

# Schedule A - Culvert

## Project Description

(Please complete one Schedule for each crossing)

### Location

Site Name/No/Civic Address: \_\_\_\_\_

Please mark location on a copy of a topographic map (preferably at 1:50,000 scale) or Google Earth Image and include as a separate attachment with the application.

If including a 1:50,000 Topographic Map, Please Provide:

Map No: \_\_\_\_\_

Or, UTM Coordinates:

N \_\_\_\_\_ E \_\_\_\_\_ NAD \_\_\_\_\_ ZONE \_\_\_\_\_

### Design

#### Drainage Area Profile:

Drainage Area: \_\_\_\_\_ km<sup>2</sup>

Main Channel Length: \_\_\_\_\_ km

Slope of Drainage Area: \_\_\_\_\_ %

#### Drainage Area Classification:

Forest: \_\_\_\_\_ %

Barren: \_\_\_\_\_ %

Wetland: \_\_\_\_\_ %

Urban: \_\_\_\_\_ %

#### Hydrologic Details:

Return Period: 1: \_\_\_\_\_ years

Estimation Method:  Rational  TR55  RFFA  Other \_\_\_\_\_

Maximum Flow: \_\_\_\_\_ m<sup>3</sup>/s Design Flow: \_\_\_\_\_ m<sup>3</sup>/s

#### Description of Estimation:

Please show calculation(s) below or attach separate sheets, if required.

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**Design (cont'd)**

Culvert Shape:       Round       Pipe-arch       Other \_\_\_\_\_

Culvert Material:     Steel       Concrete       Aluminum     Other \_\_\_\_\_

Headwall Type:       Concrete     Wood       Rip-rap       Other \_\_\_\_\_

Number of Pipes: \_\_\_\_\_      Length: \_\_\_\_\_ metres

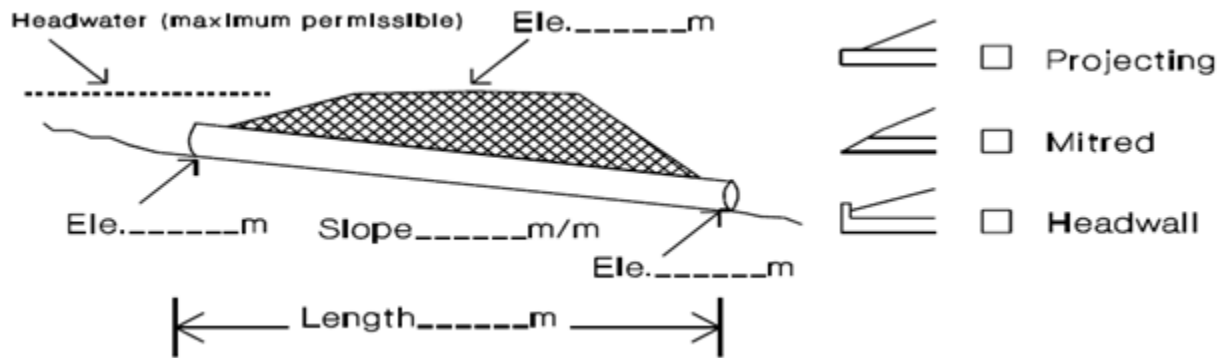
Width: \_\_\_\_\_ mm      Height: \_\_\_\_\_ mm (for arch-pipe)

Diameter: \_\_\_\_\_ mm (for round pipe)

Max Velocity: \_\_\_\_\_ m/s      Min Velocity: \_\_\_\_\_ m/s

**If the undertaking involves replacing an existing culvert, please provide dimensions of existing culvert and reasoning behind the replacement (undersized, collapse, etc.):** \_\_\_\_\_

**Complete the diagram below and check inlet/outlet type:**



**Construction**

Equipment to be used: \_\_\_\_\_

Proposed dewatering method: \_\_\_\_\_

Briefly describe how erosion control and stabilization will be carried out:

\_\_\_\_\_

\_\_\_\_\_

Briefly describe how site restoration will be carried out:

\_\_\_\_\_

\_\_\_\_\_

Technical guidelines, departmental policies and application forms are available at:

<https://www.gov.nl.ca/ecc/waterres/regulations/appforms/>