

GNP Rogers Pass Danger Tree Removal

1) Reference Documents:

- Rogers Pass Danger Tree Removal - Location Maps;
- Schedule B – Operational Requirements;
- Schedule D - Environmental Protection Measures;
- Parks Canada National Best Management Practices (2015)

2) Statement of Work

A Contractor will provide the services required for the removal of danger trees from the specified locations listed below:

- **Illecillewaet Campground**
 - Approximate number of dead standing tree removals:
 - 175 trees, predominantly Grey
 - Approximately 5,000 cubic metres
- **Monument DUA**
 - Approximate number of dead standing tree removals:
 - 240 trees, predominantly Grey
 - Approximately 3,000 cubic metres

Work will be completed between **by November 30, 2020** in accordance with Schedule B – Operational Requirements.

The Contractor will:

- Complete all hand falling and mechanical / assisted falling near facilities and within 2 tree length distance from the Trans-Canada Highway (TCH) as identified on the location maps.
 - All trees to be removed shall be flagged by the Owner prior to the start of works.
- Provide traffic accommodations for felling of trees adjacent to the TCH.
- Perform mechanical removal of fallen timbers from site including processing (i.e. limbing, forwarding, bucking, etc), and decking of merchantable timber for future incorporation in PCA works
 - Contractor must use equipment capable of minimizing ground disturbance and impact to surrounding vegetation as outlined in Schedule D - Environmental Protection
 - Future transport and processing for PCA use will be by others
- Complete pile burning (<2m high/wide) of debris and non-merchantable timber in forested area or at other locations approved by the Departmental Representative
 - Burning must be completed in accordance with Schedule D - Environmental Protection Measures

- Complete final site cleanup, with remaining debris / waste hauled to the East Gate Laydown site or outside of the National Park.
- Complete final site rehabilitation within campground / DUA and along roadway in accordance with Schedule D - Environmental Protection Measures.

Contractor will facilitate Departmental Representative (DR) site access during the work.

Contractor must:

- Establish safe access to all sites according to applicable regulations and codes;
- Submit a health and safety plan which includes emergency response

Contractor must submit a site-specific Environmental Protection Plan (EPP) for review and approval prior to starting the work.

Mitigations will include:

- On-site briefing with Parks Resource Conservation and Fire Management Officer;

3) Measurement and Payment:

Payment for Mobilization and Demobilization will be made under **“Lump Sum Price Item 1 – Mobilization / Demobilization”**. 50% of Lump Sum Contract Price for Mobilization and Demobilization to be paid when mobilization to site is complete with the remaining 50% to be paid upon completion and acceptance of the works.

The payment for the removal of danger trees and associated works for each locations shall be made under **“Lump Sum Item 2 – Removal of Danger Trees and Associated Works”** and shall include all equipment, materials and labour required to complete the works.

Applicable safety and environmental protection measures shall be considered incidental to the work and no additional payment shall be made.

Traffic accommodation (if required) shall be considered incidental to the work and no additional payment shall be made.

Allowances:

Should the DR request additional work beyond what is described, payment at negotiated prices or rates will be made under **“Lump Sum Item 2 - Prime Cost Sum”**.

- Include in Contract Price the nominal Prime Cost Sum amount of **\$20,000**.
- Prime Cost Sum provided for in the unit price table is not a sum due to the Contractor. Rather, it is an allowance for unforeseen, and payment will only be made against it for additional miscellaneous work specifically requested
- Any additional work must be approved by the Departmental Representative prior to commencement

4) Constraints:

Best Management Practices:

- The Contractor must follow all of the Parks Canada Best Management Practices (BMP).

Wildlife:

- All food and garbage must be stored in wildlife proof containers.
- Any problems including aggressive encounters with wildlife will be reported immediately to park designate.

