



Statement of Work

1.0 PURPOSE

This Statement of Work has been developed to solicit bids for linear meter line painting including yellow center lines (solid, double solid, and passing), white fog lines, island cross-hatching, and turn lane arrows within Hwy #4 Pacific Rim National Park Reserve.

2.0 SCOPE OF WORK

1. Highway #4 Park North-South Boundary

- All new line painting will match existing lines and symbols as follows:
 - Double solid centerline (yellow) – 11.3 km
 - Solid and broken double centerline (yellow) – 5.8 km
 - Single broken centerline (yellow) – 1.5 km
 - Cross-hatched median (yellow) – 2.1 km
 - Turning lane (white) – 1.0 km
 - Turning arrows (white) – 29
 - Fog lines (white) – 45.2 km
 - Crosswalk (white) – 5
 - Hwy 4 - Rainforest Trail parking lot
 - Hwy 4 / Wick Road intersection
 - Hwy 4 / Radar Hill Road intersection
 - Wick Road - Sandhill Creek Bridge
 - Wick Road - Shorepine Bog Parking
 - Speed reduction lines (white) – 20 (5 lines marking 60km/h speed reduction either side of Rainforest Trail parking lot and Radar Hill Crossing)

2. Side roads

- All new line painting will match existing lines and symbols
 - Radar Hill Road – Single solid line (yellow) – 1.6km
 - Grice Bay Road - Single solid line (yellow) – 3.5km
 - Wick Road - Double solid centerline (yellow) – 3km (East to West at top of S curve)
 - Wick Road - Single solid line (yellow) – 1km (top of S curve to North end of road past parking lots)
 - Green point campground - Single solid line (yellow) – 0.3km

3. New markings

- All locations shall be confirmed with Departmental Representative
 - Turning arrows (white) – 3
 - Crosswalks – 4
 - Each stripe to be 3m x 0.6m, spaced at 0.6m apart and crossing 2 travel lanes. (Estimated total of 6 stripes required).

Note: Quantities provided are approximate and verification is the responsibility of the Contractor

3.0 CONTRACTOR RESPONSIBILITIES – PROJECT SPECIFICATIONS

The Contractor shall / shall use:

MATERIALS

Paint:

- To CGSB 1.74-2001-CAN/CGSB, alkyd traffic paint.
- Colour: to FED-STD-595B, yellow 33538 and white 37925.

Thinner: to CAN/CGSB 1.4-2000.

Glass beads:

- Overlay type: to CGSB1 GP 74M.



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SUPPLY, STORAGE AND HANDLING

- The Contractor must make all arrangements for the supply and delivery of paint and glass beads and shall provide the Departmental Representative with records of all materials received and/or returned, upon request.
- The Contractor shall provide, maintain and reclaim all material storage sites.
- No paint formulation shall be diluted or mixed with a different formulation or with any other material, without the specific approval of the Departmental Representative.
- The Contractor shall take all necessary steps to prevent contamination of the materials. Paint shall be protected from freezing.
- The Contractor shall be responsible for the proper cleanup of waste or spilled material, and the proper disposition of containers.

EQUIPMENT REQUIREMENTS

- Paint applicator to be an approved pressure type mobile distributor capable of applying paint in single, double and dashed lines. Applicator to be capable of applying marking components uniformly, at rates specified, and to dimensions as indicated, and to have positive shut off.
- Distributor to be capable of applying reflective glass beads as an overlay on freshly applied paint.
- Provide all materials, vehicles, equipment, labour, mobilization, demobilization, travel etc. to perform the Work;
- All work must be completed using safety vehicles and traffic control.

CONDITION OF SURFACES

- Pavement surface to be dry, free from ponded water, frost, ice, dust, gravel, dirt, oil, grease and other foreign materials. Pavement to be cleaned prior to application of the paint.

APPLICATION

- Pavement markings to be laid out by Contractor.
- Apply paint only when air temperature is above 10°C, wind speed is less than 60 km/h and no rain is forecast within next 4 h.
- Apply traffic paint evenly at rate of 3 m²/L.
- Do not thin paint unless approved by Departmental Representative.
- Paint lines to be of uniform colour and density with sharp edge.
- Thoroughly clean distributor tank before refilling with paint of different colour.
- Apply glass beads at rate of 200 g/m² of painted area immediately after application of paint.

TOLERANCE

- All new line painting will match existing lines and symbols. Remove any incorrect markings as directed by the Departmental Representative.

