



**Georgetown County  
Department of Public Services  
Stormwater Division**

*Innovative Leadership & Teamwork!*



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## **ENCROACHMENT PERMIT MINIMUM DESIGN STANDARDS**

Georgetown County has determined that adopting the SCDOT Access and Roadside Management Standards (ARMS), as a minimum standard for all Georgetown County roads, encroachments, and enhancements is in the best interest in the County's review, approval, and permitting section of regulating the work done for and on County Roads and County Right-of-Ways. Please refer to the SCDOT ARMS Document when submitting an application for encroachment to Georgetown County.

### ROAD CROSSINGS

Road crossings are to be perpendicular to roadways, and can be done by boring or an open cut. Recommended road crossings are by dry boring with the utility line placed in an encasement. The bore must be a minimum of thirty (30) inches below the surface of the road. When utilities cross dirt roads, installations can be done by open cut; however, they shall be buried to a minimum depth of thirty-six (36) inches. Only when necessary and the conditions warrant, a permit for an open cut on a paved road will be approved. The cut must be in a neat, straight line with a pavement saw or breaker. After completion of the work, backfilling of the trench shall take place using one of the following methods shown in the attached Figure 1 and outlined herein:

#### High Volume Traffic Roads

Use select material tamped in 6" lifts, capped by 4" stabilized aggregate base course and an 8" concrete pad, and then apply a tack coat before the asphalt surface course is laid.

#### Low Volume Traffic Roads

Use stabilized base material tamped in 6" lifts, capped by an 8" layer of crusher run to the bottom of existing asphalt, or Use flowable fill to the bottom of existing asphalt.

All of the above methods shall be surfaced with Hot Laid Asphalt Concrete (HLAC) to existing grade. One of the repair sections illustrated on Figure 1 must be followed. The entire width of the road shall be resurfaced where the cut is within the pavement and parallel to the road centerline. All road crossings are to be complete from the edge of pavement to edge of pavement. No junction that requires a manhole or valve box will be allowed in the riding surface of the road. See attached Table 1 for minimum design standards.

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### INSTALLATION OF UTILITIES PARALLELING ROADS

Installations along dirt roads shall be done outside of the roadway-riding surface or in the ditch line at a minimum depth of thirty-six (36) inches. Installations along paved roads shall have the same depth and no closer than three (3) feet to the edge of the pavement.

### DRIVEWAYS AND APPROACHES

Any driveway or approach that adjoins a county maintained road must in no way deter storm water movement along the road. If an existing ditch line is present, a pipe of adequate size and approved by the Public Works Division shall be installed to carry the water. At no time during the permitted work shall the Permittee obstruct the flow of storm water. See attached Table 1 for minimum design standards.

### PIPING DITCHES PARALLEL TO A GEORGETOWN COUNTY ROAD

Pipe in a Georgetown County ditch will be permitted as long as it does not interfere with existing drainage and allows surface water to enter the drainage system. Only Reinforced Concrete Pipe (RCP) is allowed as long as minimum cover requirements can be met. All joints must be properly sealed to provide a watertight seal. Pipe diameter will be sized properly to the existing drainage system. Any connection to an existing pipe of a different size or material will require a Junction Box with a Catch Basin. A minimum of 1 catch basin must be installed per permit or but no less than 1 catch basin for every 100' of continuous pipe. The catch basin will have a grate to allow surface water to enter the pipe system. The grate size will be no less than the pipe diameter. The top of the catch basin will be at least 4" lower than the road.

### STORMWATER DISCHARGE

All discharge into County owned or maintained right-of-ways or easements shall require an encroachment permit. Permits for discharge will be subject to review by the Georgetown County Department of Public Services.

All stormwater discharge shall be limited to rates at or below predevelopment rates and shall comply with Georgetown County Stormwater Management Ordinance. Applicant shall be responsible for meeting all water quality requirements where applicable (i.e. discharges to a TMDL waterbody, etc.) as well.

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## **Table 1. Georgetown County Minimum Design Standards for Right of Way Encroachments**

### **Drives:**

1. **Minimum Driveway Width:** Private = 10' w/2' shoulders; Common = 16' w/2' shoulders; Commercial or Common shared by 16 or more = 18' (paved) w/3' shoulders.
2. **Minimum Driveway Radius:** Private = 10' Common or Commercial = 15'
3. **Acceptable Surface Material:** 6" of slag, gravel or FLBC or 2" asphalt w/ 6" FLBC base
4. **Minimum Pipe Size:** 15"
5. **Minimum Pipe Grade:** 0.25%
6. **Allowable Pipe Material:** O-Ring (rubber gasket profile) RCP (concrete) w/proper cover
7. **Minimum Pipe Length:** Pipe shall extend a minimum of 5' beyond edge of drive on each side. Bank stabilization may be required at pipe ends.
8. **Setback:** End of pipe and driveway radii must be a minimum of 5' from property line unless written permission from adjoining property owner is provided.

### **Piping Ditches Parallel to Roadways:**

1. **Allowable Pipe Material:** O-Ring (rubber gasket profile) RCP (concrete) w/proper cover.
2. **Catch Basins:** There shall be 1 catch basin per 100' of continuous pipe installed with a minimum of 1 catch basin per project.
3. **Grate Elevation:** The top of elevation shall be at least 4" lower than roadway.

### **Road Crossings:**

1. **Alignment:** Crossing are to be perpendicular to roadways
2. **Allowable crossings:** Boring. Open Cut shall only be allowed on dirt roads or in paved areas only when absolutely necessary.
3. **Boring:** Dry boring with utility carrier pipe placed in an appropriately sized casing pipe and placed a minimum of 30" below the roadway surface.
  - a) **Open Cut:** Cuts must be straight and neat, utilizing a pavement saw or breaker. Utilities shall be installed 36" below roadway surface. Repair in dirt roads shall be with compacted backfill. Repair in paved areas shall be as follows: All open cut edges shall be saw cut. (Refer to SCDOT Open Cut Patch Requirements)
  - b) Stone bedding
  - c) Flowable Fill backfill up to bottom of asphalt patch
  - d) SCDOT full depth asphalt patch
  - e) 2-Inch thick asphalt overlay for a distance of 25ft each side of open cut, for a total length of 50ft overlay

For full details of design requirements see "Georgetown County Roadway Design and Construction Manual"

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