

City of Coquitlam

Contract Documents 77522

United Boulevard Multi-Use Pathway



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Contract No. 77522

United Boulevard Multi-Use Pathway

Project Construction Documents

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Invitation to Tenderers



INVITATION TO TENDER

DATE OF ISSUE: April 20, 2022

Tender No. 77522

United Boulevard Multi-Use Pathway

The City of Coquitlam invites tenders for **Contract 77522 – United Boulevard Multi-Use Pathway**, generally consisting of the following, but not limited to:

- Installation of Approx. 235m of 3.0m Multi-Use Pathway, c/w Stamped Asphalt Buffer Zone
- Removal and Replacement of Approx. 240m of Concrete Curb and Gutter
- Installation of Approx. 65m of MOTI 2891-2 Railing
- Relocation of 3 Street Lights
- Miscellaneous Drainage Works

Tender Documents and Drawings are available for downloading from the City of Coquitlam website: www.coquitlam.ca/BidOpportunities

Printing of Tender documents and drawings is the sole responsibility of the Tenderers.

Tenders submitted must be accompanied by a copy of the original specified 10% Bid Bond and will be received:

On or Before 2:00 pm local time <u>Tuesday, May 11, 2022</u> ("Closing Date and Time*)

Instructions for Tender Submission

Tender submissions are to be consolidated into one (1) .pdf file and uploaded electronically through QFile, the City's file transfer service accessed at website: <u>qfile.coquitlam.ca/bid</u>

- 1. In the "Subject Field" enter: Tender Number and Name
- 2. Add consolidated Tender file in PDF format, and Appendix 1 in XLS format, and Send (Ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete.)

Tenders will not be opened in public. The unevaluated Tender results will be forwarded to all participants by email.

Inquires

All inquiries are to be submitted in writing by email, no later than 3 full business days prior to Tender Closing Time quoting the Tender Name and Number sent to:

Email: bid@coquitlam.ca

<u>Addenda</u>

Tenderers are required to check the City's website for any updated information and Addenda issued before the Closing Date at: www.coquitlam.ca/BidOpportunities

Any changes to the Tender documentation will be issued by means of written Addenda and posted on the City's website and will form part of the Tender. No amendment of any kind to the Tender is effective unless it is posted in a formal written Addendum on the City website. Upon submitting a Tender, Tenderers will be deemed to have received notice of all Addenda that are posted on the City's website and deemed to have considered the information for inclusion in the Tender submitted.

The City does not retain a bidder's list or bidder's registry. Tenderers are encouraged to register as plan takers and may view the Tender Documents and Drawings by contacting the Vancouver Regional Construction Association (VRCA), website: www.my.vrca.ca, ph: 604-294-3766, or email vrca@vrca.ca, quoting the Coquitlam Tender Reference Number.

Should there be any discrepancy in the documentation provided, the City's original file copy shall prevail.

Tenders shall remain open for acceptance for 60 days following the submission Closing Date.

The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. The City also reserves the right to cancel any request for Tender at any time without recourse by the Tenderer.

The City, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.

The City will not be responsible for any costs incurred by the Tenderer in preparing the Tender.

Procurement of goods and services is conducted in accordance with Chapter 5 of the Canadian Free Trade Agreement (CFTA) and the New West Partnership Trade Agreement (NWPTA).

M. Pain Purchasing Manager

Instructions to Tenderers

Tender 77522

United Boulevard Multi-Use Pathway

INSTRUCTIONS TO TENDERERS

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INSTRUCTIONS TO TENDERERS

(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.)

The City of Coquitlam

Contract: United Boulevard Multi-Use Pathway

Reference No. 77522

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: Installation of Approx. 235m of 3.0m Multi-Use Pathway, c/w • Stamped Asphalt Buffer Zone Removal and Replacement of Approx. 240m of Concrete Curb and • Gutter Installation of Approx. 65m of MOTI 2891-2 Railing • Relocation of 3 Street Lights **Miscellaneous Drainage Works** • All inquiries regarding this Tender are to be submitted in writing 1.2 referencing the Tender Name and Number sent to: E-mail bid@coguitlam.ca All inquiries will be received a minimum of 3 full business days prior to **Tender Closing Time.** Inquiries received after that time may not receive a response. The Tender Documents which a Tenderer should review to prepare a 2.0 Tender 2.1 Documents 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". 2.2 A portion of the Contract Documents are included by reference. Copies of these documents have not been included with the tender package. These documents are the 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. 2.3 Any additional information made available to Tenderers prior to the Tender Closing Time by the Owner or representative of the Owner, such

	CITY OF COQUITLAM Contract No. 77522		IT 3
			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 judgments about its reliability, accuracy, completeness and relevance to the <i>Contract</i> , 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.
3.0	Submission of Tenders	3.1	Tenders must be submitted on the Tender Form provided, accompanied by a copy of the original 10% Bid Bond quoting the Tender Name and Number, and be uploaded to the City's file transfer website.
			Tenders must be received on or before:
			<i>Tender Closing Time</i> : 2:00 p.m. local time <i>Tender Closing Date</i> : May 11, 2022
			For the purpose of the Tender submission, digital copies of original documents and signatures sent electronically are accepted. Original documents are required upon request by the City.
	Instructions for Tender Submission	3. 2	Tender submissions are to be consolidated into one (1) PDF file and uploaded electronically through QFile, the City's file transfer service accessed at website: <u>http://qfile.coquitlam.ca/bid</u>
			1. In the "Subject Field" enter: Tender Number and Name
			 Add consolidated Tender file in PDF format and Appendix 1 in XLS format, and Send (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete and was sent to email: bid@coquitlam.ca)
			Tenderers are responsible to allow for ample time to complete the submission process. For assistance, phone 604-927-3037 or Fax 604-927-3035.
		3.3	Tenders submitted shall be deemed to be received when displayed as a new email in the in-box of the above email address. The City will not be responsible for any delay or for any Tenders not received for any reason, including technological delays or issues by either party's network or email program, and the City will not be liable for any damages associated with Tenders not received.
		3.4	The City reserves the right to accept late Tenders to allow for technological delays. The City also reserves the right to accept Tenders received by fax (604-927-3035) or email: bid@coquitlam.ca .
			Please Note: Due to Covid-19 prevention measures, in-person tender submissions will not be accepted. It is also reasonable to consider that City staff may be given a work from home mandate. Under this scenario, Fax submissions may not be received. Be advised that filing electronically through Qfile will be the most reliable method during these uncertain times.

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		3.5	Tenders will not be opened in public. The unevaluated results will be forwarded to participants by email.
		3.6	Tender submissions are subject to the Freedom of Information and Protection of Privacy Act and contents may be disclosed if required to do so, pursuant to the Act.
4.0	Additional Instructions to Tenderers		Additional Instructions to Tenderers
	Obtaining Documents	4.1	 The following documents which are referred to and form part of the Contract Document package may be obtained as follows: Copies of the Master Municipal Construction Documents Volume II (2009), General Conditions, Specifications and Standard Detail Drawings are available separately from:
			Support Services Unlimited Suite 102 211 Columbia Street Vancouver, B.C. V6A 2R5 Tel: 604-681-0295 Fax: 604-305-0424
			 City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition. City of Coquitlam Engineering & Public Works Department 3000 Guildford Way
			Coquitlam, B.C. V3B 7N2 Tel: 604-927-3500 Fax: 604-927-3525
			Copies of the City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition are available for viewing and downloading off the City of Coquitlam website: <u>Supplementary Specifications and Detailed Drawings to MMCD</u>
	Test Excavations	4.2	Prior to the excavation of test holes on road allowances or privately owned property the Tenderer shall obtain permission from the Municipality or Owner of the property and comply with their requirements for restoration of disturbed surfaces and utilities. Failure to comply with Municipal by-laws restricting this practice may result in prosecution of the offending party.
	Business License	4.3	The successful Tenderer shall provide evidence of a City of Coquitlam Business License or Tri-Cities Intermunicipal Business License prior to commencement of work or supply of materials. For more information, contact Business License Division, Tel: 604-927-3085 or apply online at website: <u>City of Coquitlam Business License</u>

No Claim	4.4	Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderer shall have any claim for any compensation of any kind whatsoever, as a result of participating in this Tender, including accepting a non-compliant bid and by submitting a Tender, each Tenderer shall be deemed to have agreed that it has no claim.				
No Cost	4.5	The City will not under any circumstances be responsible for any costs incurred by the Tenderer in preparing the Tender.				
Right to Accept or Reject any Tender	4.6	The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. In its sole discretion, the City may reject or retain for its consideration, tenders which are nonconforming because they do not contain the content or form required by the instructions to tenderers or for failure to comply with the process for submission set out in these instructions to tenderers.				
		The City specifically reserves the right to reject all Tenders if none is considered to be satisfactory and, in that event, at its option, to call for additional Tenders.				
Negotiation	4.7	The City, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.				
Cancellation of Tender	4.8	The City reserves the right to cancel any request for Tender at any time without recourse by the Tenderer. The City has the right to not award this work for any reason including choosing to complete the work with the City's own forces.				
Conflict of Interest	4.9	Tenderers shall disclose any actual or potential conflicts of interest and existing business relationships it may have with the City, their elected or appointed officials or employees.				
Collusion	4.10	Tenderers will not discuss or communicate with one another in regards to the preparation of their Tenders. Each Tenderer will ensure that its participation in the Tender process and that of its team members is conducted without collusion or fraud. Failure to comply with this requirement may lead to disqualification without further notice or warning.				
Instruction to Tenderers – Part II		Delete Instructions to Tenderers – Part II Contained in the Edition of the Publication "Master Municipal Construction Documents 2009" and replace with the following:				
Tender Requirements	5.1	A tender should be on the Form of Tender as provided and be signed by the authorized signatory(s) as follows:				
		5.1.1 if the tenderer is a partnership or joint venture then the name of the partnership or joint venturer should be included, and each partner or joint venturer should sign				

5.0

personally; if a partner of joint venture is a corporation then such corporation should sign as indicated in paragraph 5.1.3 below; and

- 5.1.2 if the tenderer is a corporation then the full name of the corporation should be included, together with the names and signatures of authorized signatories.
- 5.1.3 For the purpose of the Tender submission, digital copies of original documents and electronic signatures are accepted. Original documents are required upon request by the City.
- 5.2 A tender must be accompanied by tender security ("*Bid Security*") in the form of:
 - 5.2.1 a copy (digital or Electronic copy is acceptable) of the original bid bond in an amount equal to 10% of the Tender Price, issued by a surety licensed to carry on the business of suretyship in British Columbia in a form reasonably satisfactory to the *Owner*;
- 5.3 Tenderer should be competent and capable of performing the various items of work. Tenderer shall complete the following statement sheets appended to the Form of Tender:
 - 5.3.1 Appendix 1 the Schedule of Quantities and Prices;
 - 5.3.2 Appendix 2 a "*Preliminary Construction Schedule*", generally in the form attached as Appendix 2 to the Form of Tender, and showing *Substantial Performance* by the date or within the duration, shown in paragraph 2.2 of the Form of Tender.
 - 5.3.3 Appendix 3 name and brief description of the previous experience of the *Superintendent* the tenderer will use for the *Work*;
 - 5.3.4 Appendix 4 a list of previous comparable work, including a brief description of that work, approximate contract value, and references (with phone numbers);
 - 5.3.5 Appendix 5 a complete list of all subcontractors, if any, that the tenderer will use for the *Work* including full names.; and
 - 5.3.6 Appendix 7 is provided for information only, to indicate the Contract Insurance is to be submitted by the successful Tenderer upon Notice of Award.
- 5.4 The successful tenderer will, within 15 Days of receipt of the written Notice of Award, be required to deliver to the Owner the items listed in FT 5.1.1, including a Performance Bond and a Labour and Material Payment Bond as described in FT 5.1.1(a), failing which the provisions of FT 6.1 will apply.