3.1 CONSTRAINTS:

- All work be performed in accordance with the ordinances, laws, rules and regulations set out in the Canada National Parks Act.
- All contractors and workers must go through, and abide by, an environmental awareness tailgate session with Resource Conservation staff prior to start date.
- Submit health and safety plan, at minimum one week prior to starting work, that includes, but is not limited to the following:
 - A work plan describing the intended methods of work and projected equipment and personnel on site.
 - Safe work practices.
 - An environmental plan detailing remediation of any environmental spills in



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- relation to the work. A spill kit shall be present while work is being completed in the park.
- Detailed traffic control and management plan in accordance to the BC Transportation Guidelines.
- Emergency plan.
- Successful contractor shall have a valid park business license prior to work starting.
- The contractor is restricted from conducting this work on statutory holidays and weekends.

3.2 ADDITIONAL CONTRACTOR RESPONSIBILITIES

- At minimum one week prior to starting work, the Contractor is responsible for providing Departmental Representative with the following information:
 - A quality control Inspection plan (QCIP) documenting the contractor's procedures for maintaining the quality of work as per these specifications. The Quality Control Inspection Plan shall address all the elements that affect the quality of the line painting including, but not limited to:
 - Paint Application Rates,
 - Glass Bead Application Rates,
 - Pavement Surface and Atmospheric Conditions, and
 - Line Widths, Line Lengths and Space Lengths.
 - The Contractor shall maintain records of QCIP data, complaints from the public, and other details relevant to the Work and shall provide these records to the Departmental Representative daily.
 - A list of key contractor personnel, including names positions and telephone numbers.
- Any associated travel costs required to perform the Work are the responsibility of the Contractor.
- The contractor must ensure all samples of paint and beads are presented 1 week prior to start date. Any change in product or quality must be in writing and clear communication of the changes will be given to and approved by the Departmental Representative. Samples are to consist of 1 L samples of each type of paint and 1 kg sample of glass beads. Mark samples with name of project and its location, paint manufacturer's name and address, name of paint, specification number and formulation number and batch number.
- All work shall be completed before October 1, 2023.

4. HEALTH AND SAFETY

The Line painting contractor will be the Prime consultant on site, with full responsibility for the Health and Safety of all internal staff as well as Parks Canada personnel entering the site to complete coordinated work.

4.1. THE CONTRACTOR SHALL:

- 4.1.1 The Contractor shall comply with the Canada Labour Code - Part 2 regulations as it applies to working within a Federal Government Workplace and working knowledge of occupational safety and health regulations in British Columbia.
 - 1.1.1. Be responsible for 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 may be affected by conduct of work.
 - 1.1.2. Comply with and enforce compliance by employees with safety requirements of Contract documents, applicable Federal, Provincial, Territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.



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- 1.1.3. Perform site specific safety hazard assessment related to project.
- 1.1.4. Schedule and administer Health and Safety meeting with Departmental Representative prior to commencement of Work
- 1.1.5. Provide all personal protective equipment and ensure it is used as required
- 1.1.6. Ensure first aid equipment will be available on all work sites
- 1.1.7. Record and properly document all close-calls, accidents and injuries.
- 1.1.8. When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.

5. ENVIRONMENTAL MANAGEMENT

5.1. CONTRACTOR RESPONSIBILITIES

- 5.1.1. Do not allow waste material, rubbish, and debris to accumulate and become an unsightly or hazardous condition. Maintain site in a clean and orderly condition
- 5.1.2. Removal of all construction debris and waste and disposal in an approved landfill.
- 5.1.3. Burning rubbish and construction waste materials is not permitted on site.
- 5.1.4. The Contractor shall ensure that all equipment is inspected daily for fluid/fuel leaks and maintained in good working order.
- 5.1.5. Fuel containers and lubricant products shall be stored only in secure locations specified by the Departmental Representative. Fuel tanks or other potentially deleterious substance containers shall be secured to ensure they are tamperproof and cannot be drained by vandals when left overnight at the Work location.
- 5.1.6. The Contractor shall prevent any deleterious and objectionable materials from entering streams, rivers, wetlands, water bodies or watercourses that would result in damage to aquatic and riparian habitat.
- 5.1.7. The containment, storage, security, handling, use, unique spill response requirements and disposal of empty containers, surplus product or waste generated in the use of any hazardous or toxic products shall be in accordance with all applicable federal and provincial legislation.
- 5.1.8. The Contractor shall provide spill kits at re-fuelling, lubrication, and repair locations that will be capable of dealing with 110% of the largest potential spill and shall be maintained in good working order on the construction site. The Contractor and site staff shall be informed of the location of the spill response kit(s) and be trained in its use.
- 5.1.9. The costs involved in a spill incident (the control, clean up, disposal of contaminants and site remediation to pre-spill condition), shall be the responsibility of the Contractor.
- 5.1.10. The Contractor and workers shall dispose of hazardous wastes in conformance with the Canadian Environmental Protection Act.