



NEW WESTMINSTER

CORPORATION OF THE CITY OF NEW WESTMINSTER

CONTRACT No. NWIT-17-34

Ewen Avenue Reconstruction (Phase 3)

Title	Pages
Table of Contents	2 Pages
Invitation to Tenderers	1 Page
INSTRUCTIONS TO TENDERERS: PART I	
1.0 Introduction	IT -1
2.0 Tender Documents	IT -1
3.0 Submission of Tenders	IT - 2
4.0 Additional Instructions to Tenderers	IT - 3
Instructions to Tenderers: Part II (MMCD, Platinum Edition)	Not Reproduced
FORM OF TENDER	
Form of Tender	FT Page 1 – 3
Appendix 1 – Schedule of Quantities and Prices	FT Page 4-11
Appendix 2 – Preliminary Construction Schedule	FT Page 12
Appendix 3 – Experience of Superintendent	FT Page 13
Appendix 4 – Comparable Work Experience	FT Page 14
Appendix 5 – Subcontractors	FT Page 15
Appendix 6 – Force Account Labour Rates	FT Page 16
Appendix 7 – Declaration – Living Wage Employer	FT Page 17
AGREEMENT	
Agreement between Contractor and Owner	AGT Page 1 – 4
Schedule 1 – Schedule of Contract Documents	AGT Page 5
Schedule 2 – List of Contract Drawings	AGT Page 6 – 8
Schedule 3 – Prime Contractor Designation	AGT Page 9 – 11
CONDITIONS, SPECIFICATIONS & DRAWINGS	
General Conditions (MMCD, Platinum Edition)	Not Reproduced
Supplementary General Conditions	SGC 1 – 8
Standard Specifications (MMCD, Platinum Edition)	Not Reproduced
Supplementary Specifications	SSPEC 1 - 38
Standard Detail Drawings (MMCD, Platinum Edition)	Not Reproduced
Canadian Landscape Standards, Current Edition	Not Reproduced

ATTACHMENTS	
Attachment 1 – Contract Drawings	77 Pages
Attachment 2 – Soil Sampling and Analysis Report By Dillon Consulting dated August 2017	197 Pages
Attachment 3 – Geotechnical Report by exp Services Inc. dated November 4, 2016 – For Reference	28 Pages
Attachment 4 – City of New Westminster Irrigation Standards and Specifications (2014)	11 Pages
Attachment 5 – City of New Westminster Specifications for Underground Electric Distribution Structures (2011)	18 Pages

INVITATION TO TENDER

CORPORATION OF THE CITY OF NEW WESTMINSTER
(THE OWNER)

Contract: Ewen Avenue Reconstruction (Phase 3)

Reference No: NWIT-17-34

The Owner invites tenders for:

Construction of 800 lineal metres of Ewen Avenue Reconstruction Phase 3, from Hampton Road to Boundary Road. The work includes construction of culverts, storm sewer, roadworks and multi-use pathway, sidewalk, street and pathway lighting, City of New Westminister and BC Hydro Underground Electrical Distribution, City of New Westminister Fibre Optic, Shaw and TELUS Underground cable construction.

The work will include excavation and off-site disposal of contaminated soils, lightweight fill (EPS), and preloading.

Copies of the Contract Documents are available for download from the City of New Westminister Purchasing site at:

<https://www.newwestcity.ca/business-and-economy/doing-business-with-the-city/request-for-bids-and-proposals-open>

Tenderers are responsible to check for all subsequent addendums/amendments on the City's Purchasing web page and/or BC Bid and respond according to the Invitation to Tender documents.

Tenders are scheduled to close at:

Tender Closing Date: Wednesday, September 20, 2017

Tender Closing Time: 3:00 pm (Local Time)

At:

City of New Westminister – Main Information Desk
511 Royal Avenue
New Westminister, BC, V3L 1H9
Attention: Purchasing Manager

A tender shall be accompanied by a Bid Bond (or Certified Cheque) in the amount of ten percent (10%) of the Tender Price payable to the Corporation of the City of New Westminister. The successful tenderer will be required to provide a Performance and Labour and Material Payment Bond each in the amount of fifty percent (50%) of the Tender Price. An Agreement of Surety to bond shall accompany the tender submitted.

Enquiries regarding this tender may be directed to:

Heather Rossi, Intermediate Buyer

City of New Westminister

email: nwpurchasing@newwestcity.ca

The lowest or any Tender may not necessarily be accepted and the City will not be responsible for any cost incurred by the Tenderer in preparing the Tender. Tender award will be contingent on budget approval from the City of New Westminister Council. If the value of the contract(s) resulting from this invitation to tender exceeds the thresholds stipulated in Annex 502.4 of the Agreement on Internal Trade, then all provisions of the Agreement on Internal Trade will apply.

INSTRUCTIONS TO TENDERERS

Instructions to Tender, Part I

INSTRUCTIONS TO TENDERERS – PART 1

(TO BE READ WITH “INSTRUCTIONS TO TENDERERS - PART II” CONTAINED IN THE EDITION OF THE PUBLICATION “MASTER MUNICIPAL CONSTRUCTION DOCUMENTS” SPECIFIED IN ARTICLE 2.2 BELOW)

CORPORATION OF THE CITY OF NEW WESTMINSTER

(THE OWNER)

Contract: Ewen Avenue Reconstruction (Phase 3)

Reference No: NWIT-17-34

- 1.0 Introduction**
- 1.1 These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:
- Construction of 800 lineal metres of Ewen Avenue Reconstruction Phase 3, from Hampton Road to Boundary Road. The work includes construction of culverts, storm sewer, roadworks and multi-use pathway, sidewalk, street and pathway lighting, City of New Westminster and BC Hydro Underground Electrical Distribution, City of New Westminster Fibre Optic, Shaw and TELUS Underground cable construction.
- The work will include excavation and off-site disposal of contaminated soils, lightweight fill (EPS), and preloading.
- 1.2 Direct all inquiries regarding the *Contract*, to:
- Heather Rossi, Intermediate Buyer
City of New Westminster
511 Royal Ave, New Westminster, BC, V3L 1H9
email: nwpurchasing@newwestcity.ca
- 2.0 Tender Documents**
- 2.1 The tender documents, which a tenderer should review to prepare a tender, consist of all of the *Contract Documents* listed in Schedule 1 entitled “Schedule of Contract Documents”. Schedule 1 is attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled “List of *Contract Drawings*”, and Schedule 3 “Prime Contractor Designation”.
- 2.2 Portions of the Contract Documents are included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications, and Standard Detail Drawings. They are those contained in the publication entitled “Master Municipal Construction Documents - General Conditions, Specifications, and Standard Detail Drawings”. Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the

applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.

Copies of the Master Municipal Construction Document (Platinum Edition) can be obtained at:

Support Services Unlimited
#102 – 211 Columbia Street
Vancouver, BC, V6A 2R5
604 681-0295

- 2.3 Any additional information made available to tenderers prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of tenderers who must make their own judgment about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.
- Addenda
- 2.4 Should addenda to the tender documents be required for any reason, it is the City's intention not to issue addenda during a period three (3) days prior to the Tender Closing date and time.
- 2.5 All Addenda become part of the Contract Documents.
- 2.6 Failure to acknowledge any Addendum may result in the disqualification of the Tenderer.
- 3.0 Submission of Tenders**
- 3.1 Tenders must be submitted in a sealed envelope, marked on the outside with the above *Contract* Title and Reference No., and must be received on or before:
- Tender Closing Time: 3:00 pm (Local Time)**
- Tender Closing Date: Wednesday, September 20, 2017**
- Address: **City of New Westminster
Main Information Desk
511 Royal Avenue
New Westminster, BC V3L 1H9**
- Attention: **Purchasing Manager**
- 3.2 Late tenders will not be accepted or considered, and will be returned unopened.
- 3.3 The City does not accept facsimile, electronic mail, or other unsealed bids.

- 3.4 The City will not open this Tender in public. The City will make the Tender results available to Tenderers within a reasonable period following the Tender Closing Date and Time.
- 4.0 Additional Instructions to Tenderers**
- 4.1 **IT 5 (amend clause 5 as follows)**
Add 5.3.6 Appendix 6 – Force Account Labour and Equipment Rates. Insert the hourly rates for Labour and Equipment including allowances for taxes, assessments, benefits, tools, overhead, and profit.
- Add 5.3.7** Appendix 7 – Declaration – Living Wage Employer
- Award**
- 4.2 **IT 15.5 (add clause 15.5 as follows)**
 In exercising its discretion, the *Owner* will have regard to the information provided by the Tenderer in the Appendices to the Form of Tender as described under IT 5, and may also have regard to any information obtained by the *Owner* in evaluating such tender information, as well as the *Owner's* previous experience, if any, with the Tenderer. In exercising its discretion the *Owner* may consider, but is not limited to, the following criteria in addition to the Tender Price:
- a) the proven experience of the Tenderer, and any listed subcontractors to do the Work;
 - b) the Tenderer's ability to complete the Work within the Preliminary Construction Schedule;
 - c) the Tenderer's ability to work effectively with the *Owner*, its consultants and representatives;
 - d) the Tenderer's ability to manage and do the work effectively using the named superintendent and submitted contractors and subcontractors;
 - e) the Tenderer's history on other projects including with respect to quality of work, changes in the work, force account work, and the contract administration costs of the *Owner*;
 - f) the nature of any legal proceedings undertaken by the Tenderer, or any officer or director of the Tenderer or affiliate of the Tenderer, directly (or indirectly through another corporation) against the *Owner* within the previous five years of the Invitation to Tenders;
 - g) litigation and on-going unresolved claims;
 - a. in addition to any other provision of this tender document, and without limiting the City's discretion under any other provision of this tender document, the City may, in its absolute discretion, reject a tender if:
 - i. the Tenderer, or any officer or director of the Tenderer, is or has been engaged directly or indirectly in a legal action against the City in relation to any matter; or,
 - ii. the Tenderer has current unresolved extra work claims totalling in excess of

\$100,000.00 beyond 90 days of contract substantial completion for any construction project with the City.

- b. in determining whether or not to reject a tender under this section, the City will consider whether the litigation or unresolved extra work claim is likely to affect the Tenderer's ability to work with the City, its employees, consultants and representatives and whether the City's experience with the Tenderer indicates an unusual risk the City will incur increased staff and legal costs in the administration of the contract if awarded to the Tenderer.

The *Owner* will, following receipt of an acceptable tender, issue in writing a *Notice of Acceptance* to the successful tenderer. This Notice will be given as soon as possible following the closing of tenders and, unless otherwise agreed to by the tenderer, not later than sixty (60) days following the Tender Closing Date.

4.3 IT 15.6 (add clause 15.6 as follows)

The *Owner* may, prior to and after Contract Award, negotiate changes to the scope of the Work, the type of materials, the specifications or any conditions with the low tenderer without having any duty or obligation to advise any other tenderer or to allow them to vary their Tender Prices as a result of such changes and the *Owner* shall have no liability to any other tenderer as a result of such negotiations or modifications.

The award of this *Contract* is subject to approval of the *Owner* and to the availability of sufficient funds to complete the Work. The City may delete certain portions of the Work if Tender Prices exceed the available budget.

Prime Contractor Designation

4.4 IT 18 (add clause 18 as follows)

Schedule 3 Prime Contractor Designation forms part of the Agreement.

Freedom of Information

4.5 IT 19 (add clause 19 as follows)

The City of New Westminster is subject to the Province of British Columbia *Freedom of Information and Protection of Privacy Act*. All documents will be received and held in confidence by the City of New Westminster and the information will not be disclosed, except to the extent necessary for carrying out the City's purposes or as required by law.

Living Wage Information

4.6 IT 20 (add clause 20 as follows)

Effective January 1, 2011, the City of New Westminster became a "Living Wage Employer" (see Form of Tender - Appendix 7). As such, the City has established a Living Wage Policy that requires all firms that are contracted by the City to provide services on City premises, to pay their employees, who perform

said service on City property, a Living Wage as calculated by the Living Wage for Families Campaign. The figure for 2017 for the Lower Mainland is \$20.62, assuming no benefits are provided by the employer.

In order to determine an employee's hourly rate with benefits the Living Wage for Families has created a Living Wage Calculator to assist with this determination. Please access the following website to determine your compatibility.

<http://www.livingwageforfamilies.ca/employers/living-wage-calculator/>

The City includes in all its competitive bid documents a Declaration referencing the City's expectations with regards to compliance of the Policy. **Completion and submission of the Declaration is required prior to Contract award** (see Form of Tender - Appendix 7).

In evaluating submissions, the City intends to rely on the Declaration provided by a Respondent and shall have no obligation or duty to investigate the truthfulness of the Declaration.

Please review the City's [Living Wage Page](#) for further information.

Good Neighbour Protocol

4.7 IT 21 (add clause 21 as follows)

This policy is for City-led construction projects and works. The [Good Neighbour Protocol](#) (GNP) provides guidelines to minimize construction related impacts to residents and businesses.

The successful contractor will be required to adhere to the Good Neighbour Protocol.

Please review the City's Good Neighbour Protocol for further information

http://www.newwestcity.ca/database/files/library/Good_Neighbour_Protocol_External_Dec_2015.pdf

Non-Road Diesel Engine Emissions Regulation

4.8 IT 22 (add clause 22 as follows)

All non-road diesel powered equipment that is 25 hp (19 kw) or greater must comply with Metro Vancouver's Non-Road Diesel Engine Emissions Regulation Bylaw No. 1161, 2012 (the Bylaw). The Bylaw requires owners or operators of Tier 0 and Tier 1 non-road diesel engines to register, label, and pay fees in order to operate within Metro Vancouver. Please advise what Engine Tier your proposed equipment meets and if it complies with Metro Vancouver's Bylaw. Provide the engine registration number issued by Metro Vancouver if applicable. The City, at its discretion, may give preference to equipment that meets higher emission standards. To register your equipment call Metro Vancouver for assistance at 604-451-6655 or visit www.metrovancouver.org/nonroadiesel

- Geotechnical Report and Existing Conditions** 4.9 Considerable geotechnical challenges are anticipated during construction, including but not limited to: high groundwater, dewatering, deep excavations, and lightweight fill (EPS and pumice) construction and management.
- A geotechnical report is attached for reference. Tenderers shall make their own interpretation of this information and develop their bid accordingly. Tenderers shall be familiar with GC 4.4 Temporary Structures and Facilities.
- Contaminated Soils** 4.10 Contaminated soils have been identified within the project extents. A Soil Sampling and Analysis Report is included in Schedule 1 of the Contract Documents.
- Tenderers shall make themselves familiar with the requirements of 31 23.01S Contaminated Material Management.
- Third Party Utilities** 4.11 Tenderers shall be aware that there will be proximal works to third party utilities, including but not limited to Metro Vancouver watermain and FortisBC intermediate pressure gas lines. The Contractor is responsible for coordination and compliance with third party utility requirements.
- Temporary Facilities** 4.12 The Tenderer shall be aware that it is their responsibility to keep all systems functional through existing infrastructure or by alternative methods.
- Staging Areas** 4.13 The Tenderer shall be aware that locating and confirming staging areas for construction is their responsibility and should be included in the tender price.
- Environmental Protection for Twin Culverts Installation** 4.14 Tenderers shall make themselves familiar with the environmental requirements of Section 10.0 Environmental Protection and Construction Mitigation Plan from 01 54 00S General Requirements and 01 57 01 Environmental Protection. Environmental notification for the instream works related to the twin culvert replacements at Boundary Road are pending.
- Commencement Date** 4.15 Tenderers shall specify a Commencement Date for Work as per paragraph 5.1.2 of the Form of Tender.

