

PART 1 - GENERAL

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| 1.1 | Related Requirements | .1 | Section 01 13 00 – Submittal Procedures |
| 1.2 | Environmental Requirements | .1 | Operation of construction equipment in water is prohibited. |
| | | .2 | Use borrow material from watercourse beds only after receipt of written approval from Departmental Representative and authority having jurisdiction. |
| | | .3 | Design and construct temporary crossings to minimize environmental impact to watercourse. |
| | | .4 | Constructing temporary crossings of watercourses where spawning beds are indicated is prohibited. |
| | | .5 | Dumping excavated fill, waste material, or debris in watercourse or wetland is prohibited. |
| 1.3 | References | .1 | U.S. Environmental Protection Agency (EPA) / Office of Water |
| | | .1 | EPA 832/R-92-005, Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices. |
| | | .2 | British Columbia Ministry of Transportation Standard Specifications for Highway Construction (SS) |
| | | .1 | SS 766-12, Irrigation |
| | | .2 | SS 769-12, Protection and Retention of Vegetation |
| 1.4 | Action and Informational Submittals | .1 | Submit in accordance with Section 01 33 00 - Submittal Procedures. |
| | | .2 | Erosion and Sedimentation Control: submit copy of erosion and sedimentation control plan in accordance with EPA 832/R-92-2005 and authorities having jurisdiction. |

PART 2 - PRODUCTS

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| 2.1 | Not Used | .1 | Not used. |
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PART 3 - EXECUTION

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| 3.1 | Existing Conditions | .1 | Maintain existing flow in natural watercourse systems. |
| | | .2 | In natural systems retain existing riffle pool and step pool systems. |

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| | | .3 | In wetland systems, maintain existing hydrological conditions. |
| 3.2 | Site Clearing and Plant Protection | .1 | Temporary Erosion and Sedimentation Control: |
| | | .1 | Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to sediment and erosion control drawings, site-specific sediment and erosion control plan complying with referenced standards. |
| | | .2 | Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established. |
| | | .3 | Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal. |
| | | .2 | Minimize disturbance to vegetated buffer zones and protect trees and plants on site and adjacent properties where indicated. |
| | | .3 | Wrap trees and shrubs adjacent to construction work, storage areas and trucking lanes in burlap. |
| | | .4 | Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage. |
| | | .1 | Avoid unnecessary traffic, dumping and storage of materials over root zones. |
| | | .5 | Leave cuttings from trees and other vegetation on site as brush piles to allow for natural degradation. |
| | | .1 | Secure large piles with degradable materials to prevent interference with watercourse. |
| | | .6 | Remove only trees that may offer future blockage problems as instructed by Departmental Representative. |
| | | .7 | Leave roots mass and stumps in place. |
| | | .8 | Maintain temporary erosion and pollution control features installed under this contract. |
| 3.3 | Drainage | .1 | Pumping of water containing suspended materials into watercourse is prohibited. |

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| | .2 | Establish rock chute spillways to accommodate safe surface water entry to watercourse as directed by Departmental Representative. |
| | .3 | Install drop pipe inlet system as directed by Departmental Representative. |
| 3.4 Site Restoration | .1 | Establish vegetated buffer zones with suitable vegetation to minimum 3 m along edge of watercourse banks as determined by Departmental Representative. |
| | .2 | Plant vegetation natural to area, suitable for application without requirement of fertilizers, pesticides or other chemicals. |
| | .3 | Control stream bank erosion in lower section of watercourse with irregular shaped riprap underlain with nontoxic filter cloth of size determined by Departmental Representative. |
| | .4 | Control stream bank erosion in upper section of watercourse by planting suitable vegetation as directed by Departmental Representative. |
| | .1 | Ensure planting occurs within 14 days after work on watercourse is complete. |

END OF SECTION