6.0	Qualifications, Modifications, Alternative Tenders	6.1	Tenders which contain qualifications, or omissions, so as to make comparison which other tenders difficult, may be rejected by the <i>Owner</i> .
		6.2	A tenderer may, at the tenderer's election, submit an alternative tender ("Alternative Tender") which varies the materials, products, designs or equipment by the Owner as Approved Equals as the case may be, <u>but an</u> <u>Alternative Tender</u> must be in addition to, and not in substitution for a tender which conforms to the requirements of the Contract Documents.
		6.3	The only Alternative Tender that the Owner may accept is an Alternative Tender submitted by that tenderer whose conforming tender, submitted as required by paragraph 6.2 of these Instructions to Tenderers, would have been accepted by the Owners in the preference to other conforming tenders, if no Alternative Tenders had been invited.
7.0	Approved Equals	7.1	Prior to the <i>Tender Closing Time and Date</i> , a tenderer may request the <i>Owner</i> to approve materials, products, or equipment (" <i>Approved Equal</i> ") to be included in a tender in substitution for items indicated in the Contract Documents.
		7.2	Applications for an <i>Approved Equal</i> must be in writing, and supported by appropriate supporting information, data, specifications, and documentation.
		7.3	If the <i>Owner</i> decides in its discretion to accept an <i>Approved Equal</i> , then the <i>Owner</i> will issue an addendum to all tenderers.
		7.4	The <i>Owner</i> is not obligated to review or accept an application for an <i>Approved Equal</i> .
8.0	Inspection of the <i>Place of the</i> Work	8.1	All tenderers, either personally or through a representative, are responsible to examine the <i>Place of the Work</i> before submitting a tender. A tenderer has full responsibility to be familiar with and make allowance in the tender for all conditions at the <i>Place of the Work</i> that might affect the tender, including any information regarding subsurface soil conditions made available by the <i>Owner</i> , the location of the <i>Work</i> , local conditions, topographical soil conditions, weather and access. Unless otherwise specified in the <i>Contract Documents</i> , a tenderer is not required to do subsurface investigations. By submitting a tender, a tenderer represents that the tenderer has examined the <i>Place of the Work</i> , or specifically elected not to. No additional payments or time extensions shall be claimable or due because of difficulties relating to conditions at the <i>Place of the Work</i> which were reasonably foreseeable by a contractor qualified to undertake the <i>Work</i> .
		8.2	Tenderers are referred to GC 11.2.1 regarding Concealed or Unknown Conditions.
9.0	Interpretation of <i>Contract</i> <i>Documents</i>	9.1	If a tenderer is in doubt as to the correct meaning of any provision of the <i>Contract Documents</i> , the tenderer may request clarification as instructed in paragraph 1.2 of the Instructions to Tenderers.

		9.2	<i>Contract Doct</i> provision of t <u>Work as</u> obse	discovers any contradictions or inconsistencies in the <i>uments</i> or its provisions, or any discrepancies between a he <i>Contract Documents</i> and conditions at the <u>Place of the</u> rved in an examination under paragraph 8 of the person ragraph 1.2 of the Instructions to Tenderers.
		9.3		considers it necessary, the <i>Owner</i> may issue written rovide clarification (s) of the <i>Contract Documents</i> .
		9.4		pretation or representations from the <i>Owner</i> or any re of the <i>Owner</i> will affect, alter, or amend any provision of <u>Documents.</u>
10.0	Prices	10.1	<i>Owner</i> of the <i>Schedule of Q</i> the generalit prices (includ	Price will represent the entire cost excluding <i>GST</i> to the complete <i>Work</i> based on the estimated quantities in the <i>Quantities and Prices</i> of the Form of Tender. Notwithstanding ies of the above, tenderers shall include in the tendered ing unit prices, lump sum prices, or other forms of pricing) ounts to cover:
			10.1.1	the costs of all labour, equipment and material included in or required for the <i>Work</i> , including all items which, whole not specifically listed in the <i>Schedule of Quantities and</i> <i>Prices</i> , are included in the <i>Work</i> specifically or by necessary inference from the <i>Contract Documents</i> ;
			10.1.2	all assessments payable with respect to labour as required by any statutory scheme such as unemployment insurance, holiday pay, insurance, CPP and all employee benefits and the Workers Compensation Act;
			10.1.3	all overhead costs, including head office and on-site overhead costs, and all amounts for the <i>Contractor's</i> profit.
		10.2	all applicable performing tl	prices and all subcontracts must allow for compliance with laws regarding trade or other qualifications of employees he <i>Work</i> , and payment of appropriate wages for labour r required for the <i>Work</i> .
11.0	Taxes	11.1	payable with	prices shall cover all taxes and assessments of any kind respect to the <i>Work</i> , but shall not include <i>GST</i> . <i>GST</i> shall be parate line item as required by GC 19.3.
12.0	Amendment of Tenders	12.1	delivered by I Instructions t <i>and Time</i> . An	ay amend or revoke a tender by giving written notice, Email or fax, to the office referred to in paragraph 3.4 of the to Tenderers at any time up until the <i>Tender Closing Date</i> a amendment or revocation that is received after the <i>Tender</i> and <i>Time</i> shall not be considered and shall not affect a pomitted.

- 12.2 An amendment or revocation must be signed by an authorized signatory of the tenderer in the same manner as provided by paragraph 5.1 of these Instructions to Tenderers.
- 12.3 Any amendment that expressly or by inference discloses the tenderer's *Tender Price* or other material element of the tender such that, in the opinion of the *Owner*, the confidentiality of the tender is breached, will invalidate the entire tender.
- 12.4 An acceptable form of a tender amendment which tenderers may, but are not required to, use is as follows:

"Contract:	
	(TITLE OF CONTRACT)
Reference No.	
	(OWNER'S CONTRACT REFERENCE NO.)
TO:	
	(NAME OF OWNER)
	(OWNER'S CONTRACT REFERENCE NO.)

We the undersigned wish to amend our tender which we submitted for the above *Contract* by deleting the following tendered prices or items from our tender:

(TEDNERED PRICES AND/OR TENDER ITEMS IN THE TENDER THAT ARE TO BE AMENDED)

and substituting the following revised tendered prices or items:

(REVISED TENDERED PRICES OR TENDER ITEMS)

The extensions in our tender should be adjusted accordingly, and our *Tender Price* as set out in Appendix 1 of our submitted **Form of Tender**, and on the *Schedule of Quantities and Prices*, increased / decreased by \$_____, excluding GST. We have not included our revised *Tender Price* in order to preserve the confidentiality of our tender.

Signed and delivered the ____ day of ______, 20____."

12.5 If a tender amendment or revocation is sent by fax, the tenderer assumes the entire risk that equipment and staff at the office referred to in paragraph 3.4 of the Instructions to Tenderers will properly receive the fax containing the amendment or revocation before the *Tender Closing Date and Time*. The *Owner* assumes no risk or responsibility whatsoever that any fax will be received as required by paragraph 12.1 of these Instructions to Tenderers, and shall not be liable to any tenderer if for any reason a fax is not properly received.

	CITY OF COQUITLAM Contract No. 77522			IT 10				
13.0	Duration of Tenders	13.1		<i>nder Closing Time</i> , a tender shall remain valid and revocable paragraph 5.1 of the Form of Tender.				
14.0	Qualifications of Tenderers	14.1	By submitting a tender a tenderer is representing that it has the competence, qualifications and relevant experience required to do the <i>Work</i> .					
15.0	Award	15.1	provided in IT5.3 includ	g its discretion, the <i>Owner</i> will have regard to the information the Appendices to the Form of Tender as described under ing the proven experience of the tenderer, and any listed cors, to do the <i>Work</i> .				
			value based	eived will be evaluated to provide the City with greatest on quality, service, price and experience. Evaluation Criteria but is not limited to:				
			1.	Ability to meet specifications and required completion date				
			2.	Contractor's past experience, references, reputation and compliance to specifications				
			3.	Demonstrated successful experience on similar projects and specific equipment installation				
			4.	Price: purchase price, maintenance costs, availability of parts and service, warranty and compatibility with existing equipment and/or conditions				
			5.	Any other criteria, the City deems, at its sole discretion, necessary to evaluate Tenders;				
			6.	Lowest price will not necessarily be accepted.				
			Tenderer, or engaged, ei legal entity,	y, in its absolute discretion, not award to a Tenderer if the r any officer or director of a corporate Tenderer, is or has been ther directly or indirectly through another corporation or in a legal action against the City and its elected and officers and employees or any of them in relation to:				
			a)	any other contract or services; or				
			b)	any matter arising from the City's exercise of its powers, duties or functions under the <i>Local Government Act</i> , the <i>Community Charter</i> or any other enactments; within five years of this Tender Offer.				
			limitation, r	s of this section, the words "legal action" includes, without nediation, arbitration, hearing before an administrative awsuit filed in any court.				
			not to awar such factors ability to wo representat	niting the City's sole discretion, in determining whether or d to a Tenderer pursuant to this clause, the City will consider as whether the legal action is likely to affect the Tenderer's ork with the City and its employees, agents, consultants and ives or any of them and whether the City's past experience inderer in the matter that resulted in the legal action				

indicates that the City is likely to incur increased staff and legal costs or either of them in the administration of this contract if it is awarded to the Tenderer.

In the event that the lowest total Tender Price by two or more Tenderers is the same amount, the City will select a Tenderer with an overall satisfactory performance record in having completed work on previous relevant projects that are provided as references, and on City projects. Information obtained from references will not be disclosed or discussed with any Tenderer. If all references are equal, selection will be determined by a coin toss in a manner to be directed by the City.

Where only one Tender is received the City may reject such and re-tender on a selected basis.

- 15.2 The *Owner* will notify the successful tenderer in writing.
- 15.3 If there are any discrepancies in the *Schedule of Quantities and Prices* between the unit prices and the extended totals then the unit prices shall be deemed correct, and corresponding corrections shall be made to the extended totals. If a unit price or extended total has been omitted, the following shall apply:
 - a) If a unit price is given but the corresponding extended total has been omitted, then the extended total shall be calculated from unit price and the estimated quantity, and inserted as the extended total;
 - b) If an extended total is given but the corresponding unit price has been omitted, then the unit price shall be calculated from the extended total and estimated quantity, and inserted as the unit price;
 - c) If both the unit price and the corresponding extended total for a tender item have been omitted, then the following test shall he applied to determine whether the tender shall be rejected as incomplete:
 - the highest of the unit prices tendered by other tenderers for that tender item shall be used as the test unit price, and the corresponding test extended total shall be calculated from the test unit price and the estimated quantity;
 - (ii) if the test extended total for the tender item exceeds 1% of the revised total *Tender Price*, including the test extended total, or if the revised total *Tender Price*, including the test extended total, alters the ranking of the tenderers according to the lowest *Tender Price*, then the omitted unit price for that tender item is deemed to materially affect the *Tender Price* relative to other tenders and the tender shall be rejected;
 - (iii) if the tender is not rejected under subparagraph (ii) of this IT 15.3 (c), then the unit price and the

- d) In no event shall page totals in the *Schedule of Quantities and Prices* or the total *Tender Price* be used to calculate missing extended totals or unit prices.
- 15.4 Upon receiving notification of being the successful Tenderer, the Tenderer shall submit a Pandemic Prevention Policy and Procedures (4P) document detailing occupational health and safety policies to prevent the spread of Covid-19 to the public, the Tenderer's employees, and subcontractors during construction operations. The Owner reserves the right to require additions or changes to the 4P document prior to the execution of the Contract. After the Contract is in place, the Contractor will be expected to enforce the 4P document to the satisfaction of the Contract Administrator. If the Contract Administrator deems the 4P document is not being satisfactorily followed, the Contract Administrator may stop work at the sole expense of the Contractor until the Contractor's employees and sub-contractors have been provided proper training and orientation in regard to the 4P document.
- **16.0 Subcontractors 16.1** The *Owner* reserves the right to object to any of the subcontractors listed in a tender. If the *Owner* objects to any of the subcontractor(s) then the *Owner* will permit a tenderer to, within 5 days, propose a substitute subcontractor(s) acceptable to the *Owner* provided that there is not resulting adjustment in the *Tender Price* or the completion date set out in paragraph 2.2 of the Form of Tender. A tenderer will not be required to make such substitution and, if the *Owner* objects to a listed *Subcontractor(s)*, the tenderer may, rather than propose a substitute subcontractor(s), consider its tender rejected by the *Owner* and by written notice withdraw it tender. The *Owner* shall, in the event, return the tenderer's bid security
- 17.0Optional Work17.1If the Schedule of Quantities and Prices includes any tender prices for
Optional or Provisional Work, as defined in GC 7.4.1, the tenderers must
complete all the unit prices for such Optional or Provisional Work. Such
tender prices shall not include any general overhead costs, or other costs,
or profit, not directly related to the Optional or Provisional Work.
 - 17.2 Notwithstanding that the *Owner* may elect not to proceed with the *Optional or Provisional Work*, the tender prices for any *Optional or Provisional Work*, including the extended totals for *Optional or Provisional Work* unit prices, shall be included in the *Tender Price* for the purpose of any price comparisons between tenders.

