

Excavation Permit Application

Permit #

City of Kirkwood 139 South Kirkwood Road (314) 822-5822

Address of Excavation:	
Reason for Excavation:	
	Estimated Completion Date:
Contractor Name:	Contractor License #:
Address:	Contractor License #: City/State/Zip:
Phone:En	nail Address:
24 Hour Emergency Contact:	nail Address:24 Hour Emergency Phone:
House House (Grass)	e House Reserved for City Use
(Pavement)	N
(Grass) House House	e House
trees (public or private) within 20 feet	res, excavation dimensions, temporary traffic control devices and any tof the work area. See Tree Protection Requirements on Notice.
	dthFeet = Square Feet:X \$5/SF (\$250 Minimum) dthFeet = Square Feet:X \$25/SF (\$750 Minimum) DO Maximum) Excavation Permit Fee \$100
right-of-way and hereby agree to comply safety devices and signs to warn and prot the private or public utilities or other faci be performed in accordance with the info	ces of the City of Kirkwood pertaining to excavations and work in the public with all provisions of the ordinances of the City of Kirkwood and provide all tect the public. I hereby certify I have the legal right to perform such work or lities with the full permission and understanding of the owner. The work shall be the compact of the permit application and all City codes. Countries of the City of Kirkwood and provide all city codes. Countries of the City of Kirkwood and provide all city codes. Countries of the City of Kirkwood and provide all city of Kirkwood and provide all city codes.
Applicant's Signature	Applicant's Printed Name Date
 INSPECTIONS: Contact appropriate company, depart performed prior to backfilling 	ment or Building Commissioner's Office for an inspection of the utility work

- An <u>initial inspection</u> is required after the excavation has been backfilled and is ready for placement. **The** Engineering Department shall be notified (314-822-5822) 48 hours prior to pavement replacement. Deposits will be forfeited if pavement is placed without the proper inspection.
- After the work is complete, the contractor shall notify the Engineering Department (314-822-5822) to **perform** a <u>final inspection</u>. If the restoration passes the final inspection, the City shall release the deposit. If the restoration fails the final inspection, the contractor will be notified in order to address the deficiencies.

Failure to request inspection within one year shall result in loss of full deposit.

	OFFICE U	SE ONLY	
Approved by	on	Comments:	
Contractor notified by	on		
	Deposit Paid/Ref	und Information:	
Paid by:	Refun	d Address:	
Date requested for Final Inspection:		By:	
Final Inspection approved by:		Cost of repairs: \$	
Amount of Deposit Refund: \$	Check #:	Date mailed	

NOTICE TO CONTRACTORS

Contractors performing excavations in public right-of-way shall perform work in accordance with Chapter 20 of the Kirkwood Code of Ordinances. Failure to follow these conditions will result in a Stop Work Order until conditions are corrected or a forfeiture of the excavation deposit.

TREE PROTECTION REQUIREMENTS

- All trees, public or private, within 20' of the work area must be shown on the plans/sketch and protected according to Kirkwood Code of Ordinances Chapter 24, Tree Code.
- Work within 20' of public trees will be reviewed for protection, maintenance or removal recommendations by the Urban Forester. Recommendations must be followed.
- Requests for Removal of a public tree must be approved by the Urban Forestry Commission and the City Forester.
- All work on public trees other than tree protection must receive a permit to maintain/remove from the City Forester.
- Failure to comply with tree protection requirements will result in penalties in accordance with the Kirkwood Code of Ordinances Chapter 24, Tree Code.

TEMPORARY TRAFFIC CONTROL

- A site plan shall be submitted with the permit application showing the location and dimensions of proposed excavation and temporary traffic control device placement.
- Excavation operations which reduce the traveled <u>lane width</u> to less than 10' shall require flagmen and corresponding signage per the MUTCD, latest edition.
- If an excavation requires the closure of the entire roadway, the contractor shall submit a detour route with proposed detour signage on a City street map to the Engineering Department for approval prior to closure of the road. Minor streets may be closed during the hours of 9 a.m. to 4 p.m. All work on Kirkwood Road, Geyer Road, Dougherty Ferry Road, Woodlawn Avenue, Essex Avenue, and Woodbine Avenue shall only take place between the hours of 9 a.m. and 3 p.m.
- The contractor shall notify the Kirkwood Police Department at 314-822-5865 for road closures.
- Excavations that occur in the public sidewalk or cause the public sidewalk to be impassable shall be barricaded and "Sidewalk Closed" signage shall be placed at each block end and the excavation.
- All excavations shall be barricaded to protect the public from entering the work area.
- Failure to properly pin, sign, and asphalt edge steel plates covering excavations open to traffic will result in the forfeiture of the excavation deposit. (See attached Standard Drawing)

