



P.O. Box 70
7170 Cheam Avenue
Agassiz, BC V0M 1A0
Tel: (604) 796-2235
Fax: (604) 796-9854

REQUEST FOR QUOTATION

2019-04 ROADWAY AND CROSSWALK MARKINGS

Section 1 - General

Submission of Quotations

The District of Kent is requesting quotations from contractors for the “**RFQ 2019-04 Roadway and Crosswalk Markings**”. Quotations can be dropped off or forwarded via mail to:

Mr. Matthew Connolly
Environmental and Engineering Services Coordinator
District of Kent
P.O. Box 70, 7170 Cheam Avenue
Agassiz, BC, V0M 1A0
Email: mconnolly@kentbc.ca

Quotations must be marked “**RFQ 2019-04 Roadway and Crosswalk Markings**”. Contractors must complete and submit the forms attached in Section 2 “Quotation Submission Requirements”. Closing time for quotations will be **no later than 3:00 pm local time, Friday May 24, 2019**. Technical questions regarding this RFQ can be directed to Mr. Chris Hardy, Public Works Foreman by calling 604-796-9005.

Project Discussion

The District of Kent is requesting quotations for the supply of all labor, supervision, traffic control, equipment and materials necessary to conduct Roadway Marking and Line Painting in accordance with the specifications, quantities and locations specified herein. All works must be completed by July 31, 2019.

Roadway Marking and Line Painting involves the preparation of pavement and the painting of 42 stop bars, 4 parallel type crosswalks and approximately 5,000 m of long line painting. All stop bars and crosswalks are to be thermoplastic.

Schedule:

Release of RFQ
RFQ Closing
Project Completion

May 10, 2019
May 24, 2019
July 31, 2019

Evaluation of Quotations

Quotations will be evaluated based upon the contractor's price, value, schedule, proposed product, alternatives and qualifications. The lowest or any quotation may not be selected.

Rejection of Quotations

The District of Kent reserves the right, at its sole discretion, to accept or reject any or all quotations in whole or in part and shall not owe a duty to any contractor for any liability or any costs incurred by the contractor.

Examination of Site and RFQ Documents

The contractor shall inform itself as to any and all aspects of the work including conditions affecting all site localities. The contractor agrees that it assumes the sole responsibility and risk to examine the sites and site conditions and to satisfy itself as to the practicability of executing the work in accordance with the agreement and it shall be held responsible to have satisfied itself of every particular before submitting its quotation.

The contractor shall, before submitting its quotation, satisfy itself as to the nature of the site(s), the quantity and nature of the work and equipment necessary for the completion of the work and the means of access to each site. In general, the contractor shall obtain all relevant information as to the risks, contingencies and other circumstances which may influence its quotation.

In submitting its quotation, the contractor agrees that it has satisfied itself as to the sufficiency of the quotation for the works outlined and the prices as stated on the quotation. These prices shall cover all its obligations and all matters necessary for the completion of the related work including the supply of all labour, equipment, permits, materials, supervision, traffic control, services, taxes and assessments together with the contractor's overhead and profit except where otherwise expressly provided by the District of Kent.

The District is not liable for any expense, damage or loss incurred as a result of any misunderstanding or error by the contractor regarding the work and conditions affecting it.

Section 2 – Quotation Submission

Requirements

The forms attached hereto under Section 2 of this RFQ must be completed, signed and submitted as part of the contractor's quotation. Quotations submitted must include:

- Quotation Sheet,
- Prime Contractor Relevant Experience,
- Key Personnel,
- Current W.C.B Clearance Certificate,
- Work Schedule, and
- Products to be utilized.

Additionally, contractors will be required to provide the following prior to proceeding:

- The District of Kent is to be named as "an additional named insured".
- To facilitate and save harmless the District, its servants, agents and employees, the Contractor or user shall maintain in force an insurance policy providing a minimum liability coverage of \$5,000,000.
- All Contractors working on-site are required to hold a current District of Kent or multijurisdictional business license and shall abide by all District bylaws.
- The contractor shall be responsible for providing all equipment, materials and manpower necessary to perform the required project including cones and signage.
- The contractor shall provide traffic control as needed using certified flag persons.
- The contractor must be registered and in good standing with Worksafe BC
- The contractor shall be responsible for applying Worksafe BC regulations to ensure the safety of all on-site personnel and the public.
- The contractor shall be designated as the Prime Contractor working on-site and is required to ensure the safety of all on-site personnel, other contractors, companies and the public.