Form of Tender



Form of Tender

Tender No. 77522

United Boulevard Multi-Use Pathway

Summary

Name of *Contractor*:____

 Tender Price (exclude GST):
 \$

 (FROM APPENDIX 1 OF FORM OF TENDER)

Tender submitted must be accompanied by a copy of the original 10% Bid Bond and will be received

> On or before 2:00 pm (local time) Wednesday, May 11, 2022

Instructions for Tender Submission

Tender submissions are to be consolidated into one (1).pdf file and uploaded electronically through QFile, the City's file transfer service accessed at website: gfile.coguitlam.ca/bid

1. In the "Subject Field" enter: Tender Number and Name

2. Add consolidated Tender file in PDF format, and Appendix 1 in XLS format, and Send (ensure your web browser remains open until you receive 2 emails from Ofile to confirm upload is complete and was sent to the correct email address: bid@coquitlam.ca)

Tenderers are responsible to allow ample time to complete the Tender submission process. If assistance is required, phone 604-927-3037 or fax 604-927-3035.

> THE CITY OF COOUITLAM 3000 Guildford Way Coquitlam, B.C. V3B 7N2

May 2022

(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.)

Contract Name: United Boulevard Multi-Use Pathway Reference No. 77522

TO OWNER:

1 WE, THE UNDERSIGNED:

1.1 have received and carefully reviewed all of the *Contract Documents*, including the Instructions to Tenderers, the City of Coquitlam Supplementary General Conditions, the City of Coquitlam Supplementary Contract Specifications, 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 shall fully disclose any actual or potential conflicts of interest and existing business relationships we may have with the City, their elected or appointed officials or employees:
- 1.3 have full knowledge of the *Place of the Work*, and the *Work* required; and
- 1.4 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 August 31, 2022; 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.
- 3.2 that we understand and agree that the owner is in no way obliged to accept this Tender.

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 the Certificate of Compliance on the form provided in Appendix 7 of this Form of Tender.

5 WE AGREE:

- 5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of <u>60</u> calendar days from the day following the *Tender Closing Date and Time*, even if the tender of another Tenderer is accepted by the *Owner*. If within this period the *Owner* delivers a written notice ("*Notice of Award*") by which the *Owner* accepts our tender we will:
 - 5.1.1 within **15** *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
 - a) a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the *Contract Price*, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;
 - b) a "clearance letter" indicating that the Tenderer is in WCB compliance; and
 - c) a copy of the insurance policies as specified in SGC Section 24 indicating that all such insurance coverage is in place and;
 - d) a letter confirming the *Contractor* as "Prime Contractor" for the Contract as specified in SGC Section 21.2.1.
 - 5.1.2 within **2** *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and
 - 5.1.3 sign the Contract Documents as required by GC 2.1.

6 WE AGREE:

- 6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:
 - 6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or
 - 6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*,

then such failure or refusal will be deemed to be a refusal by us to enter into the Contract

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

6.1	3 the face value of the <i>Bid Security</i> ; and
6.1	4 the amount by which our <i>Tender Price</i> is less than the amount for which the <i>Own</i> contracts with another party to perform the <i>Work</i> .
OUR ADDRE	SS is as follows:
Phone: _	
Fax: _	
Email: _	
Attention:	
This Tender	is executed thisday of, 20
Contractor:	
(FULL LEGAI	NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)
	NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)
(AUTHORIZ	
(AUTHORIZ	ED SIGNATORY)
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(AUTHORIZ (AUTHORIZ WE CONFIR 8.1 our 8.1 (GS	ED SIGNATORY) ED SIGNATORY) M: Goods and Services Tax (GST) registration status is as follows: 1 for information purposes, our GST Registration Number is: TREGISTRATION NUMBER)
(AUTHORIZ (AUTHORIZ WE CONFIR 8.1 our 8.1 (GS or; 8.1	ED SIGNATORY) ED SIGNATORY) M: Goods and Services Tax (GST) registration status is as follows: for information purposes, our GST Registration Number is: TREGISTRATION NUMBER) 2 by signature hereunder, we certify we are not required to provide a registration

APPENDIX 1 FORM OF TENDER

Contract 77522

United Boulevard Multi-Use Pathway

SCHEDULE OF QUANTITIES AND PRICES

(see paragraph 5.3.1 of the Instruction to Tenderers) (All Tender and Contract Prices shall NOT include GST. GST will apply upon payment] (Should there be any discrepancy in the information provided, the City's original file copy shall prevail]

ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
1.00	01 58 015	PROJECT IDENTIFICATION				
1.01	(1.3.1)	Construction Zone Information Signs	ea.	2		
2.00	03 30 205	CONCRETE WALKS, CURBS AND GUTTERS				
2.01	(1.4.3)	Concrete Curb & Gutter - Wide Base – MMCD C5	l.m	240		
2.02	(1.4.3)	Concrete Curb - 150mm High Extruded	l.m	8		
2.03	(1.4.5)	Concrete Sidewalk & Walkway Connectors & Wheelchair Letdown - 100mm thick – Broom Finished c/w 100mm Granular Base; and as shown and described in the Contract Documents	sq.m	20		
2.04	(1.4.10)	Tactile Strip - 24x60in - Access Tile, Yellow color - removable type	ea.	6		
3.00	26 56 015	ROADWAY LIGHTING	1			
3.01	1.9.2	Relocate Existing Street Lights and Base as per Contract Drawings	l.s.	1		
4.00	31 11 015	CLEARING AND GRUBBING	1			
4.01	(1.4.1)	Clearing & Grubbing	l.s.	1		
5.00	31 24 135	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION	1			
5.01	(1.8.4)	Removal and Disposal of Existing Concrete Sidewalk and Existing Asphalt (all Depths), including asphalt curb	sq.m	570		
5.02	(1.8.4)	Removal and Disposal of Existing Concrete Curb and Gutter	sq.m	240		
5.03	(1.8.4)	Railway Removal and Excavation Including Offsite Disposal	l.s.	1		
5.04	(1.8.5)	Common Excavation including Off Site Disposal	cu.m	580		
6.00	32 11 16.15	GRANULAR SUBBASE	T	1		
6.01	(1.4.3)	75mm Minus Granular Sub Base, variable thickness (Provisional)	tonne	410		
7.00	32 11 235	GRANULAR BASE	T	1		
7.01	(1.4.3)	19mm Minus Granular Base, variable thickness (Provisional)	tonne	340		
8.00	32 12 165	HOT-MIX ASPHALT CONCRETE PAVING	T			
8.01	(1.5.1)	Asphaltic Concrete Paving - Machine Laid Upper Course #1 - 50mm	tonne	30		
8.02	(1.5.1)	Asphaltic Concrete Paving - Machine Laid Lower Course #1 - 50mm	tonne	30		
8.03	(1.5.3)	Asphaltic Concrete Paving - Machine Laid Upper Course #2 - 50mm MUP & Driveway	tonne	130		
8.04	(1.5.3)	Asphaltic Concrete Paving - Machine Laid Lower Course #2 - 50mm Driveway	tonne	25		
8.05	(1.5.3)	Asphalt Stamping - Concrete Grey with Offset Brick Pattern	tonne	95		
8.06	1.5.4	Asphalt Extruded Curb - 150mm High	tonne	4		
9.00	32 17 235	PAINTED PAVEMENT MARKINGS	•			
9.01	(1.5.3)	Supply & Installation Thermoplastic Pavement Markings	l.s.	1		
9.02	(1.5.3)	Supply & Installation of "Vancouver Green" MMA Paint	l.s.	1		
9.03	(1.5.4)	Remove and Reinstate Existing Signage, Eradicate Existing Markings as per Contract Drawings	ea.	7		
9.04	(1.5.4)	Install New Signage and Sign Structure (City Supplied Signs)	ea.	8		
10.00	32 31 13	CHAIN LINK FENCES AND GATES	<u> </u>			
10.01	(1.5.5)	MOTI 2891-2 Railing	l.m.	65		
10.02	(1.5.4)	Removable Steel Bollards - Model R-901 c/w base receiver. Refer to Appendix B.	ea.	4		
11.00	32 91 215	TOP SOIL AND FINISH GRADING	• T			
11.01	(1.4.1)	Imported Topsoil - 150mm Thick	cu.m	45		
12.00	32 92 195	HYDRAULIC SEEDING	ca m	300		
12.01	1.8.2	Hydraulic Seeding	sq.m	300		

ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
13.00	33 40 015	STORM SEWERS				
13.01	(1.6.5)	Catch Basin/Lawn Basin connection - 150mm SDR28 PVC (including sanded stubs)	l.m	16		
14.00	33 44 015	MANHOLES AND CATCHBASINS				
14.01	(1.5.2)	Top Inlet Catch Basin MMCD S11	ea.	2		
14.02	1.5.4	Removal, Capping & Disposal of Catch Basins	ea.	1		

Total Tendered Price (exclude GST): \$___

(Transfer the amount to Form of Tender Summary Page 1)

Name of Contractor:

FORM OF TENDER

Contract 77522 United Boulevard Multi-Use Pathway

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

INDICATE SCHEDULE WITH BAR CHART WITH CONSTRUCTION DURATIONS

Construction Activity			June				Ju	ly			ŀ	Augus	t	
Weeks	1	2	3	4	5	1	2	3	4	1	2	3	4	5

Substantial Completion Date: **August 31, 2022**

Proposed Disposal Site:

FORM OF TENDER

Contract 77522 United Boulevard Multi-Use Pathway

EXPERIENCE OF SUPERINTENDENT

(See paragraph 5.3.3 of the Instructions to Tenderers)

Proposed Project Superintendent

List of Project Experience

PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone NO:	

PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone NO:	

PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone N0:	

FORM OF TENDER

Contract 77522 United Boulevard Multi-Use Pathway

CONTRACTOR'S COMPARABLE WORK EXPERIENCE (See paragraph 5.3.4 of the Instructions to Tenderers)

PROJECT:	VALUE (\$):	
OWNER:	Phone Number:	
Work Description:		

PROJECT:	VALUE (\$):	
OWNER:	Phone Number:	
Work Description:		

PROJECT:	VALUE (\$):	
OWNER:	Phone Number:	
Work Description:		

PROJECT:	VALUE (\$):	
OWNER:	Phone Number:	
Work Description:		

FORM OF TENDER

Contract 77522 United Boulevard Multi-Use Pathway

SUBCONTRACTORS (See paragraph 5.3.5 of the Instructions to Tenderers)

Trade:	Tender Item:	
Work Description:		
Subcontractor:	Phone No:	

Trade:	Tender Item:	
Work Description:		
Subcontractor:	Phone No:	

Trade:	Tender Item:	
Work Description:		
Subcontractor:	Phone No:	

Trade:	Tender Item:	
Work Description:		
Subcontractor:	Phone No:	

Trade:	Tender Item:	
Work Description:		
Subcontractor:	Phone No:	

FORM OF TENDER

Contract 77522 United Boulevard Multi-Use Pathway

Bid Bond

NO.			
NO.		 	

