



City of Richmond

March 13, 2013
File: 10-6340-20-P.11203/Vol 01

Engineering
Telephone: 604-276-4289
Fax: 604-276-4197

TO THOSE WHO HAVE RECEIVED COPIES OF T.4784

Dear Sir/Madam:

**Re: Contract T.4784
Addendum No. 3
Westminster Highway Widening – Nelson Road to McMillan Way**

This addendum forms part of the Contract Documents and shall be read, interpreted and coordinated with all other parts. The costs of all work contained herein shall be included in the Contract Price. The following revisions supersede the information contained in the original Contract Document to the extent referenced and shall become part thereof.

Tenderers shall acknowledge receipt of this addendum by inserting its number and date where provided for on the Form of Tender.

Clarifications:

1. On page B-13 and page D-35, replace Item 3.2d 1200mm diameter sump manhole with 1500mm diameter sump manhole.
On Lc-1189 sheet 1 replace note for 1200mm diameter sump manhole with 1500mm diameter sump manhole.
2. On Page B-11 and Page D-26 Delete Item 2.3b Reclaimed Preload sand.
3. On Page B-12, Add Item 2.30 Remove existing lock blocks. The measurement and payment for this work shall read:

Item 2.30 Remove existing lock blocks (OPTIONAL ITEM)

Payment for this item will be made at unit price tendered per block removed. The unit price tendered shall include but not be limited to the removal and disposal offsite of surplus lock blocks, removal and disposal of associated drains and geogrid and any other materials, equipment and labour required to remove the lock block retaining walls associated with the preload.

4. On Signals Drawings Ec-789 and Ec-790 the existing note reads: The City and/or its agents will supply and install new communication cable(s) detector loops... controller cabinet.

After controller cabinet, Add: "all controller cabinet parts such as controller, conflict monitor, detector amps, load switches, all LED signal & pedestrian displays, all signal & pedestrian heads c/w visors and all signal backboards."

Note: The successful bidder needs to provide the City with two (2) weeks' notice prior to pick up of materials from the City Stores Department located at the Works Yard.

5. Item 2.4 Subgrade Preparation (Optional Item) has been separated into two pay items – Subgrade preparation – preload; and Item 2.4a; and Subgrade preparation – native soil, Item 2.4b. The measurement and payment for Item 2.4a and Item 2.4b will be as described in Item 2.4 Subgrade preparation on page D-26.
6. Fire Hydrants – Item 4.3
Tie in of new fire hydrants to existing water system to be completed by City Forces.
7. In addition to the materials stated in the Section 33 40 01 of the City of Richmond's Supplementary Specifications, Sanitite HP pipe is an approved alternate product.
8. Contaminated Soils
An Environmental Soil Investigation report from Thurber Engineering Ltd. dated February 01, 2013 is included for information.
9. Item 2.2b, Organic Stripping Contaminated Soils is a Provisional Item.

The description of payment on page D-24 shall be replaced with the following:

Payment for this item will be made at Force Account Rates and will be limited to those regions determined to be contaminated by the Contract Administrator and shall include all labour, fees, and trucking for disposal off-site.

Measurement will be made using end area methods and based on before and after excavation cross sections at sufficient equal intervals over the length of excavation or a method agreed between the Contractor and Contract Administrator.

10. Concrete Barrier Removal

Add the following item:

Concrete Barrier Removal – Item 2.29

Payment for this item shall be at the unit price tendered per linear metre of barrier removed. The unit price tendered shall include but not be limited to the removal and disposal offsite of existing concrete barriers and all equipment, materials and labour required to complete the works as shown on the Contract Drawings. The relocation of existing concrete barriers shall be considered incidental to this work.

Measurement will be made along the centerline of the barrier.

11. Storm Sewer Crossing CN Rail tracks

The tenderer is advised that the successful bidder will be responsible for meeting the construction requirements of Canadian National Rail (CNR) for the storm sewer rail crossing at Old Westminster Highway. The successful bidder will be responsible to coordinate with the Engineer and the City of Richmond to secure the crossing permit. The permit process has been initiated.

Rail Crossing Premium - Item 3.8 (OPTIONAL ITEM)

Payment for completing the works under the CN Rail tracks within the CN Right of Way includes the supply and installation of all required materials other than the 1200mm diameter storm sewer pipe. This item includes anticipated costs associated with additional materials, additional insurance, stopping work and standby time when trains are passing, addition equipment and/or labour that may be used to expedite work within the right-of-way and other costs associated with working near an active railway. Payment will be made at the lump sum price tendered and will be paid based on the percentage of work completed.

12. On Page D-23 Item 1.1 Mobilization and Demobilization shall read:

Payment for mobilization shall be made at 80% of the Contractor's lump sum tendered amount and the remaining 20% shall be made at the Progress Payment following the date of Substantial Completion.

- .1 The Contractor's Mobilization and Demobilization tendered amount shall include the costs associated with mobilizing manpower, materials and equipment onsite and offsite, and shall also include final clean up of the site.
- .2 The tendered price shall not exceed 3% of the Contractor's total tendered amount.