FORM OF TENDER WITH APPENDICES

- Form of Tender
- Appendix 1: Schedule of Quantities and Prices
- Appendix 2: Preliminary Construction Schedule
- Appendix 3: Experience of Superintendent
- Appendix 4: Comparable Work Experience
- Appendix 5: List of Sub-Contractors
- Appendix 6: Force Account Labour and Equipment Rates
- Appendix 7: Declaration – Living Wage Employer

FORM OF TENDER

CORPORATION OF THE CITY OF NEW WESTMINSTER

(THE OWNER)

Contract: Ewen Avenue Reconstruction (Phase 3)

Reference No: NWIT-17-34

To Owner:
1 WE, THE UNDERSIGNED:

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

(Addenda, if any)

- 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; and

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*; and
 2.2 to achieve Substantial Performance of the *Work* on or before **October 31, 2018** 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 set out in Appendix 1, the “*Schedule of Quantities and Prices*”, plus any lump sums or specific 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*” 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 Tenderers – Part II; and
 4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers – Part II.
 4.1.3

Tenderer's Initials _____

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 10 *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
- a) a Performance Bond in the amount of 50% of the Contract Price, issued by a surety licensed to carry on the business of surety ship in the Province of British Columbia, and in a form acceptable to the *Owner*;
 - b) a Labour and Material Payment Bond in the amount of 50% of the Contract price, the Labour and Material Payment Bond must be a **Broad Form bond**, protecting all companies with a direct contract with the Principal or any sub-contractor of the Principal;
 - c) a *Baseline Construction Schedule*, as provided by GC 4.6.1;
 - d) a “clearance letter” indicating that the tenderer is in WorkSafeBC compliance;
 - e) a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place; and,
 - f) proof of a valid City of New Westminster or MetroWest Inter-Municipal Business License

5.1.2 within 2 *Days* of the “*Commencement Date*”, as specified in Appendix 2 of the Form of Tender, 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:

- a) fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or
- b) 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* upon written notice to us, may 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:
 - a) the face value of the *Bid Security*; and
 - b) the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

Tenderer's Initials _____

7

OUR ADDRESS is as follows:

Phone: _____

Fax: _____

E-mail:: _____

Attention: _____

This Tender is executed this

_____ day of _____, 2017

Contractor:

(full legal name of corporation, partnership or individual)

(Authorized Signatory)

(Authorized Signatory)

Tenderer's Initials _____

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*. *GST* shall be shown separately.)

TENDER SUMMARY

ITEM	DESCRIPTION	TOTAL AMOUNT
1.0	Ewen Avenue Reconstruction (Phase 3)	\$
TENDERED PRICE		\$
5% GST		\$
TOTAL TENDERED PRICE		\$

Tenderer's Initials _____

Form of Tender - Appendix 1

NWIT-17-34

(CONTRACT#)

EWEN AVENUE RECONSTRUCTION (PHASE 3)

(TITLE OF CONTRACT)

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. GST shall be shown separately.)

ITEM NO.	MMCD	DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE	AMOUNT
1.0	01 57 01	ENVIRONMENTAL PROTECTION				
1.1	1.6.2S	Environmental Protection	Lump Sum	1		
SUB-TOTAL ITEM 1.0: CARRY FORWARD TO TENDER SUMMARY						
2.0	03 30 20	CONCRETE WALKS CURBS AND GUTTERS				
2.1	1.4.3	Concrete Curb & Gutter (MMCD C5)	Lineal Metre	1320		
2.2	1.4.3	Concrete Curb & Gutter (MMCD C5) - Medians	Lineal Metre	700		
2.3	1.4.5	Concrete Sidewalk and Bus Stops (100mm thick)	Square Metre	1340		
2.4	1.4.5	Concrete Driveway Letdown (190mm thick)	Square Metre	445		
2.5	1.4.5	Concrete Wheelchair Letdown	Square Metre	370		
2.6	1.4.6S	Concrete Driveway Crossings Band - Multi-Use Pathway	Lineal Metre	57		
2.7	1.4.6S	Concrete Intersection Landings - Multi-Use Pathway	Square Metre	1100		
2.8	1.4.8S	Concrete Planter Wall and Apron - Raised Medians	Lineal Metre	300		
2.9	1.4.8S	Concrete Planter Wall Support	Cubic Metre	10		
2.10	1.4.5	Concrete Median Infill, C/W Stamp and Colour	Square Metre	250		
2.11	1.4.5	Integral Bands 0.45m Width - Multi-Use Pathway	Lineal Metre	90		
2.12	1.4.5	Integral Bands Pedestrian Areas	Square Metre	175		
SUB-TOTAL ITEM 2.0: CARRY FORWARD TO TENDER SUMMARY						
3.0	03 30 53	CAST-IN-PLACE CONCRETE				
3.1	1.5.1	Rain Gardens	Lump sum	1		
SUB-TOTAL ITEM 3.0: CARRY FORWARD TO TENDER SUMMARY						
4.0	03 40 01	PRE CAST CONCRETE				
4.1	1.4.6S	Allan Block Retaining Wall (0.5-1.5m Height)	Square Metre	125		
4.2	1.4.6S	Allan Block Stairs (OPTIONAL)	Vertical Metre	15		
4.3	1.4.5	Relocate Existing No-Post Barriers - Offsite	Lineal Metre	50		
4.4	1.4.5	Relocate Existing No-Post Barriers - Preloading Retention - Twin Culverts at Boundary Road (OPTIONAL)	Lump Sum	1		
4.5	1.4.6	Supply and Place No-Post Barriers - 2500x690x550 - Twin Culverts at Boundary Road (OPTIONAL)	Each	10		
SUB-TOTAL ITEM 4.0: CARRY FORWARD TO TENDER SUMMARY						

ITEM NO.	MMCD	DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE	AMOUNT
5.0	12 93 00	SITE FURNISHINGS				
5.1	1.4.5S	Drinking fountain c/w Water Service from BFP, PRV	Each	2		
5.2	1.4.6S	Waste Receptacles	Each	4		
5.3	1.4.3S	Bollards - Owner Supplied, Install Only	Each	18		
5.4	1.4.2S	Bike Rack	Each	2		
5.5	1.4.1S	Benches	Each	11		
5.6	1.4.4S	Unit Paving - Decorative Band 1020 to 1040 Ewen Avenue	Lineal Metre	22		
5.7	1.4.4S	Unit Paving - 1201, 1132, 1130, 1102	Square Metre	210		
5.8	1.4.4S	Unit Paving - 1020/1038 Pedestrian Walkway	Square Metre	30		
5.9	1.4.4S	Unit Paving - Beast Edge Restraint	Lineal Metre	110		
SUB-TOTAL ITEM 5.0: CARRY FORWARD TO TENDER SUMMARY						
6.0	26 56 01	ROADWAY LIGHTING				
6.1	1.9.1 / 2	Street and Pedestrian Lighting	L.S.	1		
6.2	1.9.4S	Removal of Existing Streetlights	L.S.	1		
SUB-TOTAL ITEM 6.0: CARRY FORWARD TO TENDER SUMMARY						
7.0	31 11 01	CLEARING AND GRUBBING				
7.1	1.4.3S	Trees, Shrubs and Hedge Removals	L.S.	1		
7.2	1.4.6S	Tree Protection - Mulch	L.S.	1		
7.3	1.4.6S	Tree Protection - Fencing	L.S.	1		
7.4	--	Air Spading (do not include incidental costs in the Allowance price)	Allowance	1	\$ 10,000.00	\$ 10,000.00
7.5	1.4.7S	Hydro Excavation (OPTIONAL)	Hours	50		
SUB-TOTAL ITEM 7.0: CARRY FORWARD TO TENDER SUMMARY						
8.0	31 23 17	ROCK REMOVAL				
8.1	1.6	Rock Removal (OPTIONAL)	Cubic Metre	70		
SUB-TOTAL ITEM 8.0: CARRY FORWARD TO TENDER SUMMARY						
9.0	31 24 13	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION				
9.1	1.8.4	Miscellaneous removals - Fencing, Benching, etc. - Offsite Disposal - As Required to Construct Works	L.S.	1		
9.2	1.8.5S	Common Excavation - Shoulder, Boulevard, Under Existing Sidewalk, Miscellaneous 0-1.0m depth - Offsite Disposal	Cubic Metre	2200		
9.3	1.8.5S	Common Excavation - Ditches 0-2.0m depth - Offsite Disposal	Cubic Metre	12000		
9.4	1.8.5S	Offsite Disposal of Contaminated Soil - Common Excavation Premium	Tonne	2000		
9.5	1.8.14S	Remove Existing Concrete and Asphalt Sidewalk, Monolithic Sidewalk and Curb, Wheelchair Letdown, Driveway Letdowns - Offsite Disposal	Square Metre	1200		
9.6	1.8.14S	Remove Existing Concrete Curb and Gutter - Offsite Disposal	Lineal Metre	1100		

ITEM NO.	MMCD	DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE	AMOUNT
9.7	1.8.14S	Remove Existing Concrete Bus Pads - Boundary to Hume; Gifford - Offsite Disposal	Square Metre	58		
9.8	1.8.18S	Remove Existing Driveway Culverts and Bridges - Various Sizes and Materials - Offsite Disposal	Lineal Metre	220		
9.9	1.8.17S	Remove Existing Catch Basin c/w Cap of Existing Leads - Offsite Disposal	Each	16		
9.10	1.8.16S	Remove Existing Utility Poles Following Underground Utility Installations	L.S.	1		
9.11	1.8.15S	Over Excavation (OPTIONAL)	Cubic Metre	500		
SUB-TOTAL ITEM 9.0: CARRY FORWARD TO TENDER SUMMARY						
10.0	31 32 19	GEOSYNTHETICS				
10.1	1.6.1	Root Barrier at Curb - 300mm depth	Lineal Metre	560		
10.2	1.6.1	Geogrid - Tensar Biaxial BX1200 - Twin Culverts at Boundary Road (OPTIONAL)	Square Metre	180		
10.3	1.6.1	Polyethylene Sheeting (10-mil) - Fully Wrap EPS	Square Metre	18000		
10.4	1.6.1	Non-Woven Geotextile - All Uses	L.S.	1		
10.5	1.6.2S	Lightweight Fill - Ditches - EPS	Cubic Metre	8600		
SUB-TOTAL ITEM 10.0: CARRY FORWARD TO TENDER SUMMARY						
11.0	31 37 10	RIPRAP				
11.1	1.4.1	300mm Rip Rap	Tonne	150		
11.2	1.4.2S	Rounded Boulders (OPTIONAL)	Tonne	125		
SUB-TOTAL ITEM 11.0: CARRY FORWARD TO TENDER SUMMARY						
12.0	32 01 16.7	COLD MILLING				
12.1	1.5.1.1S	Inlay Milling to 110mm Depth - Disposal Offsite	Square Metre	11500		
SUB-TOTAL ITEM 12.0: CARRY FORWARD TO TENDER SUMMARY						
13.0	32 01 16.8	FULL DEPTH RECLAMATION				
13.1	1.5.1S	Full Depth Reclamation to 400mm Depth	Square Metre	11500		
13.2	1.5.4S	Base Stabilization to 250mm Depth	Square Metre	11850		
SUB-TOTAL ITEM 13.0: CARRY FORWARD TO TENDER SUMMARY						
14.0	32 11 16.1	GRANULAR SUBBASE				
14.1	1.4.2	75mm Minus Granular Subbase	Tonne	9000		
14.2	1.4.2	MMCD River Sand	Tonne	5000		
14.3	1.4.2	MMCD Pumice - Twin Culverts at Boundary Road (OPTIONAL)	Tonne	35		
14.4	1.4.2	MMCD Pit Run Gravel - Bulk Fill Material as Approved by Contract Administrator (OPTIONAL)	Tonne	500		
SUB-TOTAL ITEM 14.0: CARRY FORWARD TO TENDER SUMMARY						
15.0	32 11 23	GRANULAR BASE				
15.1	1.4.2	19mm Minus Crushed Granular Base	Tonne	7000		
SUB-TOTAL ITEM 15.0: CARRY FORWARD TO TENDER SUMMARY						

ITEM NO.	MMCD	DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE	AMOUNT
16.0	32 12 13.1	ASPHALT TACK COAT				
16.1	1.5.1	Asphalt Tack Coat	Square Metre	11850		
SUB-TOTAL ITEM 16.0: CARRY FORWARD TO TENDER SUMMARY						
17.0	32 12 16	HOT-MIX ASPHALT CONCRETE PAVING				
17.1	1.5.1	Machine Laid Warm Mix Asphalt (MMCD Lower Course #1)	Tonne	2200		
17.2	1.5.1	Machine Laid Warm Mix Asphalt (MMCD Upper Course #1)	Tonne	1200		
17.3	1.5.1	Machine Laid Warm Mix Asphalt (MMCD Upper Course #2) Multi-Use Pathway	Tonne	190		
17.4	1.5.1	Machine Laid Warm Mix Asphalt (MMCD Upper Course #2) Driveways	Tonne	75		
17.5	1.5.4	Asphalt Extruded Curb 150mm - Back of MUP / Driveways (OPTIONAL)	Lineal Metre	50		
17.6	1.5.9S	Raised Intersections	Square Metre	240		
17.7	1.5.10S	Raised Crosswalks	Each	2		
17.8	1.5.10S	Sinusoidal Speed Humps	Each	3		
17.9	1.5.1	Landscape Optional Item - Asphalt Streetprint - Herringbone Pattern - Dark and Grey Colour c/w Sealer (OPTIONAL)	Square Metre	400		
SUB-TOTAL ITEM 17.0: CARRY FORWARD TO TENDER SUMMARY						
18.0	32 13 13	PORTLAND CEMENT CONCRETE PAVEMENT				
18.1	1.4.3	Concrete Bus Pad - 200mm Thick C/W Fibre Reinforcement and Mesh	Square Metre	270		
18.2	1.4.3	Landscape Optional Item - Concrete Band 300mm Wide (OPTIONAL)	Lineal Metre	380		
18.3	1.4.3	Landscape Optional Item - Concrete Streetprint - Herringbone Pattern - Dark and Grey Colour c/w Sealer (OPTIONAL)	Square Metre	400		
SUB-TOTAL ITEM 18.0: CARRY FORWARD TO TENDER SUMMARY						
19.0	32 17 23	PAINTED PAVEMENT MARKINGS				
19.1	1.5.1/2	Temporary and Permanent Lane Pavement Markings	L.S.	1		
19.2	1.5.3	Thermoplastic Pavement Markings - Symbols, Stop Bars, and Pathway	L.S.	1		
19.3	1.5.3	MMA Pavement Marking (1-3 mil) - MUP Crossing at Boundary Road (OPTIONAL)	L.S.	1		
19.4	1.5.5S	Signage - Including Removal, Stockpile, Relocation, Supply and Installation	L.S.	1		
SUB-TOTAL ITEM 19.0: CARRY FORWARD TO TENDER SUMMARY						
20.0	31 31 13	CHAINLINK FENCES AND GATES				
20.1	1.6.4S	Steel Handrail (OPTIONAL)	Lineal Metre	150		
SUB-TOTAL ITEM 20.0: CARRY FORWARD TO TENDER SUMMARY						
21.0	32 91 13.23	STRUCTURAL SOIL				
21.1	1.4.1	Structural Soil (OPTIONAL)	Cubic Metre	50		
SUB-TOTAL ITEM 21.0: CARRY FORWARD TO TENDER SUMMARY						

