ramps, and ditch lines and a minimum depth of 42" cover when located outside of ditch lines.
- Any excavation within 3' of edge of pavement will require flowable fill as backfill. Flowable fill shall be in accordance with the KYTC SSRBC.

Utility notes specific to fully-controlled access highways ONLY:

- All work necessary within the right-of-way shall be performed behind a temporary woven wire fence erected prior to the start of work. The temporary 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 the 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" deep. Work in interstate right-of-way requires approval from Federal Highway Administration (FHWA).

III. DRAINAGE

- Any negative impact to existing drainage will be the applicant's responsibility to repair in accordance with the KYTC SSRBC.
- All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of installation including bedding and joint seating.
- Ensure no standing water on or along any new construction, regardless of existing conditions. This includes, but is not limited to: curb & gutter, header curb, entrances, sidewalk ramps, etc. If pooling water or evidence of such is found during the final inspection, the Permittee will be required to remedy prior to release of the permit.
- All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall conform to the KYTC SSRBC and shall be constructed in accordance with the KYTC Standard Drawings.

IV. PAVING

- No bituminous pavement shall be installed within the right of way between November 15 and April 1, nor when the temperature is below 40 degrees Fahrenheit, without the express written 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) _____
 - Base (Type): _____, (Thickness) _____
 - Base (Type): _____, (Thickness) _____
 - Finished Surface (Type) _____, (Thickness) _____

• ***Paving requirements specific to this permit:***

- Any permittee performing road cuts must restore the pavement to pre-existing conditions. Pictures/videos are recommended to ensure proper placement of signs and pavement markings that are temporarily removed for paving operations. In some cases, a pre-work inventory may be requested from the Department. Per Section 713 of the KYTC SSRBC, prepare and keep a written record of the locations of existing pavement markings, and furnish a copy to the Department before removing or obliterating the markings. Notify the Department a minimum of 14 calendar days prior to re-installing the final markings to verify if any modifications are needed.
- Existing pavement and shoulder material shall be removed to accommodate the above paving specifications. Existing pavement shall be removed until full depth mainline pavement is encountered to prevent any deficient sections. If field conditions do not match the plan and additional removal is required to ensure full depth pavement, contact the Department for approval of removal limits.
- The finished surface of all new pavement within the right-of-way shall be true to the required slope and grade, uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent highway pavement or as determined by KYTC or the KYTC SSRBC.
- All materials and methods of construction, including base and subgrade preparation, shall be in accordance with KYTC's Standard Specifications. Notify the Department a minimum of 48 hours prior to beginning paving operations.

Phone: 502-210-5400; Permits Section

- 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 the KYTC SSRBC (latest edition), shall be applied between new and existing pavements. Ensure the remaining pavement section is sufficient and matches the planned section. If the existing pavement section is thinner, contact the Department prior to continuing construction to determine if additional pavement needs to be removed.

V. ENTRANCES

- KYTC does not take responsibility for any plans associated with an approved permit. All plans shall be reviewed and stamped by a Professional Engineer and shall conform to all KYTC and any other applicable standards. Even after approval of the permit, if the Department finds any of the construction requires modification to meet standards or if a design or construction flaw is discovered, direction will be given to the Permittee and the change performed at no cost to the Department.
- Encroachment permits issued by KYTC in no way supersede local planning/zoning requirements or subdivision regulations. KYTC has no authority with zoning changes.
- Commercial entrances must be paved to the right-of-way line. Any deviations must be approved by KYTC before installation.
- KYTC can dictate drainage improvement installation during construction or after the 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 the entrance is open for traffic. Lane width modifications must be approved by the Department.

