

MONTGOMERY COUNTY SPECIFICATIONS FOR UTILITY CONSTRUCTION PERMIT

DEPARTMENT OF PERMITTING SERVICES
DIVISION OF LAND DEVELOPMENT SERVICES
RIGHT-OF-WAY PERMITTING AND PLAN REVIEW SECTION
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JULY, 2003



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SUBMITTALS

1. The "Montgomery County Specifications for Utility Construction Permit" package applies to all utility construction, reconstruction, or maintenance activities performed within public rights of way or easements under the jurisdiction of the Montgomery County Department of Permitting Services (MCDPS). The actual construction shall be done under the terms of these specifications and shall conform to all legal requirements of the Montgomery County Road Code and Specifications and the current State of Maryland Standard Specifications for construction and materials.

Telecommunications companies, including companies offering any telephone, internet, information, or data service, that desire to install any facilities in Montgomery County's rights-of-way must first obtain a franchise from Montgomery County.

Telecommunications companies should contact Mr. Clifford L. Royalty in the County's Office of the County Attorney for more information.

- 2. All work performed under this permit shall comply with the attached Specifications, Patch Standards, and Utility Work Zone Traffic Control Requirements as well as any Special Conditions identified on the Utility Construction Permit. Installation of this utility line and/or house connection must be based on the <u>approved grade establishment</u> and the cross section shown thereon. In the event the Director of MCDPS (or his representative) finds that the original plans and/or approval conditions are inadequate or inappropriate for the proposed utility work, he may require revised plans, permits and/or approval conditions to remedy the deficiency. Such modifications(s) shall thereafter be prepared and become a part and condition of this permit, and may incur additional permit fees.
- 3. The permittee shall submit to the County <u>3 sets of prints</u> of its proposed construction plan for any work involving main line installation including new manholes and appurtenances, house connections, street lights or new and relocated utility poles and <u>the Utility Construction Permit Application in triplicate</u>. The application shall be returned to the permittee either approved or accompanied with comments for revision. These plans must be dimensioned drawings which include the following items (within the proposed limits of work):
 - (A) Existing topographic and physical details
 - (1) Paving roadway, curb and gutter, driveways, and sidewalks
 - (2) Storm drain systems inlets, manholes, pipes, and outfalls
 - (3) Other utility company facilities poles, fire hydrants, conduit and pipes
 - (4) Trees and shrubs
 - (B) Existing right of way and easements (including Public Utilities Easements)

SUBMITTALS: Continued

- (C) Proposed utility construction
 - (1) Manholes, conduit, and pipelines
 - (2) Street lights
 - (3) Relocated utility poles
- (D) It is the responsibility of the applicant to obtain an approved Traffic Control Plan (TPC) for all major roadways from the Department of Public Works and Transportation when required by these specifications. See *UTILITY WORK ZONE TRAFFIC CONTROL REQUIREMENTS* on pages 18 and 19 for more information.

Whenever non-scaled plans are submitted, dimensions must be provided showing references to (1) right of way/property line (2) edge of pavement or back of curb and gutter, and (3) storm drain structures, including the pipe line. **Emergency repairs are always exempt from this requirement**. Revisions must be resubmitted with application, the previous D.P.S. comments, and a brief written response explaining how those comments have been addressed.

- 4. Single house service connections, routine maintenance operations, and utility maintenance involving excavation and/or roadway cuts that do not involve utility pole replacement shall typically be exempt from the requirements set forth in Item 3 above. Since maintenance such as cleaning and lining of water mains causes disruption to the community as well as extensive repairs, this type of maintenance does not qualify for the exemption. Should the proposed utility activity be located within a Central Business District (CBD), or an existing streetscape area, plan submittals and permit applications will be necessary to establish appropriate vehicular and/or pedestrian control notes. All utility construction activities must conform to the traffic control requirements, methods of construction, and pavement patches in order to satisfy those specifications included in this document.
- 5. In compliance with the 1994 MSHA policy and MCDPS policy, adopted January 1990, a moratorium of five (5) years prior to cutting pavement (i.e., sidewalks, bike paths, driveways, roadways) is placed on all newly constructed roadways. A moratorium of three (3) years is placed upon overlay and/or reconstruction projects. The time is measured from the date of street acceptance for the five (5) year moratorium and the date of Highway Maintenance residential and mainline overlay notice for the three (3) year moratorium. Emergency utility repairs are exempt from this item. For exemption of this requirement provide three (3) possible alternatives for realignments and cost estimates for each. Our intent for the moratoriums is an attempt to maintain the integrity/Pavement Serviceability Rating (PSR) of these newly constructed or refurbished roadways. Service connections to new dwellings or businesses can be accommodated with the requirements of milling and overlay. However, mainline installations within these roadways are not acceptable. Furthermore, we urge the utility companies and the Washington Suburban Sanitary Commission (WSSC) to assure their mainline work is designed in order to accommodate future extension without disturbing existing paving. Only when no alternative is available then utility cuts will be permitted under the conditions of Mill and Overlay specifications on page 10.

SUBMITTALS: Continued

6. It shall be the responsibility of the permittee, except WSSC, to utilize the Public Utility Easement (PUE) whenever it exists*. Placing obstructions within these easements is the responsibility of the public utility companies. All underground utilities (with the exception of water and sewer) need to be placed within the Public Utility Easements (PUE). Mainline transmission and distribution (T&D) facilities, i.e., manholes and conduit, may be exempt due to the limited space available within the PUE. Site specific cases will be evaluated when new utilities are proposed within established neighborhoods. It is not the policy of MCDPS to allow exemptions within new subdivision unless there are compelling reasons to do so. Exemptions will not be considered within new subdivisions where the PUE is not properly graded.