Quotation Sheet

(Please Print Clearly)

Description	Estimated Quantity	Unit Price	Totals
Stop Bars (Thermoplastic)	42	\$	\$
Parallel Type Crosswalk (Thermoplastic)	4	\$	\$
Road Lines	5,000 metres	\$	\$
		SUBTOTAL	\$
		TAX	\$
		TOTAL	\$

Please Print Clearly

Company Name: _____

Contact Name: _____

Address: _____

Contact Phone No: _____

Email Address: _____

Authorized Representative's Signature: _____

Return Completed Quotations To:

**Matthew Connolly
Environmental and Engineering Services Coordinator
District of Kent
PO Box 70
7170 Cheam Avenue
Agassiz, BC, V0M 1A0
Tel: 604-796-2235
Email: mconnolly@kentbc.ca**

Contractor Relevant Experience

The following is a complete list of relevant project experience as related to this RFQ. The District of Kent requires a minimum of three references which are to be included below.

Project Description	Contact Name	Phone Number	Year

Key Personnel

Please identify all key personnel including the project manager, site supervisor and site safety coordinator. As a minimum please include the information below.

Position	Employee Name	Contact Number

Section 3 – Specifications

General Specifications

Contractors shall visit the site to satisfy themselves that they know the site conditions. A representative of the District will accompany the contractor's representative to provide any information requested.

- To arrange a site visit contact Chris Hardy, Public Works Foreman at 604-796-9005.

The District of Kent adheres to the current Master Municipal Construction Documents (MMCD). MMCD general conditions, clauses, terms, standards or specifications that are relevant to the project and not outlined in this RFQ are to be adhered to and followed by the Contractor.

Materials

Paint

- To CGSB 1-GP-149M, alkyd reflectorized traffic paint
- Color: to CGSB 1-GP-12C, yellow 505-308, black 512-301, white 513-301
- Equivalent paints may be used, but the District reserves the right to obtain samples for testing purposes prior to the commencement of work.

Thinner

- To CGSB 1-GP-5M

Glass Beads

- Overlay type to CGSB 1-GP-74M

Thermoplastic Material

1. Material composition shall be at the discretion of the manufacturer subject to the approval of the contract administrator (Director of Engineering Services). Each formulation shall be identified a code number.
2. No retained water when tested by ASTM D570
3. Specific gravity of the supplied product shall be within 3% of that specified for the selected formulation.
4. Material shall not deteriorate upon contact with de-icing chemicals, gasoline, diesel fuel or grease dropped by traffic.
5. Material shall not break down, deteriorate, scorch or discolour, if held within the application temperature range specified by the manufacturer for a period of four hours and it must be able to be reheated from room temperature to the application temperature four (4) times without showing any of these detrimental effects.
6. When applied at the temperature recommended by the manufacturer and at a film thickness of 2 to 4 mm, the material shall set solid and show no tracking under traffic after elapsed times as follows:
 - Two (2) minutes at an air temperature of 10° C, relative humidity less than 75%, and road surface temperature from 10° C to 20° C.
 - Five (5) minutes at an air temperature of 32° C, relative humidity less than 75%, and road surface temperature from 35° C to 50° C.
 - The drying time under conditions intermediate between the two air temperatures shall be interpolated using a straight-line model.
7. The quantity, type, and gradation of the component reflecting glass spheres premixed in the thermoplastic material shall be at the discretion of the manufacturer, but shall provide retro reflection levels specified below.

8. The colour of the marking to be brilliant white or yellow as specified. The brightness value shall exceed 70% for white and 45% for yellow obtained with a Gardner Multi-purpose Reflectometer when measuring 0° - 45° daylight luminous directional reflectance with the green filter.
9. The material shall have a softening point not less than 103° C when tested in accordance with ASTM D36 (ASSHTOM-249-79)

Method and Execution

Equipment Requirements

1. The paint shall be applied using equipment specifically for the purpose, and be capable of producing a finished product to the satisfaction of the District.
2. Paint applicator to be approved pressure type mobile distributor capable of applying paint in a single, double, and dashed lines. Applicator to have positive shut-off and be capable of applying marking components uniformly, at rates specified, and to dimensions specified.
3. Distributor to be capable of applying reflective glass beads, if required, as an overlay on freshly applied paint.

Condition of Surfaces

1. Pavement surface to be free from gravel, dust, oil, frost, grease, surface water, ice, and all other foreign materials.