13. Deltalok Embankment, Item 3.4c.

On page D-37, Item 3.4c shall read:

Payment for this optional item will be made at the unit price tendered per square meter of embankment constructed and shall include but not be limited to excavation and disposal of surplus excavated material, site isolation, bypass pumping, dewatering, erosion control measures, supply and placement of Deltalok bags, and connectors and any other materials, equipment and labour required to complete the work as shown on the contract drawings, and to the satisfaction of the contract administrator.

14. On Page D-36, 150mm Diameter connection c/w cap – Item 3.3g should read:

Payment for this item will be made the unit price tendered per linear meter of pipe placed and shall include but not be limited to all materials and labour, excavations, removals and disposals of all materials within the trench; site isolation, dewatering, flow management, installations and connections of existing and proposed mains, related fittings, flushing, video inspection and backfill as required and any other works identified in MMCD Section 33 40 01.

15. On Page D-37, 600mm diameter Catch Basin Lead – Item 3.3h should read:

Payment for this item will be made the unit price tendered per linear meter of pipe placed and shall include but not be limited to all materials and labour, excavations, removals and disposals of all materials within the trench; site isolation, dewatering, flow management, installations and connections of existing and proposed mains, related fittings, flushing, video inspection and backfill as required and any other works identified in MMCD Section 33 40 01.

16. Add:

Re-lay Existing Mains and Connections 3.1d (OPTIONAL ITEM)

Payment for this item will be made at the unit price tendered per linear meter of pipe relayed for each diameter specified in the Schedule of Quantities and Prices. Each unit rate shall include but not be limited to excavation and disposal of surplus excavated material, site isolation and dewatering, flow management, salvage of existing pipe, bedding, relaying salvaged pipe, backfill and compaction to top of subgrade, flushing, video inspection and any other materials, equipment and labour required to complete the works as shown on the Contract drawings at DMH 05, DMH08, DMH 11 and DMH 12. The connection of other existing pipes is covered under other pay items.

17. Street Lighting Materials:

The City of Richmond will supply the successful bidder with street light poles and luminaire heads only. The Contractor must provide the City with two (2) weeks' notice prior to pick up of materials from the City Stores Department located at the Works Yard.

18. Project Phasing:

Preloading is currently in progress from approximately STA 1+440 to STA 2+425 and it is expected to remain in place until at least fall/winter 2013. The work described in this Contract within the preloaded area will commence upon completion of the preload and upon approval from the Geotechnical Engineer.

In the areas without preload, work is expected to commence upon award of the contract. Refer to the Geotechnical report included in the tender documents for recommendations relating to the placement of embankment fill and paving.

19. Salvaged Material:

Salvaged material such as metal manhole lids, catch basin lids, street light poles, luminaires, and fire hydrants are to be returned to the City of Richmond Public Works Yard subject to approval from the Contract Administrator.

20. The Form of Tender has been revised. A summary of changes in additions to those noted above is included:

- a. Removal of HST and PST
- b. Replace Item 2.5 Granular Sub Base, River Sand with Item 2.5 Granular Sub Base, Crushed Granular Sub Base Course
- c. Item 3.7a Culvert Relining is an optional item
- d. Quantities for Items 2.7, 2.18a, 3.2a and 3.2b have been revised
- e. Delete Item 2.8 - Asphalt prime coat, and Item 2.18b – Concrete Sidewalk – 200mm thick
- f. Item 2.16 – Top Soil and 2.17 – Supply and Install Hydraulic Seeding are optional items
- g. Section 4 – Waterworks has been deleted; work to be completed by City.

Questions:

Q1: Tender item 2.9a Asphalt Pavement Lower Course /tonne – Does the tender per tonne quantity/ unit rate include the bike path as well as the road base course?

A1: The unit rate for Item 2.9a includes the bike path asphalt. The gravel base is included in Item 2.6a Granular Base.

Q2: Tender item 3.4c Deltalok Embankment. Can you provide a detail or required area for each headwall?

A2: Item 3.4c is an Optional Item. If required, the embankments are to be installed around the headwalls where the ground slope or soil conditions warrant additional support. Deltalok embankments are to be installed as per the manufacturer's specifications. See clarifications above regarding measurement and payment.

Q3: Tender item 3.7a 1200 culvert relining. Can you provide a specification to reline the existing culvert and/or related details?

A3: Item 3.7a is an optional item. If relining is selected as a method of construction, the Contractor shall be responsible for designing the lining to meet MMCD, City of Richmond Supplementary Specifications, ASTM standards including ASTM D5813 and CN Rail utility crossing requirements. The lining must be designed to withstand the applied loadings from the railway as defined by CN Rail. The design drawings for the culvert lining must be signed and sealed by a professional engineer and submitted to the Contract Administrator for review prior to installation. The Contractor is responsible for all materials, labour and equipment required to supply and install the liner.