ITEM NO.	MMCD	DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE	AMOUNT
22.0	32 91 21	TOPSOIL AND FINISH GRADING				
22.1	1.4.1	Imported Planting Growing Medium - CoNW Blend	Cubic Metre	3500		
SUB-TOTAL ITEM 22.0: CARRY FORWARD TO TENDER SUMMARY						
23.0	32 92 19	HYDRAULIC SEEDING				
23.1	1.8.2	All Purpose Sun Shade Mix	Square Metre	300		
SUB-TOTAL ITEM 23.0: CARRY FORWARD TO TENDER SUMMARY						
24.0	32 92 23	SODDING				
24.1	1.8.1	Supreme Sod	Square Metre	3900		
SUB-TOTAL ITEM 24.0: CARRY FORWARD TO TENDER SUMMARY						
25.0	32 93 01	PLANTING OF TREES, SHRUBS AND GROUND COVERS				
25.1	1.9.1S	Trees c/w Stakes, Straps & Coarse Bark Mulch	Each	130		
25.2	1.9.2S	Hedge - 1.8m Cedar c/w Mulch	Each	162		
25.3	1.9.2S	Hedge - 1.0m Laurel	Each	160		
25.4	1.9.2S	Feature Plantings c/w Mulch	Lump Sum	1		
25.5	1.9.2S	Rain Garden Plantings c/w Mulch	Lump Sum	1		
25.6	1.9.2S	Miscellaneous Landscaping - Property Ammendments (do not include incidental costs in the Allowance price)	Allowance	1	\$ 25,000.00	\$ 25,000.00
25.7	1.9.3S	Hanging Basket (do not include incidental costs in the Allowanc price)	Allowance	1	\$ 90,000.00	\$ 90,000.00
SUB-TOTAL ITEM 25.0: CARRY FORWARD TO TENDER SUMMARY						
26.0	32 93 02	ESTABLISHMENT MAINTENANCE				
26.1	1.5.1	Establishment Maintenance	Monthly	12		
SUB-TOTAL ITEM 26.0: CARRY FORWARD TO TENDER SUMMARY						
27.0	32 94 01	IRRIGATION SYSTEM				
27.1	1.7.1S	Irrigation System Complete (Design and Build) (do not include incidental costs in the Allowance price)	Allowance	1	\$ 120,000.00	\$ 120,000.00
SUB-TOTAL ITEM 27.0: CARRY FORWARD TO TENDER SUMMARY						\$ 120,000.00
28.0	31 23 01.2S	PRELOADING AND GEOTECHNICAL INSTRUMENTATION				
28.1	3.01	Geotechnical Instrumentation Monitoring - Twin Culverts at Boundary Road (OPTIONAL)	Lump Sum	1		
SUB-TOTAL ITEM 28.0: CARRY FORWARD TO TENDER SUMMARY						
29.0	33 11 01	WATERWORKS				
29.1	1.8.2S	Watermain Relocation - Detail Sheet 5 - Complete	Each	3		
29.2	1.8.2S	Water Service Relocation - Detail Sheet 5 - Complete	Each	5		
29.3	--	Water Fountain Stub c/w Tie-in to CoNW Water, BFP, PRV, Chamber, Lid, Thrust Blocks - Detail Sheet 6	Each	2		
SUB-TOTAL ITEM 29.0: CARRY FORWARD TO TENDER SUMMARY						
30.0	33 34 01	SEWAGE FORCEMAINS				
30.1	1.8.2S	Forcemain Relocation - Detail Sheet 5 - Complete	Each	2		
SUB-TOTAL ITEM 30.1: CARRY FORWARD TO TENDER SUMMARY						

ITEM NO.	MMCD	DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE	AMOUNT
31.0	33 40 01	STORM SEWERS				
31.1	1.6.2	1000mm Diameter Weholite RSC250 HDPE Storm Sewer c/w Infiltration Ports	Lineal Metre	900		
31.2	1.6.5	Catch Basin / Lawn Basin Lead - 150mm SDR28 PVC c/w Tee Connection to Storm Sewer	Lineal Metre	260		
31.3	1.6.3	Storm Service - 150mm SDR28 PVC c/w IC at Property (MMCD S6), Tee Connection to Storm Sewer	Lineal Metre	205		
31.4	1.6.3	Perforated Pipe - 150mm SDR28 PVC c/w Non-Woven Geotextile, Drain Rock - Median Drainage c/w Tee Connection to Storm Sewer	Lineal Metre	30		
31.5	1.6.3	Rain Garden c/w Forming, Boulders	Each	5		
SUB-TOTAL ITEM 31.0: CARRY FORWARD TO TENDER SUMMARY						
32.0	33 44 01	MANHOLES AND CATCHBASINS				
32.1	1.5.2	Catch Basin - 900mm Diameter	Each	30		
32.2	1.5.9S	Manholes Weholite - 1500mm Diameter c/w 0.5m Sump, Base, Risers, Ladder, Frame and Cover, Infiltration Ports	Each	11		
32.3	1.5.9S	Overbuild - Manholes Weholite - 1800mm Diameter c/w 0.5m Sump, Base, Risers, Ladder, Frame and Cover (OPTIONAL)	Each	2		
32.4	1.5.2	Lawn Basins - 600mm Diameter (OPTIONAL)	Each	12		
32.5	1.5.2	Lawn Basin Beehive Grates	Each	5		
32.6	1.5.7.4	Adjust Valve and Meter Boxes	Each	62		
32.7	1.5.7.2	Adjust Manholes - CNW	Each	16		
32.8	1.5.7.5	Adjust Manholes - 3rd Party	Each	16		
32.9	1.5.7.6	Replace frames and covers with CNW Standard Casting (OPTIONAL)	Each	7		
32.10	1.5.8S	ACO Classic Drain K100 Assembly c/w Storm and Tee Connection to Storm Sewer - Detail Sheet 5	Lineal Metre	25		
SUB-TOTAL ITEM 32.0: CARRY FORWARD TO TENDER SUMMARY						
33.0	33 42 13	PIPE CULVERTS				
33.1	1.5.1	1050mm (OD) Sclairpipe DR26 HDPE Culvert c/w Buttfusing Joints - Twin Culverts at Boundary Road (OPTIONAL)	Lineal Metre	89		
33.2	1.5.1	1050x1050x1050mm Sclairpipe Tee - Twin Culverts at Boundary Road (OPTIONAL)	Each	2		
33.3	1.5.1	1050mm HDPE Mitered Bend - Twin Culverts at Boundary Road (OPTIONAL)	Each	1		
33.4	1.5.1	1050mm HDPE Riser Manhole c/w Risers, Ladder, Frame and Cover - Twin Culverts at Boundary Road (OPTIONAL)	Each	2		
33.5	1.5.3	Pre-Eco-Lite Headwall - Series 5 c/w Trash Rack and Security Grid - Varying Diameters	Each	10		
SUB-TOTAL ITEM 34.0: CARRY FORWARD TO TENDER SUMMARY						
34.0	00 00 01	THIRD PARTY ALLOWANCES				
34.1	-	CNW Electrical - Contractor installation of underground CNW Electrical conduit, boxes, chambers in accordance with CNW specifications and design (do not included incidental costs in the Allowance price).	Allowance	1	\$ 300,000.00	\$ 300,000.00
34.2	-	CNW Fibre Optic - Contractor installation of underground CNW fibre optic conduit, boxes in accordance with CNW specifications and design (do not included incidental costs in the Allowance price).	Allowance	1	\$ 275,000.00	\$ 275,000.00

UNIT PRICE CONTRACT

ITEM NO.	MMCD	DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE	AMOUNT
34.3	-	BC Hydro - Contractor installation of underground BC Hydro conduit, boxes, chambers in accordance with BC Hydro specifications and design (do not included incidental costs in the Allowance price).	Allowance	1	\$ 400,000.00	\$ 400,000.00
34.4	-	Telus - Contractor installation of underground Telus conduit, boxes, chambers in accordance with Telus specifications and design (do not included incidental costs in the Allowance price).	Allowance	1	\$ 200,000.00	\$ 200,000.00
34.5	-	Shaw - Contractor installation of underground Shaw conduit, boxes in accordance with Shaw specifications and design (do not included incidental costs in the Allowance price).	Allowance	1	\$ 200,000.00	\$ 200,000.00
34.6	-	Fortis BC - Minor relocations of Fortis BC DP gas. Work to be completed by Fortis BC. Contractor to coordinate with Fortis BC as necessary (do not included incidental costs in the Allowance price).	Allowance	1	\$ 100,000.00	\$ 100,000.00
SUB-TOTAL ITEM 34.0: CARRY FORWARD TO TENDER SUMMARY						\$ 1,475,000.00

FORM OF TENDER – Appendix 2

PRELIMINARY CONSTRUCTION SCHEDULE
 (See paragraph 5.3.2 of the Instructions to Tenderers - Part II)

Indicate schedule with bar chart with major item descriptions and time.

Substantial Performance: **October 31, 2018**

ACTIVITY	CONSTRUCTION SCHEDULE MONTHS)											
<p><i>Commencement Date</i> No earlier than 20 Days from the <i>Tender Closing Date</i> (Refer to FT 5.1.2 and SGC 1.82)</p>												

Tenderer's Initials _____

FORM OF TENDER – Appendix 3

EXPERIENCE OF SUPERINTENDENT

(See paragraph 5.3.3 of the Instructions to Tenderers - Part II)

Include name and contact information for references

Name: _____ Years' Experience: _____

Experience:

Date: _____

Project Name: _____

Responsibilities: _____

References: _____

Date: _____

Project Name: _____

Responsibilities: _____

References: _____

Date: _____

Project Name: _____

Responsibilities: _____

References: _____

Tenderer's Initials _____

FORM OF TENDER – Appendix 4

COMPARABLE WORK EXPERIENCE

(See paragraph 5.3.4 of the Instructions to Tenderers - Part II – add additional pages as necessary)

Company / Owner's Name: _____

Contact Person: _____ Phone: _____

Email Address _____

Description of Work: _____

Project Date: _____ Approximate Value: _____

Company / Owner's Name: _____

Contact Person: _____ Phone: _____

Email Address _____

Description of Work: _____

Project Date: _____ Approximate Value: _____

Company / Owner's Name: _____

Contact Person: _____ Phone: _____

Email Address _____

Description of Work: _____

Project Date: _____ Approximate Value: _____

Tenderer's Initials _____

FORM OF TENDER – Appendix 5

LIST OF SUBCONTRACTORS
 (See paragraph 5.3.5 of the Instructions to Tenderers - Part II)

TENDER ITEM	TRADE	SUBCONTRACTOR NAME	PHONE NUMBER

Tenderer's Initials _____

FORM OF TENDER – Appendix 6

FORCE ACCOUNT LABOUR AND EQUIPMENT RATES

(See paragraph 4.1 – 5.3.6 of the Instructions to Tenderers - Part I)

Labour and Equipment Classification	Hourly Rate	Overtime Rate
Foreman	\$ /hour	\$ /hour
Equipment Operator	\$ /hour	\$ /hour
Labourer	\$ /hour	\$ /hour
Flag person	\$ /hour	\$ /hour
Grade person	\$ /hour	\$ /hour
Landscape, Foreman	\$ /hour	\$ /hour
Landscape, Labourer	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour
	\$ /hour	\$ /hour

Tenderer's Initials _____

FORM OF TENDER – Appendix 7

DECLARATION – LIVING WAGE EMPLOYER

(See paragraph 4.1 – 5.3.7 and paragraph 4.6 of the Instructions to Tenderers – Part I)



I, _____ as a duly authorized signing officer of

Company: _____

Address _____

_____, confirm that all employees and sub-contractors under our contract with the City as outlined below, are paid not less than the “Living Wage” as calculated by the Living Wage for Families Campaign.

I understand that this requirement extends only to those employees and sub-contractors’ employees that perform work while on City premises and property for durations in excess of one continuous hour per occasion.

I understand that the City will conduct audits if and when notification of breach of this compliance is received by the City. I understand that in the event any breach of this declaration is found to be true, the City reserves the right to cancel its contract without penalty at any time once said authentication of the breach is made.

Contract Name: _____

Authorized Signatory:

Dated:

Tenderer’s Initials _____

AGREEMENT

- Agreement
 - Schedule 1 – Schedule of Contract Documents
 - Schedule 2 – List of Drawings
 - Schedule 3 – Prime Contractor Designation

AGREEMENT

BETWEEN OWNER AND CONTRACTOR

(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

BETWEEN *OWNER* AND *CONTRACTOR*

This agreement made in duplicate this

_____ day of _____, 2017

Contract: **Ewen Avenue Reconstruction (Phase 3)**

Reference No. **NWIT-17-34**

BETWEEN:

The Corporation of the City of New Westminster
 511 Royal Avenue
 New Westminster, BC, V3L 1H9

(the "*Owner*")

AND:

(NAME AND OFFICE ADDRESS OF CONTRACTOR)

(the "*Contractor*")

The *Owner* and the *Contractor* agree as follows:

**Article 1
 The Work Start /
 Completion Dates**

- 1.1 The *Contractor* will perform all *Work*, provide all labour, equipment, and material, and do all things strictly as required by the *Contract Documents*.
- 1.2 The *Contractor* will commence the *Work* in accordance with the *Notice to Proceed*. The *Contractor* will proceed with the *Work* diligently, will perform the *Work* generally in accordance with the construction schedules as required by the *Contract Documents* and will achieve *Substantial Performance* of the *Work* on or before **October 31, 2018**, subject to the provisions of the *Contract Documents* for adjustments to the *Contract Time*.
- 1.3 Time shall be of the essence of the *Contract*.

**Article 2
 Contract Documents**

- 2.1 The "*Contract Documents*" consist of the documents listed or referred to in Schedule 1, entitled "Schedule of Contract Documents", which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the *Contract Documents*. All of the *Contract Documents* shall constitute the entire *Contract* between the *Owner* and the *Contractor*.

2.2 The *Contract* supersedes all prior negotiations, representations, or agreements, whether written or oral, and the *Contract* may be amended only in strict accordance with the provisions of the *Contract Documents*.

**Article 3
Contract Price**

3.1 The price for the *Work* (“*Contract Price*”) shall be the sum in Canadian dollars of the following

3.1.1 the product of the actual quantities of the items of *Work* listed in the *Schedule of Quantities and Prices* which are incorporated into or made necessary by the *Work* and the unit prices listed in the *Schedule of Quantities and Prices*; plus

3.1.2 all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus

3.1.3 any adjustments, including any payments owing on account of *Changes* and agreed to *Extra Work*, approved in accordance with the provisions of the *Contract Documents*

3.2 The *Contract Price* shall be the entire compensation owing to the *Contractor* for the *Work* and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the *Work*.

**Article 4
Payment**

4.1 Subject to applicable legislation and the provisions of the *Contract Documents*, the *Owner* shall make payments to the *Contractor*.

4.2 If the *Owner* fails to make payments to the *Contractor* as they become due in accordance with the terms of the *Contract Documents* then interest calculated at 0% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.

**Article 5
Rights and Remedies**

5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

5.2 Except as specifically set out in the *Contract Documents*, no action or failure to act by the *Owner*, *Contract Administrator* or *Contractor* shall constitute a waiver of any of the parties’ rights or duties afforded under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

**Article 6
Notices**

- 6.1 Communications among the *Owner*, the *Contract Administrator* and the *Contractor*, including all written notices required by the *Contract Documents*, may be delivered by hand, or by fax, or by pre-paid registered mail to the addresses as set out below:

The *Owner*:

**Corporation of the City of New Westminster
511 Royal Avenue
New Westminster, BC V3L 1H9**

Fax:

Attention:

The *Contractor*:

Fax:

Attention:

The *Contract Administrator*:

**ISL Engineering and Land Services Ltd.
503 – 4190 Lougheed Highway
Burnaby, BC V5C 6A8**

Fax: 604-629-2698

Attention Ian McKinnon, P.Eng.

- 6.2 A communication or notice that is addressed as above shall be considered to have been received
- 6.2.1 immediately upon delivery, if delivered by hand; or
- 6.2.2 immediately upon transmission if sent by fax and received in hard copy; or
- 6.2.3 after 5 Days from date of posting if sent by registered mail.
- 6.3 The *Owner* or the *Contractor*, at any time, may change its address for notice by giving written notice to the other at the address then applicable. Similarly, if the *Contract Administrator* changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.
- 6.4 The sender of a notice by fax assumes all risk that the fax is received in hard copy.
- 7.1 This *Contract* shall be construed according to the laws of British Columbia.
- 7.2 The *Contractor*, without the express written consent of the *Owner*, shall not, assign this *Contract*, or any portion of this *Contract*.

**Article 7
General**

- 7.3 The headings included in the *Contract Documents* are for convenience only and do not form part of this *Contract* and will not be used to interpret, define, or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.
- 7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.
- 7.5 This agreement shall enure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first written above.

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Owner:

Corporation of the City of New Westminster
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

**Schedule 1
Schedule of Contract
Documents**

The following is an exact and complete list of the *Contract Documents*, as referred to in Article 2.1 of the Agreement.

NOTE: The documents noted with “*” are contained in the “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”, edition dated 2009 Platinum. All sections of this publication are included in the *Contract Documents*.