VI. TRAFFIC

- Any contractor performing work within the vicinity of KYTC roadway lighting / school zone flashers or any Intersection with a traffic signal, must request locates from the KYTC District 5 Traffic section at least **two (2)** weeks prior to starting work in the right of way.
- The applicant must document the condition of all KYTC Roadway signage that is within the work area, prior to beginning work. The applicant must ensure that any signs impacted by the permitted work remain in place, whenever possible and remain undamaged. In the event that any signs have to be removed, it is the applicant's responsibility to document the sign's location before removal and to install the original or new sign per KYTC Standards for sign installation at the same or approximate location. If any questions arise about sign placement, the applicant must contact the District 5 Traffic section for comments.
- Any thermoplastic or striping damaged during the encroachment must be restored in a timely manner per KYTC SSRBC. Stop bars, arrows, words and crosswalks shall be thermoplastic material and all markings must be replaced / refreshed in their entirety. This work must be performed by a KYTC pre-qualified contractor.
- Any work within 10' of a pole, pole base or traffic facility must receive prior approval from the District 5 Traffic Engineer. Excavating near a signal, lighting pole or anchoring facility must be done so that it does not impact the structural integrity of the pole or base. The applicant must show calculations and plans for the excavation before receiving approval.
- If the scope of the permit involves a signal build or rebuild, it is the applicant's responsibility to apply for any required electrical service & pay for any associated fees, as well as request a field inspection and activation from the KYTC District 5 Traffic section. If the signal modifications require timing or phasing changes, this must be requested at least **two (2)** weeks in advance of the desired change. Applicant will be required to provide variable message boards for all approaches to notify motorists of the signal's activation, at least **two (2)** weeks prior to the 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 5 Traffic signal section at 502-210-5424. Accidental damage of a traffic loop must be reported immediately to the KYTC District 5 Traffic signal section at 502-210-5424 (Evenings / Weekends - 502-564-2080). Traffic loops out of operation for more than five working days will subject the applicant to the possible cancellation of the permit and a claim against the bond for the cost of the repairs. Loop repair must be performed by a KYTC pre-qualified contractor and must be coordinated with the KYTC District 5 Traffic section.

VII. SIDEWALK SPECIFICATIONS

A. New Sidewalks

- Sidewalks shall be constructed of Class A concrete (3,500 p.s.i.), shall be a minimum of 5' in width, 8" in thickness across the bituminous entrance, and 4" in thickness across the remaining sections. The width of the sidewalk must meet current ADA (Americans with Disabilities Act) guidelines.
- Sidewalks shall have tooled joints not less than 1" in depth at five (5') foot intervals, and premolded expansion joints extending entirely through the sidewalk at intervals not to exceed 50'. See more in Section 505 of the KYTC SSRBC for information relating to this requirement.
- All new sidewalk construction will be inspected utilizing a 24" long digital inclinometer, with data measured to the tenth of a percent-grade accuracy.

B. Existing Sidewalks

- Use of the sidewalk shall not be blocked or obstructed and a usable walkway shall be maintained across the construction area at all times per ADA requirements and MUTCD specifications. Sidewalk closures must be approved by the Department before implementation.
- The location and design of ADA ramps (truncated domes/tactile warnings/etc.) will need to be field verified by the Department before installation. Any retrofitting will require the adherence to current ADA guidelines. If field conditions do not match the plans, contact the Department for approval of any modifications.
- Any section of sidewalk that becomes damaged shall be entirely replaced to match existing sections.

VIII. RIGHT OF WAY RESTORATION

- All disturbed portions of the right of way shall be restored to grass as per KYTC SSRBC (latest edition). A satisfactory turf, as determined by the Department, shall be established by the permittee prior to release of indemnity. Sodding or seeding shall be as follows:
 - Lawn or High Maintenance Situation: 70% Lawn Fescue (e.g., variety - Falcon) and 30% Bluegrass or 70% Lawn Rye (e.g., variety - Derby) and 30% Bluegrass
 - Right of Way Lawn Maintenance Situation: 70% KY 31 Fescue and 30% Perennial Rye Grass or 100% KY Fescue
- Two tons of clean straw mulch per acre of seeding.
- Prior to seeding, the ground shall be prepared in accordance with the KYTC SSRBC (latest edition).
- Substitutes for sod such as artificial turf, rocked mulch, or paved areas may be acceptable if they are aesthetically pleasing and receive prior approval from KYTC.
- All ditch-flow lines and all ditch-side slopes shall be sodded.
- Existing concrete right of way markers shall not be disturbed. If damaged in any way, they shall be entirely replaced by the permittee with new concrete markers to match the original markers, in accordance with Kentucky Department of Highways Standard Drawing for Right-Of-Way Monuments (current version). Markers that are entirely removed shall be re-established in the proper locations by the permittee and to the satisfaction of the Department. All right of way monuments must be installed by a licensed Land Surveyor.

