

## **1.0 GENERAL**

### **1.1 RELATED SPECIFICATIONS**

- .1 Section 01391 Environmental Protection.

### **1.2 ENVIRONMENTAL LEGISLATION**

- .1 The Minister will obtain the environmental approvals, permits, licences, and authorizations required for the Project.
- .2 The Contractor shall familiarize itself with all applicable federal and provincial legislation and regulations concerning environmental protection and shall conduct its activities in accordance with such legislation and regulations, including, but not necessarily limited to, the provincial Environmental Protection and Enhancement Act and Water Act and the federal Fisheries Act and Navigable Waters Protection Act.
- .3 Comply with the conditions of all environmental approvals, permits, licences and authorizations issued for the Contract. Obtain any further environmental approvals, permits, licences and authorizations for temporary work as may be required for the Contract.
- .4 Provide the Minister with written confirmation of Contractor's full compliance with all approvals, permits, licences and authorizations before the full amount of holdback will be released.
- .5 The Contractor shall also familiarize itself with all applicable Codes of Practice issued by Alberta Environment and shall conduct its activities in accordance with such Codes of Practice, including, but not necessarily limited to, the Code of Practice for Asphalt Paving Plants and the Code of Practice for Pits, both under the Environmental Protection and Enhancement Act and the Code of Practice for Watercourse Crossings under the Water Act.
- .6 In the event of conflicting statements between the various Acts, Authorizations, Permits, and Codes of Practice, the more stringent requirement shall apply.
- .7 Keep on Site, copies of approvals, permits, licences and authorizations. Make these documents readily available to authorized persons at the Site. Keep documents on Site until the date of Warranty Performance of the Work or at such earlier dates accepted by the Minister.

### **1.3 ECO PLAN**

- .1 Prepare and implement an Environmental Construction Operations Plan for each phase of the Contract in accordance with the Alberta Transportation manual entitled "Environmental Construction Operations Plan (ECO Plan) Framework," May 2005 version. Completed ECO Plans consist of written procedures and drawings that address the environmental protection issues relevant to the site specific activity being performed and shall detail temporary environmental control measures that the Contractor undertakes to comply with all applicable legislation, regulations and approvals during the course of construction and during "winter shut down," and other similar "shut down".

- .2 Prepare the ECO Plan specific to the Work and the Site. Ensure effective implementation of the ECO Plan by assigning responsibility for the implementation, and maintenance of the work prescribed by the ECO Plan, including temporary erosion control measures, to one individual, herein called the work zone representative. The work zone representative shall be identified at the pre-construction meeting.
- .3 The ECO Plan shall not cover any permanent or long term environmental or erosion control devices or work specified in the Contract.
- .4 Submit the ECO Plan to the Minister at least 14 calendar days prior to the pre-construction meeting. The Minister will review the ECO Plan and communicate any concerns to the Contractor at least 7 calendar days prior to the pre-construction meeting. Address any issues or concerns regarding the proposed ECO Plan the satisfaction of the Minister prior to the commencement of the Work.
- .5 Finalized ECO Plans shall be agreed to by all parties and shall be signed by the Contractor's 'Principal-In-Charge' and the Contractor's work zone representative before the commencement of Work. When the Contractor's work zone representative changes, the new work zone representative shall provide a letter of acknowledgment to the Minister indicating that the new work zone representative has reviewed the ECO Plan and will comply with its requirements.
- .6 The finalization of the ECO Plan to the mutual satisfaction of the Minister and the Contractor does not constitute an approval or assurance from the Minister of Alberta Transportation that the "temporary environmental control measures" detailed in the ECO Plan are sufficient to ensure compliance with all applicable legislation, regulations or conditions of approval. The Contractor is ultimately responsible to ensure all measures, used on the Work, are sufficient to ensure compliance with all applicable authorities. This may mean increasing the number of installations, providing alternate devices or modifying procedures.
- .7 If at any time during the performance of the Work of the Contract, it is determined that the devices or procedures detailed in the ECO Plan (any specific measures, locations or quantities proposed) are inappropriate or insufficient, the Minister will notify the Contractor in writing and the Contractor shall modify the ECO Plan accordingly.
- .8 The Minister may suspend work in cases where in the Minister's opinion the Contractor fails to comply with procedures stated in the ECO Plan. If the Contractor fails to adhere to finalized ECO Plans, the Minister may make other arrangements to have the Work done, and deduct the cost thereof from any money owing to the Contractor.
- .9 The cost of preparing the ECO Plan and the performance of all Work necessary to ensure compliance with the ECO Plan and applicable legislation, regulations or conditions of approval (with the exception of removing and disposing of material from silt containment ponds and sediment barriers) will be incidental to the Work and will not be paid for separately. For scope measurement and payment refer to Section 1280 Measurement Schedule. Removing and disposing of material from silt containment ponds and sediment barriers will be authorized by Change Order and valued in accordance with Section 00725 General Conditions clause 8.3 Valuation of Changes in the Work.

#### **1.4 GENERAL ENVIRONMENTAL PROTECTION REQUIREMENTS**

- .1 Advise the Minister as soon as possible of any accidents.
- .2 Conduct accident investigations.

#### **1.5 DISPOSAL OF WASTE MATERIALS**

- .1 Do not release, dump, spill or dispose of any substance into the environment that causes or could cause impairment of or damage to the environment or human health or safety. Mitigate to ensure compliance with all regulatory legislation, any wastes arising from the work and any other substances that causes or could cause impairment of or damage to the environment or human health or safety, and should Contractor fail to do so, the Minister may, without further notice, arrange the clean-up of such wastes and other substance at the expense of the Contractor.
- .2 Remove and dispose of any inert solid waste materials resulting from the work in accordance with Alberta Environment's Construction, Renovation and Demolition Waste Reduction Guidelines and as determined by the Minister prior to Total Performance of the Work or other time scheduled in the Contract Documents. The Contractor may temporarily store such material in interim stockpiles on the disturbed land.

#### **1.6 REPORTING PROCEDURES FOR SPILLS OF DELETERIOUS OR HAZARDOUS MATERIALS**

- .1 During the construction, any release of silt or other deleterious substance into a body of water or watercourse Contractor shall immediately report to the Minister, Alberta Environment and the Federal Department of Fisheries and Oceans (1-800-222-6514).
- .2 In the event of the release of silt or other deleterious substance into a body of water or watercourse, the Contractor shall take all reasonable measures to contain the release and repair any damage at its expense.
- .3 Spills or releases of hazardous materials and any other substances that cause or could cause impairment of or damage to the environment or human health or safety shall also be immediately reported to the Minister, Alberta Environment and, if a body of water or watercourse is involved, the Minister, Alberta Environment and the Federal Department of Fisheries and Oceans (1-800-222-6514). Take all reasonable measures to contain the spill and cleanup and any such work shall be performed in accordance with the applicable legislation and regulations at the Contractors' expense.

**END OF SECTION**