- Agreement, including all Schedules;
- Schedule 3 – Prime Contractor Designation;
- Supplementary General Conditions (if any);
- General Conditions*;
- Supplementary Specifications (if any);
- Specifications*;
- Supplementary Standard Detail Drawings (if any);
- Standard Detail Drawings*;
- Executed Form of Tender, including all Appendices;
- Contract Drawings* listed in Schedule 2 to the Agreement –”List of *Contract Documents*”;
- Instructions To Tenderers - Part I;
- Instructions to Tenderers - Part II*;
- Soil Sampling and Analysis Report (August, 2017);
- City of New Westminster Irrigation Standards and Specifications (2014);
- City of New Westminster Specifications for Underground Electric Distribution Structures (2011);

The following Addenda:

(ADDENDA, IF ANY)

Schedule 2
List of Contract Drawings

TITLE	DRAWING NO.	REVISION NO.	REVISION DATE
Cover Sheet	01	04	17/08/23
General Notes	02	04	17/08/23
Typical Details	03	04	17/08/23
Typical Details	04	04	17/08/23
Typical Details	05	04	17/08/23
Typical Details	06	04	17/08/23
Typical Details	07	04	17/08/23
Typical Details	08	04	17/08/23
Plan & Profile – STA 1+000 TO 1+100	09	04	17/08/23
Plan & Profile – STA 1+100 TO 1+200	10	04	17/08/23
Plan & Profile – STA 1+200 TO 1+320	11	04	17/08/23
Plan & Profile – STA 1+320 TO 1+420	12	04	17/08/23
Plan & Profile – STA 1+420 TO 1+540	13	04	17/08/23
Plan & Profile – STA 1+540 TO 1+660	14	04	17/08/23
Plan & Profile – STA 1+660 TO 1+780	15	04	17/08/23
Plan & Profile – STA 1+780 TO 1+820	16	04	17/08/23
Hume St. Intersection	17	04	17/08/23
Dawe St. Intersection	18	04	17/08/23
Gifford St. Intersection	19	04	17/08/23
Jardine St. Intersection	20	04	17/08/23
Cross Sections – STA 1+000 TO 1+080	21	04	17/08/23
Cross Sections – STA 1+095 TO 1+170	22	04	17/08/23
Cross Sections – STA 1+185 TO 1+260	23	04	17/08/23
Cross Sections – STA 1+275 TO 1+350	24	04	17/08/23
Cross Sections – STA 1+365 TO 1+440	25	04	17/08/23
Cross Sections – STA 1+455 TO 1+530	26	04	17/08/23
Cross Sections – STA 1+545 TO 1+620	27	04	17/08/23
Cross Sections – STA 1+635 TO 1+710	28	04	17/08/23
Cross Sections – STA 1+725 TO 1+800	29	04	17/08/23
Pavement Markings and Signage – STA 1+000 TO 1+100	30	04	17/08/23
Pavement Markings and Signage – STA 1+100 TO 1+200	31	04	17/08/23

Pavement Markings and Signage – STA 1+200 TO 1+320	32	04	17/08/23
Pavement Markings and Signage – STA 1+320 TO 1+420	33	04	17/08/23
Pavement Markings and Signage – STA 1+420 TO 1+540	34	04	17/08/23
Pavement Markings and Signage – STA 1+540 TO 1+660	35	04	17/08/23
Pavement Markings and Signage – STA 1+660 TO 1+780	36	04	17/08/23
Pavement Markings and Signage – STA 1+780 TO 1+820	37	04	17/08/23
Treatment Plan – STA 1+000 TO 1+280	38	04	17/08/23
Treatment Plan – STA 1+280 TO 1+820	39	04	17/08/23
South Storm – STA 1+000 TO 1+120	40	04	17/08/23
South Storm – STA 1+120 TO 1+240	41	04	17/08/23
South Storm – STA 1+240 TO 1+360	42	04	17/08/23
South Storm – STA 1+480 TO 1+580	43	04	17/08/23
North Storm – STA 1+020 TO 1+120	44	04	17/08/23
North Storm – STA 1+120 TO 1+240	45	04	17/08/23
North Storm – STA 1+240 TO 1+360	46	04	17/08/23
North Storm – STA 1+680 TO 1+820	47	04	17/08/23
Boundary Road Twin Culverts	48	04	17/08/23
Streetlighting – STA 1+000 TO 1+360	49	04	17/08/23
Streetlighting – STA 1+360 TO 1+820	50	04	17/08/23
Streetlighting – Typical Details	51	04	17/08/23
Landscape Overview	52	02	17/08/23
Landscape Notes 1	53	02	17/08/23
Landscape Notes 2	54	02	17/08/23
Landscape Demolition Plan 1	55	02	17/08/23
Landscape Demolition Plan 2	56	02	17/08/23
Landscape Site Furnishing and Material Key	57	02	17/08/23
Landscape Planting Key	58	02	17/08/23
Landscape Site Plan 1	59	02	17/08/23
Landscape Site Plan 2	60	02	17/08/23
Landscape Site Plan 3	61	02	17/08/23

Landscape Site Plan 4	62	02	17/08/23
Landscape Site Plan 5	63	02	17/08/23
Landscape Site Plan 6	64	02	17/08/23
Planting Plan Enlargement 1	65	02	17/08/23
Planting Plan Enlargement 2	66	02	17/08/23
Planting Plan Enlargement 3	67	02	17/08/23
Planting Plan Enlargement 4	68	02	17/08/23
Planting Plan Enlargement 5	69	02	17/08/23
Planting Plan Enlargement 6	70	02	17/08/23
Raingarden Detail 1	71	02	17/08/23
Raingarden Detail 2	72	02	17/08/23
Raingarden Detail 3	73	02	17/08/23
Raingarden Detail 4	74	02	17/08/23
Landscape General Details 1	75	02	17/08/23
Landscape General Details 2	76	02	17/08/23
Landscape General Details 3	77	02	17/08/23

Schedule 3
Prime Contractor Designation

Prime Contractor Designation

This Schedule forms part of the agreement between the Corporation of the City of New Westminster (the “City”) and _____ (the “Contractor) respecting _____ (the “Agreement”).

1. DEFINITIONS

1.1 In this Prime Contractor Designation schedule:

- (a) “**Agreement**” means the agreement entered into between the City and the Contractor on [date] in relation to [description of services] for the Project;
- (b) “**Hazardous Materials Report**” means a report prepared by a qualified person in accordance with s. 20.112 of the *OH&S Regulation*;
- (c) “**Owner**” means the City, which is the owner of the Project;
- (d) “**Project**” means [description of project];
- (e) “**Project Manager**” means the City’s designate with responsibility to liaise with the Contractor for the purpose of managing, overseeing, coordinating or in any other way administering the Project

2. PRIME CONTRACTOR DESIGNATION

2.1 The Contractor agrees to assume the responsibilities of Prime Contractor for the Project, as set out in the *Workers Compensation Act* and the *OH&S Regulation*.

3. CONTRACTOR RESPONSIBILITIES AS PRIME CONTRACTOR

3.1 As Prime Contractor for the Project, the Contractor will:

- (a) ensure that the activities of employers, workers and other persons at the Project relating to occupational health and safety are coordinated; and
- (b) do everything that is reasonably practicable to establish and maintain a system or process that will ensure compliance at the Project with the *Workers Compensation Act* and the *OH&S Regulation*.

3.2 Without limiting the generality of the foregoing, the Contractor will:

- (a) prior to beginning demolition or construction work on the Project, meet with the Project Manager to review and complete the Pre-Job Meeting Form, to review and discuss the information in the City’s Known Hazards Form and the Contractor’s pre-work hazard identification documents, and to review and discuss the Hazardous Materials Report (if any);
- (b) conduct all necessary and appropriate inquiries of all relevant City staff and City records to ensure the Contractor is not missing any information from the City that is relevant to safety at the Project;

- (c) review, plan to address, and address all hazards identified in the City's Known Hazards Form, the Contractor's pre-work hazard identification documents, any Hazardous Materials Report, and any hazards or risk identified in the *Workers Compensation Act* or the *OH&S Regulation*;
- (d) maintain and make available the documents listed on the Pre-Job Meeting Form, as appropriate;
- (e) inform all other employers working on the Project that the Contractor is designated as the Prime Contractor for the Project;
- (f) establish and maintain a system or process that will ensure compliance with the *OH&S Regulation* when visitors (i.e. couriers, inspectors, suppliers, etc.) enter the Project, which shall include site orientation and hazard communication to such visitors by the Contractor or the Contractor's designate;
- (g) maintain a current list of persons that each employer at the Project has designated to be responsible for that employer's health and safety activities at the Project;
- (h) ensure appropriate first aid resources are available for workers at the Project at all times work is being performed, in accordance with and as required by the *OH&S Regulation*;
- (i) if required by the *OH&S Regulation*, submit a Notice of Project to WorkSafeBC in accordance with the *OH&S Regulation*, and comply with all requirements of the *OH&S Regulation* concerning the Notice of Project;
- (j) if required by the *OH&S Regulation*, the Contractor will appoint a Qualified Coordinator for the purpose of ensuring the coordination of health and safety activities for the Project, and the Contractor shall ensure that any Qualified Coordinator so appointed is qualified to perform the responsibilities of his or her position and carries out the roles and responsibilities of a Qualified Coordinator as set out in the *OH&S Regulation*;
- (k) provide the following information, in an always updated form, in a readily available location at the Project;
 - (i) *the name of any Qualified Coordinator appointed to the Project;*
 - (ii) *a site drawing, which must be posted, showing project layout, first aid location, emergency transportation provisions, and the evacuation marshalling station; and*
 - (iii) *a set of construction procedures designed to protect the health and safety of workers at the Project, developed in accordance with the requirements of the OH&S Regulation;*
- (l) immediately notify the City of the identity of any Qualified Coordinator appointed by the Contractor at the Project, from time to time.

4. HAZARDOUS MATERIALS

- 4.1 If during demolition or construction work on the Project the Contractor discovers or has reason to believe that there are hazardous materials at the Project that were not set out in any Hazardous Materials Report, the Contractor will;
 - (a) immediately notify the Project Manager;
 - (b) take all reasonably appropriate measures to ensure the safety of workers at the Project; and
 - (c) take all reasonably appropriate measures to ensure the safety of the general public.

- 4.2 Upon notification by the Contractor of additional hazardous materials or suspected hazardous materials at the Project not set out in any Hazardous Materials Report, the

City, in accordance with the *OH&S Regulation*, will obtain an updated Hazardous Materials Report, and will share such updated report with the Contractor. If the scope of work of the Project is changed as a result of the updated Hazardous Materials Report, the Project Manager will meet with the Contractor to discuss how the Project may be completed in a safe and cost effective manner.

5. GENERAL

- 5.1 In the event of a conflict between the Agreement and the *Workers Compensation Act* or the *OH&S Regulation*, the legislative requirement(s) will apply.
- 5.2 If any part of this schedule is held to be unenforceable by a court or tribunal of competent jurisdiction, that part shall be severed and the remaining parts of this schedule shall remain in full force and effect.
- 5.3 If the Contractor violates any of the requirements of this schedule or of the *Workers Compensation Act* or the *OH&S Regulation*, the City may treat such violation as a breach of the Agreement resulting in possible termination or suspension of the Agreement and/or any other actions deemed appropriate at the discretion of the City.
- 5.4 No failure or delay by either party to this schedule in exercising any power, right or privilege provided in this schedule will operate as a waiver, nor will any single or partial exercise of such rights, powers or privileges preclude any further exercise of them or the exercise of any other right, power or privilege provided in this schedule.
- 5.5 This schedule may be terminated in accordance with the terms of the Agreement.

SUPPLEMENTARY GENERAL CONDITIONS

- Supplementary General Conditions

SUPPLEMENTARY GENERAL CONDITIONS

TABLE OF CONTENTS		Page
1	DEFINITIONS	2
4	CONTRACTOR	2
	4.1 Control of Work	2
	4.3 Protection of Work, Property and the Public	2
	4.6 Construction Schedule	5
	4.16 Notice of Disruption	5
	4.17 Survey Layout and As-Constructed Information	5
	4.18 City Industrial Health and Safety Program	6
9	VALUATION OF CHANGES AND EXTRA WORK	6
	9.2.1 Valuation Method	6
	9.4 Quantity Variations	6
11	CONCEALED OR UNKNOWN CONDITIONS	6
	11.1 Definition	6
13	DELAYS	7
	13.1 Delay by Owner or Contract Administrator	7
	13.4 Unforeseeable Market Conditions	7
18	PAYMENT	7
	18.2 Supporting Documentation	7
	18.6 Substantial Performance	7
21	WORKERS COMPENSATION REGULATIONS	7
	21.2 Contractor is "Prime Contractor"	7
24	INSURANCE	6
	24.1 Required Insurance	8
25	MAINTENANCE PERIOD	8
	25.1 Correction of Defects	8
	25.2 Commencement of Maintenance Period	8

SUPPLEMENTARY GENERAL CONDITIONS

(TO BE READ WITH "GENERAL CONDITIONS" CONTAINED IN THE PLATINUM EDITION OF THE PUBLICATION "MASTER MUNICIPAL CONSTRUCTION DOCUMENTS" SPECIFIED IN "INSTRUCTIONS TO TENDERERS" IT - 2.2)

DEFINITIONS

1

- 1.79 **“(amend clause X.XX as follows)”** preceding a supplementary clause means this clause modifies or provides additional information or restrictions to the referenced clause in the Master Municipal Construction Documents Platinum Edition, Volume II.
- 1.80 **“(add new clause X.XX as follows)”** preceding a supplementary clause means this clause provides additional requirements or information not found in the Master Municipal Construction Documents Platinum Edition, Volume II.
- 1.81 **“(delete clause X.XX and replace as follows)”** preceding a supplementary clause means this clause replaces the referenced clause in the Master Municipal Construction Documents Platinum Edition, Volume II in its entirety.
- 1.82 **“Commencement Date”** is the date specified by the Tenderer in Appendix 2 to the Form of Tender in which the *Contractor* will commence the *Work* in order to meet the *Substantial Performance* date.

CONTRACTOR

4

Control of Work

4.1

4.1.3 (add clause 4.1.3 as follows)

The *Contractor* shall take precautions to reduce nuisance caused from mud or dust by clean-up, sweeping, sprinkling with water or other means as necessary to accomplish results satisfactory to the *Contract Administrator*. If the *Contractor* fails to maintain the site tidy or refuses to remove waste and debris as directed by the *Contract Administrator*, the *Owner*, at its own discretion, may proceed to clean the site, remove waste and debris from site, and deduct from any payment due the *Contractor* the cost of such cleaning or removing materials.

Protection of Work, Property and the Public

4.3

4.3.1 (Delete the following from the last sentence of G.C.4.3.1 as follows)

... except for damage, which, in the Performance of the *Work*, the *Contractor* could not reasonably avoid.

4.3.4 (amend clause 4.3.4 as follows)

(1) expose and determine conclusively the location in the field all underground utilities and structures whether or not indicated on the *Contract Documents* as being at the *Place of the Work*. The *Contractor* shall also be responsible to consult with all utility corporations that provide electricity, communication, gas or other utility services in the area of the *Place of the Work*, to locate in three dimensions all

underground utilities for which they have records. The *Contractor* shall also locate in three dimensions any other utilities or underground structures that are reasonably apparent in an inspection of the *Place of the Work*. The *Contractor* shall provide Fortis BC with three weeks' notice for relocation of any gas mains or services if it is required when crossing the gas lines.

(2) The *Contractor* shall contact BC One Call at least forty eight (48) hours prior to excavating to advise of the *Work*.

4.3.6 (*Delete 4.3.6 entirely*)

4.3.7 (*add new clause 4.3.7 as follows*)

The *Contractor* shall locate, mark, and protect from damage or disturbance, any and all stakes, survey pins, monuments and markers at the *Place of the Work*. All survey stakes, survey pins, monuments, or markers that are damaged or disturbed shall be made good following construction by a registered B.C. Land Surveyor. Such repairs shall become part of the *Work* and shall be at the *Contractor's* expense.

4.3.8 (*add new clause 4.3.8 as follows*)

Contractor to submit, fourteen (14) calendar days prior to the start of construction, a Traffic Management Plan (TMP) provided by a qualified traffic management company, and prepared in accordance with the "Traffic Control Manual for Work in Roadways". Road closures will not be allowed without prior approval from the City of New Westminster. The cost of the TMP will be incidental to payment of work described in other sections.

The *Contractor* shall ensure that single lane traffic movement is available in each direction at all times and shall minimize impact to on-street parking and pedestrian access to commercial and residential properties during working hours.

The *Contractor* shall carry out the work such that access to commercial and residential properties is maintained at all times. The *Contractor* shall provide a minimum one week advance written notice to all property owners prior to construction, and shall also provide a minimum two (2) working days' notice to individual property owners prior to commencing work affecting individual property access.

