

PART 1 - GENERAL

- 1.1 Related Sections .1 Section 01 35 44 - Environmental Protection.
- 1.2 Environmental Requirements .1 Operation of construction equipment in water is prohibited.
- .2 Use borrow material from watercourse beds when approved by Department Representative.
- .3 Design and construct temporary crossings to minimize environmental impact to watercourse.
- .4 Constructing temporary crossings of watercourses when spawning beds are indicated is prohibited.
- .5 Dumping excavated fill, waste material, or debris in watercourse is prohibited.

PART 2 - PRODUCTS

- 2.1 Preparation .1 The Contractor shall be responsible to follow the conditions of the WAWA permit which will be obtained by PWGSC.

PART 3 - EXECUTION

- 3.1 Existing Conditions .1 Maintain existing flow pattern in natural watercourse systems.
- .2 In natural systems maintain existing riffle/pool and step/pool patterns.
- 3.2 Site Clearing and Plant Protection .1 Conduct work to provide minimal disturbance to vegetated buffer zones. Protect trees and plants on site and adjacent properties where indicated.
- .2 Wrap in burlap, trees and shrubs adjacent to construction work, storage areas and trucking lanes.
- .3 Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage. Avoid unnecessary traffic, dumping and storage of materials over root zone.

- .4 Leave cuttings from trees and other vegetation on site as brush piles to allow for natural degradation. Secure large piles with degradable materials to prevent interference with watercourse.
- .5 Remove only trees that may offer future blockage problems as instructed by Department Representative.
- .6 Leave root mass and stumps in place.
- .7 Maintain temporary erosion and pollution control features installed under this contract.

3.3 Drainage

- .1 Pumping water containing suspended materials into watercourse is prohibited.
- .2 Establish rock chute spillways to accommodate safe surface water entry to watercourse as instructed by the Department Representative.

3.4 Site Restoration

- .1 Establish vegetated buffer zones with topsoil and seeding to minimum 3 m along edge of watercourse banks as determined by Department Representative.
- .2 Plant vegetation natural to area, suitable for application without requirement for fertilizers, pesticides and other chemicals.
- .3 Control streambank erosion in lower section of watercourse with irregular shaped rip rap underlain with non-toxic filter cloth of size specified by Department Representative.
- .4 Control streambank erosion in upper section of watercourse by planting suitable vegetation as directed by Department Representative. Planting to occur within 30 days after work on watercourse complete.