\$

KNOW ALL MEN BY THESE PRESENTS THAT

As Principal, hereinafter called the Principal, and

As Surety, hereinafter called the Surety, are held and firmly bound unto

As Obligee, hereinafter called the Obligee, in the amount of

Dollars (\$_____) lawful money of Canada, for the payment of which sum, well and truly to be made, the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a written Tender to the Obligee, dated the _____ day of ______, 2022, for Contract ______.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the aforesaid Principal shall have the Tender accepted within sixty (60) days from the Closing Date of Tender and the said Principal will, within the time required, enter into a formal contract and give good and sufficient bonds to secure the performance of the terms and conditions of the Contract, then this obligation shall be null and void; otherwise the Principal and Surety will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the former.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

)

Any suit under this Bond must be instituted before the expiration of six (6) months from the date of this Bond.

IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused these presents to be sealed with its corporate seal duly attested by the signature of its Attorney-In-Fact, this ______ day of ______, 2022.

SIGNED, SEALED AND DELIVERED In the presence of:

PRINCIPAL

SURETY

FORM OF TENDER

Contract 77522 United Boulevard Multi-Use Pathway

CERTIFICATE OF COMPLIANCE for CONTRACT INSURANCE

This is provided for information to certify that the Tenderer does hereby undertake and agree to supply to the City of Coquitlam, upon award, contract insurance listed below for the project requirements indicated:

Contract Number: 77522

Contract Name: United Boulevard Multi-Use Pathway

Description of Work:

- Installation of Approx. 235m of 3.0m Multi-Use Pathway, c/w Stamped Asphalt Buffer Zone
- Removal and Replacement of Approx. 240m of Concrete Curb and Gutter
- Installation of Approx. 65m of MOTI 2891-2 Railing
- Relocation of 3 Street Lights
- Miscellaneous Drainage Works

Other miscellaneous and incidental work as contained in the Contract Documents

Commercial General Liability:	\$5,000,000 limit
Special Coverage Required:	YES NO Special Coverage Description
	()(X) Shoring and Underpinning Hazard
	(X) Pile Driving and Vibrations
	() (X)Excavation Hazard
	() (X) Demolition
	() (X) Blasting

We also certify that the insurance coverage will meet the requirements of the Supplementary General Conditions Section 24 – Insurance, included as part of the Contract Documents, and that the proof of insurance will be provided on the City of Coquitlam Certificate of Insurance form, without amendments, except for the exclusions noted above.

Name of Tenderer (printed)

Authorized Signature

Date



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.)

THIS AGREEMENT made in duplicate this _____ day of ______ 2022.

Contract: United Boulevard Multi-Use Pathway

Reference No. 77522

BETWEEN:

The City of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

(the "Owner")

AND:

(the "Contractor")

The Owner and the Contractor agree as follows:

1 THE WORK - START/COMPLETION DATES

- 1.1 The *Contractor* will perform all *Work* and 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 **August 31, 2022,** subject to the provisions of the Contract Documents for adjustments to the Contract Time.
- 1.3 Time shall be the essence of the Contract.

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*.

3 CONTRACT PRICE

- 3.1 The price for the *Work* (*"Contract Price"*) shall be the sum in Canadian dollars of the following:
 - a) 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
 - b) all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus
 - c) 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*.

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 2% 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.

5 RIGHTS AND REMEDIES

- 5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available hereunder 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*.

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 email, by hand or by fax, or by pre-paid registered mail to the addresses as set out below:

The Owner:

The City of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

Tel: 604-927-3500 Fax: 604-927-3505

The Contractor:

Tel: Fax: Email: Attention:

The Contract Administrator:

The City of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

Tel: Fax: Email: Attention:

- 6.2 A communication or notice that is addressed as above shall be considered to have been received:
 - a) immediately upon delivery, if delivered by hand; or
 - b) immediately upon transmission if sent or received by email or fax; or
 - c) after 5 days from date of posting if sent by registered mail.
- 6.3 The *Owner* or the *Contractor* may, at any time, 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*.

- AGT 4
- 6.4 The sender of a notice by email or fax assumes all risk that the fax will be received properly, and the provisions of paragraph 12.5 of the Instructions to Tenderers Part II apply to the sender.

7 GENERAL

- 7.1 This *Contract* shall be construed according to the laws of British Columbia.
- 7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.
- 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

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 AND POSITION - PRINT)

Owner:

The City of Coquitlam

(MANAGER, DESIGN AND CONSTRUCTION)

Representative as Per G.C. 17

(MANAGER, CAPITAL PROJECTS AND INSPECTIONS)

United Boulevard Multi-Use Pathway

Reference No: 77522

Schedule 1

Schedule of Contract Documents

(INCLUDE IN LIST <u>ALL</u> DOCUMENTS INCLUDING, IF ANY, SUPPLEMENTARY GENERAL CONDITIONS, SUPPLEMENTARY SPECIFICATIONS, SUPPLEMENTARY STANDARD DETAIL DRAWINGS)

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

<u>NOTE</u>: The documents noted with "*" are contained in the "Master Municipal Construction Documents – General Conditions, Specifications and Standard Detail Drawings", edition dated 2009. All sections of this publication are included in the *Contract Documents*.

- 1. Agreement, including all Schedules;
- 2. Supplementary General Conditions, if any;
- 3. General Conditions*;
- 4. Supplementary Specifications, if any;
- 5. Detail Specifications, if any;
- 6. Specifications*;
- 7. Supplementary Detail Drawing, if any;
- 8. Standard Detail Drawings*;
- 9. Executed Form of Tender, including all Appendices;
- 10. Drawings listed in Schedule 2 to the Agreement "List of Drawings", if any;
- 11. Instructions to Tenderers;
- 12. The following Addenda:
 - As issued
- 13. COQUITLAM "Supplementary Specifications Master Municipal Construction Documents" March 2016

United Boulevard Multi-Use Pathway

Reference No: 77522

Schedule 2

LIST OF DRAWINGS

(Complete Listing of All Drawings, Plans and Sketches That Are Part of the Contract Documents)

Bound in this Document:

Appendix A: Traffic Management Plan

Appendix B: Contract Drawings

TITLE	SHEET NO.	DRAWING NO.	REVISION No.	DATE
United Boulevard Multi-Use Pathway Extension	-	-	-	-
GENERAL NOTES & TYP. SECTIONS	01 of 06	21-0536-ND1	3	2022-03-29
ROADWORKS – PLAN & PROFILE	02 of 06	21-0536-R1	3	2022-03-29
ROADWORKS – PLAN & PROFILE	03 of 06	21-0536-R2	3	2022-03-29
ROADWORKS – CROSS SECTION	04 of 06	21-0536-XS1	3	2022-03-29
ROADWORKS – CROSS SECTION	05 of 06	21-0536-XS2	3	2022-03-29
PAVEMENT MARKING AND SIGNAGE	06 of 06	21-0536-PM1	2	2022-03-29

Supplementary General Conditions

SUPPLEMENTARY GENERAL CONDITIONS

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CITY OF COQUITLAM Contract No. 77522		Supplen	nentary General Conditions SGC-3	3
1.0	DEFINITIONS			
1.1	Abnormal Weather	1.1.1	(Replace clause 1.1.1 as follows): Abnormal Weather" means temperature, precipitation, wind o other weather conditions in which the monthly average, differs from the statistical average for that condition in that period by more than one standard deviation, calculated based on data available from Environment Canada. Coquitlam's Burke Mountair Rain Gauge will be used to compare the rainfall summary versus the available data from Environment Canada. <u>City of Coquitlam Rainfall</u>	s y a n
2.0	DOCUMENTS			
2.2	Interpretation	2.2.4 (1)	(Replace clause 2.2.4 (1) as follows): The Contract Documents shall govern and take precedence in the following order as listed in Schedule 1 of the Agreement, taking precedence over all Contract Documents.	
4.0	CONTRACTOR			
4.1	Control of the Work	4.1.1	(Add to clause 4.1.1 as follows): The Contractor is responsible for all survey layout for the construction of the Work to the design specifications and/o elevations as shown on the contract drawings or as amended or site by the Contract Administrator.	r
		4.1.2	(Add to clause 4.1.2 as follows): The Contractor shall not deposit any material upon any street sidewalk, boulevard or other property, without the Contract Administrator's or the Owner's permission, nor shall he allow the same to remain longer than necessary. All surplus spoil and rubbish and other waste material shall be removed from the site so that the area of work is cleaned up and restored to as clean a condition as it was before the Contract started, within four days of the Contract Administrator's written request to do so, failing which the Owner may carry out the work or have the work carried out by others and recover the costs from the Contractor or may deduct the cost from any monies due or that may become due to the Contractor.	t e a s g d y
		4.1.3	(Add new clause 4.1.3 as follows): Work can be performed during the normal weekday working hours of 0700h to 1900h, unless specified otherwise in Supplementary Specifications - Appendix A: Traffic Management Detail Specifications. Written permission from the Contract Administrator will be required for any works to be performed outside of the normal working days of Monday to Friday. No Sunday work will be permitted, except in case of emergency and then only with the written permission of the Contract	n t t d
			Administrator and to such extent as he deems necessary. In case the Contractor decides to work on a day which is a Statutory Holiday, he shall provide the Contract Administrator in	а

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			writing at least (4) days in advance of such holiday, stating those places where said work is to be conducted. In case the Contractor fails to give such notice in advance of any Statutory Holiday, no work within the terms of the contract shall be done on such holiday.
			The cost of inspections on a Sunday or on a Statutory Holiday by City staff/s will be at Contractor's expense.
4.2	Safety	4.2.2	(Add new clause 4.2.2 as follows): In an emergency, gas pipeline rupture or leak, Contact FortisBC's 24 Hour Emergency Line (1-800-663-9911) and Coquitlam Fire (911) immediately and then City of Coquitlam's Utility Control Centre (604-927-6287).
43	Protection of Work, Property and the Public	4.3.1	(Replace clause 4.3.1 as follows): In performing the Work, the Contractor shall protect the Work and the Owner's property and other person's property from damage. The Contractor shall at the Contractor's own expense make good any such damage which arises as the result of the Contractor's operations. If the Contractor causes damage to private property, the Contactor must obtain a written release from the owner of the damaged property.
		4.3.5.1	<i>(Add clause 4.3.5.1 as follows):</i> The Contractor shall notify the Contract Administrator immediately if damage occurs to any City or third party utility or structure.
		4.3.7	(Add new clause 4.3.7 as follows): Any lands other than those upon which the work is to be performed, which may be required for temporary facilities, storage purposes or access to the work site, other than those provided by the <i>Owner</i> , shall be provided by the <i>Contractor</i> at his own cost, with no liability to the <i>Owner</i> .
4.6	Construction Schedule	4.6.1	(<i>Replace clause 4.6.1 as follows</i>): The Contractor shall within the time set out in the Form of Tender prepare and submit to the Contract Administrator for his approval a construction schedule (the Baseline Construction Schedule) indicating the planned start and completion dates of major activities of the Work. The Baseline Construction Schedule shall be in more detail than the Preliminary Construction Schedule and shall indicate completion of the Work in compliance with any specified Milestone Dates, including Substantial Performance.
		4.6.6	(<i>Replace clause 4.6.6 as follows</i>): The time for the performance of the Work shall commence on the date specified in the Notice to Proceed, or if not so specified, on the date the Notice to Proceed is issued. The Notice to Proceed will not be issued until the documentation required under paragraph 5.1.1 of the Form of Tender has been submitted and the construction schedule has been approved.