*The terms and provisions of Public Utility Easements are detailed in a Declaration filed February 19, 1969 among the Land Records of Montgomery County at Liber 3834 at Folio 457.

Each utility company is responsible for its own representation at the Maryland-National Capital Park and Planning Commission's Development Review Meetings as scheduled for new development plan consideration to protect their interest.

- 7. Whenever utility poles are replaced or relocated, these poles need to be placed at the property line or to the maximum distance from the roadway. Minimum distances preferred are six feet behind the curb and gutter for closed section roadways and three (3) feet behind the invert of the ditch or twelve (12) feet from the edge of pavement to the face of pole whichever is greater for open section roadways. Additional utility poles and guys should not be installed within the public right of way in order to accomplish this. No new utility poles will be allowed within a distance of twenty feet from the intersection of truncation of new subdivision entrances. Additionally, utility poles must maintain a five (5) foot clearance from the outside edge of driveway entrances. Exemptions and modifications to the above must be approved by MCDPS prior to construction.
- 8. Implementation of the Rustic Road Program compels the permittee to design the proposed utility installations to minimize the overall impact on those roadways classified as Rustic or Exceptional Rustic. The following criteria shall be met unless exemption is granted by the MCDPS:
 - (1) No trees are to be removed without MCDPS approval.
 - (2) Tree pruning, if required, shall be kept to a minimum and done under the supervision or a licensed Landscape Architect or Forester who is familiar with the goals and intent of the County's Rustic Roads Program.
 - (3) The standard utility pavement patch should be used, except that the surface material should match as closely as possible, the surface of existing road.

SUBMITTALS: Continued

- 9. Permit for individual projects shall expire <u>18</u> months from the approval date of that project. The implementation date and continuance of projects under this permit may be altered at the discretion of the MCDPS Inspector in the event of conflict(s) with previously approved permits or emergency activities.
- 10. Utility companies or individuals must obtain a Roadside Tree Permit from the Maryland Department of Natural Resources Forest Service (MD-DNR) prior to trimming, cutting or removing any roadside tree that grows all or in part within the public right-of-way. For more information on obtaining the appropriate Roadside Tree Permit, contact the MD-DNR Forester for Montgomery County at 301-854-6060.

More information about roadside trees is available at MD-DNR Forest Service website; http://www.dnr.state.md.us/forests/landplanning/roadside.html

SPECIFICATIONS

- 1. No construction shall begin until all rights of way have been acquired and properly recorded among the Land Records of the County. The utility company shall secure necessary easements from the adjacent property owners to allow cut or fill slopes (STD. MC-811.01) outside of dedication. WORK IN THE PUBLIC RIGHT OF WAY COVERED BY THIS PERMIT SHALL NOT BEGIN UNTIL RECORD PLATS HAVE BEEN RECORDED. IT SHALL BE THE RESPONSIBILITY OF THE UTILITY COMPANY TO MAKE THIS DETERMINATION. In cases where the County has only a prescriptive right of way, the utility company shall be responsible for obtaining necessary rights of way and/or easements from the appropriate property owner(s).
- 2. The Department of Permitting Services, Right-of-Way Inspection Section, shall be notified at least forty eight (48) hours prior to the start of work by calling the Inspector noted on the permit or (240) 777-6320. Permittees may Fax or e-mail inspection requests with prior approval of the Manager of the Right-of-Way Inspection Section. In the event of any emergency, the permittee shall notify the Inspection Section immediately. Advise the Inspection Section prior to starting work if the site restoration has been left undesirable by a previous utility.

Pre-Construction Meetings with the MCDPS Right-of-Way Inspector is required.

It is in the best interest of the permittee to conduct a pre-construction meeting with the MCDPS Right-of-Way Inspector prior to beginning work. If site conditions reveal previous utility cuts; deteriorated pavement or other unusual conditions that may require mill and overlay, these situations can be discussed and resolved prior to beginning work.

3. The work, materials, plans and specifications shall be available at all times for inspection by authorized officials of Montgomery County. Approval of the compacted soil backfill will be based on one of two methods. Soil backfill shall be compacted to 95% of maximum dry density based upon AASHTO T-99, Method 'C' or at the Engineer's discretion until all lateral displacement and rutting has ceased when the area is subjected to appropriate construction traffic (equipment, loaded tandem dump truck, etc.). Subgrade material within the top one (1) foot of the roadway shall be compacted to 100% of maximum dry density based upon AASHTO T-99, Method 'C' or, at the Engineer's discretion, until all lateral displacement and rutting has ceased when the area is subjected to appropriate construction traffic (equipment, loaded tandem dump truck, etc.). In addition, subgrade shall comply with the following: Liquid Limit not to exceed 40 and Plasticity Index not to exceed 12. The maximum dry weight shall not be less than 105 pounds per cubic foot as determined by AASHTO T-99, Method 'C'. Select Borrow shall be crushed stone or Bank Run Gravel meeting the current MSHA Specifications. Material will be compacted to 95% of maximum dry density based on AASHTO T-180, Method 'D'.