The *Contractor* shall give due notice to local police and fire department prior to beginning construction and shall comply in all respects with their requirements.

The *Contractor* shall comply with the requirements of the appropriate authority concerned with closure of streets or

highways and shall post proper notices and/or signals, and provide necessary barriers, guards, lights, flagmen or watchmen as may be necessary for proper maintenance of traffic and protection of persons and property from injury or damage. All costs involved in respect of the above requirements will be deemed to be included in the *Contract Price*.

Where existing streets or roads are not available as detours, all traffic shall be permitted to pass through the *Work* with as little inconvenience and delay as possible unless otherwise provided or authorized. If half the street only is under improvement, the other half shall be conditioned and maintained as detour.

Where construction is to be carried out on highways or properties other than those of the *Owner* it shall be the responsibility of the *Contractor* to familiarize himself with the requirements of the owners or controllers of these properties which pertain to traffic safety or control of the construction operation and to carry out his work in accordance with these requirements.

4.3.9 (add new clause 4.3.9 as follows)

Ensure houses with walkways or driveways impacted by the MUP construction receive re&re works adjacent to their homes in a timely and orderly manner. Areas should not be left unfinished for homeowners fronting onto the MUP. Hydroseed to be used on any lawn re&re work. Ensure growing medium placement, sod/seed and all re&re works are completed immediately following MUP paving, such that completed blocks or sections of the project may be open to residents without entry or egress safety concerns, or risk of weed and invasive establishment on untended soils.

4.3.10 (add new clause 4.3.10 as follows)

Report scheduled efforts for road "blocks" of construction and temporary parking removal, such that the City of New Westminster may be able to respond to resident questions about construction scheduling immediately.

4.3.11 (add new clause 4.3.11 as follows)

Provide ten (10) Days advanced notice of timing of construction activities that may generate resident concern or complaint, including but not limited to:

- a) Tree removal
- b) Periods of heavy equipment noise or vibration
- c) Periods of asphalt or similar material installation that could generate noxious smells

Ensure that dust or particulate matter generated close to residences is cleaned up expeditiously to avoid resident concern/complaint.

4.3.12 (add new clause 4.3.12 as follows)

Existing shrub material potentially impacted by MUP construction to be flagged with *Contract Administrator* for fence protection and retention, or removal. Walkabout with *Contractor*, *Owner*, surveyor, and *Contract Administrator* required at time of start up to confirm conditions.

Construction Schedule

4.6

4.6.8 (add new clause 4.6.8 as follows)

The *Contractor* may carry out the *Work* between 0700 h and 2000 h inclusive, Monday to Friday. The *Contractor* shall schedule their *Work* within these hours and will not be permitted to commence *Work* earlier than 0700 h and/or work later than 2000 h, except as authorized by the *Contract Administrator*.

4.6.9 (add new clause 4.6.9 as follows)

The *Contractor* shall not schedule work that will require inspection beyond an eight-hour day without the *Contract Administrator's* prior approval. Any extra cost incurred by the *Owner* for work done outside of normal office hours may be deducted from the *Contractor's* monthly payments.

4.6.10 (add new clause 4.6.10 as follows)

On the infrequent occasion that the *Contractor* finds it necessary to work on Saturday, Sunday or Statutory Holiday, the *Contractor* shall obtain the *Contract Administrator's* approval forty-eight (48) hours in advance. Work on Sundays or Statutory Holidays will also require the City's approval, with a minimum two weeks' notice. The *Contractor* shall also be charged a working day and may be charged the overtime inspection costs incurred by the *Owner*. Such costs shall be deducted from monthly progress payments.

Notice of Disruption

4.16

4.16.2 (add new clause 4.16.2 as follows)

Written notice shall be provided to all properties that may be physically affected by the construction not less than one week and not more than two weeks prior to construction. Cost of notifying area occupants of ensuing construction and delivery of the notices is incidental to the Contract. Cost of obtaining releases from area occupants affected by construction is incidental to the Contract.

Survey Layout and As-Constructed Information

4.17

4.17.1 (add new clause 4.17.1 as follows)

The *Contractor* is responsible for all survey required for construction layout and for record drawings associated with this Contract. The *Contractor* shall be responsible for

recording of all field survey information pertaining to the as-constructed drawings. The *Contractor* shall provide, at no charge, a completed set of legible, marked-up as-constructed prints to the *Contract Administrator* on completion of the *Work*. The *Contractor* shall provide any additional information as requested to enable the *Contract Administrator* to prepare and submit as-constructed record drawings to the Municipality or the *Owner* for their records.

City Industrial Health and Safety Program 4.18

4.18.1 (*add new clause 4.18.1 as follows*)

4.18.1 All *Contractors* working for the City of New Westminster are required to be aware of the City's Industrial Health and Safety Program. It is the *Contractor's* responsibility to perform the job in compliance with the City's safety standards. The *Contractor* is responsible for the compliance of all employees for whom he is primarily responsible, with all WorkSafeBC Industrial Health and Safety Regulations, as well as all other applicable Regulations.

VALUATION OF CHANGES AND EXTRA WORK 9

Valuation Method 9.2.1

9.2.1.1 (*add to clause*)

; subject to final approval of available funding by the *Owner*.

Quantity Variations 9.4

9.4.1 (*delete clause 9.4.1 and replace as follows*)

The *Contractor* shall hold firm all unit prices submitted in the *Schedule of Quantities and Prices* regardless of the increase or decrease in quantities.

CONCEALED OR UNKNOWN CONDITIONS 11

Definition 11.1

11.1.1 (*delete 11.1.1 and substitute with the following*)

A "Concealed or Unknown Conditions" is Hazardous Materials not disclosed in the *Contract Documents*.

11.1.2 (*add the clause 11.1.2 as follows*)

The *Contractor* bears the risk and liability for locating utilities. The *Contractor* acknowledges that it has not relied on accuracy of any information provided by the *Owner* in evaluating these risks. The *Contractor* acknowledges that it has full responsibility for locating utilities and has conducted its own investigation and has made allowance in the *Contract Price* for these risks.

DELAYS	13	
Delay by Owner or Contract Administrator	13.1.1	13.1.1 (<i>add to clause</i>) The <i>Owner</i> or <i>Contract Administrator</i> will not be liable for claims of delay caused by BC Hydro, TELUS, Fortis BC, Metro Vancouver, telecommunication companies, <i>Owner's</i> forces, or other utility corporations arising out of or connected to the <i>Work</i> .
Unforeseeable Market Conditions	13.4.1	Delete 13.4.1 entirely
PAYMENT	18	
Supporting Documentation	18.2.2	18.2.2 (<i>amend clause 18.2.2 as follows</i>) If requested in writing by the <i>Owner</i> , the <i>Contractor</i> shall, as a precondition to the issuance of the <i>Payment Certificate</i> , provide a sworn declaration in the form of a signed and properly sealed CCDC 9A-2001 Statutory Declaration to the <i>Contract Administrator</i> that all amounts relating to the <i>Work</i> , due and owing as of the end of the month covered by the <i>Payment Certificate</i> to third parties including all subcontractors and suppliers, have been paid.
	18.2.3	18.2.3 (<i>add clause 18.2.3 as follows</i>) The <i>Owner</i> retains the right to obtain proof of payment, in the form of a signed and properly sealed CCDC 9A-2001 Statutory Declaration, of all sub-trades and material suppliers from the <i>Contractor</i> prior to making final payment.
Substantial Performance	18.6	18.6.7 (<i>add clause 18.6.7 as follows</i>) The <i>Contractor</i> shall provide establishment maintenance and watering, complete to the <i>Total Performance</i> of the project. 18.6.8 (<i>add clause 18.6.8 as follows</i>) Substantial acceptance of grass areas (including sod and seed) are required to comply with Canadian Landscape Standards. A minimum 2 cuts mowing per the standards is a condition of acceptance. Additional mowing to be provided as needed (when exceeding a 8 cm height) until the time of substantial acceptance, and through to <i>Total Performance</i> of the project.
WORKERS COMPENSATION REGULATIONS	21	
Contractor is "Prime Contractor"	21.2.1	Delete "Substantial Performance" and Replace with "Total Performance"

INSURANCE 24
Required Insurance 24.1

24.1 *(amend 24.1 as follows)*

24.1.1 (1) Limits: \$5,000,000 inclusive per occurrence for bodily injury, death, and damage to property.

24.1.1(2) *(add to 24.1.1(2) as follows)*

The following shall be named as additional insured on the Contract:

- Corporation of the City of New Westminster
-
(Full name of Contract Administrator)
-
(Full name of Contract Administrator sub consultant)
-
(Full name of Contract Administrator sub consultant)

24.1.7 *(add new 24.1.7 as follows)*

Should the *Contractor* neglect to obtain and/or maintain insurance as aforesaid, or deliver such policy or policies to the *Owner*, then the *Owner* shall obtain and/or maintain such insurance and the *Contractor* hereby appoints the *Owner* its true and lawful attorney to do all things necessary for this purpose. All monies expended by the *Owner* for Insurance premiums under the provisions of this clause shall be charged to the *Contractor*.

MAINTENANCE PERIOD 25
Correction of Defects 25.1

25.1.4 *(add clause 25.1.4 as follows)*

The *Owner* is authorized to make repairs to defects or deficiencies if, ten days after giving written notice, the *Contractor* has failed to make or undertake with due diligence the required repairs. However, in the case of emergency where, in the opinion of the *Owner*, delay is not reasonable, repairs may be made without notice being sent to the *Contractor*. All expenses incurred by the *Owner* in connection with repairs made pursuant to GC 25 shall be paid by the *Contractor* and may be deducted from the Maintenance Security, or other holdbacks. The *Contractor* shall promptly pay any shortfall.

Commencement of 25.2
Maintenance Period

25.2.2 *(amend clause 25.2.2 as follows)*

All warranties under this *Contract* commence from the date of *Substantial Performance* of the *Contract*, regardless of whether any *Subcontractor* achieves *Substantial Performance* of its Subcontract prior to *Substantial Performance* of the *Contract*.

SUPPLEMENTARY SPECIFICATIONS

- Supplementary Specifications

SUPPLEMENTARY SPECIFICATIONS

City of New Westminster Supplementary Specifications and Detail Drawings can be obtained [here](#).

TABLE OF CONTENTS		PAGE
DIVISION 1 – GENERAL REQUIREMENTS		
01 20 01	Project Record Documents	SSPEC Page 2
01 54 00S	General Requirements	SSPEC Page 2-14
01 55 00	Traffic Control, Vehicle Access and Parking	SSPEC Page 15
01 57 01	Environmental Protection	SSPEC Page 15-17
DIVISION 3 – CONCRETE		
03 30 53	Cast-In-Place Concrete	SSPEC Page 17
03 40 01	Precast Concrete	SSPEC Page 18
DIVISION 12 – FURNISHINGS		
12 93 00	Site Furnishings	SSPEC Page 18-19
DIVISION 26 – ROADWAY LIGHTING		
26 56 01	Roadway Lighting	SSPEC Page 19
DIVISION 31 – EARTHWORKS		
31 11 01	Clearing and Grubbing	SSPEC Page 20
31 23 01	Excavation, Trenching and Backfilling	SSPEC Page 21
31 23 01.1S	Contaminated Material Management	SSPEC Page 21-23
31 23 01.2S	Preloading and Geotechnical Instrumentation	SSPEC Page 23-25
31 24 13	Roadway Excavation, Embankment and Compaction	SSPEC Page 25-28
31 32 19	Geosynthetics	SSPEC Page 28
31 37 10	Riprap	SSPEC Page 28
DIVISION 32 – ROADS AND SITE IMPROVEMENTS		
32 01 16.7	Cold Milling	SSPEC Page 28
32 01 16.8	Full Depth Reclamation	SSPEC Page 29-31
32 12 16	Hot-Mix Asphalt Concrete Paving	SSPEC Page 31
32 17 23	Painted Pavement Markings	SSPEC Page 31
32 31 13	Chain Link Fences and Gates	SSPEC Page 32
321 91 13.23	Structural Soil	SSPEC Page 32
32 93 01	Planting of Trees, Shrubs and Ground Covers	SSPEC Page 32-33
32 94 01	Irrigation System	SSPEC Page 33
DIVISION 33 – UTILITIES		
33 11 01	Waterworks	SSPEC Page 33-34
33 34 01	Sewage Forcemains	SSPEC Page 34-35
33 44 01	Manholes and Catchbasins	SSPEC Page 35-37
33 42 13	Pipe Culverts	SSPEC Page 37-38

SUPPLEMENTARY SPECIFICATIONS

Section	Sub-Section	Title	Supplementary Specification
01 20 01 Project Record Documents	1.7	Recording Actual Site Conditions	<p data-bbox="873 260 1377 300">1.7.5 (<i>add new clause 1.7.5 as follows</i>)</p> <p data-bbox="873 338 1419 590">The Contractor will keep one set of drawings on-site that will be marked up in red ink identifying all work completed and any changes made during the construction. This copy will be turned over to the Contract Administrator within 5 days of completion of all works.</p> <p data-bbox="873 632 1419 772">The Contractor shall be responsible for the detailed setting out of the work and recording all data required to compile record drawings.</p> <p data-bbox="873 814 1409 955">Payment for recording data for record drawings shall be considered incidental to the work performed and no additional payment will be made to the contractor.</p>
01 54 00S General Requirements <i>(add new section 01 54 00S as follows)</i>	1.0	Master Municipal Construction Documents	<p data-bbox="873 1035 948 1066">1.0.1:</p> <p data-bbox="873 1108 1370 1394">The Supplementary Specifications contained herein must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II (Platinum Edition 2009) as identified in the Instructions to Bidders Item 24.</p>
	2.0	Format and Numbering System	<p data-bbox="873 1436 948 1467">2.0.1:</p> <p data-bbox="873 1509 1425 1761">The Supplementary Contract Specifications follow the same format and numbering system as the Master Municipal Specifications. Supplemental sections are differentiated from MMCD by having the letter “S” placed after the section, sub-section, or clause number.</p>
	3.0	Construction Survey Layout	<p data-bbox="873 1795 948 1827">3.0.1:</p> <p data-bbox="873 1869 1419 1942">The Contract Administrator will provide survey control CAD files for this Contract.</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>The Contractor shall be responsible for the detailed setting out of the work and recording all data required to compile record drawings. The Contractor will be responsible for the detailed survey of the site to execute construction. A preliminary site plan has been provided as a guide only.</p> <p>3.0.2:</p> <p>Payment for survey layout shall be considered incidental to the work performed and no additional payment will be made to the contractor.</p> <p>3.0.3:</p> <p>All monuments, iron pins, iron plugs, and wooden witness posts, disturbed by the Contractor shall be re-established by Registered British Columbia Land Surveyors, at the Contractor's cost, and the appropriate authorities advised of the revised elevation and coordinates. Contractors are advised that the Contract Administrator will monitor construction to ensure that disturbed pins are replaced at the Contractor's expense prior to completion of the Contract.</p>
	4.0	Safety - Work Near Overhead and Underground Power Lines or Other Utilities	<p>4.0.1:</p> <p>All works shall be in strict compliance with WorkSafe BC Industrial and Safety Regulations Section 24 when working near or under any overhead power lines.</p> <p>The Contractor must be fully aware of the danger to workers and shall take all necessary safety precautions when working near to existing utilities, such as high-pressure gas, water line, and electrical lines.</p>
	5.0	Materials Testing	<p>5.0.1:</p> <p>The Contractor will perform Quality Control (QC) testing to ensure that the</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>requirements of the Contract are being met.</p> <p>A compaction testing plan shall be submitted by the Contractor to the Contract Administrator for review prior to construction. All results from compaction testing shall be provided to the Contract Administrator. All QC testing, including re-tests will be paid for by the Contractor.</p> <p>Further materials and density Quality Assurance (QA) testing may be carried out as directed by the Contract Administrator. Initial QA testing carried out at the Contract Administrator's direction will be paid for by the Owner. Where initial tests fail and subsequent QA testing is deemed necessary by the Contract Administrator, the cost of the subsequent testing shall be the responsibility of the Contractor.</p>
	6.0	Interfering Services	<p>6.0.1:</p> <p>The Contractor, at their own expense, shall provide for the uninterrupted flow of all watercourses, sewers, drains, and any other utility encountered during the work.</p> <p>6.0.2:</p> <p>When other utility structures are encountered, the Contractor shall support them to the satisfaction of the Contract Administrator so as to protect them from damage. The Contractor shall, at his own expense, at once repair and make good any damage which may occur to any watermains, service or utility pipes, or facilities, or to any electrical conductor or telephone facility or to any sidewalk, crosswalk as a result of this operation.</p> <p>6.0.3:</p> <p>It is the Contractor's responsibility wherever necessary to determine location of existing pipes, valves, or other underground structures. Wherever it is</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>necessary to explore and excavate to determine the location of the existing underground structures, the Contractor at his own expense regardless of method utilized (including hydrovac) shall make explorations and excavations for such purposes.</p> <p>6.0.4:</p> <p>Where gas mains and/or service lines exist in the vicinity of the proposed work, the Contractor shall consult the officers of the gas company prior to commencing operations and arrange for a mutually agreeable procedure for their protection.</p> <p>6.0.5:</p> <p>When existing poles conflict with the proposed works, the Contractor shall consult B.C. Hydro and TELUS prior to commencing operations and advise the Contract Administrator with the works to be undertaken.</p> <p>Costs associated with guy wire and pole holding / support are incidental to the work.</p>
	7.0	Coordination with Other Contractors/Construction Staging	<p>7.0.1:</p> <p>The Contractor will be responsible for all coordination with Metro Vancouver, BC Hydro, FortisBC and other utility providers.</p>
	8.0	Environmental Protection and Construction Impact Mitigation Plan	<p>8.0.1:</p> <p>The Contractor is advised that he is responsible for all necessary measures required to prevent the transportation of any silt or other deleterious material from the site into any fish bearing watercourses or their tributaries. All requirements of the Ministry of Forest, Lands, and Natural Resource Operations (MFLNRO) and Fisheries & Oceans Canada (DFO), with</p>

Section	Sub-Section	Title	Supplementary Specification
---------	-------------	-------	-----------------------------

respect to air, earth, and water pollution, must be strictly adhered to.