CITY OF COQUITLAM Contract No. 77522		Supplementary General Conditions		SGC-5
		4.6.8	(Add new clause 4.6.8 as follows): Any requests to lengthen the work schedule sha writing by the Contractor within five working days of the reason for the extension. The Contract Adn adjust the schedule at his discretion upon receip request.	of knowledge ninistrator will
4.7	Superintendent	4.7.4	(Add new clause 4.7.4 as follows): The key personnel named in the Contractor's Ten shall remain in these key positions throughout the event that key personnel leave the Contractor's fi unknown reason are unable to continue fulfilling Contractor must propose a suitable replacemen written consent from the Owner. Acceptance of replacement is at the sole discretion of Administrator and the Owner.	project. In the rm, or for any their role, the t, and obtain the proposed
4.8	Workers	4.8.2	(Add new clause 4.8.2 as follows): The Contractor shall, upon the request of Administrator, remove any person employed by purposes of the Contract who, in the opinion of Administrator, is incompetent or has condu improperly, and the Contractor shall not permit a pu been removed to return to the Place of Work.	y him for the the Contract acted himself
4.9	Materials	4.9.3	 (Add new clause 4.9.3 as follows): The Contractor shall, at his cost, a) Be responsible for storing all of the material the Work either by himself or the Owner, unincorporated into the completed Work; b) Store all materials in a manner which will profrom the weather, dirt, foreign matter, vandated to be supplied by himself or the Owner to delivery will coincide with his work schedules d) Examine with the Contract Administrator the details of all materials supplied by the Owner and place of delivery or those materials alread of Work, and prepare and sign a Statemen Acceptance, specifically noting and rejecting material; e) Replace all materials supplied by himself or during or during response of the to be supplied to be stolen, missing or during the time of defective in which have been supplied by himself. 	atil it has been event damage lism and theft; of all materials o ensure that quantities and er at the time dy at the Place t of Materials any defective or the Owner amaged while
4.11	Subcontractors	4.11.3	(Replace clause 4.11.3 as follows): The Contractor shall, upon notice of the Contract <i>i</i> remove any Subcontractor employed by him for the the Contract who, in the opinion of the Contract Ad incompetent or has conducted himself improp Contractor shall not permit the Subcontractor v removed to return to the Place of Work. The Subcontractor under this clause shall not be consid	ne purposes of Iministrator, is erly, and the vho has been removal of a

	COQUITLAM No. 77522	Suppler	mentary General Conditions SGC
			and the Contract Price and the Contract Time shall not badjusted.
4.12 Test a	Test and Inspections	4.12.1	(Replace clause 4.12.1 as follows): The Contractor shall perform or cause to be performed all test inspections and approvals of the Work as described in th Contract Documents or a required by the Contract Administrate as part of Quality Control. The Contractor shall complete all th necessary testing at the frequencies described in the Contra Document unless otherwise approved by the Contra Administrator. Acceptable test and inspection results will not relieve th Contractor of its obligations under the Contract to correct defect or deficiencies in the Work.
		4.12.11	(Add clause 4.12.11 as follows): Failure to follow DFO/FLNRO BMPs and the approved permit for Instream Works or as instructed by Contract Administrator w result in shut-down of the work. The Contractor must take a steps to mitigate impacts to aquatic resources, environment ar habitats before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shu down.
4.14	Final Clean-up	4.14.1	(Replace clause 4.14.1 as follows): Prior to applying for Substantial Performance, the Contractor shall remove all surplus products, tools, construction machine and equipment relating to the Work that is not required for the performance of the remaining Work. The Contractor shall als remove waste, debris and waste products other than caused be the Owner or Other Contractors, and leave the Place of Wo clean and suitable for occupancy by the Owner unless otherwise specified in the Contract Documents or directed by the Contra Administrator.
4.16	Notice of Disruption	4.16.2	(Add new clause 4.16.2 as follows): Written notice must be provided to all properties which may be physically affected by the construction not less than one we and not more than two weeks prior to construction.
			Notify occupants directly affected by the work 48 hours advance of commencement of construction. Cost of notifyin area occupants of ensuing construction and delivery of the notices is incidental to the Contract.
7.0	CHANGES		
7.1	Changes	7.1.3	(Replace clause 7.1.3 as follows): Additional work that the Owner may wished performed that do not satisfy the requirements of subparagraphs (a) and (b) of G 7.1.1 is extra work (Extra Work) and is not a Change. Pursuant a GC 8, Extra Work may be declined by the Contractor or may, upo agreement between the parties, be undertaken as Extra Work.

CITY OF COQUITLAM Contract No. 77522		Supplem	entary General Conditions	SGC-7
7.4	Optional Work	7.4.2	(Add new clause 7.4.2 as follows): If there are Optional items or Provisional items inc Schedule of Quantities and Prices, those items shall as directed and at the sole discretion of th Administrator through the issue of a Change Order. will be paid at the contract unit price as part of regu payments. Only quantities used will be eligible for p claim will be accepted for unused Optional or quantities. Clause 9.4 Quantity Variations will not b for these items.	be used only ne Contract These items Ilar progress ayment. No Provisional
9.0	VALUATION OF CHANGES AND EXTRA WORK			
9.2	Valuation Method	9.2.4	(Replace clause 9.2.4 as follows): Once a quotation is accepted by the Contract Admi other agreement reached between the Contract A and the Contractor regarding adjustments to the Co or Contract Time on account of a Change or Extr Contractor shall not be entitled to claim or receiv payment, or adjustment to the Contract Time on a Change or Extra Work.	dministrator ontract Price a Work, the e additional
9.4	Quantity Variation	9.4.1	(Replace clause 9.4.1 as follows): If for any reason, including an addition or deletion 7.1.1(1) or 7.1.1(2) respectively, the actual quantity of item varies by more than plus or minus the Variance Percentage from the estimated quantity for that un listed in the Schedule of Quantities and Prices (Quantity") or as otherwise agreed to pursuant to the Documents, then either the Owner or the Contrac- written notice request the other party to agree to a price, considering the change in quantities. A party request for a revised unit price as soon as reasona after the party concerned becomes aware of the variation.	f a unit price ce Threshold it price item the "Tender ese Contract ctor may by revised unit shall make a ubly possible
		9.4.2	(Delete clause 9.4.2 (2)	
10.0	FORCE ACCOUNTS			
10.1	Force Account Costs	10.1.1(1)	(Add to clause 10.1.1(1) as follows): Costs for the Contractor's Superintendent, Projec Health and Safety Personnel, and Office/Administrat not eligible for labour costs as those costs are incidental to the mark up owing for overhead and lab	ion Staff are considered
		10.1.1(4)	(Replace clause 10.1.1(4) as follows): Force Account Work performed by a subcontractor is for in the lesser of: (i) the amount provided by subpa (2) and (3) of this GC, plus a mark-up of 5%, or (i amount the Contractor pays the subcontractor inclu up of 10% on such actual costs to cover all overhead	ragraphs (1), i) the actual ding a mark-

CITY OF COQUITLAM Contract No. 77522		Supple	mentary General Conditions	SGC-8
12.0	HAZARDOUS MATERIALS			
12.2	Discovery of Hazardous Materials	12.2.2	(Replace clause 12.2.2 as follows): If the Contract Administrator observes any mater of Work that the Contract Administrator knows of be Hazardous Materials, then the Contract Admi immediately give written notice to the Contra Contractor shall immediately stop the Work or Work as required by GC 12.2.1(1).	or suspects may ninistrator shall ractor and the
13.0	DELAYS			
13.1	Delay by Owner or Contract Administrator	13.1.2	 (Add new clause 13.1.2 as follows): The Owner may at any time suspend the work thereof provided he gives the Contractor five (5 notice of delay. The Contractor shall resume wo notice from the Owner. The Contractor shall be e a) An extension of the Contract time equivale of suspension of work. b) Reimbursement by the Owner for directly pocket additional costs, reasonably a incurred by the Contractor as a result of suspension of profits or overhead. 	5) days' written rk upon written ntitled to: nt to the length related out-of- nd necessarily uch suspension.
13.3	Unavoidable Delay	13.3.1	(Add to clause 13.3.1 as follows): Beyond the reasonable control of the Contractor pandemic or community outbreak	or also includes
13.8	Direction to Stop or Delay	13.8.3	(Add new clause 13.8.3 as follows): The Contract Administrator may order the Con work if at any time the Contract Administrator is that there exists a danger to life or property.	
13.9	Liquidated Damages for Late Completion	13.9.1	 (Replace clause 13.9.1 as follows): If the Contractor fails to meet the Milestone Date Performance as set out in the Form of Tender, p may be adjusted pursuant to the provisions of Documents, then the Owner may deduct from an to the Contractor for the Work: (1) An amount of \$1,000.00 for each calenda Substantial Performance is achieve Substantial Performance Milestone Date (2) All direct out of pocket costs, such as of security or equipment rental, reasonably Owner as a direct result of such delay. If the monies owing to the Contractor are less amount owing by the Contractor to the Owner u then any shortfall shall immediately, upon writt the Owner, and upon Substantial Performance, be by the Contractor to the Owner. 	aragraph 2.2 as of the Contract y monies owing ar day the actual ed after the ; plus costs for safety, incurred by the than the total nder (1) and (2) cen notice from

CITY OF COQUITLAM Contract No. 77522		Supple	mentary General Conditions SGC
18.0	PAYMENT		
18.1	Preparation of Payment Certificate	18.1.1	(Replace clause 18.1.1 as follows): The Contract Administrator shall prepare and issue a certification for the period ending the last calendar day of the month.
18.4	Holdbacks	18.4.2	(Add to clause 18.4.2 as follows): At the sole discretion of the Contract Administrator, an amou equivalent to 10% of the contract award value or 200% of reasonable estimate, whichever is higher, may be held withour interest until all deficiencies have been remedied and accept by the Contract Administrator.
18.6	Substantial Performance	18.6.5	(Replace clause 18.6.5 as follows): The Owner may release any builders lien holdback on the 56 day following the date of Substantial Performance, or other da as required by law, but the Owner may hold back the amounts any deficiencies or filed builders liens as provided in 18.4.2, 18.4.3 and 18.4.4.
		18.6.6	(Replace clause 18.6.6 as follows): The Contract Administrator, as defined herein, shall be to Payment Certifier responsible under Section 7 of the Builders Li Act for certifying Substantial Performance of the Work of to Contractor, but not the Work of Subcontractors. The Contract shall cooperate with and assist the Contract Administrator providing information and assistance in a timely manner as to Contract Administrator considers necessary to carry out to duties of the Payment Certifier for the Contract.
			The Contractor shall be the Payment Certifier responsible und Section 7 of the Builders Lien Act for certifying Substant Performance of the Work of each Subcontractor. Prior certifying completion for a Subcontractor, the Contractor sh consult the Contract Administrator and obtain the Contra Administrator's comments on the status of completion by the Subcontractor, including any deficiencies or defects in the Subcontractor's Work noted by the Contract Administrator. The Contractor will indemnify and save the Owner harmless from a and all liability the Owner may have to anyone arising out of the Subcontractor.
			Notwithstanding any other provision of the <i>Contract</i> , payments will be due or owing to the <i>Contractor</i> so long as a Li filed by anyone claiming under or through the <i>Contractor</i> remaregistered against the Project of any lands, or interest therein, which <i>Work</i> for the project was performed. Failure of t <i>Contractor</i> to remove all Liens promptly will entitle the <i>Owner</i> damages.