- 4. **Traffic must be maintained through all phases of construction**. Every precaution must be taken to safeguard vehicular and pedestrian traffic through the work area. The Permittee must conform to the Manual on Uniform Traffic Control Devices including but not limited to all aspects of the size, color and reflectivity of warning signs and pavement markings. Refer to the attached Utility Work Zone Traffic Control Requirements. Permanent patch contractors and final restoration crews shall also comply with the approved Traffic Control Plan.
- 5. Roadway bores shall be at least 36 inches under all bituminous concrete surfaces and at least 18 inches under all Portland-cement concrete surfaces. Pneumatic punching is acceptable; however, this may be rescinded at any time by the MCDPS Right-of-Way Permitting and Plan Review Section if there is evidence of pavement damage as a result of this operation. Roadway bores are not an alternative to the 5 year/3 year No Pavement Cut moratoriums if test pits in the pavement are required unless permissions granted by MCDPS.
- 6. All excavations in the paved section of roadway must be backfilled and capped with bituminous concrete cold mix or steel plated at the end of the work day and the roadway re-opened to its full cross-section. Whenever steel plates are used to cover an excavation on a primary or arterial right-of-way (right-of-way widths 70 feet or greater), the steel plates must be inlayed or recessed into the pavement adjacent to the trench. When steel plates are inlayed or recessed, the surface of the steel plate shall be flush with the adjacent pavement surface. All steel plates shall be a nominal one inch (1") thickness. Steel plates must be large enough to allow a minimum of one foot (1') of bearing on all sides of the trench. The MCDPS Inspector may allow alternative bearing requirements for steel plates when bearing on all sides of the trench is impractical. Steel plates abutted edge to edge can be welded together and anchored with pins on the four (4) outermost corners. Additional pins shall be spaced as necessary to assure the steel plates are secured. No corner of any steel plate shall overhang the excavated trench. Bituminous concrete cold mix must be tapered from the height of the steel plate to the existing road surface for a minimum distance of one foot (1'). Excavations in unpayed sections of the public space shall be either backfilled to grade or completely covered with lumber of a nominal thickness of two inches (2") and completely surrounded with approved construction fencing at the end of the work day. Only at the discretion of the MCDPS Right of Way Inspector may an excavation be left open after work hours and must be protected with traffic drums in accordance with the Traffic Control provisions of this permit.

Advance "STEEL PLATE AHEAD" warning signs (MSHA Design W21-9) shall be properly posted and maintained as directed by the DPW&T, Division of Traffic Engineering and Operations Section. An orange or red post, with a minimum height of 48 inches above grade, must be installed at the edge of pavement beside any steel plate between November 1 and April 15 to serve as an identification marker for snow removal operations. Also, between November 1 and April 15, the DPW&T, Division of Highway Services, must be notified at **(240)** 777-ROAD forty-eight (48) hours in advance of the placement of steel plates and again when the steel plate(s) is(are) removed. Steel plates shall not remain in the roadway for over seven (7) calendar days without prior permission by the MCDPS Inspection Section.

The utility company, applicant or permittee shall be responsible for any damages or injuries which may occur as a result of the plates being placed in the roadway. The utility company, applicant or permittee shall also be responsible to maintain the installation in a proper condition and must reimburse to the County any cost for emergency repairs.

- 7. It shall be the responsibility of the permittee to keep the adjacent and adjoining streets clean and free of soil, dirt and other debris at all times during the construction periods. Failure to comply with these regulations shall be considered a violation of the County Code and the permittee will be subject to the penalty(ies) as indicated in Chapters 1, 19 and/or 49 of the Montgomery County Code.
- 8. Property owners must be notified prior to crossing existing entrances. Driveways must be maintained between the hours of 3:00pm and 9:00am and all other times whenever possible. The MCDPS Inspector shall be notified of damaged driveways. The following procedure shall apply:
 - (A) Damaged asphalt driveways shall be sawcut beyond the damaged area and replaced with six inches (6") of hot mix asphalt upon properly compacted subgrade. Driveway restoration shall include removal and restoration of the surface asphalt pavement from the edge of trench cut to the edge of roadway.
 - (B) Damaged concrete driveways shall be removed to the closest existing joint and replaced with seven inches (7") MSHA mix #2 concrete upon properly compacted subgrade.
 - (C) The MCDPS Inspector shall be notified <u>prior to commencement</u> and upon completion of driveway repairs.
- 9. Proper temporary patching shall be made immediately upon the completion of backfilling. *Permanent patches shall be completed within sixty (60) days of the completion of the repair or new installation.* Should approved suppliers for Montgomery County be unavailable due to wintertime shut down, the allotted time period will be extended to include the shut down period as well. Documentation and a request for waiver must be submitted 30 days in advance to the MCDPS Right-of-Way Inspection Section for those site specific instances where an extension of time can be justified. Restoration needs to be completed at this time also. Bituminous surface course shall be placed between 48 and 72 hours after the base paving has been placed. All work shall comply with the approved Traffic Control Plan (TCP).
- 10. When repairing trench cuts, all work will be in conformance with Montgomery County Standard No. MC-801.01, MC-801.02 and MC-801.03. All trench cuts must include a permanent cast iron marker approximately 3" x 4" embedded in the surface course of the trench patch. This cast iron marker shall bear the initials of the utility company performing said pavement cut and be secured in the pavement by two prongs approximately 1-3/4" x 1/4" in diameter. Temporary patches shall be marked with a paint stencil using letters four inches (4") high and identified with the appropriate Miss Utility color.

11. Manholes, inlets, valves and temporary water lines in a roadway that extend more than ¼ inch above bituminous concrete base shall be tapered with minimum slope of 18:1 using bituminous as concrete material. The permittee must protect existing roadways from scratching and scarring of pavement. Should scratching, gouging and/or scarring of the pavement occur, milling and overlay or other approved repair method shall be performed by the permittee to the damaged area as directed by the MCDPS Right-of-Way Inspector.

