



**TECHNO-GRAM**  
**003 - 2022**



- SUBJECT:** Roadway Underdrains
- PURPOSE:** To clarify requirements for roadway underdrains
- SCOPE:** This Techno-gram clarifies Prince Georges County requirements for roadway underdrains

These requirements apply to previously issued and future site development fine grading and street construction permits. These requirements pertain to County public roadways, as well as private roadways located in townhouse and single-family developments. Roadway underdrains are required to be designed and installed in accordance with the following:

- A. Urban (curb/gutter) roadways: PG-DPW&T roadway details require underdrains to be installed behind the curb continuously on both sides of the road. See published DPW&T standards 100.01 through 100.07 and 100.20 through 100.30.
- B. Rural roadways: PG-DPW&T roadway details for rural (open section) roads require underdrains to be installed in low points, areas of high groundwater, and where low-impact development stormwater devices (such as bioswales, etc.) are proposed. See published DPW&T standards 100.08 through 100.16.
- C. Underdrain Details: PG-DPW&T roadway details 300.13, 300.14 or 300.15 identify how underdrains must be constructed.

Additional plan information is being required to further emphasize to the applicant that underdrains are required by the County roadway ordinance and standards. For pending site development fine grading and street construction permits, the engineer/applicant shall include the following underdrain information on the permit plans:

1. Include all underdrain pipes in a separate underdrain pipe schedule to comply with the above requirements.
2. For rural roads, show underdrains in the underdrain pipe schedule and on the plan view. Underdrains for rural roads shall be required in low points, extending at least 125 feet to each side of the low point, in high groundwater areas, and in areas where low-impact development stormwater devices such as bioswales are proposed.

Last Edited May 3, 2022



**TECHNO-GRAM  
003 - 2022**



3. Include all underdrain pipes in the bond cost estimate.
4. Include the storm drain and paving notes shown below under background information, on the permit plans.
5. Include the applicable PG-DPW&T standard road cross sections 100.01 through 100.07 and 100.20 through 100.30 (urban) and 100.08 through 100.16 (rural) on the permit plans.
6. Include applicable underdrain details on permit plans (300.13, 300.14 or 300.15).

***BACKGROUND INFORMATION***

*General Storm Drain and Paving Notes: All roadways shown on County permits must be constructed in accordance with the **GENERAL STORM DRAIN AND PAVING NOTES**. These General Notes are required by the DPIE Stormwater Management Design Manual appendix. See excerpts of these notes listed below that pertain to underdrains.*

- *ALL ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING: THE DPW&T SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES; THE PRINCE GEORGE'S COUNTY CODE, SUBTITLE 23, ROAD ORDINANCE; AND THE PRINCE GEORGE'S COUNTY POLICY AND SPECIFICATION FOR UTILITY INSTALLATION AND MAINTENANCE.*
- *AN UNDERDRAIN SYSTEM IS REQUIRED FOR THE FULL LENGTH OF ALL PROPOSED AND MODIFIED ROADWAYS, ON BOTH SIDES, AND TO THE LIMITS OF THE PERMIT SHOWN ON THIS PLAN.*

*Davit Abraham* Deputy Director  
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**May 3, 2022**