ISL Engineering and Land Services Ltd. (ISL) has prepared the following Construction Impact Mitigation Plan (CMP) for the twin culvert replacements at Ewen Avenue and Boundary Road.

The Contractor and subcontractor(s) **must adhere to items outlined in the CMP and all approvals or authorizations issued by environmental regulatory agencies.**

Should mitigative measures for the protection of fish habitat within approvals differ from those specified in this CMP, then the conditions and measures specified in approval documents will take precedence. The contractor will at all times undertake work in a manner that it does not contravene federal or provincial law.

The following paragraphs outline the minimum mandatory, mitigative measures and Best Management Practices (BMP's) for addressing construction related impacts. It will be the responsibility of the contractors awarded the works to ensure Best Management Practices (BMP's) are in place prior to and during construction to prevent erosion and the transport of sediment into adjacent watercourses during construction activities and to prevent transport of soils onto roads. The contractor must be familiar with erosion and sediment control BMP's.

Bidding contractors **must cost the job in a manner that fully accounts for deploying the required erosion and sediment control BMP's.** Should the construction contractors bidding this job, require clarification regarding the erosion and sediment control provisions that are required, prior to issuing a response to tender, they should request clarification.

Section	Sub-Section	Title	Supplementary Specification
			<p>ISL will provide a fish salvage crew for this project. The contractor will notify ISL a minimum of 5 Days before construction start-up so that fish salvage efforts can be coordinated with the contractor.</p> <p>ISL will provide an Environmental Monitor (EM) for the project.</p> <p>1. Environmental Monitoring and Scheduling</p> <p>There is potential riparian and instream fish habitat located at the instream work sites.</p> <p>A qualified, independent environmental professional (QEP) will act as Environmental Monitor (EM) for the project.</p> <p>The EM will provide monitoring of environmentally sensitive construction works to ensure works proceed as outlined in this CMP or notifications from MFLNRO.</p> <p>The EM will also monitor the implementation and effectiveness of erosion and sediment control measures deployed by the contractor. Prior to any work on the site, an onsite pre-construction meeting will be held amongst the EM, contract administrator, and contractor to ensure an understanding of the mitigative best practices for the project.</p> <p>The EM will be notified a minimum of 5 Days prior to the start of the ground disturbing activities.</p> <p>The EM will require that the site supervisor and/or contractors have onsite all documentation regarding environmental mitigation and environmental approvals (i.e. this CMP must be kept onsite with any environmental approvals issued for the project).</p>

Section	Sub-Section	Title	Supplementary Specification
---------	-------------	-------	-----------------------------

The EM will forward inspection memoranda to the site supervisor and the Design Engineer. These will be copied to the appropriate Owner representative and will indicate whether work is compliant with the CMP, regulatory approvals and Owner environmental bylaws.

At the completion of this project, the EM will complete and submit a copy of a post construction report consistent with the recommended standard format to the contractor, ISL, DFO, MFLNRO and the Owner. The report will document that construction has been completed and will document any difficulties encountered during the project.

Work will be scheduled before the end of the instream fisheries work window as specified in the Instructions to Tenderers.

2. Mitigative Items Pertaining to Compliance with Regulatory Approvals and the CMP

Regulatory permits, approvals, or notifications from DFO, MoE, and/or Transport Canada (collectively referred to as environmental regulatory agencies [ERAs]) have been applied for and are anticipated.

In the event that formal approvals are not required from the ERA's then this CMP will provide the basis for compliance monitoring.

Work must be undertaken in a manner that meets the requirements of environmental regulatory approvals and this CMP.

The EM will not consider the project to be complete and in compliance with best practices for mitigating the works if there are any outstanding proposed mitigative measures.

Section	Sub-Section	Title	Supplementary Specification
			<p>If the proposed works are not conducted in a manner compliant with this CMP or the environmental regulatory approvals, then the EM is required to inform the Design Engineer, the Owner and environmental regulators.</p>
			<p>The Owner will grant the EM the written authority to shut down the works in the event of non-compliance with regulatory approvals and/or this CMP. Works may remain shut down until such time as the compliance issue has been addressed.</p>
			<p>If the EM is required to shut down the works due to non-compliance with regulatory approvals or/ this CMP by the prime contractor or subcontractors, then the costs to the prime contractor associated with that shutdown are the sole responsibility of the prime contractor.</p>
			<p>3. Mitigative Items Pertaining to Riparian Disturbance</p>
			<p>Disturbance to riparian areas will be minimized by using the existing roadway for staging and stockpiling constructing materials.</p>
			<p>The removal of grass vegetation within the construction footprint is required in order to meet operational and/or safety concerns for the crossing structure and the approaches. This removal is to be kept to a minimum.</p>
			<p>4. Mitigative Items Pertaining to Erosion and Sediment Control (ESC)</p>
			<p>Effective sediment and erosion control measures are to be installed before starting work to prevent the entry of sediment into the watercourse.</p>
			<p>Prior to commencement of the works the contractor must obtain sufficient quantities</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>of silt fence, straw bales, grass seed mix, sandbags, erosion control blanketing, mulch etc. necessary to stabilize disturbed ground. These materials must be onsite, available for inspection and installation prior to the commencement of any ground disturbance.</p> <p>Necessary repairs will be made by the contractor immediately if any damage occurs such that erosion and sediment control measures are compromised.</p> <p>Current DFO guidelines for discharge of sediment, sediment-laden water, and turbid water are as follows:</p> <p>Suspended solids should not exceed 25 milligrams per litre (mg/L); and</p> <p>Turbidity should not exceed 25 nephelometric turbidity units (NTU).</p> <p>The chance of preventing sediment transport to fish habitat, and staying within the current DFO water quality guidelines is virtually zero, unless good erosion control is adopted on the site.</p> <p>It is much easier, and ultimately cheaper, to prevent erosion than it is to try and get suspended sediment out of water. It is much cheaper in the long run to adopt and maintain good erosion control so that the requirements for sediment control are reduced or eliminated.</p> <p>The site is surrounded on all sides by water. There are limited locations nearby the site to which sediment laden water can be discharged for infiltration to ground. Contractors are fully responsible for developing a plan to discharge trash pump water to adjacent lands with landowners permission or within Owner right of way in the absence of permission before discharge to the existing ditch system.</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>For erosion and sediment control to be effective, the following important erosion and sediment control measures will meet or exceed the standards outlined in the Ministry of Water Land and Air Protection “Best Practices For Urban and Rural Development” and the DFO “Land Development Guidelines for the protection of Aquatic Habitat”.</p> <p>All works will be conducted in a manner that will prevent the release of sediment or sediment laden waters to watercourses, ditches, storm sewers, and swales draining to fish habitat.</p> <p>All efforts will be made to leave undisturbed native vegetation where possible.</p> <p>All disturbed slopes, watercourse banks, and ground surfaces that may contribute sediment-laden water into sensitive fish habitats during precipitation events must be stabilized through application of organic (i.e. straw) or inorganic (i.e. plastic) mulches over the course of the project.</p> <p>Work will be pursued to completion as quickly as possible once started.</p> <p>Disturbed areas are to be revegetated with an appropriate grass seed mix and the covered with mulch or straw to prevent erosion and to help seeds germinate.</p> <p>Effective sediment and erosion control measures are to be maintained until revegetation of disturbed areas is achieved.</p> <p>All work which involves heavy machinery that is disturbing earth material must be suspended during substantial rainfall (substantial rainfall will be determined by the EM after a review of weather conditions and existing ground saturation). No debris is to remain below the high water mark or placed into the stream.</p>

Section	Sub-Section	Title	Supplementary Specification
---------	-------------	-------	-----------------------------

Any debris removed from the work site are to be stabilized to prevent them from entering the watercourse (i.e. covering spoil piles with secured tarps).

5. Mitigative Items Pertaining to Operation of Machinery

Machinery shall be operated on land (above the high water mark) and in a manner that minimizes disturbances to the banks of the watercourse.

Banks are to be restored to their original or better condition if any disturbance occurs.

Silt fence will be established on slopes subject to machine disturbance that have transport potential to fish habitat.

Machinery is to arrive on site in a clean condition and is to be maintained free of fluid leaks.

An emergency spill kit (including booms) must be kept onsite in case of fluid leaks or spills from machinery.

6. Items Pertaining to Fuel and Spill Mitigation

Oil, grease, or any other substance deleterious to aquatic life will be prevented from entering into any watercourse, ditch, or storm sewer.

Each machine working within 15 m of fish habitat will have on board a spill containment kit.

If the work site is surrounded by water on all sides, all machine refuelling will be permitted only under direct observation of the EM.

Appropriate measures must be taken to prevent fuels, lubricants, or construction wastes, from entering watercourses.

Section	Sub-Section	Title	Supplementary Specification
			<p>Secondary containment will be required for all fuel tanks and gasoline or diesel powered pumps.</p> <p>Operators will be held responsible to ensure that oil, grease or other deleterious substances do not enter any environmentally sensitive areas. Emergency clean up equipment will be kept on site in case of a spill or leak.</p> <p>Any spill of a substance toxic to aquatic life of reportable quantities will be immediately reported to the Provincial Emergency Program 24 hour phone line at 1-800-663-3456.</p> <p>7. Mitigative Items Pertaining to the Management of Concrete or Grout</p> <p>Pre-cast concrete material that is cured and dried will be used to prevent deleterious substances from entering the watercourse.</p> <p>Concrete or grout work will be fully contained to prevent entry of concrete leachate or grouts to nearby watercourses.</p> <p>A CO2 tank with hose and sparge valve will be kept onsite and readied for immediate deployment if an accidental release of concrete to fish habitat occurs.</p>
	9.0	Weigh Ticket Control	<p>9.0.1:</p> <p>Items in the Schedule of Quantities and Prices measured by weight will be paid for as stipulated in the appropriate section of the Specific Provisions or the Specifications of the Contract. In addition, the Contractor will adhere to the below conditions.</p> <p>If the Contractor fails to meet any of these conditions, then the Contract Administrator shall have the right to refuse approval of weigh tickets presented.</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>9.0.1.1:</p> <p>Payment will be made only for material completely incorporated into the works as witnessed by the Contract Administrator's representative.</p> <p>9.0.1.2:</p> <p>Weigh tickets shall be received by the Contract Administrator's representative immediately prior to the placement of the material in the works.</p> <p>9.0.1.3:</p> <p>The Contractor is to arrange for material supply in such a manner that weigh tickets can be collected and verified at specific locations on the project as arranged with and approved by the Contract Administrator.</p> <p>9.0.1.4:</p> <p>The Contract Administrator shall have the right to refuse approval of tickets received after the day of placement.</p>
	10.0	Disposal Site	<p>10.0.1:</p> <p>The Contractor is responsible for the provision of all off-site disposal sites for materials that are to be removed from the construction sites in this Contract.</p> <p>The Contractor is responsible for all fees, permits, and costs associated with the off-site disposal of materials.</p>
	11.0	Allowances	<p>11.0.1:</p> <p>Allowances shall only be used if elected by the Owner and if approved through a Change Order.</p>

Section	Sub-Section	Title	Supplementary Specification
01 55 00 Traffic Control, Vehicle Access and Parking	1.0	General	<p>1.0.3 (<i>delete clause 1.0.3 and replace as follows</i>)</p> <p>Unless alternative arrangements satisfactory to those adversely affected have been made by the Contractor, pedestrian and vehicular access to affected properties shall be maintained at all times.</p>
	1.5	Payment	<p>1.5.2 (<i>add new clause 1.5.2 as follows</i>)</p> <p>All plans and permits required to meet the traffic control requirements will be incidental to the Contract.</p>
01 57 01 Environmental Protection	1.2	Temporary Erosion and Sediment Controls	<p>1.2.1.1 (<i>delete clause 1.0.3 and replace as follows</i>)</p> <p>Drainage, Erosion and Sediment Control</p> <p>Properly drain all portions of the site. Protect the site and the watercourses to which it drains, directly or indirectly, against erosion and siltation during construction and until the maintenance period is completed. Ensure no silt, gravel, debris or other deleterious substance resulting from construction activity discharges into existing drainage systems or watercourses or onto highways or adjacent property. The Contractor is responsible for all damage that may be caused by water backing up or flowing over, through, from, or along any part of the work or otherwise resulting from his operations.</p> <p>Keep existing culverts, drains, ditches, and watercourses affected by the work clear of excavated material at all times. When it is necessary to remove or alter an existing drainage structure, provide suitable alternative measures for handling the drainage. Adequately support culverts and drainpipes across trenches to prevent displacement and interference with the proper flow of water due to trench</p>

Section	Sub-Section	Title	Supplementary Specification
			settlement.
			Sweep streets, and clean catch basins, manhole sumps, detention tanks, and maintain siltation controls as often as the Contract Administrator deems necessary.
			Follow all Federal and Provincial regulations and guidelines respecting protection of fish, fish habitat, and watercourses.
	1.4	Environmental Protection	<p>1.4.3.5 (<i>add new clause 1.4.3.5 as follows</i>)</p> <p>Immediately contain and clean up any leaks and spills of prohibited materials on the job site.</p> <p>1.4.3.6 (<i>add new clause 1.4.3.6 as follows</i>)</p> <p>Ensure that a well-stocked spill kit is on-site at all times and that the Contractor's employees are familiar with appropriate spill response techniques.</p> <p>1.4.3.7 (<i>add new clause 1.4.3.7 as follows</i>)</p> <p>Immediately notify the Contract Administrator and the Owner of any leaks or spills of prohibited materials that occur on the job site.</p> <p>1.4.3.8 (<i>add new clause 1.4.3.8 as follows</i>)</p> <p>Ensure that any fuel stored on-site is located at least 15 metres from the nearest stream, and is placed within a bermed and lined area, in order to prevent leaks or spills into the environment</p> <p>1.4.3.9 (<i>add new clause 1.4.3.9 as follows</i>)</p> <p>Ensure that no equipment fuelling or servicing is conducted within 15 metres of a stream.</p>

