

## **1.0 GENERAL**

### **1.1 NOTE**

- .1 Tree and brush clearing has been completed through a separate contract. Work anticipated involves grubbing and removal of tree stumps and roots. If additional tree felling is identified as being required, it will be managed as a Change.
- .2 All Elm trees identified for removal to construct the Work have been cleared and disposed of under a separate contract.

### **1.2 SUBMITTALS**

- .1 Submit a Work Plan outlining the beneficial re-use of mulched clearing materials if mulching is to be proposed on-site.

## **2.0 EXECUTION**

### **2.1 PREPARATION**

- .1 Protect trees, shrubs, and other vegetation within the specified site clearing and grubbing areas that are designated to remain in place, against unnecessary cutting, breaking, and any other damage.
- .2 Protect from damage, fences, roadways, and other existing site improvements within the specified site clearing and grubbing areas that are designated to remain in place.
- .3 Protect survey reference points from damage.
- .4 All equipment entering the project site must be cleaned before arrival to prevent the spread of weed species

### **2.2 REMOVAL**

- .1 Remain in compliance with the Migratory Birds Convention Act and the Alberta Wildlife Act.
- .2 Remove all logs, trees, brush, stumps, roots, and other deleterious material from the specified areas except for trees or vegetation designated to be preserved.
- .3 Remove all roots (greater than 50 mm in diameter) and other deleterious materials to 1 m below the ground surface.
- .4 Limbing of tree branches that extend into the specified clearing area is not required.
- .5 For trees that are designated to remain, cut only roots or branches that interfere with the Permanent Work and treat the roots or branches with a non-toxic horticultural emulsion authorized by the Owner.
- .6 Finish the cleared areas to a neat and levelled condition.

## 2.3 DISPOSAL

- .1 Burning is not permitted on the Site. Load, transport, and dispose of debris at an approved off-Site waste disposal facility.
- .2 Mulching on-site may be considered with prior approvals obtained from the Owner. Mulching will only be considered where the beneficial re-use of the resultant materials can be demonstrated by the Contractor.

## 2.4 SUPPLEMENTARY - ENVIRONMENTAL

- .1 The following environmental specifications are not anticipated to be required in this contract but are to be adhered to as applicable to a Change.
- .2 Black Knot Fungus: To control the spread of black knot fungus, caused by *Dibotryon morbosum* or *Apiosporina morbosa*, contractors must develop and implement a site-and species-specific weed management plan, as per Alberta Weed Control Act and Weed Control Regulations. A localized weed survey is to be conducted between June and August at construction sites and along equipment movement corridors to identify any weed species present. All equipment entering the project site must be cleaned before arrival to prevent the spread of weed species. Removing and destroying wood infected with black knot fungus is the only way to control the disease once it is present. If black knot fungus is identified, the diseased wood must be immediately removed and destroyed, by burning or burial, to prevent the spread of spores. Owner has established designated sites for the disposal of black knot fungus.
- .3 Dutch Elm Disease: To control the spread of Dutch Elm Disease, caused by *Ophiostoma ulmi* or *Ophiostoma nova-ulmi*, European Elm Bark Beetle (*Scolytus multistriatus*) and Native Elm Bark Beetle (*Hylurgopinus rufipes*), contractors must develop and implement a site-and species-specific weed management plan, as per Alberta Weed Control Act and Weed Control Regulations.  
The Contractor shall carry out his or her operations in accordance with the provisions in the attached Alberta Government Dutch Elm Disease Prevention and Control Plan and the Best Management Practices outlined in the Alberta Dutch Elm Disease Prevention and Control Plan Management Plan which is available on-line at the following location:  
<http://www.alberta.ca/dutch-elm-disease.aspx>  
<http://www.alberta.ca/dutch-elm-disease-prevention-what-you-can-do.aspx>  
Removing and destroying wood infected with Dutch Elm Disease / European Elm Bark Beetle / Native Elm Bark Beetle is the only way to control the disease once it is present. If Dutch Elm Disease / European Elm Bark Beetle / Native Elm Bark Beetle is identified, the diseased wood must be immediately removed and disposed of, by burial, to prevent spread. Owner has established designated sites for the disposal of Dutch Elm Disease / European Elm Bark Beetle / Native Elm Bark Beetle. The Contractor shall haul any Dutch Elm Disease / European Elm Bark Beetle / Native Elm Bark Beetle found on Site and removed to a designated burial site for disposal.

**END OF SECTION**