Aquatics and Hydrology:

- All works and activities will comply with the *fisheries Act* and the Measures to Avoid Causing harm to Fish and Fish Habitat (Departments of Fisheries and Oceans).
- Managing the risk of spread of Whirling Disease from equipment will be achieved by respecting the mitigations identified in the parks Canada Memo: Whirling Disease and Fire Operations.
- If work is required in riparian zones or to cross streams, it will be undertaken in accordance with the Fisheries Act (the Measures to Avoid Causing harm to Fish and Fish Habitat) and applicable provincial guidelines, (ie. *The British Columbia Fish-stream Crossing Guidebook (2012)*).

Equipment operations:

- Ensure heavy equipment arrives on site in a clean condition (power washed) free of invasive species, noxious weeds and soils from off site.
- All equipment must be properly tuned, free of leaks, in good operating order and fitted with standard air emission control devices and a fire extinguisher.
- Complete daily inspection of heavy equipment, particularly hydraulic lines, and conduct preventive maintenance.
- Minimize idling of engines at all times to reduce air and noise pollution.
- Machines to work within 30 m of waterbodies need to have biodegradable hydraulic fluid.
- Major maintenance of equipment will take place at local garages or maintenance yards. Maintenance will be conducted on hardened or impermeable surfaces such as mini-berms where it is not possible to transport to garage.
- Repairs requiring draining or replacement of petro-chemicals based fluids will be conducted over impervious containment at least 100 m from any watercourses.
- Heavy equipment will be parked on tarps overnight to detect and contain leaks.

Fuel and hazardous Material Management:

- Equipment will be fueled on hardened or impervious surfaces.
- Refueling motor vehicles and heavy equipment will be done on level terrain at least 100 m from water sources, riparian zones, and sensitive areas.
- All fuel storage containers/tanks shall be free of leaks. Fuel nozzles will be equipped with automatic shutoffs and hoses will have breakaways couplings.
- All fueling trucks must be equipped with adequate spill clean-up materials.

- Fuels, lubricants, petro-gels or oils will not be stored within 100 m of streams, wetlands, or sensitive sites unless absolutely required for operational capacity.
- Used fluids and other hazardous waste must be disposed at federal, provincial, or municipal approved recycling centers or transfer locations.

Spill Response:

- Contractors are responsible to provide a spill response plan.
- Spill kits of sufficient size to contain and clean up 110% of the site's largest possible fuel/chemical spill must be retained on site at each location of potential spills (sites where equipment is working). All personnel on site must be aware of the kits, their location and proper use.
- Spills of greater than 5 litres, or any spills in water, of fuel, lubricant, oil, hydraulic fluid, chemical or solvent must be contained, cleaned up and immediately reported to the Park's Canada project manager.
- Disposal of contaminated soils and material will be outside the park at certified landfills. Documentation demonstrating proper disposal must be provided to the Parks environmental management specialist.

Protocols for discovery of archeological or cultural sites of interest:

- Should any cultural resources be unearthed during site preparation, or discovered at any other stage of the project, work will be halted in this area until the find is evaluated. If workers accidentally find any significant isolated cultural resources while they are working, work will cease in the immediate area. The project manager, a Parks Canada archaeologist, and/or a cultural resource advisor will be contacted to discuss any protective actions that might be needed. Significant isolated historic items may include but are not limited to: historic cabin foundations or dumps, concentrations of turn-of-the-century bottles or cans, structural features related to early road construction, or pre-contact resources such as concentrations of butchered animal bone, hearths, stone features, or archeological artifacts.

5) Contractor Requirements

Contractor team:

- The Contractor is responsible for co-ordinating and directing all contractor and sub-contractor team activities. The Contractor team must be comprised of qualified professional and technical expertise with extensive relevant experience and must be capable of providing the services identified in this requirement.

Standard of care:

- The Contractor must demonstrate that the project will be undertaken utilizing best practices of the professions, manufacturers, and trades involved and must meet or exceed the requirements of all applicable standards and codes.

Errors and Omissions:

- No fee payment will be made by Parks Canada Agency based on the cost of work incurred to remedy errors or omissions, for which the Contractor is responsible.

Changes in services:

- The Contractor, if requested in writing to do so, will make any required changes in the work for the project notwithstanding his or her previous approval and advise the Parks Canada Agency Representative of any changes to the time, schedule, budget and other implications. The Contractor will provide an estimated cost for the required changes to the Parks Canada Agency Representative.