12. PATCH IN RIGID PAVEMENTS

- (A) The patch shall conform to the existing material removed other than soil, including joint pattern for pavement, sidewalk, curb and gutter, reinforcing and thickness of concrete and bituminous concrete overlay where applicable. Forming, finishing and all other construction methods shall comply with the current MSHA Specifications.
- (B) The patch shall be extended nine inches (9") beyond the limit of disturbed soil where the excavation is located. The existing concrete shall be sawed full depth prior to any excavation to provide a uniform line and shall conform to the following requirements. Emergency repairs will not require saw cutting prior to excavation. If the following requirements cannot be met, the pavement shall be removed to the nearest joint.
 - (1) Where a cut is made entirely within the limits of the slab, there shall be a minimum of two feet (2') to the nearest joint or edge of pavement. (See Standard MC-801.01, Case I). No. 10 load transfer tie bars shall be spaced on four foot (4') centers longitudinally and one foot (1') centers transversely along all sides of the patch including adjacent curb and gutter. Dowels shall be 20 inches long and located at the center depth of the roadway slab.
 - Where a transverse cut is made across the slab, the slab shall be removed from the cut to the nearest transverse edge in one direction only. All existing tie devices shall be utilized or replaced. (See Standard MC-801.01, Case II). No. 10 load transfer tie bars shall be spaced on one foot (1') centers along all four (4) sides of the patch. Dowels shall be 20 inches long and located at the center depth of the roadway slab.
 - (3) Where a longitudinal trench is cut the length of the slab, there shall be a minimum distance of four feet (4') to the nearest longitudinal joint or edge of pavement. All existing tie devices shall be utilized or replaced. (See Standard MC-801.01, Case III). No. 10 load transfer tie bars shall be spaced on four foot (4') centers longitudinally and one foot (1') centers transversely along all sides of the patch including adjacent curb and gutter. Dowels shall be 20 inches long and located at the center depth of the roadway slab.

- (4) Where the existing concrete is broken, the inspector may require the removal of the concrete to the nearest joint.
- (5) Only when no alternative is available will cuts be permitted on both sides of a longitudinal joint. In this case a detailed plan must be submitted showing the method of patching the area disturbed by the trench.
- (C) When a concrete pavement has been overlaid with bituminous concrete, the finished grade of the concrete patch shall match the finished grade of the existing concrete roadway and the thickness of the bituminous concrete patch shall match the thickness of the existing bituminous concrete overlay.

13. PATCH IN FLEXIBLE PAVEMENT

- (A) The patch shall be made in accordance to MCDPS Standard No. 801.02, Patch in Flexible Pavement.
- (B) Excavation shall be as confined as practical. Fill and backfill material must be at optimum moisture; ±2%. Compaction shall be 95% of the maximum dry density based upon AASHTO T-99, Method 'C' except for the top one foot (1') of roadway which shall be 100% of the maximum dry density based upon AASHTO T-99 Method 'C'. All frozen material and/or organic material must be removed.
- (C) Flowable Fill for trench cut repairs and backfill may be used on a case by case basis. Flowable Fill shall meet the current MSHA Specifications. The MCDPS Inspector shall make the final decision regarding the use of Flowable Fill.
- (D) MCDPS will allow the use of "infrared heat treatment" for utility patches when approved in advance by the MCDPS Right-of-Way Construction Inspector.
- (E) Less than three 3 feet (3') patching of trench cuts shall be approved in advance. Approval will be based on the width of compactive equipment.
- (F) Asphalt driveway restoration shall include removal and restoration of the surface asphalt pavement from the edge of trench cut to the edge of roadway.

14. Wherever the edge of a patch encroaches within three feet (3') of the edge of the flexible pavement, the patch shall be extended to the edge of pavement. The minimum width of a patch is three feet (3').

15. MILL AND OVERLAY

A mill and overlay shall be required should the patch not meet the specifications as set forth by the current Maryland State Highway Administration (MSHA) Specifications. A two inch (2") mill and surface overlay is required for all major repairs, arterial or higher classified roadways, and lower classified roadways if so specified.

Mill and overlay shall also be required in the following circumstances:

(A) Whenever two transverse patches are located within two hundred (200) feet of one another.

Once a section of roadway has been milled and overlaid and a third pavement cut (within two hundred feet of either of the previous patches) is made, this area will not be required to be milled and overlaid until a forth cut within 200 feet of the third cut is made.

Pavement cuts on opposing traffic lanes are considered separate and will not require mill and overlay until a second cut is made within two hundred (200) feet on the same lane.

(B) Longitudinal cuts on primary or higher classified roadways and closed section roadways.

Lower classified roadways will be determined on a case by case basis.

When a pavement is in poor condition, a written request to MCDPS for the waiver of this requirement is required. MCDPS shall make the final the decision as to whether a waiver of this requirement will be granted.

Diagonal cuts shall be considered as longitudinal cuts and comply with the requirements for longitudinal cuts.

(C) Whenever a patch's geometry is non-standard, mill and overlay requirements will be determined on an individual basis by MCDPS.

If pavement cuts are necessary on newly constructed or refurbished roadways within the moratorium period as specified under item No. 5, page 2 and no alternative is available, such cuts will be permitted and require mill and overlay in accordance with the requirements (A), (B) and (C) above.

All mill and overlay operations shall comply with the following.

- The mill and overlay will commence a minimum of two feet (2') beyond the outer limits of each utility patch in pavement.
- Each utility company installing a patch must install their company medallion within the patch (see Item No. 10, page 7). The utility company making the second pavement cut (necessitating the mill and overlay) within 12 months of the first pavement cut will be responsible for performing the mill and overlay and obtaining remuneration from the first utility company for it's pro rata share of those construction costs. MCDPS will not participate in the money collection efforts. However, MCDPS will keep a record of the patches and inform the utility companies of being the first or the second (requiring mill & overlay) utility company to cut the pavement.
- The width of mill and overlay will be a minimum of one lane width or paving machine joint (12'). If the patch extends into a second lane, the mill and overlay must be extended to cover the second lane entirely.
- Perimeter milling of a minimum width of 18 inches is required on all pavement overlays.