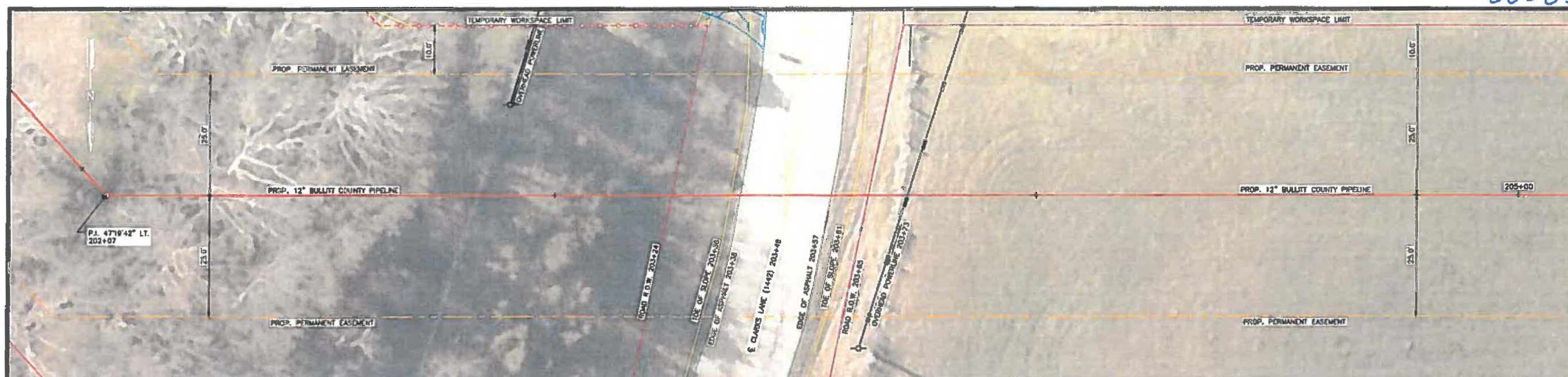
IX. RIGHT OF WAY FENCE RESTORATION

- The replacement fence shall be a height of at least 48" and shall be of sufficient density to contain all animals (if applicable).
- The replacement fence shall be a minimum of 1' and a maximum of 2' outside the right-of-way line.
- The fence materials and design shall meet accepted industry standards and be treated as paintable. Durable finish materials such as vinyl are also acceptable.
- The permittee shall be required to maintain the fence in a high state of service. Access from the roadway for the purpose of maintenance will not be allowed. All work on the fence must be accessed from private property.
- The existing fence shall be removed by permittee and stored at the Department's maintenance storage yard for future reuse by the Department. If not, the Department must be reimbursed for the cost of the fence removed from the site.

NOTICE TO PERMITTEE

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

00683

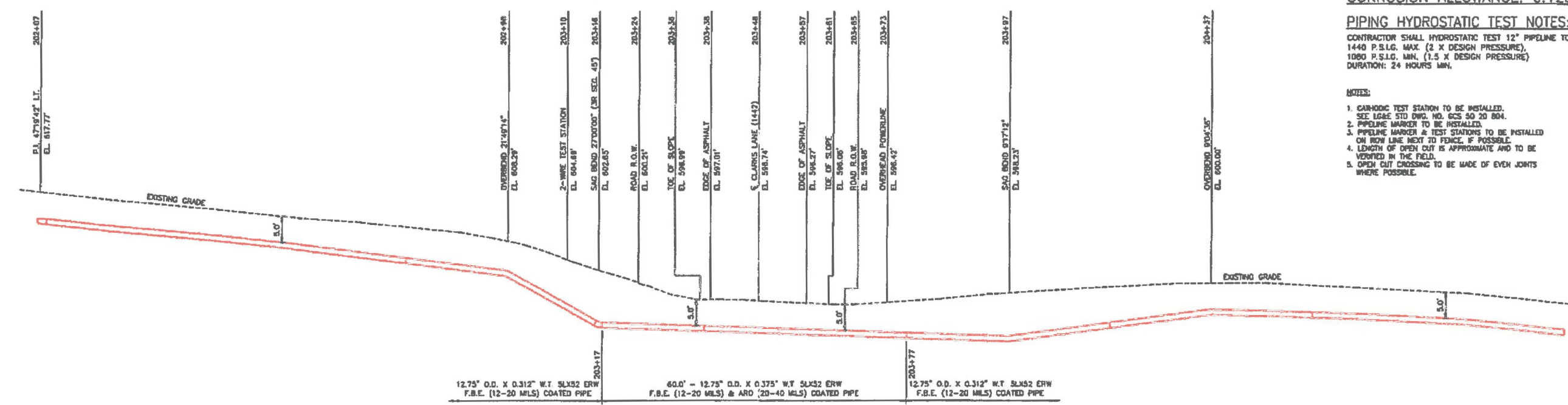


PLAN
SCALE: 1" = 10'