Health and Safety:

- The Contractor is required to perform a site-specific safety hazard assessment and provide a site specific health and safety plan related to the project.
- The Contractor is responsible for the health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they are affected by conduct of work.
- The Contractor must report all accidents to the Parks Canada Agency Representative immediately.
- The Contractor must comply with and enforce compliance by employees and sub-contractors with safety requirements of contract documents, applicable federal, provincial, territorial and local statutes, regulations and ordinances and with site-specific Health and Safety Plan.
- The Contractor must comply with Occupational Health and Safety Regulations, General Safety Regulation, Province of British Columbia.
- The Contractor must comply with Canada Labour Code, Canada Occupational Safety and Health Regulations.
- When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of work, the Contractor must follow procedures in place for Employee's Right to refuse work in accordance with Acts and Regulations of British Columbia and advise Parks Canada Agency representative verbally and in writing.
- The Contractor must ensure applicable items, articles, notices and orders are posted in a non-conspicuous location on-site in accordance with Acts and Regulations of Province of British Columbia, and in consultation with the Parks Canada representative.
- The Contractor must immediately address health and safety non-compliance issues identified by authority having jurisdiction or by the Parks Canada representative. Provide Parks Canada representative with written report of action taken to correct non-

compliance of health and safety issues identified. Parks Canada representative will stop work if non-compliance of health and safety regulations if not corrected.

- The Contractor must give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for work.

Standards, Guidelines, codes, by-laws, Permits:

- The Contractor is required to obtain a Restricted Activity Permit from Parks Canada for excavation, water withdrawal, or all-terrain vehicles and machinery to be used off paved surfaces prior to mobilizing. The permit must be kept on site at all times.
- The following apply to the activities in connection with this project:
 - Canada National Park Act and Regulations.
 - Most recent CSA standards.
 - Local Provincial and Municipal Codes, Standards and Regulations accepted as having jurisdiction in the National Parks where work is being performed and for which the requirements are more stringent than those named above, must be followed.

Risk management:

- The Contractor will perform work with adequate safety personnel to monitor safety and mitigate risk to assets.

Responsibilities of contractor:

- The Contractor must ensure all work meets the prescribed standards identified herein.
- The Contractor will be responsible for arranging and undertaking all services necessary to complete this project.
- The Contractor will be responsible for ascertaining the availability of all information from Parks Canada representative prior to the start of the project and for determining the procedures to be followed throughout the course of the project as well as other requirements.
- The Contractor must maintain direct communication with the Parks Canada representative. All correspondence and communications must be addressed to the Parks Canada representative.
- The outline of deliverables and process, as presented in the brief, are intended as a general outline only. It is not exhaustive and does not preclude alternative or supplementary approaches as suggested by the Contractor for consideration by the Parks Canada representative.
- Contractor and sub-contractors must obtain a business license from the Parks Canada

Administration Office prior to commencement of work.

- Contractor and sub-contractors business and private vehicles are required to obtain a vehicle work pass from Parks Canada. These passes are obtain free of charge at the Parks Canada Administration Building with proof of business license.

6) Project Administration Requirements

Project management:

The Parks Canada Representative shall:

- Facilitate a contract between the successful contractor and Parks Canada;
- Perform general project management duties, as required;
- Arrange meetings as required throughout the duration of the project, for all members of the project team, including representatives from Parks Canada and contractor; and
 - Meetings will normally be held on-site.

The Contractor will:

- Attend the meetings;
- Answer any questions as required;
- Advise Parks Canada when work is nearing completion so that final site inspection can be arranged prior to invoices being issued; and
- Advise Parks Canada in writing of outstanding information needed to proceed with the project.

Lines of communication:

- All formal directions regarding project scope, budget, schedule, etc. must come from the designated Parks Canada representative, in writing.

Media:

- The Contractor must not respond to requests for project related information or questions from the media. All media related inquiries are to be directed to the Parks Canada representative