Calculations of pipe flow before and after liner installation shall be submitted to the Contract Administrator for approval. The liner shall be sized such that there is no loss in capacity of the existing sewer. The Contractor shall field measure the internal circumference of the sewers to determine the exact size of liner that is required so that the liner is tight to the wall of the existing pipe.

The length of the liner shall be that deemed necessary by the Contractor to effectively carry out the insertion and sealing of the liner at the inlet and outlet points. The Contractor shall verify the lengths in the field before cutting the liner to length.

Q4: Drawing Lc-1189 sheet 1 – shows a 10m of 900mm concrete storm, Ecolite headwall and a 1200 manhole – which tender item should these be added to?

A4: The 900mm diameter storm sewer is covered by Item 3.1c; the Ecolite headwall is covered by item 3.4b; the 1200mm diameter manhole, Item 3.2d, is being replaced by a 1500mm diameter manhole.

Q5: Will the preload material be available for immediate removal or are there restrictions due to anticipated settlement periods?

A5: There are restrictions. Subject to the Geotechnical Engineer's approval, the preload is expected to be available in early 2014.

Q6: Can the tender form be made available in Excel please?

A6: The tender form is not available in Excel format.

Q7: Typical section 2 on drawing Oc-1056-07, 85mm asphalt pathway will be in 1 lift or 2 lifts?

A7: Pathway asphalt (85mm Class 1 Surface Lift) shall be placed in accordance with MMCD Section 32 12 16 and City of Richmond Supplementary Specifications which indicate surface course in layers of maximum 60mm each.

Q8: What is the difference between bid item 2.2d & 2.3b? I suppose both are excavating & reusing existing preload material. Where can we reuse excavated preload; as embankment, sub base, or both?

A8: Refer to clarifications above. Item 2.3 Reclaimed Preload sand has been deleted.

Q9: There is just optional item for subgrade preparation, please clarify which item will pay for subgrade preparation at preload area and which item for native area.

A9: Refer to clarifications above. Item 2.4 Subgrade Preparation has been divided into Subgrade preparation – preload, Item 2.4a; and Subgrade preparation – native soil, Item 2.4b.

Q10: What is anticipated project start date and what is anticipated preload removal start date?

A10: Refer to clarifications above – the anticipated preload removal start date is at least fall/winter 2013; as per Addendum #1, project start date is April 2nd, 2013.

Q11: Based on spec item 3.5 & 3.6 disposal of excavated material included in both items, do you confirm?

A11: Items 3.5 and 3.6 are to include disposal of excavated material.

Q12: SGC 12 says "... Tenderer's shall indicate the Totals for GST, PST and HST..." I suppose this must change to "... Tenderer's shall indicate the Totals for GST, PST and or HST..."

A12: SGC 12 should read "... Tenderer's shall indicate the Total for GST."

Q13: Contract administrator's site office required for this project?

A13: A Contract Administrator's site office is not required for this project.

Q14: Based on drawing Oc-1056-1 both sides of island should be milled and overlaid but section 1 of drawing Oc-1056-7 does not confirm this and indicates differently.

A14: Milling is required on both sides of the island to accommodate the relocated crown, leveling course and overlay as required.

Q15: The plan view on drawing Oc-1056-5 indicates widening at North side of Westminster HWY but section 3 on drawing Oc-1056-7 does not confirm this.

A15: Section 3 on Oc-1056-7 is a typical section; road works are to be completed as shown on the plan view on OC-1056-5.

Q16: Bid item 2.5 says sub base river sand but sections on drawing Oc-1056-1 noted crushed sub base. Which material is correct?

A16: Sub base material is to be Crushed Granular Sub Base Course.

Q17: Confirm which of the approved Richmond bases are required under all poles

A17: Street light poles are to have P1 bases as per the City of Richmond Supplementary Specifications; the traffic signal pole bases are noted on the Contract Drawings.

Q18: Provide details for all three signal locations:

- a. Who is supplying controllers?
- b. Provide type of controller & base to be used?
- c. Who is responsible for commissioning & programming?

A18:

- a. The City will supply the controllers.
- b. Refer to A30a.
- c. The City will complete the commissioning and programming.

Q19: Where do salvage materials get returned to?

A19: Salvaged materials approved by the Contract Administrator are to be returned to the City of Richmond Public Works Yard.

Q20: Item 3.1a: Our understanding is that the removal of the existing ACCSP pipe and installation of 1200mm diameter concrete section between the proposed MH#11 and 12 (CN Crossing) will be executed by using trenchless technology (pushing through a casing pipe and then pushing the 1200 concrete pipe through it). The professionals who will be doing this work have two questions:

- a) Will annulus grouting be required in this case?
- b) Can a steel pipe be installed instead of concrete pipe as an alternate? If the answer is yes, can it run between the two proposed MH's# 11 & 12 to avoid the (concrete x steel) connections? And, specification for the steel pipe?