21.0 WORKERS COMPENSATION REGULATIONS

CITY OF COQUITLAM Contract No. 77522		Supplementary General Conditions		SGC-10
21.2	Contractor is "Prime Contractor"	21.2.1	(Add to clause 21.2.1 as follows): Prior to the issuance of the "Notice to Proceed" the Contrac must provide a signed "Prime Contractor Designation" form provided in Appendix IV of these Supplementary General Conditions.	
24.0	INSURANCE		(Replace section 24.0 as follows):	
24.1	24.1 General	24.1.1	Importance of Prompt Attention to Insurance Requiremen The Contractor shall provide the Owner with satisfa evidence that the insurance required to be provided unde GC is in full force and effect.	actory
		24.1.2	Acceptable Insurance Carriers: The insurer issuing any policy, or other document whi evidence of insurance to the Contractor, shall be an in licensed by the Superintendent of Insurance in the Provin British Columbia and registered with the Departmer Insurance for Canada in Ottawa, except the Insur Corporation of British Columbia, which is not subject to condition.	nsurer nce of nt of rance
:	24.1.3	Owner's Right to Change Terms: Notwithstanding anything contained in the Contract Docum the Owner will have the right to request a change to the spe terms and conditions respecting insurance at the sole opti the Owner. The Contractor will be notified in writing o changes required by the Owner and will provide a quotatic such work.	cified ion of of any	
		24.1.4	Delivery of Insurance Documents: All insurance policies or other acceptable specified docum shall be delivered to, and accepted by, the Owner before Contract Documents are signed. <u>No work shall be commence</u> the Contractor or by anyone acting on the instructions of Contractor, until the required Insurance Documents have accepted by the Owner and the Contract Documents have duly signed by the Owner and the Contractor.	e the <u>ed by</u> of the been
		24.1.5	Owner's Right to Insure: Should the Contractor for any reason not comply with specified requirements with respect to the insurance, the O will, at the Owner's option, have the right to purchase all o part of such insurance which, in the opinion of the Owner, be required to provide the specified insurance, and, in the of so doing, the Owner will have the right to pay the prem for such insurance and to withhold the amount of premium paid from any amount due and payable to the Contractor of the Contract.	Owner or any , may event niums ms so
24.2	Required Insurance	24.2.1	General Damage to work (excluding Building Contracts where Se 24.3, Paragraph 24.3.1, Further Responsibilities of Contra applies).	

The Contractor shall be responsible for any and all loss, or damage, whatsoever which may occur on or to the works, completed or otherwise, until such time as the entire works have been completed and the Notice of Acceptance has been issued by the Owner, except that loss or damage caused solely by an act of the Owner. In the event of any loss or damage occurring, the Contractor shall, on notice from the Contract Administrator, immediately put the works into the condition it was immediately prior to such loss or damage, all at the

Contractor's expense, except where such loss or damage was caused solely by an act of the Owner.

The Contractor shall be responsible for any and all loss or damage whatsoever which may occur on or to the works, completed or otherwise, arising out of the negligence of the Contractor, any subcontractors, and the employees or agents of any of them.

24.2.2 Public Liability Insurance:

(Other than Automobile Third Party Liability Insurance):

Evidence of Insurance:

The Contractor shall deposit with the Owner, before the work commences, a Certificate of Insurance, signed by an authorized representative of the insurer, such certificate to be as shown in Appendix III.

Effective Dates and Terms:

The effective date of the Certificate of Insurance shall be the date of the execution of the Contract Agreement and the term of this policy shall be from such effective date until a date not less than twelve (12) months after the date of Substantial Performance completion of all work under the Contract.

Limits of Liability:

For bodily injury and for property damage shall be inclusive limits not less than \$5,000,000.

24.2.3 **Public Liability Insurance (Automobile):**

The Contractor shall deposit with the Owner before the work commences a Certificate of Insurance with respect to owned automobiles on ICBC Form No. APV 47 entitled "Confirmation of Insurance Coverage" and with respect to Non-Owned Automobiles including hired automobiles and Contractual Liability on ICBC non-owned automobile policy Form APV 29 (if non-owned automobile coverage is not included under the comprehensive general liability coverage) each signed by an authorized representative of the Insurance Corporation of British Columbia.

24.3.1

24.3 Physical Loss or Damage With Respect to New Buildings under Construction and/or Major Additions to Existing Structures

Responsibility for Placing Insurance:

The types of insurance required under this section will be provided and maintained at the expense of the City of Coquitlam during the term of the Contract and will be as follows unless otherwise changed by specific endorsement to these Insurance Specifications.

24.3.2 Insurance Coverage Required:

Builders Risk Completed Value "All Risks" Course of Construction Insurance. This policy will be written in the names of the City of Coquitlam and the Contractor with loss payable as their respective interests may appear.

24.3.3 Responsibility of Contractor – Limitations of cover and deductibles:

The insurance provided by the City of Coquitlam as described herein will not provide the Contractor with full protection against any and all kinds of loss or damage which may arise out of the Contract. It is, therefore, the responsibility of the Contractor to fully understand the scope of the cover provided with particular attention to the exclusions, limitations of cover and deductible provisions contained in the Insuring Agreements of the policies and it is further the responsibility of the Contractor to take out at the Contractor's expense, whatever other additional insurance the Contractor may consider necessary or desirable for his protection subject as hereinafter provided. The Contractor shall act in the same manner on insurance made available through the City of Coquitlam as he would if he had arranged such insurance himself.

24.3.4 **Responsibility of Contractor – Direct Damage Insurance:**

If the Contractor fails to do all or anything that is required of him concerning insurance, the City of Coquitlam may do what is required and any monies expended by the City of Coquitlam for that purpose shall be repayable and recoverable from the Contractor. Should any action, failure or negligence of the Contractor result in higher insurance costs being incurred by the City of Coquitlam, such additional costs shall be payable or recoverable from the Contractor.

24.3.5 Responsibility of Contractor – Machinery and Equipment Belonging to Others:

Unless otherwise directed by the City of Coquitlam in writing, the Contractor shall carry insurance covering loss or damage to construction machinery, tools and equipment owned by and/or on bare rental from a third party or parties and used by the Contractor in performing the work, which insurance shall be in a form satisfactory to the City of Coquitlam and having coverage in accordance with the actual cash value of such construction machinery, tools and equipment. Such policies shall also provide for subrogation to be waived against the City of Coquitlam. A certified copy of the policy shall be delivered to the City of Coquitlam not later than thirty days after the commencement of work under the Contract.

24.3.6 Contractor's Waiver of Liability to Coquitlam:

The Contractor hereby releases the City of Coquitlam from any and all liability for damages to the extent that such damages are covered by the course of construction insurance referred to in Section 24.3 of these specifications.

24.3.7 Liability of Contractor:

Neither the providing of insurance by the Contractor or the City of Coquitlam in accordance with the requirements hereof, nor the insolvency, bankruptcy, nor failure of any insurance company to pay any claim accruing shall be held to waive any of the provisions of this Contract with respect to the liability of the Contractor or otherwise.

24.3.8 Responsibility of Contractor for protection of work, persons and property:

The Contractor and all persons employed by the Contractor or under his control, and all employees and subcontractors, shall use due care that no person or property is injured, and that no rights are infringed in the prosecution of the work. Contractors shall take particular care to protect the work against loss or damage caused by riot, vandalism or malicious mischief and shall be at the expense of the Contractor provide all necessary safeguards in the form of watchmen and/or watch dog protection to prevent loss or damage of this type. The payment of deductibles is the responsibility of the Contractor and if not paid by the Contractor such amounts shall be deducted by the City of Coquitlam from payment due to the Contractor. These deductibles will normally be \$250.00 each claim.

24.3.9 Action to be taken in the event of loss or damage to the work covered by the Contract:

When any loss or damage occurs to the work or to any materials and supplies on the site of the work, the Contractor shall remove any and all damaged or destroyed property and shall rebuild or replace the damaged or destroyed work, materials, or supplies and complete the work to the satisfaction of the Owner. For such removal, rebuilding, or replacing, the Contractor shall be entitled to receive from the Owner the amount of insurance monies received by the Owner pursuant to the said adjustment which amount shall be paid to the Contractor as the work of rebuilding or replacing proceeds, and in accordance with the Agreement. Damage or destruction of the whole or any part of the work shall not affect the rights and obligations of either party under the Agreement, except that in such event the Contractor shall be entitled to such reasonable extension of time to complete the work as the Architect and/or Contract Administrator may decide.

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		24.3.10	 Further responsibility of Contractor: Other than with respect to loss or damage arising out of insured risks and herein before specified, the Contractor shall be responsible for all loss or damage whatsoever which may occur on or to the works completed or otherwise, until such time as the entire works have been completed and the Notice of Acceptance has been issued by the Owner, except that loss or damage caused solely by an act of the Owner. In the event of any loss or damage occurring, the Contractor shall on notice from the Owner immediately put the works into the condition it was immediately prior to such loss or damage, all at
			the Contractor's expense except as previously stated.
		24.3.11	Owner Not Responsible for Loss or Damage or Loss of Use of Property of Contractors and their Employees: The Owner will not be responsible for securing or paying for insurance of any kind other than as specified in Section 24.3 of these specifications nor will the Owner have any responsibility whatsoever for loss or damage from whatever cause occurring to property owned, leased, or otherwise in the possession of the Contractor, subcontractors or their employees including, without restricting the generality of the foregoing, machinery, equipment, tools, supplies, and clothing at the construction site or elsewhere including loss of use of same.
24.4	Additional Insured	24.4.1	The Contractor shall ensure the following are named as "additional insured" on the liability policy for this contract:
			The City of Coquitlam
			The City may identify private properties that are directly affected by construction. If so, the Contractor shall include the legal owners of these properties named as "additional insured" on the liability policy for this contract.
25.0	MAINTENANCE PERIOD		
25.1	Correction of Defects	25.1.4	(Add new 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 or may be deducted from the Maintenance Security, or other holdbacks. The Contractor shall promptly pay any shortfall.

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27.0	CONTRACTOR PERFORMANCE EVALUATION	27.1	(Add new clause 27.1 as follows): After the completion of the Contract, the Cevaluated on their performance of the Work. The provide percentage scores on the following cat	The evaluation will
			1. Contract Administration	
			2. Construction Management	
			3. Schedule Management	
			4. Communications	
			5. Resource Management and Contracto	or Performance
			6. Quality Management	
			An evaluation summary report may be issued with scores for each of these categories. U Contractor may attend a meeting with the C evaluation.	Jpon request, the
			This internal evaluation may be reviewed subsequent tenders with the City. Evaluation so	

of the tender analysis and influence contract award decisions. Evaluation Scores in categories that are below 50% may result in

a suspension of tendering privileges with the City.

APPENDIX I

PERFORMANCE BOND

NO.

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KNOW ALL MEN BY THESE PRESENTS THAT

As Principal, hereinafter called the Principal, and

As Surety, hereinafter called the Surety, are held and firmly bound unto

As Obligee, hereinafter called the Obligee, in the amount of

lawful money of Canada, for the payment of which sum, well and truly to be made, the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a written contract with the Obligee, dated the_____

day of______20____, for

in accordance with the drawings and specifications submitted, therefore, which contract, drawings and specifications and addenda thereto, to the extent provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Principal shall promptly and faithfully perform said Contract (including any addenda thereto, provided such addenda do not collectively increase the amount to be paid to the Principal by more than twenty per cent (20%) of the amount of the Contract except with the written consent of the Surety) then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

Whenever the Principal shall be, and declared by Obligee to be, in default under the Contract, the Obligee having performed Obligee's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- 1. Complete the Contract in accordance with its terms and conditions, or
- 2. Obtain a bid or bids for submission to Obligee for completing the Contract in accordance with its terms and conditions, and upon determination by Obligee and Surety of the lowest responsible bidder, arrange for a contract between such bidder and Obligee and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this

SGC-17

paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term 'balance of the contract price', as used in this paragraph, shall mean the total amount payable by Obligee to Principal under the Contract less the amount properly paid by Obligee to Principal.