Painted Markings Application

1. Lay out pavement markings.
2. Apply paint only when the air temperature is above 10 degrees Celsius and no rain is forecast.
3. The application of paint shall be no less than 28L per km. per single solid 100mm width line, (thinner not included). The above application rate is a minimum rate and should be increased by reducing the speed of the application vehicle to approximately 38L per km. in areas of high wear (curves, approach to the intersection of another lined road, etc.).
4. Paint lines to be of uniform color and density with clear/clean crisp edges.
5. Thoroughly clean distributor tank before refilling with paint of different color.
6. Apply glass beads immediately following the paint application.
7. Glass beads shall be applied at a rate of 18-21 kg beads for 100 mm wide single solid line.
8. Glass beads rate of 0.556 kg per liter (6 lbs per Imperial gallon).
9. All pavement markings to be in accordance with the latest addition of TAC Manual of Uniform Traffic Control Devices.

Thermoplastic Markings Application

1. Pavement shall be clean and dry and free of sand, gravel, loose dust and foreign matter.
2. Temperature of surface to be marked shall not be less than 50° C.
3. Thermoplastic material shall be heated in the melter to a temperature of 382° C.

Request for Quotation
District of Kent – 2019-04 Roadway Markings and Line Painting

4. Thermoplastic material thickness shall be:
 - Lane lines 0.090" (2.286 mm)
 - Stop bars and crosswalks 0.125" (3.157 mm)
5. Testing of material thickness to be determined by placing metal plate of known thickness in the area to be painted. Once applied the sample is removed and the material plus metal plate is measured.
6. Immediately following application glass spheres shall be dropped onto the molten surface. Spheres to be applied at a rate of 300 grams per square metre of line area.

Tolerance

Paint markings shall be within plus or minus 10 mm of specified dimensions.

Completed Work

Protect pavement markings until dry.

Section 4 – Locations and Map

Crosswalks, Road Markings and Stop Bars

All Crosswalks and Stop Bars are to be thermoplastic material

Street Location	Cross Street	Parallel Crosswalk	Stop Bars	Stop Bar Removal
Aberdeen Dr.	Fooks Rd.		1	
Ashton Rd. (S)	Highway 7		1	
Beaman Dr.	Centennial Ave.		1	
Birch Rd.	McCallum Rd.		1	
Cheam Ave.	Agassiz Ave.		1	
Davis Ln.	Highway 7		1	
Elm Rd.	Arbutus Dr.		1	
Elm Rd.	Vimy Rd.	1	1	
Falcon Pl.	Highlands Blvd.		1	
Fir Rd.	Pioneer Ave.		1	
Golf Rd.	Highway 9		1	
Hardy Rd.	McCallum Rd.		1	
Hayward Rd.	Bridge Rd.		1	
Highlands Blvd.	Woodside Blvd.		2	
Hunt Rd.	Cameron Rd.		1	
Industrial Way	Morrow Rd.		1	
Kalyna Dr.	Evergreen Dr.		1	
Key Rd.	Highway 9		1	
Logan Rd.	Arbutus Dr.		1	
McCaffrey Rd. (S)	Highway 9		1	
McCallum Rd.	Highway 9		1	

Request for Quotation
 District of Kent – 2019-04 Roadway Markings and Line Painting

