



# City of Richmond

March 18, 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. 4  
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.**

### **Adjustment to Closing Time:**

Please be advised that the time of tender opening has changed:

WAS: Thursday March 21<sup>st</sup>, 2013 at 3:00 pm, local time.  
IS NOW: Thursday March 21<sup>st</sup>, 2013 at 4:00 pm, local time.

### **Clarifications:**

1. Rail Crossing Premium – Item 3.8

Item 3.8 Rail Crossing Premium is not an Optional Item.

The scope of work for the storm sewer crossing under the CN Rail tracks around STA 2+080 has not been finalized with CN. It is expected that CN Rail will require the installation to proceed without interruption to train service. Payment for Item 3.8 includes:

- a) Supply and installation of approximately 32m of 1760mm OD steel casing pipe with minimum 4.8mm thick wall installed using trenchless technology
- b) Installation methodology cannot disturb the tracks or cause disruptions to train service

- c) Supply and installation of spacers and grout
- d) Supply and placement of monitoring points and ongoing monitoring of rails and rail infrastructure for settlement to CN Rail's satisfaction
- e) Coordination with CN Rail to obtain the required permits. The City will initiate this process.

Note that the storm sewer installation including excavation, dewatering, flow management, pipe supply and placement, backfilling and compaction are included in Item 3.1a.

2. Item 2.17 Hydraulic Seeding is no longer an Optional Item.
3. Replace the Schedule of Quantities and Prices with the attached Issued for Addendum #4 Schedule of Quantities and Prices.

**Questions:**

**Q1:** What product are we to use for the cross hatching on this project? Paint or thermoplastic? MoT has used both in the past and MMCD doesn't specify one or the other.

**A1:** Thermoplastic is to be used for the cross hatching.

**Q2:** Addendum 3, Clarification Item 4, states "The City ... will supply and install ... all LED signal & pedestrian displays, all signal & pedestrian heads c/w visors and all backboards." Is the City supplying and installing the LED displays, signal/ped heads and backboards, or is the City supplying only? Are the mounting brackets and side arms also provided by the City?

**A2:** The City will supply only the LEDs, signal heads, pedestrian heads, backboards and visors. The contractor will install these items. Also, the mounting hardware is to be supplied and installed by the contractor.

**Q3:** In response to Question 18b, the answer is "Refer to A30a". What is A30a?

**A3:** Question 18b from Addendum #3 stated, "Provide details for the type of controller and base to be used for all three signal locations". The controller will be supplied by the City; the pre-cast Type 'P' concrete base as per the City's Supplementary Specifications is to be supplied and installed by the Contractor.

**Q4:** In response to Question 45, the answer notes that Item 3.8 Rail Crossing Premium has been added. The Contractor is still expected to provide a lump sum price for an unknown quantity. Given the City cannot provide any details of the work to be priced, would the City consider providing a provisional amount for this item?

**A4:** Refer to Clarification #1 above.

Sincerely,



FOR:

Milton Chan, Acting Manager, Engineering Design & Construction

**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

<b>T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way</b>								
<b>SCHEDULE OF QUANTITIES AND PRICES</b>								
Item No.	Description	Unit	Quantity		Unit Price		Amount	
1	<b>General</b>							
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	\$		\$		
<b>TOTAL FOR SECTION 1 - GENERAL</b>								
<b>(Carry Forward to Summary of Schedule of Quantities and Prices)</b>							\$	

T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way							
SCHEDULE OF QUANTITIES AND PRICES							
Item No.	Description	Unit	Quantity		Unit Price		Amount
2	<b>Road Works</b>						
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	tonne	5,550	\$		\$	
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	4,800	\$		\$	
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	47,000	\$		\$	
2.9	Asphalt						
	a) Asphalt Pavement, Lower Course MMCD #1	tonne	2,350	\$		\$	
	b) Asphalt Pavement, Upper Course MMCD #1	tonne	5,800	\$		\$	
	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	\$		\$	
<b>T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way</b>							
<b>SCHEDULE OF QUANTITIES AND PRICES</b>							

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	sq.m	4,750	\$	\$
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	\$	\$
<b>TOTAL FOR SECTION 2 - ROAD WORKS</b>					
<b>(Carry Forward to Summary of Schedule of Quantities and Prices)</b>					\$

T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way						
SCHEDULE OF QUANTITIES AND PRICES						
Item No.	Description	Unit	Quantity		Unit Price	Amount
3	<b>Storm Sewer</b>					
3.1	Mainline storm sewer					
a)	Supply and install 1200mm diameter concrete pipe	lin.m	1,169	\$		\$
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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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	L. S.	1	\$		\$		
<b>TOTAL FOR SECTION 3 - STORM SEWER</b> (Carry Forward to Summary of Schedule of Quantities and Prices)							\$	

<b>T. 4784 - Westminster Highway Widening - Nelson Road to McMillan Way</b>							
<b>SCHEDULE OF QUANTITIES AND PRICES</b>							
Item No.	Description	Unit	Quantity		Unit Price		Amount
<b>5</b>	<b>Electrical</b>						
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	\$		\$	
<b>TOTAL FOR SECTION 5 - ELECTRICAL</b>							
<b>(Carry Forward to Summary of Schedule of Quantities and Prices)</b>						\$	