EXCAVATION, BACKFILL AND RESTORATION

- All excavated material shall be immediately removed from the site.
- After approval of the work, the excavation shall be filled with 2" minus crushed stone or 2" clean stone compacted in 6" lifts or flowable fill. Backfill material shall be on site and inspected by Engineering Department or Water Department when inspection of the work is performed.
- Asphaltic concrete pavement shall be full depth saw cut for a straight, square edge, 2' larger on all sides of the excavation. A
 7" thick Portland cement concrete base shall be primed and capped with a 2" thick asphaltic concrete wearing surface.
 Meramec sand and "C" gravel required in all Portland cement concrete. Joints between new pavement and existing
 pavement shall be sealed with a polymer-based hot-poured elastic-type meeting specification requirements of ASTM
 D6690 Type I and/or Type II5.
- Concrete pavement shall be replaced with Portland cement concrete to a joint or saw cut edge 2' larger than the excavation on all sides. Meramec sand and "C" gravel required in all Portland cement concrete. Joints between existing pavement and new pavement shall be sealed with a polymer-based hot-poured elastic-type meeting specification requirements of ASTM D1190 and/or ASTM D3405.
- Concrete pavement requires full panel replacement if one or more of the following conditions exists: (1) Any arterial street less than 15 years old or any street less than ten years old; (2) any slab where the cut removes more than 1/3 of the slab; (3) any diagonal cut; (4) any slab where the proposed cut will leave the slab with three or more pieces; and (5) any trenching that transverses any arterial..
- Any pavement markings disturbed by the excavations shall be replaced to City standards.
- Parkways outside of the paved area shall be backfilled with compacted earth, fine graded, and returned to original condition by sodding. Sod shall be watered and maintained by contractor.
- Curbs shall be replaced with like material to the shape and style of the existing curbs to sawed cut straight edge or joint. Excavations within 3.5' of back of curb will require replacement of the pavement through the curb.
- Proper restoration shall be guaranteed by contractor for 30 days after completion.



Temporary Traffic Control for Low Speed Urban Streets

The following is guidance only for the implementation of temporary traffic control for work zones in the City of Kirkwood. All entities working in the public right- of-way are required to meet the standards for temporary traffic according to the Manual on Uniform Traffic Control Devices (MUTCD), Latest Edition.

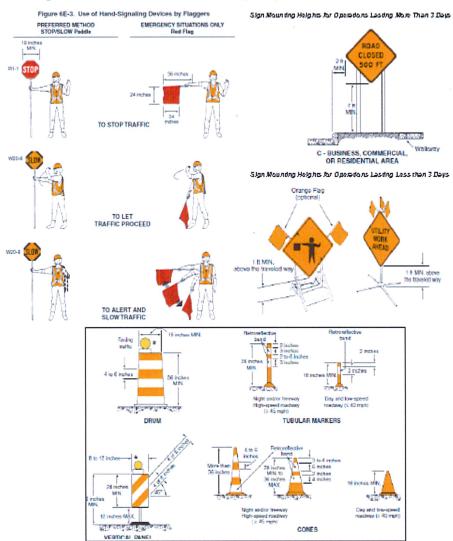


Table 6C-1. Recommended Advance Warning Sign Minimum Space

Road Type	Distance Between Signs**			
	A	8	C	
Urban (low speed)*	100 feet	100 feet	100 feet	
Urben (high speed)*	350 feet	350 feet	350 Seet	
Rurd	S00 feet	500 feet	500 feet	
Expressurey / Freedowy	1/000 feet	1,500 feet	2,650 lest	

Speed correptly to be determined by the highway agency.
The column headcap. A B and C see the determined above in Figures disk financial 66-66. The A discussion is the first sign. The B discussions in the invasion or part of execution in the first sign. The B discussion is the distriction of the district between the district between the district between the district between the second and third sign. (The Wall sign is the sign in attracting there exist in the district to disself to the TTC zone.)

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

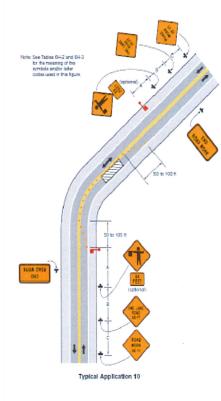


Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)

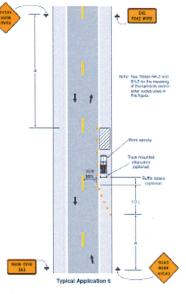


Figure 6H-1, Work Beyond the Shoulder (TA-1)