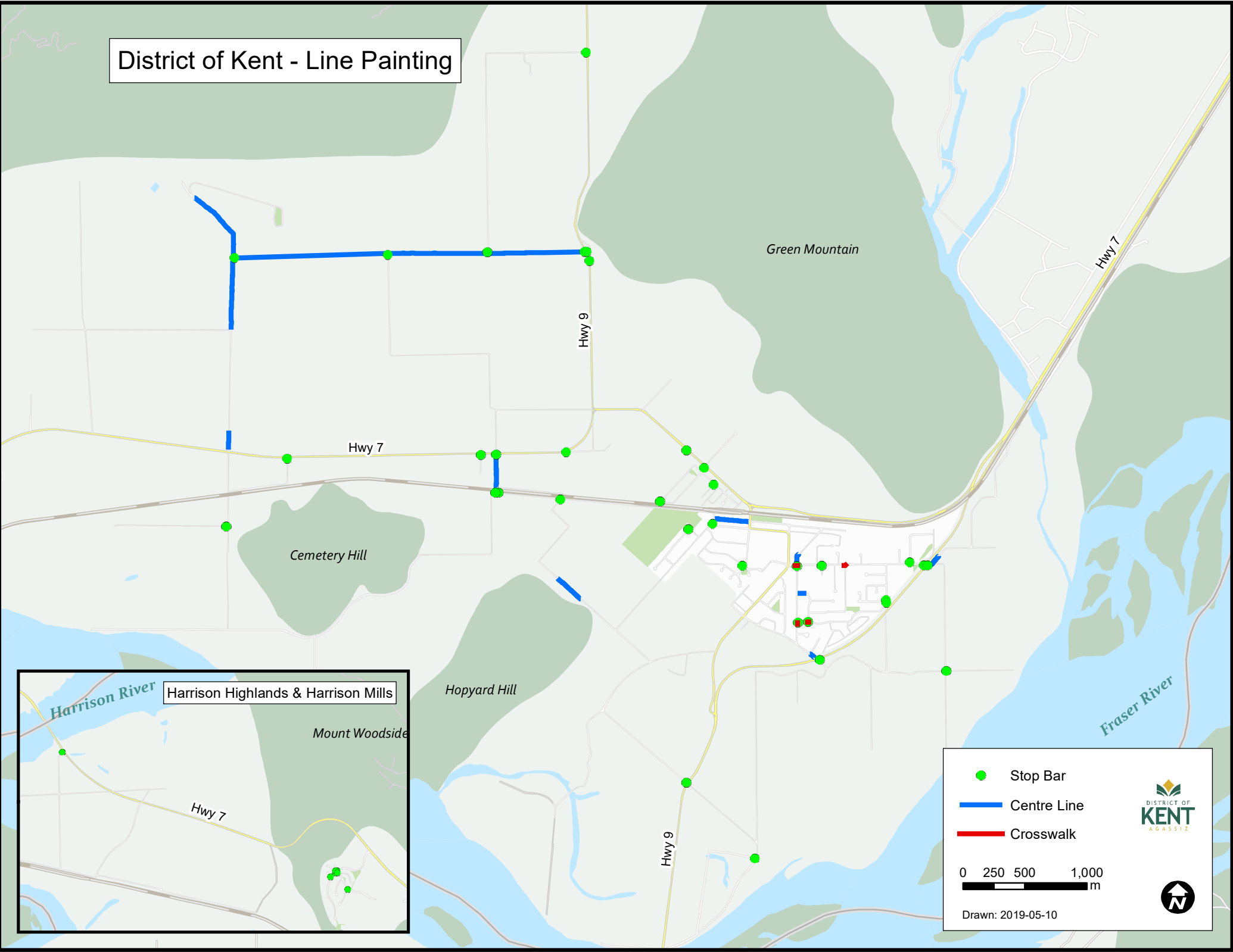
Street Location	Cross Street	Parallel Crosswalk	Stop Bars	Stop Bar Removal
McCallum Rd.	Cameron Rd.		1	
McDonald Rd. E	Tranmer Rd. (E)		1	
McDonald Rd. E	Haig Highway		1	
Morrow Rd.	Haig Highway		1	
Osprey Pl.	Woodside Pl.		1	
Parkwood Dr.	Morrow Rd.	1		
Pinewood Ave.	Elm Rd.	1	1	
Pioneer Ave. W	Ashton Rd.		2	
Probert Rd.	Inkman Rd.		1	
Rosevale Ave.	Morrow Rd.		1	
School Rd.	Highway 7		1	
Scott Rd.	Haig Highway		1	
Striker Cres.	Highway 9		1	
Striker Cres.	McCallum Rd.		1	
Vimy Rd.	Morrow Rd.	1	1	
Wells Rd.	Highway 7		1	
Whelpton Rd.	Highway 9		1	
Wilson Rd.	Highway 7		1	
Woodside Blvd.	Highlands Blvd.		2	
Total		4	42	

Line Painting

Road Name	Location	Line Type	Approx. Length (m)
Ashton Rd.	Highway 7 to Pioneer Rd.	Yellow Single Solid	300
Cameron Rd.	Highway 7 towards Humphrey	Yellow Single Solid	75
Cameron Rd.	Humphrey Rd. to McCallum Rd.	Yellow Single Solid	600
Cemetery Rd.	McCallum Rd. to road fork	Yellow Single Solid	700
Heath Rd.	Morrow Rd. to end of current line	Yellow Single Solid	30
McCallum Rd.	Highway 9 to Cameron Rd.	Yellow Single Dotted and Solid	2800
McCullough Rd.	Vimy Rd. to Pinewood Ave.	Yellow Single Solid	90
McDonald Rd. W	Highway 7 to Glenwood Dr.	Yellow Single Solid	50
Mountain View Rd.	In front of 6291 and 6271 Mountain View Rd.	Yellow Single Dotted	75
Pioneer Ave.	Evergreen Dr. to Agassiz Ave.	Yellow Single Dotted and Solid	300
Scott Rd.	Highway to end of current line	Yellow Single Solid	25
Total			5045

Appendix A – Map

District of Kent - Line Painting



Legend

- Stop Bar
- Centre Line
- Crosswalk

0 250 500 1,000 m

Drawn: 2019-05-10

