



Excavation Permit

Permit # _____

CALL 314-822-5822 FOR INSPECTION, 24 HR NOTICE REQUIRED

Site Address (Project name if applicable): _____

Purpose of Excavation: _____ Start Date: _____

Contractor Name: _____ Contractor License #: _____

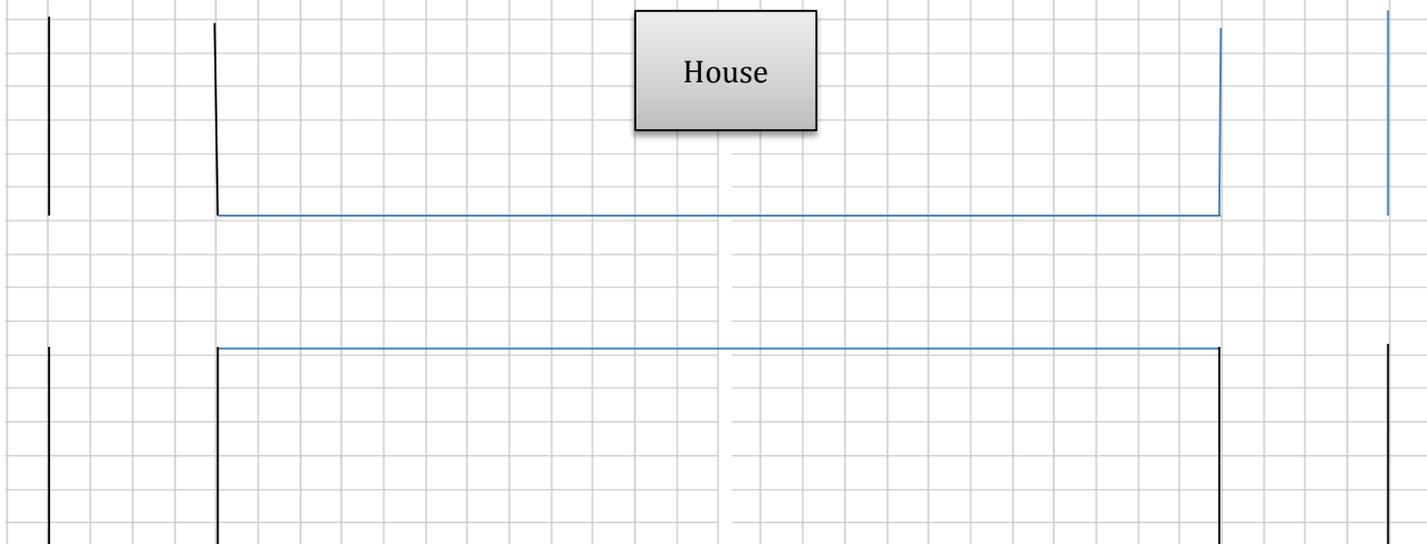
Address: _____ City/State/Zip: _____

Phone: _____ Email Address: _____

24 Hr Emergency Contact: _____ 24 Hr Emergency Phone: _____

Note: Failure to promptly respond to an excavation issue in the Public Right-of-Way may result in loss of deposit and legal action

**Please submit drawing or draw work to be done at location. Show excavation dimension, distance from a landmark, and temporary traffic control devices and any tree, public or private within 20' of the work area (see Tree Protection Requirements on back.)*



Grass: Length _____ Ft x Width _____ FT = Square Feet: _____ X \$5/SF _____

Pavement: Length _____ Ft x Width _____ FT = Square Feet: _____ X \$25/SF _____

Deposit Amount: \$ _____ (Grass-Minimum \$250; Pavement-Minimum \$750; Maximum - \$5,000)

Excavation Inspection fee \$100.00

*I have read and understand the ordinances of the City of Kirkwood pertaining to excavations and work in the public right-of-way and hereby agree to comply with all provisions of the ordinances of the City of Kirkwood and provide all safety devices and signs to warn and protect the public. I hereby certify I have the legal right to perform such work on the private or public utilities or other facilities with the full permission and understanding of the owner. The work will be performed in accordance with the information on this permit application and all city codes; and further I recognize the City's authority to perform any correction work that I fail to perform in accordance with city codes and this application and charge me accordingly. **Failure to request inspection within one year shall result in loss of full deposit.***

Applicant's Signature

Applicant's Printed Name

Date

OFFICE USE ONLY

Approved by: _____ Date: _____ Comments: _____

Deposit Paid/Refund Information:

Name: _____ Refund Address: _____

Date requested for Final Inspection: _____ By: _____

Final Inspection approved by: _____ Cost of repairs: \$ _____

Amount of Deposit Refund: \$ _____ Check # _____ By: _____ 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 Urban Forester.
- All work on public trees other than tree protection must receive a permit to maintain/remove from the Urban 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 **lane width** 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.
- Excavations which 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.**

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.**
- 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.