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),
1000 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 DWG. NO. GCS 50 20 B04.
 - PIPELINE MARKER TO BE INSTALLED.
 - PIPELINE MARKER & TEST STATIONS TO BE INSTALLED ON ROW LINE NEXT TO FENCE, IF POSSIBLE.
 - LENGTH OF OPEN CUT IS APPROXIMATE AND TO BE VERIFIED IN THE FIELD.
 - OPEN CUT CROSSING TO BE MADE OF EVEN JOINTS WHERE POSSIBLE.



PROFILE
SCALE: 1" = 10'

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

NO.	DATE	BY	CHKD.	APPV.	DESCRIPTION

REVISIONS

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

NO.	DATE	BY	CHKD.	APPV.	DESCRIPTION

REFERENCE DRAWINGS

LG&E
a PPL company

ISSUED FOR BID	PROJECT I.D.
ISSUED FOR CONSTRUCTION	DRAWING SIZE D

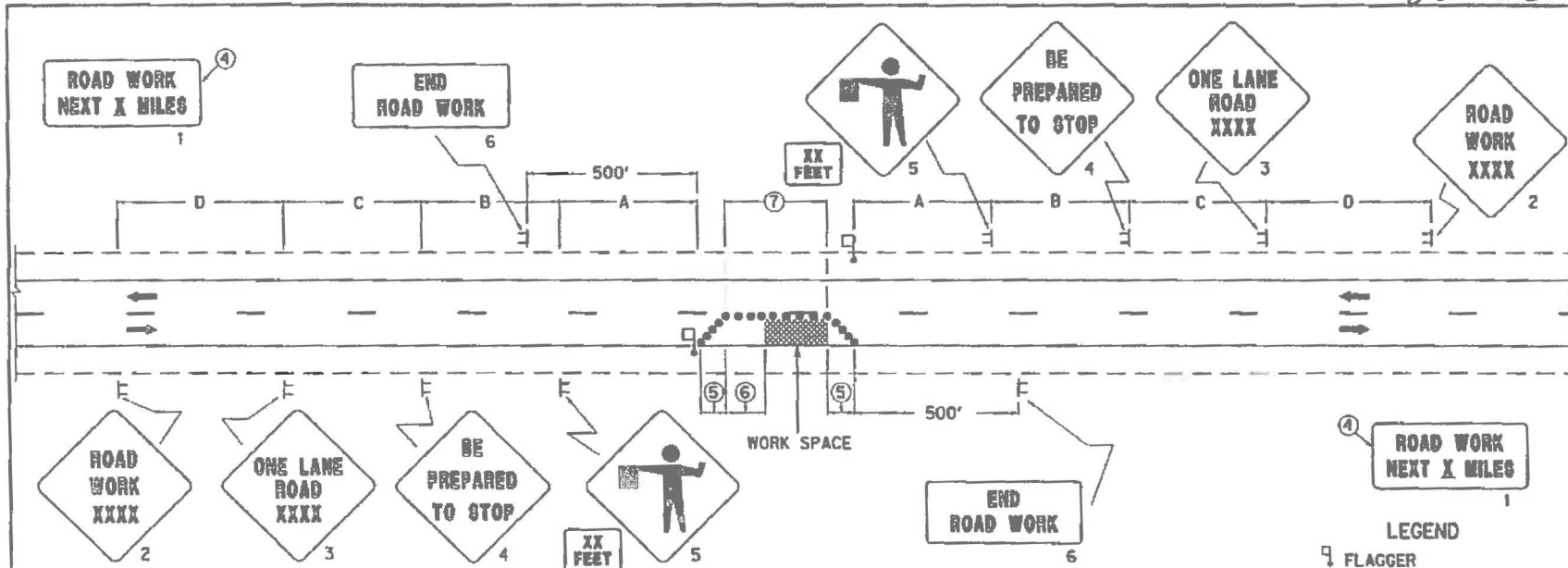
**12" BULLITT COUNTY PIPELINE
OPEN CUT CROSSING CLARKS LN. (1442)
PLAN AND PROFILE**