16. **MAJOR REPAIR**

- (A) Representatives from the utility agency and the MCDPS will meet at the site to delineate and agree upon the limits of any major repair(s). The utility agency or it's contractor must notify the MCDPS Inspection Section 48 hours in advance of the repair to insure a MCDPS Inspector is available to observe the excavation/cut and or make adjustments to the agreed upon limits if necessary.
- (B) All pavement must be replaced in kind or in accordance with the pavement crosssection for the classification of the affected roadway. Refer to the current Montgomery County Design Standards to determine the appropriate pavement cross-section for the applicable roadway classification.
- (C) The edges of the pavement shall be uniform and true to grade.

17. ADJUSTMENT TO APPURTENANCES

- (A) Where vertical adjustments to utility appurtenances are made, the excavation shall be as confined as practical as determined by the MCDPS Inspector.
- (B) The pavement shall be removed twelve inches (12") beyond the limits of disturbed soil on all sides of the resultant excavation.
- (C) Select Borrow or Graded Aggregate Stabilized Base must be used to backfill the excavation around the appurtenance to the limit of subgrade.

- (D) Where the existing roadway has a bituminous concrete surface, a six inch (6") concrete patch shall be placed two inches (2") below the surface and topped with a bituminous concrete surface course.
- (E) Where the existing surface is concrete, the patch shall be the same thickness as the existing pavement and shall be made with MSHA Mix No. 6 concrete with air entrainment
- (F) Any patches which require utility box adjustment shall be patched according to Std. 801.03.
- 18. Upon notification from the DPS, the permittee must promptly correct any unsatisfactory condition resulting from the failure to perform in accordance with these specifications and any special conditions specified on the UTILITY/RIGHT-OF-WAY CONSTRUCTION PERMIT. Any required corrective action(s) must be implemented immediately upon notification by the Montgomery County Department of Permitting Services Right-of-Way Inspection Section.

<u>Failure to promptly implement required corrective actions shall be considered a violation of the County Code and will subject the permittee to enforcement actions and penalties as allowed by the County Code.</u>

- 19. Complete repair and restoration of the right of way must be made to any and all damages to existing improvements within the public right of way and/or easements caused by utility installations or operations. All disturbed and graded areas adjacent to occupied residences shall be sodded in accordance with current MSHA Specifications. All other areas, may be seeded and straw mulched in accordance with current MSHA Specifications with MCDPS approval. Temporary seeding and straw mulching may be applied to those areas which require sod during periods outside the growing season in accordance with the following three conditions:
 - (A) seeded and straw mulched areas with insufficient germination or vegetative growth must be promptly re-seeded and re-mulched as directed the MCDPS Inspector; and,
 - (B) sod shall be placed during the next growing season in those areas where the MCDPS Inspector determines that insufficient germination or vegetative growth exists; and.
 - (C) an approved MSHA Soil Stabilization Matting may be used in lieu of sod in ditch inverts with MCDPS approval. Ditch inverts shall be lined with sod or matting for a minimum one foot (1') flow depth. Soil Stabilization Matting methods and materials shall be in accordance the current MSHA Specifications.

The permittee has the option of fine grading, seeding and straw mulching any disturbed areas having a width of less than 12 inches.

20. PERMIT ACCEPTANCE AND RELEASE

The utility company representative must contact the MCDPS Inspector at completion of any utility work that involves any disturbance to the County right of way. The MCDPS Inspector will accept and release the permit upon acceptable restoration of the right of way.

The permittee's failure to contact the MCDPS Inspector upon completion of any utility work will result in the UTILITY/RIGHT-OF-WAY CONSTRUCTION PERMIT remaining in an active status and may subject the permittee to additional right of way restoration requirements.

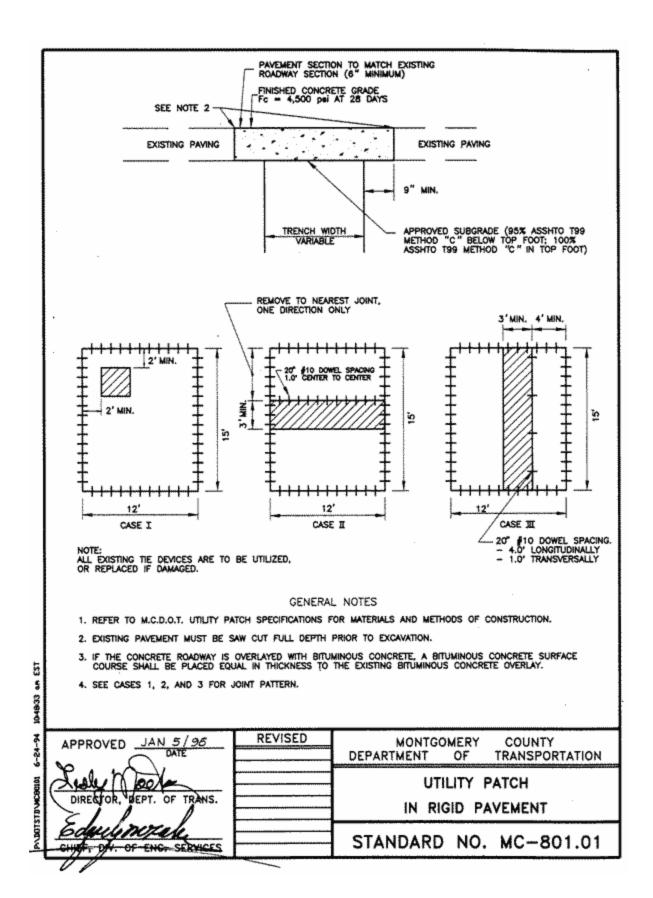
Telecommunications companies (including companies providing telephone, internet, information, or data service) must furnish to the County as-built drawings as specified in their franchise agreement. These as-built drawings shall be submitted to the County's Division of Technology Services, Office of Cable and Communications Services, in hard copy and in an electronic format compatible with the County's GIS system (see note below). As-built drawings must contain a full set of drawings showing, in detail, the exact location of their facilities installed within the public right-of-way.