Inspections

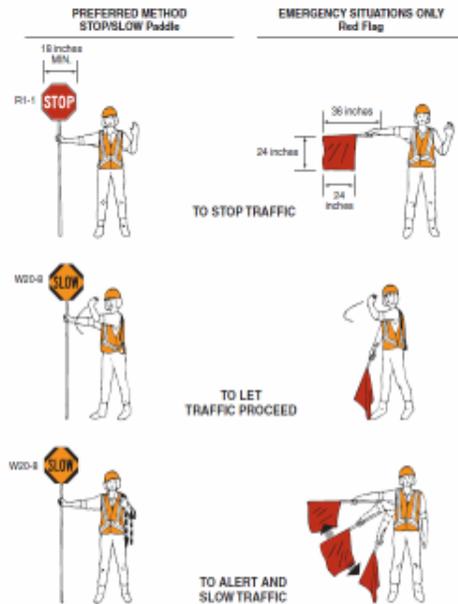
- An inspection of the utility work performed is required prior to backfilling. Contact appropriate department.
- An inspection is required after the excavation has been backfilled and is ready for placement. The Engineering department shall be notified 24 hours in advance of pavement replacement. Deposits will be forfeited if pavement is placed without the proper inspection.
- The contractor shall notify the Engineering Department to perform a final inspection. If the restoration passes the final inspection, the City shall release the deposit. If the restoration fails the final inspection, the City will perform the repairs and deduct said repairs from the deposit (minimum charge of \$200). Failure to request inspection within one year shall result in loss of full deposit.



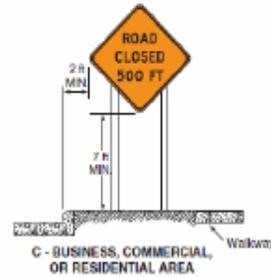
Temporary Traffic Control for Low Speed Urban Streets

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.

Figure 6E-3. Use of Hand-Signaling Devices by Flaggers



Sign Mounting Heights for Operations Lasting More Than 3 Days



Sign Mounting Heights for Operations Lasting Less than 3 Days

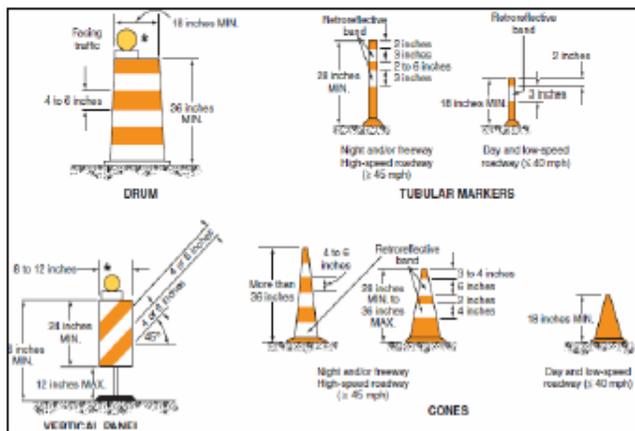
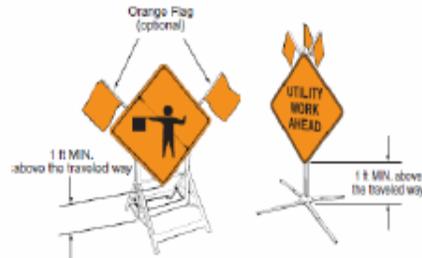


Table 6C-1. Recommended Advance Warning Sign Minimum Spacing

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)**	100 feet	100 feet	100 feet
Urban (high speed)**	300 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,000 feet

** Speed category to be determined by the highway agency
 ** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-6. The A dimension is the distance from the location or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" in the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

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

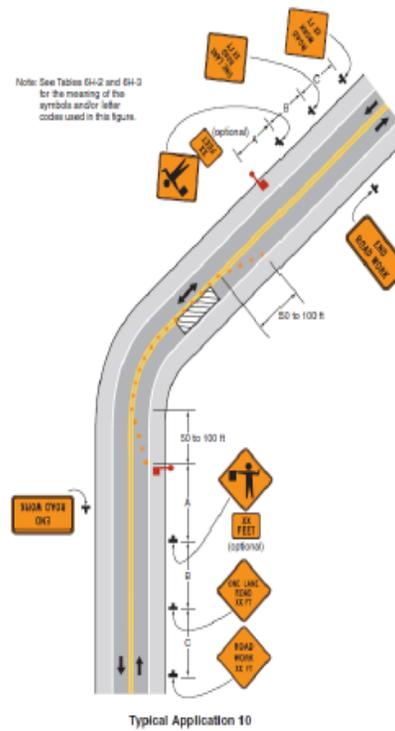


Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)

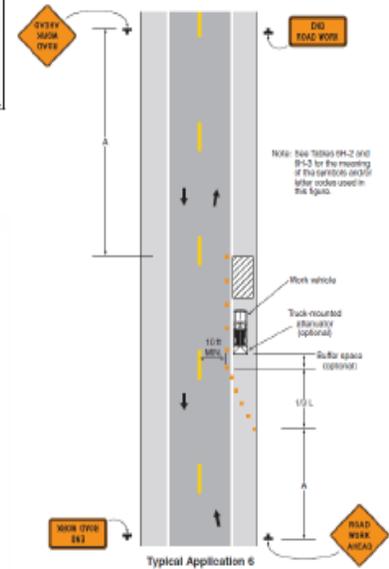


Figure 6H-1. Work Beyond the Shoulder (TA-1)