A20:

- a) Yes, annulus grouting is required and as per the latest version of CN Rail's document *A Guide to the Pipe and Wire Process*, "the carrier pipe shall be held clear of the casing pipe by properly designed supports, insulators or centering devices – CSA Standard 4.12.3.3c".
- b) As per the City of Richmond's Supplementary Specifications, steel pipe is not permitted.

Q21: Legend 'I' in plans says adjust existing hydrants, MH, valve boxes to new grades, which item will pay for this work?

A21: The adjustment of existing frames, covers and lids is included in the cost of placing asphaltic concrete paving (Item 2.9) as per MMCD Section 32 12 16. The adjustment of existing hydrants to the new grade shall be completed by City Forces.

Q22: Legend K & L in plans says remove/relocate existing concrete barriers, which item will pay for these works?

A22: Item 2.29 Concrete Barrier Relocations has been added to address this work.

Q23: Item 2.2b contaminated organic soil – What type of contamination is expected?

A23: See attached Environmental Soil Investigation report from Thurber Engineering Ltd. dated February 01, 2013.

Q24: I'm looking for some clarification on what the required material will be for the long line/lane line pavement markings. In the tender documents it references 100mm thermoplastic. Will thermo be the only material used for this project or will the lane lines be MOT spec paint?

A24: Long line/ lane lines are to be MoT paint; continuity lines within intersections only are to be thermoplast.

Q25: Addendum #1 states the commencement date of this contract is April 2, 2013. Is this correct? If the staging schedule for the preload placement is to be followed, the preload works will not be completed until the fall of 2013. Is the widening work to be constructed in stages as well?

A25: As per the Clarifications above, Project Phasing is required due to the preload works. The Commencement date of April 2nd, 2013 is correct.

Q26: Regarding the two hydrants to be installed on the existing watermains in the McMillan Way area, please advise the type of pipe on which the wet taps are to be performed as wet tap pricing varies with different pipe materials.

A26: Hydrant relocations and tie ins to be completed by City Forces.

Q27: What is the height of the Lock Block wall to be installed near the McMillan Way intersection? Payment item in the Schedule of Quantities is per lineal meter – height of wall is required to determine number of blocks to be installed.

A27: The Lock Block wall near the McMillan Way intersection is to be a maximum of 0.6m above the adjacent ground as per Section 5A on OC-1056-07

Q28: Regarding the manholes to be installed: Drawings show 7 x 1050mm dia. manholes and 10 x 1800mm dia. Schedule of Quantities list 10 x 1050mm dia. & 7 x 1800mm dia. Which will apply?

A28: See revised Schedule of Quantities and Prices for Items 3.2a and 3.2b.

Q29: There is a new item Pavement Markings – ‘sharrow’, which is a lump sum, however, there are no sharrows shown on the drawings. Please clarify where the sharrows are to go if they are required.

A29: The ‘Sharrow’ pavement marking is to be installed east of McMillan Way on Westminster Highway.

Q30: Have the Power Services been resolved for the intersections yet?

A30: No, they have not been confirmed with BC Hydro at this time. Service conduit should be installed per the design drawings (where shown), any final accommodation for the Power Service will have to be negotiated with the Contractor during the Construction Phase.

Q31: Section 3 for Storm Installation - are we allowed to use the preloaded river sand as trench backfill?

A31: Preload river sand can be used for trench backfill to the top of subgrade provided that the compaction requirements are met and the gradation requirements in the Contract Documents are satisfied; Granular pipe bedding is required in the pipe zone. The road sub base is to be Sub Base Course as per the clarifications above.

Q32: At both signals on this tender Loops & Cameras are shown, which are we using?

A32: Both loops and cameras will be used and supplied by the City.

Q33: at McMillan Way are we supplying standard pedestrian push buttons or is City supplying the Novax APS system?

A33: The City will be supplying the Novax APS system.

Q34: The drawing set shows "relocate streetlight pole" on the Delcan drawings that do not appear on the LCP drawings, please confirm we are to quote our scope from the LCP sets.

A34: The scope of the street light works are shown on the LCP drawings with the following exceptions:
at approximately STA 1+105 the street light on the north side of the road is to be removed;
at approximately STA 1+270 the street light at the south edge of the existing pavement is to be removed;
at approximately STA 1+890 the street light at the south edge of the existing pavement is to be removed;
at approximately STA 2+480 the street light on the south side of the road is to be relocated.

Q35: The removal of existing lock blocks is included under which pay item?

A35: The removal of the existing lock blocks will be paid under Item 2.30 – Remove Existing Lock Blocks. The description of measurement and payment is included in the clarifications above.

Q36: Pay Items 3.3a Catch Basin, 3.3d Type II Inspection Chamber, 3.3f Type III Inspection Chamber; will all of these include stubs, caps, etc. as shown in their respective Standard Drawings (ST-5-SD, ST-8-SD, ST-9-SD)?