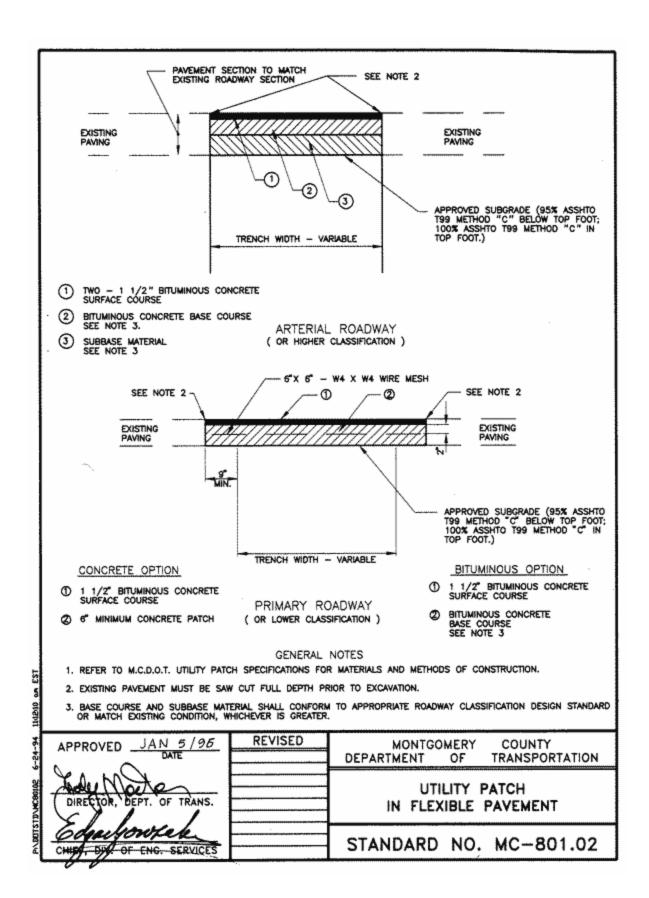
<u>Note</u>: Acceptable electronic formats are, in order of preference, are: (1) GIS shapefile; (2) AutoCAD DWG; and, (3) AutoCAD DXF.

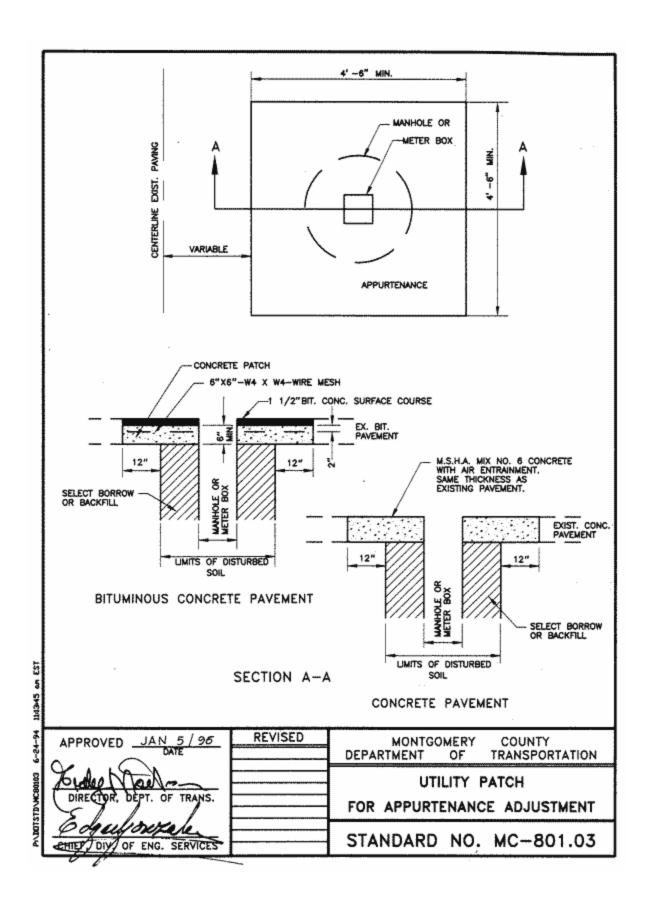
- 21. The County assumes no responsibility for any suits or actions arising from the performance of work designated in the permit.
- 22. The minimum depth of cover for Cable TV Conduit is 18 inches within the right of way except as otherwise noted.
- 23. In accordance with Federal Regulations (49CFR, Section 192.327) a minimum of 24 inches of cover is over all gas mains.
- 24. No patches will be allowed to remain with base asphalt/concrete only, unless adequately protected with barrels, warning signs, ramping at 18:1 and/or steel plates.
- 25. No parking of utility vehicles will be allowed on sidewalks or areas outside of the pavement except when specifically shown on an approved Traffic Control Plan (TCP) or with prior approval from the MCDPS Inspector.
- 26. No materials or equipment shall be stored in the roadway, without prior approval and authorization by MCDPS inspector.
- 27. Utility companies and their contractors must display their names and telephone numbers on site while working in the public right of way and shall have a copy of the permit and approved construction and traffic control plans on site at all times.

