

ENGINEERING BEST PRACTICE - BP 3.3.3

1. <u>SUBJECT:</u> BACKFILL OF DITCH/SWALE/TRENCH FRONTING A RESIDENTIAL OR COMMERCIAL PROPERTY.

* BP 3.3.3 DOES NOT APPLY TO MUNICIPAL DRAINS

2. **DEFINITION:**

Backfill: The act of filling an excavated trench, ditch, or swale.

3. **DRAWING:** AS-209A

4. BEST PRACTICE:

- 1. Location inspection required prior to permit
- 2. A permit is required for any work in the Municipal Right-of-Way (B/L 25-2010)
- 3. Pipe Material PVC (Polyvinyl Chloride) or HDPE (High Density Polyethylene) or Concrete Pipe.
- 4. Match the existing upstream and downstream culvert size, whichever is greater. Minimum 15" (375mm) pipe.
- 5. Pipe to be embedded a minimum of 2" (50mm), or 10% of pipe diameter, whichever is greater.
- 6. Minimum pipe cover to be 1'-0" (300mm) of granular 'A' around pipe
- 7. Minimum 24" (600mm) diameter inline catchbasin with frame and cover is required at centreline of lot with additional catchbasins required every 40 ft (12.2m) ditch/swale.
- 8. Match upstream/downstream flow of ditch.
- 9. Maintain integrity of ditch at all times.
- 10. Not to be used as parking area unless approved by City Engineer. Blvd to be restored with grass.

June 29/16

- 11. Culvert to not extend beyond property line.
- 12. Jute bag headwalls with concrete cap for pipe diameter less than 18" (450mm), and pre-cast or engineered designed concrete headwalls approved by the City Engineer for pipe diameter greater than 18" (450mm) in accordance with AS-209.
- 13. All material used for backfill including native material shall be of a quality acceptable to the City Engineer and shall be in a thawed state when placing and compacting and be free from rocks, large or frozen lumps, wood, or other unsuitable material. No backfill material will be permitted to be placed on frozen substrate.

RELATED BEST PRACTICES;

BP2.2.1 – Driveway requirement policies-residential

BP2.1.1 – Commercial driveway approaches

BP2.3.1 – Driveway approaches

Spec 2 – Manholes, Catchbasins, and Adjustments

Spec 11 – Culverts Headwalls and Roadside Drainage

5. RELATED CITY SPECIFICATIONS:

City Engineer or Designate

Attachment