BULLITT COUNTY KY

DESIGNER	CHKD. BY	SCALE	DATE
BK	ELW	1" = 10'	08/20/18
PROJECT MGR.	PROJECT MGR.	FILE NO.	
ELW	MDW	LGE-BC-HC-E2	

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10683



~ NOTES ~

1. THE SIZE OF SIGNS 2 THRU 5 SHALL BE 48" X 48" WITH 30" X 24" SUPPLEMENTAL PLAQUES FOR EXPRESSWAYS/FREEWAYS. THE MINIMUM SIZE OF SIGNS 2 THRU 5 SHALL BE 36" X 36" WITH 24" X 18" SUPPLEMENTAL PLAQUES FOR OTHER ROADWAYS. SIGN NOS. 1 AND 6 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. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATIONS SHALL BE LOCATED FAR ENOUGH IN ADVANCE OF THE ACTIVITY AREA SO THAT APPROACHING ROAD USERS WILL HAVE SUFFICIENT DISTANCE TO STOP BEFORE ENTERING THE WORK SPACE. ILLUMINATION SHALL BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT.
3. DRUMS OR TYPE II BARRICADES SHALL BE USED IN LIEU OF CONES OR TUBULAR MARKERS IF CLOSURE EXTENDS INTO NIGHTTIME HOURS.
- ④ SIGN NO. 1 SHOULD BE INSTALLED AT THE LIMITS OF THE PROJECT WHEN THE CONSTRUCTION ZONE IS LONGER THAN TWO MILES IN LENGTH. THE DISTANCE SHOWN SHALL BE STATED TO THE NEAREST WHOLE MILE.
- ⑤ TAPERS SHALL BE 50' (MIN) TO 100' (MAX) IN LENGTH. SPACING OF CHANNELIZING DEVICES SHOULD BE 20' THRU THE TAPER AREAS.
- ⑥ BUFFER SPACE (OPTIONAL). IF USED, THE BUFFER SPACE SHOULD BE EXTENDED SO THAT THE TWO-WAY TRAFFIC TAPER IS PLACED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGER AND A QUEUE OF STOPPED VEHICLES. REFER TO TABLE 6C-2 OF THE MUTCD FOR GUIDANCE ON BUFFER SPACE LENGTH.
- ⑦ SPACING OF CHANNELIZING DEVICES THRU THE ACTIVITY AREA SHOULD BE 80'. ON ROADWAYS WITH WIDTHS LESS THAN 20 FEET, CHANNELIZING DEVICES MAY BE OMITTED THRU THE ACTIVITY AREA BASED ON ENGINEERING JUDGMENT.
8. WHEN NIGHTTIME WORK IS BEING PERFORMED, FLOODLIGHTS SHOULD BE USED TO ILLUMINATE THE WORK AREA.

- LEGEND**
- FLAGGER
 - ⊥ SIGN
 - CHANNELIZING DEVICES
 - CONES
 - DRUMS
 - TYPE II BARRICADES
 - TUBULAR MARKERS

DRAWING NOT TO SCALE

BID ITEMS AND UNIT TO BID
 LANE CLOSURE EACH
 BARRICADE-TYPE I EACH
 REFER TO SECTION 112 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.

SIGNING AND SPACING TABLE				
ROAD TYPE	A	B	C	D
EXPRESSWAY/ FREEWAY	1000'	500'	1100'	2600'
SP. LT. ≥ 45 MPH*	500'	500'	500'	1100'
SP. LT. < 40 MPH*	250'	250'	250'	250'

*NOTE: USE NORMAL POSTED SPEED LIMIT

APPLICATION

THIS DRAWING APPLIES TO LANE CLOSURES ON TWO-LANE, TWO DIRECTION HIGHWAYS.

KENTUCKY
 DEPARTMENT OF HIGHWAYS

**LANE CLOSURE
 TWO-LANE HIGHWAY**

STANDARD DRAWING NO. TTC-100-04

SUBMITTED BY: *B. J. ...* DATE: 12-01-15
 APPROVED BY: *[Signature]* DATE: 12-01-15