

PART 1 - GENERAL

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| 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

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| 2.1 Preparation | .1 | Obtain work permits from governing Federal, Provincial and/or Municipal Conservation authority. |
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PART 3 - EXECUTION

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| 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 Install drop pipe inlet system as instructed by 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.

END