A36: Item 3.3a Catch Basin and Item 3.3d Type II Inspection Chamber are to be constructed as per their respective Standard Drawings (ST-5-SD and ST-8-SD); Item 3.3f Type III Inspection Chamber is to be constructed as per its standard drawing (ST-9-SD) with the following revisions: the capped stub and

capped service connection leads are not required for this application. The two 100mm Ø perforated pipes are required for this application.

Q37: Who is responsible for CN Rail's Flag Person's wages?

A37: As per SSP 7 on page D-8 of the Contract Documents, the Contractor is responsible for obtaining all applicable permits from private utility companies or other agencies that are required to complete construction. This includes any costs or wages associated with the permits.

Q38: How is the contractor being paid for tie in of 450mm Ø storm sewer at DMH05?

A38: Item 3.1d has been added to cover the tie in of existing pipes not covered by other pay items.

Q39: What is the difference between these pay items: 2.2d – common ex. – reuse on site, 2.3b – reclaimed preload sand, and 2.5 granular sub base river sand?

A39: Item 2.3b has been deleted and Item 2.5 has been amended to be Granular Sub-base, crushed granular sub base course.

Q40: Why is subgrade prep optional? Where is contractor supposed to allow or include his cost for prep work after stripping of common excavation?

A40: The area of subgrade preparation will be determined in the field by the Geotechnical engineer. Pay Item 2.4 has been revised to address subgrade preparation over native soil and preload areas.

Q41: Is the disposal site for the lock blocks the contractor's or at the City?

A: The Contractor is to provide a disposal site for the lock blocks unless otherwise directed by the City.

Q42: Pay item missing for Type 1A IC at Sta 1+254?

A42: The Type 1A IC at STA 1+254 is to be a Type II Inspection Chamber c/w frame and grate.

Q43: Do you want to video the 1200mm storm?

A43: Yes, a video inspection of the 1200mm storm sewer is required as per the City of Richmond Supplementary Specifications Section 33 40 01.

Q44: Who is hot tapping the existing watermain?

A44: The City or its Contractor will complete the hot tap of the existing water mains.

Q45: What is the casing detail for the rail crossing at the old Westminster Hwy?

A45: The details casing pipe at the rail crossing at Old Westminster Highway shall be specified once the crossing design is finalized. Item 3.8 Rail Crossing Premium has been added to cover the work relating to the CN Rail utility crossing.

Q46: What is the difference between 5.5 and 5.4?

A46: As per Page D-39 Item 5.4 Westminster Highway and Old Westminster Highway traffic signal system includes all works, materials and labour the supply and installation of the traffic signal system at this intersection. Currently, there is no existing traffic signal system at this location. Item 5.5 Interconnect to CN Rail Crossing at Westminster Highway and Old Westminster Highway includes all equipment materials and labour to connect the traffic signal system constructed in Item 5.4 to the CN Rail Crossing Warning System, which is currently being designed.

Q47: Usually with large diameter pipe, as both these projects have, we bed to springline with 20mm clear crush and backfill above the springline with sand. This ensures the pipe is properly cradled. Please advise as to your expectations are for this project.

A47: This is an acceptable method of pipe installation, provided that the clear crush is wrapped with filter cloth. Note that river sand is not permitted within the pipe zone, but can be used as a trench backfill up to the top of subgrade.

Sincerely,

A handwritten signature in black ink, appearing to be 'Milton Chan', written in a cursive style.

FOR:

Milton Chan, Acting Manager, Engineering Design & Construction

FORM OF TENDER

Manager – Purchasing
City of Richmond
6911 No. 3 Road
Richmond, BC V6Y 2C1

1. WE, THE UNDERSIGNED:

- 1.1 have received and carefully reviewed all of the *Contract Documents*, including the specified edition of the "Master Municipal Construction Documents - Instructions to Tenderers and General Conditions, Specifications, Standard Detail Drawings", the "City of Richmond's Supplementary Specifications and Detail Drawings", and the following Addenda:

(insert number and date of all Addenda received)

_____;

- 1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and
1.3 have complied with the Instructions to Tenderers.

2. ACCORDINGLY WE HEREBY OFFER:

- 2.1. to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*;
- 2.2. to achieve *Substantial Performance* of the *Work* on or before **March 31, 2014**; and

- 2.3. to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices plus any lump sums or specific prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", and adjustment amounts as provided by the *Contract Documents*. For the purposes of Tender comparison, our offer is to complete the *Work* for the "*Tender Price*" of _

(\$_____) as set out on Appendix 1 of this Form of Tender.

Our Tender Price is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes GST.

3. WE CONFIRM:

- 3.1. that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.

4. WE CONFIRM:

- 4.1. that the following Appendices are attached to and form a part of this Tender:
- 4.1.1. the Appendices as required by paragraph 5.3 of the Instructions to Tender - Part II; and
 - 4.1.2. the *Bid Security* as required by paragraph 5.2 of the Instructions to Tender - Part II.