Section	Sub-Section	Title	Supplementary Specification
	1.5	Measurement and Payment	<p>1.6.2 (<i>add new clause 1.6.2 as follows</i>)</p> <p>Payment for all work related to Environmental Protection, as set out in the Contract Documents will be on a lump sum basis. Payment item includes all work related to the CMP, Environmental Protection, and the management of groundwater and stormwater (by-pass pumping, isolation, blocking, diverting, etc.), including supply, installation and removal of temporary system.</p> <p>The Contractor will be entitled to 50% of the payment item on the first Progress Payment. On award of Substantial Performance, the Contractor will be entitled to the remaining 50% of the payment item.</p>
<p>03 30 53 Cast-In-Place Concrete</p>	1.5	Measurement and Payment	<p>1.5.6 (<i>add new clause 1.5.6 as follows</i>)</p> <p>Payment for concrete driveway landings and intersections will be on a square meter basis. Payment will be made for the supply, forming, installation, joints, saw cuts, and hydration; all other costs will be incidental to the payment item.</p> <p>1.5.7 (<i>add new clause 1.5.7 as follows</i>)</p> <p>Payment for concrete bus landings/stops will be on a square meter basis. Payment will be made for the supply, formwork, installation, joints, saw cuts, and hydration; all other costs will be incidental to the payment item.</p> <p>1.5.8 (<i>add new clause 1.5.8 as follows</i>)</p> <p>Payment for concrete planter wall will be on a linear meter basis as per the contract drawing details. Payment will be made for the excavation, supply of concrete and granular material, form work, installation, joints, saw cuts, all other costs will be incidental to the payment item.</p>

Section	Sub-Section	Title	Supplementary Specification
03 40 01 Precast Concrete	1.4	Measurement and Payment	<p>1.4.6 (<i>add new clause 1.4.6 as follows</i>)</p> <p>Payment for concrete block retaining walls and stairs (c/w caps) includes all work and incidentals, excavation, drain rock backfill, perforated drains, filter cloth, drain lead, drain lead tie-ins to storm system, concrete and granular infill, granular base, handrail, and all restoration. Measurement of height of wall for the purpose of calculating area for payment will be taken from the top of granular base to top of cap above the block.</p>
12 93 00 Site Furnishings	1.4	Measurement and Payment	<p>1.4.1 (<i>add new clause 1.4.1 as follows</i>)</p> <p>Payment for the supply and installation of benches will be on an Each basis. Payment will include Cast in Place Concrete, reinforcement, wood slanting assembly, up-stand plate, rods, finishing, wall inserts, all labour and supply of materials associated with completing each bench as shown on the Contract Drawings. All other costs will be considered incidental to the payment item. To be installed as per manufacturer's specifications.</p> <p>1.4.2 (<i>add new clause 1.4.2 as follows</i>)</p> <p>Payment for the supply and installation of bike racks will be on an Each basis. Payment will include supply, installation of each rack type and concrete shown on the Contract Drawings. All other costs will be considered incidental to the payment item. To be installed as per manufacturer's specifications.</p> <p>1.4.3 (<i>add new clause 1.4.3 as follows</i>)</p> <p>Payment for the supply and installation of bollards will be on an Each basis. Payment will include supply, installation of each Bollard type and concrete footing and all hardware. All other costs will be considered incidental to the payment item.</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>To be installed as per manufacturer's specifications.</p> <p>1.4.4 (<i>add new clause 1.4.4 as follows</i>)</p> <p>Payment for paving edger will be on a linear meter basis. Measurement will be based on finished placement length. Payment will include supply and installation of edger and pins as shown on the Contract Drawings. All other costs will be considered incidental to the payment item. To be installed as per manufacturer's specifications.</p> <p>1.4.5 (<i>add new clause 1.4.6 as follows</i>)</p> <p>Payment for drinking fountains will be on an Each basis and will include supply and installation of fountain, excavation of footings, concrete footings, all hardware including a sanitary P-trap, double check valve, curb stop, associated chambers, and service connection to water supply. City Forces will complete the tie in. The Contractor is to provide all required restoration, including City tie-ins. All other costs will be considered incidental to the payment item. To be installed as per manufacturer's specifications.</p> <p>1.4.6 (<i>add new clause 1.4.7 as follows</i>)</p> <p>Payment for Waste Receptacle will be on an Each basis. Payment will include supply, installation of each receptacle type and concrete footing. All other costs will be considered incidental to the payment item. To be installed as per manufacturer's specifications.</p>
<p>26 56 01 Roadway Lighting</p>	<p>1.9</p>	<p>Measurement and Payment</p>	<p>1.9.4 (<i>add new clause 1.9.4 as follows</i>)</p> <p>Payment for all removal of street lighting includes removal and disposal offsite of all luminaires, poles, and bases and associated conduit.</p>

Section	Sub-Section	Title	Supplementary Specification
31 11 01 Clearing and Grubbing	1.4	Measurement and Payment	<p data-bbox="873 233 1377 264">1.4.3 (<i>add new clause 1.4.3 as follows</i>)</p> <p data-bbox="873 306 1409 447">Payment for all clearing and grubbing items includes removal and disposal of all branches, stumps, roots and timbers and vegetation remains offsite.</p> <p data-bbox="873 489 1377 520">1.4.4 (<i>add new clause 1.4.4 as follows</i>)</p> <p data-bbox="873 562 1425 737">Payment for all clearing and grubbing items will be based on the areas or isolated trees to be cleared and grubbed as shown on the Contract Drawings or as directed by the Contract Administrator.</p> <p data-bbox="873 779 1377 810">1.4.5 (<i>add new clause 1.4.5 as follows</i>)</p> <p data-bbox="873 852 1425 1104">Payment for Invasive species (excluding Japanese Knotweed) removal will be as per the specification and areas as shown on the Contract drawings. Payment will be on a square meter basis and will be made for complete treatment, clearing, removals, and disposal of all invasive plants.</p> <p data-bbox="873 1146 1377 1178">1.4.6 (<i>add new clause 1.4.6 as follows</i>)</p> <p data-bbox="873 1220 1425 1360">Payment for tree protection will be on a lump sum basis and will include placement of mulch and tree protection fencing as specified on the Contract drawings.</p> <p data-bbox="873 1402 1377 1434">1.4.7 (<i>add new clause 1.4.7 as follows</i>)</p> <p data-bbox="873 1476 1425 1837">Hydrovexcavation of tree roots will be paid on an hourly basis and is to be only using when directed by the Contract Administrator. There will be no payment for minimal time call outs or dumping fees, i.e. if the Contractor is charged 4 hrs as a minimum call out fee but only uses the Hydrovac for 2 hours, the contractor will only be paid for 2 hours. The Contractor is to coordinate the works appropriately.</p>

Section	Sub-Section	Title	Supplementary Specification
31 23 01 Excavation, Trenching and Backfilling	1.10	Measurement and Payment	<p>1.10.9 (<i>add new clause 1.10.9 as follows</i>)</p> <p>In the event that trucks will be used for common excavation volume measurement, the below fully loaded truck volumes will be used. Truck volumes must be approved by the Contract Administrator on the same day as material is transferred or the quantities are at the full discretion of the Contract Administrator.</p> <p>Tandem: 7cu.m ordinary material 4cu.m asphalt/concrete/pipe/misc.</p> <p>Triaxle 8cu.m ordinary material 5cu.m asphalt/concrete/pipe/misc.</p> <p>Tandem and Pony 11cu.m ordinary material 7.5cu.m asphalt/concrete/pipe/misc.</p> <p>Triaxle and Pony 13cu.m ordinary material 9cu.m asphalt/concrete/pipe/misc.</p> <p>Tandem and Transfer 19cu.m ordinary material 13cu.m asphalt/concrete/pipe/misc.</p>
31 23 01.1S Contaminated Material Management <i>(add new section 31 23 01.1S as follows)</i>	1.0	General	<p>1.0.1</p> <p>The Contractor will ensure that the soils are removed, stockpiled, transferred, and transported in accordance with regulatory requirements, which may include, but are not limited to:</p> <ul style="list-style-type: none"> • WorkSafe BC Occupational Health and Safety (OHS) Regulation; • Environmental Management Act (EMA), Contaminated Sites Regulation (CSR), including amendments; • Environmental Management Act (EMA), Hazardous Waste

Section	Sub-Section	Title	Supplementary Specification
			<p>Regulation (HWR), including amendments;</p> <ul style="list-style-type: none"> • Metro Vancouver and Municipal Bylaws. <p>The Contractor will allow the environmental monitor and any persons authorized by the Contract Administrator access to the construction site for the purposes of assessing the quality of excavated soils and groundwater. The Contractor should be aware that the assessment of soils and groundwater may delay the excavation and/or material disposal process. The Contractor will not be compensated for any such delay.</p>
	1.1	Health and Safety	<p>1.1.1</p> <p>The Contractor shall be responsible for developing and adhering to its own health and safety program as required by the Occupation Health and Safety (OHS) Regulation. Where contaminated soils or groundwater are encountered, the Contractor shall be responsible for determining the precautions and the safety measures to be taken to comply with the prevailing bylaws and regulations and site specific hazards.</p>
	1.2	Regulatory Notifications	<p>1.2.1</p> <p>The Environmental Management Act, Contaminated Sites Regulation (CSR) stipulates that a soil relocation agreement is required if relocating soil from a contaminated site to a non-registered fill site, and where the chemical concentrations in the soil exceed those standards presented in Schedule 7 of the CSR.</p>
	1.3	Permitted Landfill and Treatment Facilities	<p>1.2.2</p> <p>Potential receiving facilities, based on the reference contaminated soils report, are listed below.</p>

Section	Sub-Section	Title	Supplementary Specification
			<ol style="list-style-type: none"> 1. Summit Earthworks Inc. 2. Quantum Environmental 3. Tervita 4. Ecowaste Industries Ltd.
			<p>The Contractor is responsible for ensuring that facilities are permitted or that a soil relocation agreement is required (non-registered fill site) in accordance with Schedule 7 of the CSR.</p>
			<p>The Contractor is responsible for ensuring that he is complying with the landfill or treatment facility's regulations. Any costs incurred as a result of non-compliance will be at the Contractor's expense.</p>
	1.4	Measurement and Payment	<p>1.4.1:</p> <p>Payment for contaminated soil management will incidental to 31 24 13 1.8.5.3 and will include all costs related to permitting, transport, testing, and disposal of contaminated soils.</p>
<p>31 23 01.2S Preloading and Geotechnical Instrumentation <i>(add new section 31 23 01.2S as follows)</i></p>	1.0	Preloading	<p>1.0.1:</p> <p>MMCD River Sand shall be used for the construction of embankments and for preload areas in accordance with the drawings and as directed by the Engineer.</p>
	2.0	Geotechnical Instrumentation	<p>2.0.1:</p> <p>General: The Contractor shall supply, install, and survey all instrumentation required for the preload/surcharge.</p> <p>Any damage to the instrumentation as a result of construction activity or otherwise will be the sole responsibility of the Contractor. Repairs or replacement of instrumentation, as well as associated Work, due to damage will be at the Contractor's expense.</p>

Section	Sub-Section	Title	Supplementary Specification
---------	-------------	-------	-----------------------------

Geotechnical instrumentation and settlement monitoring shall consist of settlement gauges for preload fills.

The Contractor shall coordinate with the Contract Administrator to conduct a review of the installation of geotechnical instrumentation to ensure that such instrumentation has been installed correctly.

Settlement Gauges:

Prior to any preload placement, settlement gauges shall be placed on the embankment foundation subgrade following organic stripping, and at the locations listed below or as directed by the Engineer.

Settlement gauge locations:

Culvert Preload – Upstream – Two (2) points

Culvert Preload – Downstream – Two (2) points

The Contractor shall install settlement gauges consisting of metal pipe risers (38 DIA. Schedule 40 Steel Pipe) securely fastened (floor flange for pipe connection to base plate) onto a plywood base plate (2 layers 600x19x600), and placed in full-height preload areas prior to the placement of embankment fill and surcharge fill.

The Contractor shall record all settlement gauge locations on a site plan and document their co-ordinates in the record of settlement gauge readings to the satisfaction of the Engineer. The Contractor shall submit settlement gauge elevation readings obtained by a level survey. Each settlement gauge reading shall also include a reading of the ground elevation beside the gauge. The settlement gauge and ground elevation readings shall

Section	Sub-Section	Title	Supplementary Specification
			<p>be provided in tabular format including the date of each of the readings.</p> <p>For quality assurance purposes, within three (3) days of completion of the initial stage of filling, submit the first set of settlement data in tabular format with the location reference plan, to the satisfaction of the Engineer and engineer of record. The timing of subsequent settlement data submissions will be for review purposes, to the satisfaction of the Engineer.</p>
	3.0	Payment	Payment includes all work described in this section.
	4.0	Temporary Drainage for Preload	<p>4.0.1:</p> <p>All temporary drainage work shall be considered incidental to the Project and no separate payment shall be made, with the exception of temporary drainage required through the preload during the settlement period.</p> <p>4.0.2:</p> <p>The Contractor shall determine the most appropriate means of managing drainage for the temporary condition until termination of the Contract.</p> <p>The Contractor shall make appropriate allowance for settlement of temporary drainage features within the preload footprint. The Contractor shall be responsible for maintenance and repair of temporary drainage features throughout the settlement period to ensure a fully functional drainage system.</p>
31 24 13 Roadway Excavation, Embankment and Compaction	1.8	Measurement and Payment	<p>1.8.5 (<i>delete 1.8.5 and replace as follows</i>)</p> <p>Payment for common excavation includes removal all material other than concrete (refer to section 1.8.14 and 1.8.16) for concrete removal).</p>

Section	Sub-Section	Title	Supplementary Specification
---------	-------------	-------	-----------------------------

It is the responsibility of the Contractor to locate and verify location of ALL utilities.

The Owner will supply the Contractor with a pre-existing survey. The Contractor may wish to verify the survey. The Contract Administrator and Contractor will agree upon the existing datum survey prior to any removals and this survey will be used to determine common excavation volumes.

Measurement for common excavation:

1. Volumes will be calculated for payment from cross-sections every 10m or at sufficient and equal intervals in areas of excavation, as requested by the Contract Administrator and performed by the Contractor's surveyor.
2. Final cross-sections will be taken by the Contractor's surveyor upon completion of excavation to lines and levels required prior to placing of other materials over the excavated surface. If the Contractor over excavates material without approval from the Contract Administrator, the Contract Administrator will determine the volume of excavation to be paid, based upon design elevations.
3. The payment for contaminated soils will be paid for as an additional cost to the common excavation, i.e. the Contractor will be paid for common excavation (item 9.3) + a premium per tonne of contaminated material (item 9.4). Tonnage of contaminated material is to be confirmed via the receiving facilities weigh scale. Payment will only be made following confirmation of tonnage is received by the CA.

1.8.14 (add new clause 1.8.14 as follows)

Payment for excavation of concrete includes removal of curbs and gutters,

Section	Sub-Section	Title	Supplementary Specification
---------	-------------	-------	-----------------------------

sidewalks, concrete driveways and bus pads, will be paid for on a linear metre basis for curb and gutter and on square metre basis for sidewalks, crossings (driveway and lane) ramps and bus pads. All other material removed will be considered common excavation, refer to 1.8.5 for payment.

1.8.15 (*add new clause 1.8.15 as follows*)

Payment for over excavation will apply to areas of roadway that require excavation of existing unsuitable materials under the existing asphalt and concrete. Areas to be over excavated must be authorized by the Contract Administrator prior to over excavation. The Work includes excavation, offsite disposal, supply, and placement of subbase gravel (if required), 19mm minus base course, grading, and compaction to specified densities. The areas of excavation may vary in size and small areas may be isolated and independent of each other. Payment will be made per cubic metre of over excavation as defined above and by measurement of the over excavated area (or truck count where approved by the Contract Administrator).

1.8.16 (*add new clause 1.8.16 as follows*)

Removal of utility poles will be made as a lump Sum. Payment made be made for the removal of all poles, bases, conduit, and associated wires.

1.8.17 (*add new clause 1.8.17 as follows*)

Removal of existing catch basins and leads will be on an each basis. Payment will be made for all excavation, disposal of all material and capping of leads where appropriate.