- 28. When Speed humps are affected by any pavement cuts, the entire hump shall be removed and replaced in accordance with the current <u>Montgomery County Guidelines</u> and <u>Design Standards</u> unless directed otherwise by the MCDPS Inspector.
- 29. It is the responsibility of each permittee and/or utility company to obtain all necessary permits, including those required by the Washington Suburban Sanitary Commission and/or Maryland State Highway Administration prior to the start of work.
- 30. Failure to comply with these specifications and the requirements herein may result in the immediate revocation of the *UTILITY/RIGHT-OF-WAY CONSTRUCTION PERMIT*.

Any work performed following revocations, and before reinstatement, shall be deemed a violation of the Road Code and subject to the penalties contained therein. Following correction of a violation, the Department of Permitting Services will issue verification that the permit has been reinstated.







UTILITY WORK ZONE TRAFFIC CONTROL REQUIREMENTS

All work activities within the public space requires planning and implementation of appropriate work zone traffic controls to protect motorist, bicyclists, pedestrians and workers. The sequence of construction and the traffic control plan shall meet or exceed the requirements of the *Manual on Uniform Traffic Control Devices* (MUTCD), latest edition and addendums as issued thereto, the State Highway Administration's Book of Standards, latest edition and addendums as issued thereto, and Montgomery County's Work Zone Traffic Control Standards, latest edition and addendums as issued thereto. If a conflict between these guidelines and standards should arise, then the Department of Permitting Services' inspector will be consulted for a final decision. The Department of Permitting Services' may consult with the Traffic Engineering and Operations Section for clarification before rendering their final decision.

The permittee shall have a Traffic Manager to supervise maintenance of traffic operations at the permitted site in accordance with Section 104.18 of the Maryland State Highway Specifications. This Traffic Manager must be certified by either the Maryland State Highway Administration or the American Traffic Safety Services Association as a Work Zone Traffic Control Supervisor. The Permittee's Traffic Manager shall determine the appropriate work zone temporary traffic control typical drawing from the WORK ZONE TRAFFIC CONTROL STANDARDS prepared by the Traffic Engineering and Operations Section of the Montgomery County Department of Public Works and Transportation to be utilized for each work site and, if applicable, each stage/phase of construction for individual work sites. The traffic control drawings shall be submitted with the Application for Utility Construction Permit and construction plans. The traffic control drawings shall include the Traffic Manager's name, telephone number and certification number.

<u>NOTE</u>: If the permittee does not have a Certified Traffic Manager, the permittee shall submit a Site Specific Traffic Control Plan (TCP) for approval by the Department of Public Works and Transportation (DPWT), Traffic Engineering and Operations Section when the following conditions exist:

- Roadways classified as Arterial and Higher (80 foot right-of-way widths or greater).
- Roadways within the business districts (Bethesda, Silver Spring, and Wheaton).

The Permittee shall submit a Site Specific Traffic Control Plan for approval by the Department of Public Works and Transportation (DPWT), Traffic Engineering and Operations Section when the following conditions exist:

- The proposed work requires sidewalk closures for extended durations (see Montgomery County's Work Zone Traffic Control Standards for details), or
- ➤ The proposed sequence of construction requires more than three stages of work zone traffic controls and/or the overall length of proposed work along the County's roadway is more than 2000 feet.

UTILITY WORK ZONE TRAFFIC CONTROL REQUIREMENTS - CONTINUED:

The site specific TCP shall correctly depict the name of the affected roadways physical characteristics including the correct number of lanes, turn lanes, pavement markings, parking lanes, medians, traffic islands, posted speed limits as well as all intersecting street and affected sidewalks within the proposed traffic control plan. The TCP shall identify the proposed work zone and staging areas. The TCP shall identify and provide specific locations for all traffic control devices (i.e., signs, taper lengths, traffic cones, traffic drums, arrow panel, flag person locations, etc.) to protect the work zone.

The Division of Traffic Engineering and Operations Section may consider waving the requirements for a Site Specific TCP if it is determined that the roadway is under utilized or if the work activity would not cause significant disruption to traffic. This waiver can be secured by written request to Mr. John P. Bradley (Pat.Bradley@montgomerycountymd.gov).

The Department of Permitting Services and the Department of Public Works and Transportation may require work activities occurring within DPWT right-of-way to stop immediately, if it is determined that there is non-compliance with the *Manual on Uniform Traffic Control Devices* (MUTCD), latest edition and addendums as issued thereto, the State Highway Administration's Book of Standards, latest edition and addendums as issued thereto, Montgomery County's Work Zone Traffic Control Standards, latest edition and addendums as issued thereto or the permittee's failure to comply with these requirements and specifications.

DEFINITIONS

ASTM American Society for Testing and Materials.

AASHTO American Association of State Highway & Transportation Officials.

BITUMINOUS CONCRETE...... Bituminous Concrete shall comply with the current Maryland State Highway Administration Specifications.

Superpave mixes shall be used as follows:

Arterial and Primary Roads

(Right-of-Way Widths 70 feet or greater)

Base Course (≥3"): 25 millimeter (mm) aggregate with

PG Binder 64°Celsius (C) ± 22°C

Surface Course (≥2"): 12.5 mm aggregate with

PG Binder 64°Celsius (C) ± 22°C

Residential and Roads of Lesser Classification;

(Right-of-Way Widths 69 feet or less)

Base Course (≥3"): 19 millimeter (mm) aggregate with

PG Binder 64°Celsius (C) ± 22°C

Surface Course (≥2"): 9.5 mm aggregate with

PG Binder 64°Celsius (C) ± 22°C

All roadways using surface course equal to or less than 1":

9.5 mm aggregate with PG Binder 64°Celsius (C) ± 22°C

GASB Graded Aggregate for subbase courses is crushed stone aggregate, fine aggregate and water, all mechanically mixed. The gradation of the final composite mixture shall conform to the current MSHA Specifications.