5. WE AGREE:

- 5.1 that this Tender will be irrevocable and open for acceptance by the *Owner* for a period of sixty (60) calendar days from the day following the *Tender Closing Date and Time*, even if the Tender of another Tenderer is accepted by the *Owner*. If within this period the *Owner* delivers a written notice ("*Notice of Award*") by which the *Owner* accepts our Tender, we will:

- 5.1.1 within 15 *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
- 5.1.1(a) a Performance Bond and a Labour and Materials Payment Bond, each in the amount of 50% of the *Contract Price*, covering the performance of the *Work* including the *Contractor's* obligations during the *Maintenance Period*, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*; a *Construction Schedule*, as provided by GC 4.6.1;
 - 5.1.1(b) a "clearance letter" indicating that the Tenderer is in *WorkSafe BC* compliance; and

5.1.1(c) a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place and;

5.1.2 within 2 days of receipt of written "Notice to Proceed", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and

5.1.3 sign the *Contract Documents* as required by GC 2.1.2.

6. WE AGREE:

6.1. that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:

6.1.1. fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or

6.1.2. fail or refuse to commence the *Work* as required by the *Notice to Proceed*,

then such failure or refusal will be deemed to be a refusal by us to enter into the *Contract* and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the *Bid Security* shall be forfeited to the *Owner*, in an amount equal to the lesser of:

6.1.3. the face value of the *Bid Security*, and

6.1.4. the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

7. OUR ADDRESS is as follows:

Attention: _____

Phone: _____

Fax: _____

This Tender is executed the _____ day of _____, _____.

Tenderer:

(Full legal name of corporation, partnership or individual)

SIGNED AND DELIVERED
by Corporate Tenderer with Corporate
Seal affixed in the presence of its duly
authorized signing officers:

Name and Position

OR SIGNED AND DELIVERED
by Unincorporated Tenderer

Signature of Sole proprietor or Partner

Witness

Signature of Partner

Witness

Signature of Partner

Witness

Tenderer's Initial _____

FORM OF TENDER

Appendix 1

SCHEDULE OF QUANTITIES AND PRICES (See paragraph 5.3.1 of the Instructions to Tenderers - Part II)

(All prices and Quotations including the *Contract Price* shall include all *Taxes*, but shall not include *GST*.)

TENDER SUMMARY

1. GENERAL

The undersigned Tenderer, hereinafter referred to as the Tenderer, hereby agrees that the Schedule of Quantities and Prices, hereinafter referred to as the Schedule, and the Tender Summary which forms part of the Schedule, were completed, signed, sealed and submitted to the Owner by the Tenderer as part of his Tender and further, that he has satisfied himself with and agrees to the contents of the Schedule and Tender Summary as submitted to the Owner.

2. TENDER SUMMARY GST

The Total Tender price shall NOT include for GST. Tenderer's shall indicate the Totals for GST in the spaces provided.

3. TENDER SUMMARY

The Tendered Amounts carried over from Items in the Schedule are summarized as follows:

| SUMMARY OF SCHEDULE OF QUANTITIES AND PRICES | | |
|---|---|------------------------|
| ITEM NO. | DESCRIPTION | TENDERED AMOUNT |
| 1 | General | |
| 2 | Roadworks | |
| 3 | Storm Sewer | |
| 4 | Water Works – NOT USED | |
| 5 | Electrical | |
| | TENDER PRICE (GST excluded) (Carried to Form of Tender) | |
| | 5% GST | |

3. SCHEDULE OF QUANTITIES AND PRICES

The items below represent the contract price for the works described in this document and on the drawings. Refer to the MMCD or the supplementary specifications for details on the measurement of and payment for the various items

| T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way | | | | | | | | |
|---|---|-------|----------|----|------------|----|--------|--|
| SCHEDULE OF QUANTITIES AND PRICES | | | | | | | | |
| Item No. | Description | Unit | Quantity | | Unit Price | | Amount | |
| 1 | General | | | | | | | |
| 1.1 | Mobilization and Demobilization | L. S. | 1 | \$ | | \$ | | |
| 1.2 | Survey Layout and As-Constructed Drawings | L. S. | 1 | \$ | | \$ | | |
| 1.3 | Bonding and Insurance | L. S. | 1 | \$ | | \$ | | |
| 1.4 | Traffic Control Plan, Personnel and Equipment | L. S. | 1 | \$ | | \$ | | |
| 1.5 | Erosion and Sediment Control | L. S. | 1 | \$ | | \$ | | |
| TOTAL FOR SECTION 1 - GENERAL | | | | | | | | |
| (Carry Forward to Summary of Schedule of Quantities and Prices) | | | | | | | \$ | |