Any suit under this Bond must be instituted before the expiration of two (2) years from date on which the Notice of Acceptance under the Contract is issued.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

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No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Obligee named herein or the heirs, executors, administrators, or successors of Obligee.

IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused these presents to be sealed with its corporate seal duly attested by the signature of its Attorney-in-fact, this _____ day of ______20____.

SIGNED, SEALED and DELIVERED In the presence of

PRINCIPAL

SURETY

APPENDIX II

LABOUR AND MATERIAL PAYMENT BOND
(Private Contracts – Trustee Form)
NO \$
Note: This Bond is issued simultaneously with another Bond in favour of the Obligee conditioned for the full and faithful performance of the Contract.
KNOW ALL MEN BY THESE PRESENTS THAT
As Principal, hereinafter called the Principal, and
As Surety, hereinafter called the Surety, are, subject to the conditions hereinafter contained, held and firmly bound unto
As Trustee, hereinafter called the Obligee, for the use and benefit of the Claimants, their and each of their heirs, executors, administrators, successors and assigns in the amount of
 Dollars) lawful money of Canada, for the payment of which sum well and truly to be made, the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns jointly and severally, firmly by these presents.
SIGNED AND SEALED thisday of, 20
WHEREAS, the Principal has entered into a written contract with the Obligee dated theday of , 20, for
which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.
NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Principal shall make payment to all

Claimants for all labour and material used or reasonably required for use in the performance of the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

 A Claimant for the purpose of this Bond, is defined as one having a direct contract with the Principal for labour, material, or both, used or reasonably required for use in the performance of the Contract, labour and material being construed to include the part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment directly applicable to the Contract provided that a person, firm or corporation who rents equipment to the Principal to be used in the performance of the Contract under a contract which provides that all or any part of the rent is to be applied towards the

purchase price thereof shall only be a Claimant to the extent of the prevailing industrial rental value of such equipment for the period during which the equipment was used in the performance of the Contract. The prevailing industrial rental value of equipment shall be determined, insofar as it is practical to do so, in accordance with and in the manner provided for in the latest revised edition of the publication of the Canadian Construction Association entitled "Rental Rates on Contractors' Equipment" published prior to the period during which the equipment was used in the performance of the Contract.

- 2. The Principal and the Surety hereby jointly and severally agree with the Obligee as Trustee that every Claimant who has not been paid as provided for under the terms of his contract with the Principal before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labour was done or performed or materials were furnished by such Claimant, may as a beneficiary of the trust herein provided for, sue on this Bond, prosecute the suite to final judgment for such sum or sums as may be justly due to such Claimant under the terms of his said contract with the Principal and have execution thereon. Provided that the Obligee is not obliged to do or take any act, action or proceeding against the Surety on behalf of the Claimants or any of them to enforce the provisions of this Bond. If any act, action or proceeding is taken either in the name of the Obligee or by joining the Obligee as a party to such proceedings then such act, action or proceeding shall be taken on the understanding and basis that the Claimants or any of them who take such act, action or proceeding shall indemnify and save harmless the Obligee by reasons thereof. Provided still further that subject to the foregoing terms and conditions, the Claimants or any of them may use the name of the Obligee to sue on and enforce the provisions of this Bond.
- 3. No suit or action shall be commenced hereunder by any Claimant:
 - a) unless such Claimant shall have given written notice within the time limits hereinafter set forth to each of the Principal, Surety and Obligee, stating with substantial accuracy the amount claimed. Such notice shall be served by mailing the same by registered mail to the Principal, Surety and Obligee at any place where an office is regularly maintained for the transaction of business by such persons or served in any manner in which legal process may be served in the Province or other part of Canada in which the subject matter of the contract is located. Such notice shall be given (i) in respect of any claim for the amount or any portion thereof required to be held back from the Claimant by the Principal under either the terms of the Claimant's contract with the Principal or under the Mechanic's Liens Legislation applicable to the Claimant's contract with the Principal whichever is the greater within one hundred and twenty (120) days after such Claimant should have been paid in full under the Claimant's contract with the Principal; (ii) in respect of any claim other than for the holdback or portion thereof referred to above within one hundred and twenty (120) days after the date upon which such claimant did or performed the last of the work or labour or furnished the last of the materials for which such claim is made under the Claimant's contract with the Principal.
 - b) after the expiration of one (1) year following the date on which Principal ceased work on the Contract including work performed under guarantees provided in the Contract.
 - c) Other than in a court of competent jurisdiction in the Province or District of Canada in which the subject matter of the Contract or any part thereof is situated and none elsewhere, and the parties hereto agree to submit to the jurisdiction of such court.
- 4. The amount of this Bond shall be reduced by and to the extent of any payments made in good further and in accordance with the provisions which may be filed of record against the subject matter of the Contract, whether or not claim for the amount of such lien be presented under and against this Bond.
- 5. The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

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IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused these presents to be sealed with its corporate seal duly attested by the signature of its Attorney-in-fact the day and year first above written.

SIGNED, SEALED and DELIVERED	
In the presence of	

PRINCIPAL

SURETY

APPENDIX III

CERTIFICATE OF INSURANCE

This Certificate issued to the City of Coquitlam is to certify that policies of insurance, as described below, have been issued to the Insured named below and are in force at this time. It is understood and agreed that thirty (30) days' prior written notice by registered mail of any material alterations, transfer, assignment or cancellation of any of the policies listed below, either in part or in whole, will be given to the holder of this Certificate.

A.	This Cert	ificate is iss	ued to:	Named Insured and Mailing Address:
			quitlam dford Way 1, BC V3B 7N2	
В.	CONTRA	CT NUMBER	AND/OR NAME	Description of the Work:
C.	INSURAN	ICE POLICY		
	Name of I	nsurer:		
	Policy Nu	mber:		Liability Limit:
	Effective	Date:		Expiry Date:
D.	COMMER with the a	bove-describ	LIABILITY coverage is required to ed project, including liability arisir	insure against liability from the activities arising out of operations or work in connection g out of the use of City property. ive per occurrence against bodily injury, personal injury and property damage.
D.2	The City o	of Coquitlam,	its employees, officers, agents ar	the volunteers are added as Additional Insureds, but only with respect to operations conducted the above-described project, operations or work.
D.3	-			oquitlam, its employees, officers, agents and volunteers as Additional Insureds.
D.4	Any dedu			the policy shall not apply to the City of Coquitlam and shall be the sole responsibility of
D.5 D.6	The insurance shall include the following coverages:D.5.1Cross Liability ClauseD.5.2Non-Owned Automobile LiabilityD.5.3Unlicensed Automobile LiabilityD.5.4Blanket Contractual LiabilityD.5.5Broad Form Property Damage LiabilityD.5.6Owner's & Contractor's Protective LiabilityD.5.7Products & Completed Operations LiabilityIndicate provision of special coverage for this project as required by the City:YESNOSpecial Coverage Description			
D.7	() () () () ()	(X) (X) (X) (X) (X) ()	Shoring and Underpinning Pile Driving and Vibrations Excavation Hazard Demolition Blasting PROFESSIONAL LIABILITY II	Hazard ISURANCE for Consultant Service Agreements
		Profession	nal Liability Insurance on term	in for the duration of the <i>Services</i> as described in the Agreement, at its own cost, s and from an insurer satisfactory to the City of Coquitlam. cy shall insure the <i>Consultant's</i> legal liability for errors, omissions and negligent acts,
			, i i i i i i i i i i i i i i i i i i i	0 per Claim and \$1,000,000.00 Aggregate.
				Authorized Signature and Stamp
Date				Name and Title

City' broker to return to City Representative

Department

Coouitlam

APPENDIX IV

PRIME CONTRACTOR DESIGNATION

Subject:Prime Contractor DesignationContract #:77522Contract Name:United Boulevard Multi-Use Pathway (the "Project")

(the "Contractor") represents, acknowledges and agrees that:

- 1. in accordance with section 118 of the Workers Compensation Act, R.S.B.C. 1996, c. 492 (the "Workers Compensation Act"), the Contractor shall be the "Prime Contractor" and is qualified to act as the "Prime Contractor" in respect of the Project;
- the Contractor accepts the duties and responsibilities for coordination of health and safety in accordance with the Workers Compensation Act and further agrees that it will do everything necessary to establish and maintain a system or process that will insure compliance with the Workers Compensation Act and the Regulations thereto;
- 3. the Contractor shall fulfill all the obligations of an "Owner" under section 119 of the Workers Compensation Act in respect of the Project site; and
- 4. that the City of Coquitlam has fulfilled its obligations as an "Owner" under section 119 of the Workers Compensation Act, in respect of the Project site.

Prime Contractor Name & Address:

Prime Contractor Signature

Date

Print Name

Please return a signed copy of this memo to the City of Coquitlam. If you have any questions, please contact the City's Health and Safety Advisor at 604-927-3068.

Supplementary Contract Specifications

Supplementary Specifications

to the MASTER MUNICIPAL SPECIFICATIONS Volume II – Platinum Book

United Boulevard Multi-Use Pathway

CONTRACT 77522

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The following Supplementary Specifications are to be considered part of the Specifications. These Supplementary Specifications take precedence over the Master Municipal Specifications.

SUPPLEMENTARY CONTRACT

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1.00	CONTRACT SPECIFIC INSTRUCTIONS				
1.01	Coordination of Work	The Contractor shall be responsible to consult with the Coast Mountain Bus Company (CMBC) regarding delays, detours, temporary bus stop closures and any other works affecting the transit service in the area.			
		Contractor shall be responsible to coordinate work with other contractors working on different project/s in the area. Contractor cannot be at the same work zone area as these other contractors.			
		The work between stations 1+051 to 1+078 is located within private property. The owner has no objections to the work taking place however the successful contractor will be required to follow the below conditions:			
		 Before work commences a site orientation meeting will be held. A detailed construction schedule and review of contractor safety rules must be presented at the site orientation meeting to the property owner. Contractor must provide WorkSafe BC clearance letters to adjacent property owner at the site orientation meeting. Contractor must provide proof of insurance and have the adjacent property owner, Stella-Jones Inc., listed as "Additional Insured". 			
1.02	Outside Agency Approval	In accordance with the Contract Documents, the Contractor is responsible to consult with and obtain any approval required to meet and comply with all the conditions required from outside agency such as, but not limited to, BC Hydro, FORTIS BC GAS, Telus, Trans Mountain Pipeline in the area of the place of Work where applicable.			
1.03	Cooperation with Emergency and Maintenance Activities	 The Contractor will be responsible to cooperate with regular maintenance or emergency vehicles and staff for access to the site when required including: Fire, Police, and Ambulance Waste Management (garbage pick-up) City Utilities Maintenance (or representatives) City Parks and Recreation Maintenance (or representative) 			
1.04	Waste Collection Coordination	 Contractor is responsible to accommodate all waste collection vehicles and cart pick up schedules throughout construction. If waste collection will be impacted the contractor is responsible to: Provide advanced notification to: The City's Solid Waste staff at 604-927-3500 or wastereduction@coquitlam.ca; and The City's Contract Administrator. Provide access for collection trucks to closed streets due to road work; or Move waste carts for collection:			