MCDPS...... Montgomery County Department of Permitting Services.

MCDPW&T.....Montgomery County Department of Public Works and Transportation.

MUTCD...... Manual on Uniform Traffic Control Devices for Street and Highways.

MAJOR REPAIR Repair beyond the necessary excavation resulting from the destruction of the pavement due to a utility rupture.

MSHA...... Maryland State Highway Administration.

PIE.... Public Improvement Easement.

DEFINITIONS Continued:

PORTLAND CEMENT CONCRETE PAVEMENT......

Concrete pavement shall comply with the current MSHA Specifications. Mix No. 6 concrete shall be used for all concrete work.

For concrete roadways, a commercially available accelerator of a type approved by the Engineer, capable of production of 500 PSI modulus of rupture strength in 24 hours or less shall be used.

PUE Public Utility Easement.

SELECT BORROW Select Borrow shall be crushed stone or bank run gravel and shall comply with the following:

- Liquid Limit not to exceed 40.
- Plasticity Index not to exceed 6.
- The maximum dry weight shall not be less than 115 pounds per cubic foot as determined by AASHTO, T-180 Method 'D'. Select Borrow shall be compacted to 95% if maximum dry density based upon AASHTO, T-180, method 'D' where such test is practical with the material being used or until all lateral displacement and rutting has ceased.

SUBGRADE The top one foot of excavation subgrade material shall comply with the following:

- Liquid Limit not to exceed 40.
- Plasticity Index not to exceed 12.
- The maximum dry weight shall not be less than 105 pound per cubic foot as determined by AASHTO T-99, Method C and shall be compacted to 100% of maximum dry density.

TCP Traffic Control Plan.

UTILITY PATCH..... A patch which is required as the result of excavation in the subgrade to repair or place a utility line or appurtenance.

APPENDIX

- MISS UTILITY INFORMATION
- UTILITY CONSTRUCTION PERMIT APPLICATION
- ACKNOWLEDGEMENT FORM

NOTIFY 'MISS UTILITY'

AT

1-800-257-7777

48 HOURS PRIOR TO BEGINNING SITE WORK

More information is available on the internet @

http://www.missutility.net

Color Codes for Marking Underground Lines:

RED	ELECTRIC	Electrical power distribution and transmission.	
YELLOW	GAS/OIL	Gas, oil and petroleum products distribution and transmission, dangerous materials, product lines and stream lines.	
ORANGE	COMMUNICATIONS	Telecommunications systems, police and fire communications, cable television.	
BLUE	WATER	Water systems and slurry systems.	
GREEN	SEWER	Sewer systems.	
PURPLE	RECLAIMED WATER		
WHITE	EXCAVATION	Proposed Excavation.	



Montgomery County Maryland Department of Permitting Services

255 Rockville Pike, 2nd Floor Rockville, Maryland 20850-4153 (240) 777-6320 Fax (240) 777-6339 http://permits.emontgomery.gov



Application for Utility Construction Permit

UTILITY AP#	BUILDING AP#		
UTILITY COMPANY NAME: UTILITY COMPANY PLAN/I.E		DPS Contact I.D.#	
STREET NAME(S):			
SUBDIVISION NAME:			
DESCRIPTION OF WORK:			
DURATION OF WORK:	Calendar Days ANTICIPATED STAR	TING DATE:	
FIELD REPRESENTATIVE:		PHONE:	
PURPOSE OF REQUEST: New Utility Construction Utility Relocation	TRAFFIC NOTES/TRAFFIC CONTROL PLAN STATUS: Previously Approved TCP (Attach Approved Plan)		
Utility Maintenance	☐ Blanket/Typical TCP ☐ Site Specific TCP: ☐ Submitted to DPW&T Date -		
Aerial		DPW&T for Review & Approval	
House Connection(s)	Sidewalk Closure: 15 Days or Less	bi trai for heries a Approval	
	Greater Than 15 [Days	
Other (Specify):			
RURAL/RUSTIC ROAD	Implementation of the Rural/Rustic Road Program compels the applicant/permittee to install the proposed utility in a manner to minimize the impact upon those characteristics which make the roadway classified as Rural or Rustic.		
REPLACEMENT AND/OR RESTORATION OF BRICK PAVERS INVOLVED Contact the Department of Public Works & Transportation, Division of Highway Services 240-777-ROAD (7623) to coordinate.			
APPLICANT'S NAME/	Printed Name	FAX No.	
UTILITY REPRESENTATIVE:	Phone No.	E-mail Address	
	Signature	 Date	

I declare and affirm, under penalty of perjury, that to the best of my knowledge, information and belief all matters and facts in this application are correct.

ACKNOWLEDGEMENT FORM

Should you have any questions concerning these specifications, please contact Jerry Oden or Dan Ratliff with the Right-of-Way Permitting and Plan Review Section.

We acknowledge receipt of the 2003 Montgomery County Specifications for Utility Construction Permit. We have reviewed these specifications and understand and agree to comply with these specifications and requirements. By the signature authority below, we agreed to abide by the UTILITY/RIGHT-OF-WAY CONSTRUCTION PERMIT specifications and requirements.

ACCEPTED:

DATE:
Title
Phone No.
E-mail Address
 Printed Name

For: Right-of-Way Permitting and Plan Review Section for the Director, Montgomery County Department of Permitting Services