| T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way | | | | | | | |
|---|--|-------|----------|----|------------|----|-----------|
| SCHEDULE OF QUANTITIES AND PRICES | | | | | | | |
| Item No. | Description | Unit | Quantity | | Unit Price | | Amount |
| 2 | Road Works | | | | | | |
| 2.1 | Clearing and Grubbing | L. S. | 1 | \$ | | \$ | |
| 2.2 | Excavation | | | | | | |
| | a) Organic Stripping (OPTIONAL ITEM) | cu.m | 200 | \$ | | \$ | |
| | b) Organic Stripping - Contaminated Soils (PROVISIONAL SUM) | L.S. | 1 | \$ | 115,000 | \$ | \$115,000 |
| | c) Common Excavation - Dispose off site | cu.m | 21,200 | \$ | | \$ | |
| | d) Common Excavation - Re-use on site | cu.m | 3,050 | \$ | | \$ | |
| | e) Over Excavation (OPTIONAL) | cu.m | 100 | \$ | | \$ | |
| 2.3 | Subgrade fill | | | | | | |
| | a) Imported Subgrade Fill (OPTIONAL ITEM) | tonne | 600 | \$ | | \$ | |
| 2.4 | Subgrade preparation | | | | \$ | | \$ |
| | a) Subgrade preparation – preload (OPTIONAL ITEM) | L. S. | 1 | \$ | | \$ | |
| | b) Subgrade preparation – native soil (OPTIONAL ITEM) | L. S. | 1 | \$ | | \$ | |
| 2.5 | Granular Sub-Base, Crushed Granular Sub Base Course | cu.m | 5,025 | \$ | | \$ | |
| 2.6 | Base | | | | | | |
| | a) Granular Base, 19mm | cu.m | 3,400 | \$ | | \$ | |
| | b) Granular Base - 1.0m infill strip (OPTIONAL) | cu.m | 120 | \$ | | \$ | |
| 2.7 | Tack coat | sq.m | 51,700 | \$ | | \$ | |
| 2.9 | Asphalt | | | | | | |
| | a) Asphalt Pavement, Lower Course MMCD #1 | tonne | 2,475 | \$ | | \$ | |
| | b) Asphalt Pavement, Upper Course MMCD #1 | tonne | 4,875 | \$ | | \$ | |
| | c) Asphalt Pavement, Leveling Course (OPTIONAL ITEM) | tonne | 300 | \$ | | \$ | |
| 2.10 | Concrete Barriers | | | | | | |
| | a) Precast concrete barriers c/w weep holes to SP941-01.02.02 - standard 2.5m sections (OPTIONAL ITEM) | lin.m | 1,300 | \$ | | \$ | |
| | b) Precast concrete barriers - transition and bullnose sections (OPTIONAL ITEM) | each | 8 | \$ | | \$ | |
| 2.11 | Saw cut pavement - 0 to 200mm depth (OPTIONAL ITEM) | lin.m | 1,360 | \$ | | \$ | |
| T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way | | | | | | | |
| SCHEDULE OF QUANTITIES AND PRICES | | | | | | | |

| Item No. | Description | Unit | Quantity | Unit Price | Amount |
|--|--|-------|----------|------------|--------|
| 2.12 | Mill existing asphalt pavement, surface milling | sq.m | 18,200 | \$ | \$ |
| 2.13 | Rumble strips (OPTIONAL ITEM) | lin.m | 3,900 | \$ | \$ |
| 2.14 | Utility Pole infill (OPTIONAL ITEM) | each | 1 | \$ | \$ |
| 2.15 | Pavement Markings | | | | |
| a) | Pavement Markings - linear thermoplastic lines | L. S. | 1 | \$ | \$ |
| b) | Pavement Markings - recessed reflective markers | L. S. | 1 | \$ | \$ |
| c) | Pavement Markings - directional arrows | each | 19 | \$ | \$ |
| d) | Pavement Markings – ‘sharrow’ | L. S. | 1 | \$ | \$ |
| 2.16 | Top Soil (OPTIONAL ITEM) | sq.m | 500 | \$ | \$ |
| 2.17 | Supply and install hydraulic seeding (OPTIONAL ITEM) | sq.m | 7,500 | \$ | \$ |
| 2.18 | Concrete Sidewalk | | | | |
| a) | Concrete sidewalk – 100mm thick | sq.m | 170 | \$ | \$ |
| 2.19 | Concrete Curb | | | | |
| a) | MMCD C-5 Barrier Curb | lin.m | 135 | \$ | \$ |
| b) | MMCD C-6 Median Curb | lin.m | 450 | \$ | \$ |
| c) | Relocate concrete curb, C-5 Barrier Curb | lin.m | 90 | \$ | \$ |
| 2.20 | Concrete median Slab | sq.m | 350 | \$ | \$ |
| 2.21 | Driveway Restoration | sq.m | 50 | | |
| 2.22 | Signage | L. S. | 1 | | |
| 2.23 | CN Rail Crossing Road Works | L. S. | 1 | \$ | \$ |
| 2.24 | Fence | lin.m | 620 | \$ | \$ |
| 2.25 | Lock block wall | lin.m | 65 | \$ | \$ |
| 2.26 | Hand Rail (OPTIONAL ITEM) | lin.m | 74 | \$ | \$ |
| 2.27 | Remove Existing Raised Median | L. S. | 1 | \$ | \$ |
| 2.28 | Bollards | each | 4 | \$ | \$ |
| 2.29 | Concrete Barrier Removal | lin.m | 100 | \$ | \$ |
| 2.30 | Remove existing lock blocks (OPTIONAL ITEM) | each | 1,000 | \$ | \$ |
| TOTAL FOR SECTION 2 - ROAD WORKS | | | | | |
| (Carry Forward to Summary of Schedule of Quantities and Prices) | | | | | \$ |