Section	Sub-Section	Title	Supplementary Specification
			<p>1.8.18 (<i>add new clause 1.8.18 as follows</i>)</p> <p>Payment for the removal of existing culverts and driveway bridges includes headwalls, abutments and will be made on a per meter basis, measured along the channel flow path, for various widths, diameters, and materials, unless specified otherwise in the Schedule of Quantities and Prices. Payment will be made for excavation, disposal of material, temporary works and facilities, all other work will be considered incidental to the payment item.</p>
<p>31 32 19 Geosynthetics</p>	<p>1.6</p>	<p>Measurement and Payment</p>	<p>1.6.2 (<i>add new clause 1.6.2 as follows</i>)</p> <p>Payment for the installation of lightweight fill (EPS) will be on a cubic meter basis for material actually incorporated into the works. Payment will be made for the supply and installation of the EPS material to finished elevations. All dewatering and temporary facilities required to install the EPS shall be included in this item.</p> <p>Payment of wrapping material will be made via separate line items.</p>
<p>31 37 10 Riprap</p>	<p>1.4</p>	<p>Measurement and Payment</p>	<p>1.4.2 (<i>add new clause 1.4.2 as follows</i>)</p> <p>Payment for supply and installation of Boulders will be for each type and on an Each basis. Payment will include supply and installation of each Boulder buried to 1/3 diameter depth and the sand setting bed as shown on the Contract Drawings. All other costs will be considered incidental to the payment item.</p>
<p>32 01 16.7 Cold Milling</p>	<p>1.5</p>	<p>Measurement and Payment</p>	<p>1.5.1 (<i>add new clause 1.5.1 as follows</i>)</p> <p>Measurement for cold milling will be in square metres for each type of milling defined as herein. Payment will be made at the respective unit prices bid and will include mobilization, demobilization, street</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>sweeping, off-site disposal, clean up around existing utility manholes and valve covers, milling of pavement and underlying granular materials to desired depth as shown on the Contract Drawings and all other incidental work.</p> <p>.1 Inlay Milling I Variable depth milling up to 110mm used to create exposure at the curb line, to create tie-ins, and to generally improve the shape and drainage profile of the road cross-section. Following inlay milling, an inspection of the milled surface will be conducted by the Contract Administrator, and additional milling may be required.</p>
<p>32 01 16.8 Full Depth Reclamation</p>	<p>1.5</p>	<p>Measurement and Payment</p>	<p>1.5.1 (<i>delete clause 1.5.1 and replace as follows</i>)</p> <p>Payment for this item will be made for the depth specified under specified items in the Schedule of Quantities in the Form of Tender for Full Depth Reclamation, includes cost of mobilization, demobilization, demonstration milling test sections, placement, spreading & compaction of milled material as subbase material or blended with granular as trench backfill, boning, saw cutting, adjustment of moisture content, transport and placement of materials anywhere on-site or the work zone, as needed to establish the road cross section as shown on the Contract Drawings or directed by the Contract Administrator.</p> <p>Handling, stockpiling, loading, hauling and placing of reclaimed material generated onsite and to be re-used onsite is to be included and paid under the Full Depth Reclamation item in the Schedule of Quantities and Prices.</p> <p>Surplus reclaim material generated onsite and not used onsite will be disposed of offsite and is incidental to work described in other Sections.</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>1.5.4 (<i>add new clause 1.5.4 as follows</i>)</p> <p>For contract tendering purposes, in advance of an approved mix design for the Stabilized Base Material, the Contractor shall use the following basis for establishing a tender estimate:</p> <p>.1 The bid price shall be full and complete compensation for all labour, materials, equipment, tools, clean-up and other incidental work necessary to pulverize and blend the exposed gravel found onsite, mixing additional stabilizing mixtures, grade to designated elevation, and cross section, blade and dry material as necessary, supply water as required to bring the material to optimum moisture, pulverize and remix where required, spread, shape and compact the material to a minimum 98% of a Modified Proctor Maximum Dry Density (ASTM D1557), trim to final grade and dispose of any surplus materials.</p> <p>.2 The bid price for Base Stabilization by Foamed Asphalt shall be based on 2.5% asphalt cement content and 1.0% Portland concrete cement content by weight.</p> <p>.3 The bid price shall include loading, hauling, stockpiling, placing, compacting, and any other incidental work required to make use of any excess reclaimed material generated from one location to another within the scope of the contract.</p> <p>.4 Unless approved by the Contract Administrator, the Contractor shall not run heavy equipment/trucks over previously completed portions of the project.</p> <p>.5 The Contractor shall maintain grade control of the Stabilized Base Material with use of boning rods, string lines or other survey measures. The grade tolerances will be 6mm high or 6mm low over 3m longitudinally and transversely for</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>Stabilized Base Material.</p> <p>.6 The road surface must be swept after the Base Stabilization by Foamed Asphalt application and prior to paving. Additional sweeping may be required at the direction of the Contract Administrator without extra compensation and shall be included in the bid price.</p> <p>.7 In areas where the Base Stabilization by Foamed Asphalt operation is unable to access (corner cuts, bridge structures) the Contractor shall pre-pulverize and blend the material with the foaming operation with no additional payment. There will be no additional payment for any mobilization/ demobilization required for this process.</p>
<p>32 12 16 Hot-Mix Asphalt Concrete Paving</p>	<p>1.5</p>	<p>Measurement and Payment</p>	<p>1.5.9 (<i>add new clause 1.5.9 as follows</i>)</p> <p>Payment for sinusoidal raised intersections will be on a square meter basis. Payment will made for supply, installation, grading, and compaction of asphalt.</p> <p>1.5.10 (<i>add new clause 1.5.10 as follows</i>)</p> <p>Payment for sinusoidal speed humps and raised crosswalks will be on an each basis. Payment will be made for supply, installation and pavement markings as shown on the Contract Drawings.</p>
<p>32 17 23 Painted Pavement Markings</p>	<p>1.5</p>	<p>Measurement and Payment</p>	<p>1.5.5 (<i>add new clause 1.5.5 as follows</i>)</p> <p>Payment for signage will be made on a lump sum basis. Payment will be made for the installation of new and old signs and posts, footings, excavation and disposal, stockpiling, supply (new only), relocation and installation.</p>

Section	Sub-Section	Title	Supplementary Specification
32 31 13 Chainlink Fences and Gates	1.6	Measurement and Payment	<p>1.6.4 (<i>add new clause 1.6.4 as follows</i>)</p> <p>Payment for handrails includes all materials, work and incidentals shown on Contract Drawings and Standard Detail Drawings C11 and C14 as separate items for each type of installation (including wall installation. Measurement will be made horizontally along surface of the ground for length of handrail or bicycle baffle installed.</p>
32 91 13.23 Structural Soil	1.4	Measurement and Payment	<p>1.4.1 (<i>add new clause 1.4.1 as follows</i>)</p> <p>Payment for Structural Soil will be on a Cubic Meter basis. Payment will include supply, installation and compaction of soil. All other costs will be considered incidental to the payment item.</p>
32 93 01 Planting of Trees, Shrubs and Ground Covers	1.9	Measurement and Payment	<p>1.9.1 (<i>add new clause 1.9.1 as follows</i>)</p> <p>Payment for trees will be for each tree of a size and species specified on the Contract Drawings. Payment includes all preparatory work, mulch surrounding and planting the trees as applicable, and other incidentals specified under Section 32 93 01 – Planting Trees, Shrubs and Ground Covers including maintenance to meet conditions for Total Performance.</p> <p>1.9.2 (<i>add new clause 1.9.2 as follows</i>)</p> <p>Payment for shrubs and ground cover will be on each basis with specified species as shown on the Contract Drawings. Payment includes all preparatory work, supply and planting of shrubs as applicable, and other incidentals specified under Section 32 93 01 – Planting Trees, Shrubs and Ground Covers including maintenance to meet conditions for Total Performance.</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>1.9.3 (<i>add new clause 1.9.3 as follows</i>)</p> <p>Payment for mulch will be on a lump sum basis.</p>
<p>32 94 01 Irrigation System</p>	<p>1.7</p>	<p>Measurement and Payment</p>	<p>1.7.1 (<i>add new clause 1.7.1 as follows</i>)</p> <p>Payment shall include the design, supply and installation of required irrigation system as described in the supplemental specifications. All materials and materials incidental to the completion of the work, and shall include all costs for the maintenance and guarantee of the system.</p> <p>1.7.2 (<i>add new clause 1.7.2 as follows</i>)</p> <p>Progress claims submitted by the Contractor shall be based on the percentage of work completed in the Tender Form for the Work completed at date of claim and approved by the Consultant and Owner prior to payment.</p> <p>1.7.3 (<i>add new clause 1.7.3 as follows</i>)</p> <p>No payment shall be made for materials delivered and stored onsite that have not been properly installed and tested.</p> <p>1.7.4 (<i>add new clause 1.7.4 as follows</i>)</p> <p>The lump sum prices bid for supply shall include supplying, delivering, loading, unloading and all allowances for handling, storage, breakage and waste. Payment will be made only for material actually installed and tested in the work.</p>
<p>33 11 01 Waterworks</p>	<p>1.8</p>	<p>Measurement and Payment</p>	<p>1.8.1 (<i>delete clause 1.8.1 and replace as follows</i>)</p> <p>Payment for watermain will be made separately for various sections of watermain consistent with pipe materials and diameters, depths of mains and backfill</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>requirements shown on the Contract Drawings and described under the individual payment items in the Schedule of Quantities and Prices.</p> <p>1.8.2 (<i>delete clause 1.8.2 and replace as follows</i>)</p> <p>Payment for watermain relocations (gooseneck) include tie-ins to existing, saw cutting pavement, trench excavation, disposal of surplus excavated materials, bedding, supply and installation of all pipe, bolts, gaskets and tie rods, joint restraints, couplings, thrust blocks, air valve assemblies, imported or native backfill as shown on the Drawings, cleaning, pressure and leakage testing, flushing, disinfection, all surface restoration as specified under Section 31 23 01 – Excavating, Trenching and Backfilling – 3.6, except permanent pavement restoration, and all other work and materials necessary to complete the installation as shown on the Drawings and specified under this section.</p> <p>Measurement for watermain relocation will be made on an each basis for the detail shown in the Contract Drawings.</p>
<p>33 34 01 Sewage Forcemains</p>	<p>1.8</p>	<p>Measurement and Payment</p>	<p>1.8.2 (<i>delete clause 1.8.2 and replace as follows</i>)</p> <p>Payment for sanitary sewage forcemains relocation includes tie-ins to existing, saw cut pavement, trench excavation, disposal of surplus excavated materials, supply and installation of all pipe, related materials, bolts, gaskets, tie-rods, couplings, bedding, imported or native backfill as shown on the Contract Drawings, cleaning and pressure and leakage testing, flushing, all surface restoration as specified under Section 31 23 01 – Excavating, Trenching and Backfilling – 3.6, except permanent pavement restoration, and all other work and materials necessary to complete the</p>

Section	Sub-Section	Title	Supplementary Specification
33 44 01 Manholes and Catchbasins	1.5	Measurement and Payment	<p>installation as shown on the Contract Drawings and as specified under this section.</p> <p>Measurement for watermain relocation will be made on an each basis for the detail shown in the Contract Drawings.</p> <p>1.5.7 (<i>add clause 1.5.7 as follows</i>)</p> <p>Payment for adjustment of utility covers will be made at the respective unit rates bid in the Schedule of Quantities and Prices. Measurement will be in units adjusted as defined herein.</p> <p>1. These pay items shall only apply where the final elevation of the new asphalt is above or below existing. Where asphalt work is a removal and replacement of the equivalent thickness, work around utility, frames and covers shall be paid Section 32 12 16 and Section 32 01 16.7.</p> <p>.2 Adjustments to existing manholes will be defined as resetting of the entire cast frame and cover to finished grade. Adjustments will include jackhammering, removal, or addition of concrete riser rings, cement mortar, concrete encasement, temporary asphalt ramping, and any other incidental work. All manholes must be vertically adjusted a minimum of twenty-four (24) hours prior to paving. The Contract Administrator shall determine what manholes shall require adjustments. Supply and replacement of the frame and cover will be paid separately as shown in the schedule of quantities and unit prices and as directed by the Contract Administrator.</p> <p>.3 Catch Basin adjustments will be defined as resetting of the entire cast frame and grate to finished grade. Adjustments will include jackhammering, removal, or addition of concrete riser rings, cement mortar, concrete encasement, concrete</p>

Section	Sub-Section	Title	Supplementary Specification
			<p>curbing, temporary asphalt ramping, and any other incidental work. All catchbasins must be vertically adjusted a minimum of twenty-four (24) hours prior to paving. The Contract Administrator shall determine what catchbasins shall require adjustment. Supply and replacement of the existing frame and grate will be paid separately in addition to this pay item as directed by the Contract Administrator.</p>
			<p>.4 Valve box and meter cover adjustments will be defined as resetting of the casting to finished grade. Adjustments will include jackhammering, cement mortar, concrete encasement, temporary asphalt ramping, and any other incidental work. All valve boxes must be vertically adjusted a minimum of twenty-four (24) hours prior to paving. For measurement and payment purposes, gas valves, monument boxes, water valves, cathodic protection boxes, Metro Vancouver valve boxes, and monitoring wells will all be classified as valve box covers. The Contract Administrator shall determine what valve cover boxes shall require adjustments.</p>
			<p>.5 Adjustments to foreign utility manhole covers, namely BC Hydro, TELUS, Shaw Cable, and Metro Vancouver will be defined as resetting of the cast frame and cover to finished grade. Adjustments will include jackhammering, replacement, removal, or addition of concrete riser rings, cement mortar, concrete encasement, temporary asphalt rampings, and any other incidental work. All manholes must be vertically adjusted a minimum of twenty-four (24) hours prior to paving. All foreign utility adjustments require coordination with each respective agency and their inspectors by the Contractor. If the respective utility company chooses to supply and replace or to adjust the manhole themselves, no payment for the supply and replace or the adjustment will be made to the Contractor.</p>

Section	Sub-Section	Title	Supplementary Specification
33 42 13 Pipe Culverts	1.5	Measurement and Payment	<p>The Owner will not supply the “Turner Rings” required to raise the foreign utility manhole covers.</p> <p>.6 In some select locations a complete replacement of the manhole frame and covers will replace existing manhole frame and covers. Payment will include jackhammering, replacement of existing frame and cover, removal or addition of concrete rings to the cement mortar, concrete encasement, temporary asphalt ramping, and any other incidental work. All manholes must be vertically adjusted a minimum of twenty-four (24) hours prior to paving.</p> <p>1.5.8 (<i>add clause 1.5.8 as follows</i>)</p> <p>ACO Classic Drain K100, complete with channel grate and frame. Frame to be Stainless Steel and perforated. Payment will be on a linear meter basis.</p> <p>1.5.9 (<i>add clause 1.5.9 as follows</i>)</p> <p>Payment for manholes include barrel, base, lid, risers, frame and cover, base preparation, infiltration ports and all associated work required to accommodate manhole in the new storm system under this Contract. Excavation related to the manhole will be as specified under Section 31 23 17.</p> <p>1.5.1 (<i>delete clause 1.5.1 and replace as follows</i>)</p> <p>Payment for pipe culvert will be made separately for various culverts consistent with pipe diameters, materials, locations, and requirements shown on the Contract Drawings and described under individual payment items in the Schedule of Quantities and Prices.</p>

Section	Sub-Section	Title	Supplementary Specification
---------	-------------	-------	-----------------------------

1.5.2 (*delete clause 1.5.2 and replace as follows*)

Payment for pipe culvert includes saw cutting pavement where necessary, excavation, disposal of surplus excavated material, supply of all pipe, fittings and related materials, bedding, imported or native backfill as shown on the Contract Drawings, cleaning, all surface restoration as specified under Excavating, Trenching and Backfilling – Section 31 23 01 – 3.6, except permanent pavement restoration, and all other work and materials necessary to complete the installation as shown on the Contract Drawings and specified under this section.

Measurement for pipe culvert will be made horizontally from end to end of the culvert after work has been completed.

1.5.3 (*delete clause 1.5.3 and replace as follows*)

Payment for end walls will be for each wall with types of materials and locations specified under separate payment items. Payment includes excavation, disposal of surplus excavated material, supply of all required materials, imported or native backfill as shown on the Contract Drawings, all surface restoration as specified under Excavating, Trenching and Backfilling Section 31 23 01 – 3.6 except permanent pavement restoration, and all other work and materials necessary to complete the installation as shown on the Contract Drawings and specified under this section.