

THE MUNICIPALITY OF THE COUNTY OF KINGS



INSTRUCTIONS FOR PLACEMENT OF DRIVEWAY ENTRANCES

MATERIALS

Types of Approved Culvert Material

- 457mm (18") Aluminized steel
- 457mm (18") Reinforced concrete pipe
- 457mm (18") DOT corrugated polyethylene plastic pipe
- The use of other culvert size/material must be approved by Municipal Engineer

Types of Approved Headwalls

- 305mm to 457mm (12" to 18") Flat Rip-Rap Material
- Precast Concrete
- All other material must be approved by Municipal Engineer

Types of Approved Fill Materials

- Type 2 Gravels
- Good Native Material void of stone greater than 101mm (4")
- Pit Run Material
- All other fill materials must be approved by Municipal Engineer

The following specifications are to be followed for **Culvert Pipe Installations**.

1. The ditch is to be a depth of 762mm (30") measured from road shoulder. If not please notify Engineering and Public Works at the Municipality of the County of Kings at 902-690-6164.
2. A minimum driveway surface of 5.5 meters (18') is recommended.
3. Bottom of ditch must be undisturbed soil and clear of any organic materials (grass, bushes, etc.).
4. Place culvert pipe in center (lowest point) of ditch following the natural slope of ditch (minimum .5% slope) and top of culvert pipe a minimum of 305mm (12") below shoulder elevation.
5. Place rip-rap across the upstream and downstream ends of the installation at the same time as backfilling to reinforce headwall integrity. Height of headwalls to be 101mm (4") below shoulder elevation. A Precast Concrete headwall may be used provided the headwall is installed so that the bottom of the culvert pipe opening is not above the bottom of ditch. Also the top of concrete headwall must be kept 50mm (2") below shoulder elevation.
6. Backfill and compact with pit run or good native material in 160mm (6.2") lifts to 152mm (6") below shoulder elevation.
7. Place 152mm (6") of type 2 gravels over top of fill and compact to create travel way. The finished driveway should be sloped so as to prevent water from running into roadway. Minimum slope requirement is 2%.

NOTE:

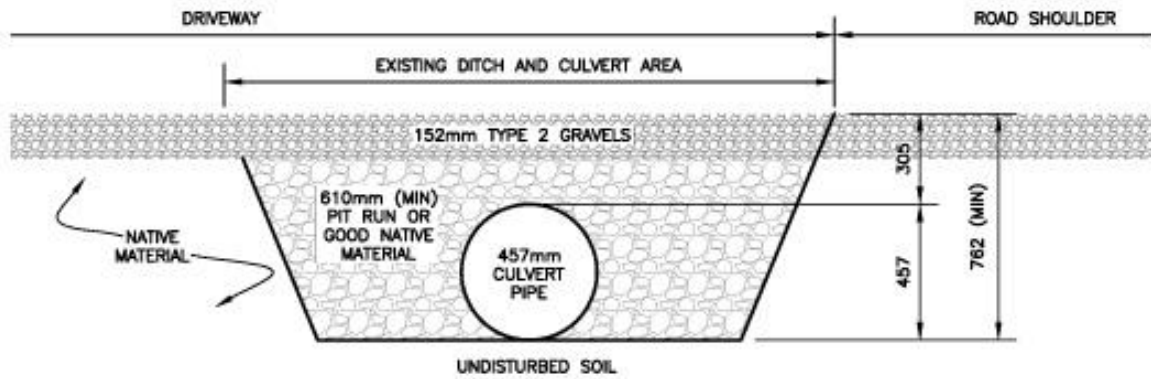
- Headwalls must be installed appropriately to prevent erosion of culvert cover materials.
- When culvert installation is complete the Municipality is to be contacted for final inspection/approval.
- If the culvert is not installed properly, the Municipality will reinstall at the applicants expense.

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TYPICAL CULVERT CROSS-SECTION



TYPICAL CULVERT RIP-RAP VIEW