| T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way | | | | | | |
|--|--|-------|----------|----|------------|--------|
| SCHEDULE OF QUANTITIES AND PRICES | | | | | | |
| Item No. | Description | Unit | Quantity | | Unit Price | Amount |
| 3 | Storm Sewer | | | | | |
| 3.1 | Mainline storm sewer | | | | | |
| a) | Supply and install 1200mm diameter concrete pipe | lin.m | 1,140 | \$ | | \$ |
| b) | Supply and install 525mm diameter concrete pipe | lin.m | 70 | \$ | | \$ |
| c) | Supply and install 900mm diameter concrete pipe | lin.m | 10 | \$ | | \$ |
| d) | Re-Lay Existing Mains and Connections (OPTIONAL ITEM) | | | | | |
| i) | 450mm Ø | lin.m | 5 | \$ | | \$ |
| ii) | 600mm Ø | lin.m | 5 | \$ | | \$ |
| iii) | 1200mm Ø | lin.m | 5 | \$ | | \$ |
| 3.2 | Manholes | | | | | |
| a) | 1050mm diameter tee riser manholes for 1200mm diameter concrete pipe | each | 7 | \$ | | \$ |
| b) | 1800mm diameter sump manholes, minimum 600mm sump | each | 10 | \$ | | \$ |
| c) | Connect to ex MH at McMillan Way | L. S. | 1 | \$ | | \$ |
| d) | 1500mm diameter sump manhole | each | 1 | \$ | | \$ |
| 3.3 | Catch Basins | | | | | |
| a) | Catch Basin | each | 5 | \$ | | \$ |
| b) | 150mm diameter catch basin leads | lin.m | 175 | \$ | | \$ |
| c) | 300mm diameter catch basin leads | lin.m | 10 | \$ | | \$ |
| d) | Type II Inspection Chamber c/w frame and grate | each | 26 | \$ | | \$ |
| e) | 150mm diameter inspection chamber lead | lin.m | 200 | \$ | | \$ |
| f) | Type III Inspection Chamber c/w frame and grate | each | 10 | \$ | | \$ |
| g) | 150mm diameter connection c/w cap | lin.m | 65 | \$ | | \$ |
| h) | 600mm diameter Catch Basin lead | lin.m | 5 | \$ | | \$ |
| 3.4 | Headwalls | | | | | |
| a) | Pro Ecolite Headwall c/w grill - inlet | each | 1 | \$ | | \$ |
| b) | Pro Ecolite Headwall - outlet | each | 5 | \$ | | \$ |
| c) | DeltaLok Embankment (OPTIONAL ITEM) | sq.m | 50 | \$ | | \$ |
| 3.5 | Drainage swale | lin.m | 785 | \$ | | \$ |
| 3.6 | Ditch cleaning | lin.m | 160 | \$ | | \$ |

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|---|--|-------|----------|----|------------|----|--------|--|
| SCHEDULE OF QUANTITIES AND PRICES | | | | | | | | |
| Item No. | Description | Unit | Quantity | | Unit Price | | Amount | |
| 3.7 | Pipe culverts | | | | | | | |
| | a) 1200mm diameter culvert relining, CN Rail ROW (OPTIONAL ITEM) | lin.m | 25 | \$ | | \$ | | |
| 3.8 | Rail Crossing Premium (OPTIONAL ITEM) | L. S. | 1 | \$ | | \$ | | |
| TOTAL FOR SECTION 3 - STORM SEWER (Carry Forward to Summary of Schedule of Quantities and Prices) | | | | | | | \$ | |

| T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way | | | | | | | |
|---|--|-------|----------|----|------------|----|--------|
| SCHEDULE OF QUANTITIES AND PRICES | | | | | | | |
| Item No. | Description | Unit | Quantity | | Unit Price | | Amount |
| 5 | Electrical | | | | | | |
| 5.1 | Westminster Highway Street Lighting System | L. S. | 1 | \$ | | \$ | |
| 5.2 | Relocate Existing Street Lights | L. S. | 1 | \$ | | \$ | |
| 5.3 | Westminster Highway and McMillan Way Traffic Signal System | L. S. | 1 | \$ | | \$ | |
| 5.4 | Westminster Highway and Old Westminster Highway Traffic Signal System | L. S. | 1 | \$ | | \$ | |
| 5.5 | Interconnect CN Rail Crossing at Westminster Highway and Old Westminster Highway | L. S. | 1 | \$ | | \$ | |
| TOTAL FOR SECTION 5 - ELECTRICAL | | | | | | | |
| (Carry Forward to Summary of Schedule of Quantities and Prices) | | | | | | \$ | |