Questions: wastereduction@coquitlam.ca

PPLEMENT. NTRACT		SECTION 00 72 4 States of the second	
CIFICATIO	NS	CONTRACT SPECIFIC NOTATIONS 20	
1.05	FORTIS BC Emergency Protocol	In an emergency, gas pipeline rupture or leak, Contact Fortis BC 24 Hour Emergency Line (1-800-663-9911) & Fire Department (911) immediately and then City of Coquitlam's Utility Control Centre (604-927-6287).	
1.06	Lane Closure Restrictions	Refer to: Appendix A: Traffic Management Detail Specifications.	
1.07	Survey Layout	Construction layout will be the responsibility of the Contractor. The Contract Adnminsitrator will provide AUTOCAD Drawings to the Contractor.	
1.08	Temporary Asphalt Pavement Restoration	The Contractor will be required to backfill all trenches (in paved areas) and place a temporary patch (50mm of hot mix asphalt), as per Coquitlam Standard Drawing CO G4, the same day excavation is made, unless otherwise approved by the Contract Administrator.	
1.09	Verification of Dimensions and Quantities	Before proceeding with work visit site and check and verify dimensions and quantitie Report variations between drawings and site conditions to the Contract Administrate before proceeding with work.	
1.10	Approved Materials	Refer to City of Coquitlam website (Coquitlam.ca/specifications) for the <i>List of Approved Materials and Products</i> which are to be incorporated into the work.	
1.11	Precautions	Protect areas under construction from damage caused by excessive erosion, flooding heavy rains, etc. Repair or replace unprotected damaged areas as directed by the Contract Administrator at no cost to the Owner.	
2.00	CONSTRUCTION ACTIVITY		
2.01	Construction Materials in Sewer Manholes and Pipe	The Contractor is responsible to ensure that construction activities do not deposit construction materials (e.g. gravels) into the storm sewer or sanitary sewer manhole or pipe. The City has a video record of the pipe before construction. Prior to Substantial Completion, the City may again video inspect the lines to ensure no problems exist due to construction activities under this contract. If problems are encountered, the Contractor will be responsible for the cost of the video and all cos associated with the cleaning of the pipe.	
2.02	Site Clean-up During Construction and End of Construction	The Contractor will be responsible for the complete clean-up of the work site during construction & at the end of construction <u>and prior to the Substantial Performance</u> <u>review</u> . This work is considered incidental to the Contract.	
		The work will include cleaning of all catch basins periodically or as directed by the Contract Administrator within the Work area, or nearby location as affected by the Work. All cleaning is to be performed by <u>vacuum truck to the satisfaction of the Contract Administrator</u> and will include off-site disposal of waste material.	
3.00	MANDATORY MEETINGS AND CONTRACTOR REPRESENTATIVES AND SUBCONTRACTORS		
3.01	Pre-Construction Meeting Requirements	After the Award of the Contract, the Contractor (Project Manager & Superintendent will be required to attend a Pre-Construction Meeting with the Contract Administrat and provide all necessary information required by the Contract Administrator prior t provision of a Notice to Proceed. Items required to be provided at the meeting include:	
		 A Detailed Construction Schedule showing the start date & completion data and the durations of major work components showing how all work will be completed within the Contract Duration. Proof of insurance 	
		 Performance Bond and Labour and Materials Payment Bond WCB Clearance Letter and copy of Notice of Project 	

JPPLEMENTARY DNTRACT	SECTION 00 72 43 SS 4		
PECIFICATIONS	CONTRACT SPECIFIC NOTATIONS 2022		
	 City of Coquitlam Business License A copy of portions of your Health and Safety Plan including the Title Page, Table of Contents, COVID19 Prevention Policy and portion showing latest revision date. 		
3.02 Contract Schedule, Contract Duration, and Charges	A detailed, realistic construction schedule for this project will be required to be presented at the pre-construction meeting. The schedule must show major components and durations.		
	All work under this project is to be completed within the designated Contract Duration as contained in the signed Contract Agreement , or as formally amended.		
3.03 Pre-Paving Site Meeting	The Contractor will be required to have a pre-paving meeting with their paving staff, on-site, just prior to paving to provide instruction regarding the existing grading and requirements for the paving process and the end product.		
	The Contractor must provide information to the Contract Administrator, for review, regarding proposed paving elevation control method, mat thickness control method, and rolling patterns.		
	The Contractor Administrator must be in attendance at this meeting.		
	It will be the responsibility of the Contractor's Contract Superintendent to ensure continuity between the base preparation and the paving process.		
3.04 Contract Superintendent and Subcontractors	In compliance with the MMCD General Conditions, Section 4.7, Superintendent , the Contractor shall have a competent senior representative, (the "Superintendent") in FULL TIME attendance at the Place of Work while work is being performed for the duration of the contract.		
	This (FULL TIME) attendance is also required when work is being performed by Subcontractors.		
	Work done by Subcontractors is to be directed by the Superintendent and monitored on site ensuring conformance to the Contract Documents and other particular direction to the Superintendent by the Contract Administrator.		
	The Owner is not responsible for the direction of Subcontractors.		
3.05 Changes of Contractor Representatives & Subcontractors	The Superintendent and Subcontractors indicated in the Form of Tender shall not be changed unless: 1. The Owner requests a replacement		
	The Contractor submits an application for a change, in writing, to the Contract Administrator with the change being approved in writing.		

SUPPLEMENTARY CONTRACT SPECIFICATIONS		PROJ	ECT RECORD DOCUMENTS	SECTION 01 33 01S SS 5 2022
1.0	GENERAL			
1.3	Submission	Delete 1.3.2 and replace with the following	Submit one copy of an accurate project re form prior to applying for Substantial Perf video report. Record documents to include for Construction Drawings, new elevation, i walkways/sidewalks, all utilities, manhole vaults and valve boxes affected by the work	ormance including any changes in the Issued nverts & location of al e rim, catchbasin rim
			The Contract Administrator will not aut holdbacks until record documents have accepted.	

END OF SECTION

These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings File #: 11-5330-20/77522/1 Doc #: 4412808.v1

SUPPL CONTF	EMENTARY RACT	SECTION 01 45 00S SS 6	
SPECIFICATIONS		QUALITY CONTROL 2022	
1.0	QUALITY	The Contractor shall provide a final product conforming to the Contract Documents and the intent of the work.	
		The work is to be accurate to the dimensional and tolerance requirements of the contract	
		Payment will be subject to adjustments based on quality assurance tests performed by the Contract Administrator.	
1.1	Quality Control (QC) by Contractor	The MMCD (2009) definition of "Quality Control" is the process by which the <i>Contracto</i> checks specific materials, products, and workmanship to ensure strict conformance with the Contract Documents.	
		The Contractor is fully responsible for quality control of the materials, production, and construction processes.	
		Quality control tests shall be performed by the Contractor, at their own expense, to ensure that products meet the contract specifications.	
		Failure by the Contractor to conduct adequate quality control testing during production and construction will negate the Contractor's ability to appeal the quality assurance test used for acceptance/rejection of the work.	
		Under no circumstances will QC test results produced after completion of the Qualit Assurance (QA) results be considered for appeal purposes	
		Any changes in the Work with respect to the location, grade, or line shall be approved in advance by the Contract Administrator. Failure to notify the Contract Administrator o changes in writing may result in rejection of Work.	
1.2	Inspection of Work, Quality Assurance, and Material Testing, by the	The MMCD (2009) definition of "Quality Assurance" means the process by which the <i>Owner</i> evaluates if the work is being constructed in accordance with the Contrac Documents. This definition will be used for this contract	
	Owner	The <i>Contract Administrator</i> will provide construction review through spot inspections and spot materials testing for Quality Assurance.	
		Any materials testing results indicating a non-conformance to the Contract Document will require construction corrective action by the <i>Contractor</i> .	
		All subsequent testing to corrective action to verify conformance to the Contrac Documents will be the full responsibility of the <i>Contractor</i> .	
		Inspection review by the Owner will not relieve the Contractor from providing a produc that meets or exceeds the requirements of the Contract Documents.	
1.3	Inspection	Materials testing shall be as described in MMCD General Conditions, Section 4.12 with the following change:	
		Delete Section 4.12.2(a) and insert the following:	
		Where the MMCD specification clauses for Inspection and Testing indicate the Contract Administrator will arrange for all testing for work described in this section will be amender to read The Contractor will arrange for and pay for all testing for work described in this section. The testing shall take place at the following prescribed rates and as directed b the contract administrator. The contract administrator has the authority to call for testing up to the rates and frequencies specified, at the Contractors cost.	

SUPPLEMENTARY CONTRACT	SECTION 01 45 00S			
SPECIFICATIONS	SS 7 QUALITY CONTROL 2022			
	All testing covered under this item shall be performed by a CSA certified laboratory and technicians with copies of all test results to be sent directly to the Contract Administrator. Re-testing resulting from failed first tests shall be at the Contractors expense.			
1.4 Survey Layout	All Survey Layout will be completed by the Contractor in accordance with the Contract Drawings and Coordinate System set out within them. The Contractor will be provided digital AutoCAD files but shall be responsible to confirm elevations and tie in locations and report any discrepancies prior to construction.			
1.5 Testing	Contractor shall carry out inspection and testing (QC) to ensure compliance with Contract Documents. Contractor shall submit test results within one week of testing to the Contract Administrator.			
	The Contractor shall provide test results prior to the preparation of the payment certificate			
1.6 Contractors Responsibilities	 Furnish labour and facilities to: Provide access to work to be inspected Facilitate inspections and tests Make good work disturbed by inspection and tests 			
1.7 Access to Work	Allow inspection testing agencies access to Work.			
1.8 Tests	Test rates and frequencies (excluding failed tests), when not defined in the MMCD or Detail Specifications Sections shall be at the following frequencies:			
	 Trench Backfilling and Compaction 1.1 Compaction: 1 test / 25 lm / 300mm lift 1.2 Sieve: 1 test / placed material / 50 m³ 			
	 2. Granular Base 2.1 Compaction: 1 test / 500m² / 100mm depth of granular base 2.2 Sieve: 1 test / placed material / 250 TONNES 			
	 3. Granular Subbase 3.1 Compaction: 1 test/500m² / 200mm depth of granular subbase 3.2 Sieve: 1 test / placed material / 250 TONNES 			
	 4. Embankment (Subgrade) 4.1 Compaction: 1 test/ 50m² / 300mm depth of fill 4.2 Sieve: 1 test / placed material / 100 TONNES 			
	 5. Asphalt 5.1 Marshall test: test per 250 TONNES placed, per mix specified, min. 1 / day ASTM D1559, D3203, C117, C136 5.2 Superpave: test per 250 TONNES placed, per mix specified, min. 1 / day CAI-SP2, ASTM D3203, C117, C136 5.3 Cores: 1 per 500 m²/lift 5.4 Continuous asphalt density testing during paving. 			
	 6. Subgrade Preparation 6.1 Compaction & Moisture: 1 test / 500 m² 			
	7.Concrete Tests 7.1 Air, Slump & 1 Set Cylinders: 1 test / 10 m ³ , min. 1 set / day			
1.9 Measurement for Payment	Payment for all work performed under this section will be incidental to payment for work described in other Sections			
	END OF SECTION			

SUPPLE CONTR/	MENTARY		SECTION 01 55 00S SS 8	
SPECIFICATIONS		TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING2022		
1.0	GENERAL	Add 1.0.6	The <i>Contractor</i> is responsible for all temporary traffic control on the streets required for completion of the work. The <i>Contractor</i> will be responsible to provide a Traffic Management Plan (TMP) for approval (5) five working days prior to any lane closures taking place. TMP is to be prepared by a professional certified by the American Traffic Safety Services Association.	
			The TMP shall outline the approach to traffic management, show recognition and minimization of risks indicates signing locations, identify Traffic Control Persons (TCP) stations, show lane shifting and proposed closures.	
			The Contractor is responsible to ensure and maintain all business/residential vehicles, cyclists and pedestrian accesses open at all times. The contractor may provide temporary accesses if the affected owner agrees. All costs associated with temporary accesses will be at the contractor's expense.	
		Add 1.0.7	A Road and Sidewalk Closure Permit is required from Coquitlam for all work affecting pedestrian and traffic flow related to construction. A permit is required for each specific construction interference with pedestrian and traffic flow. The road and sidewalk closure permit form can be obtained for use from the City's website at <u>http://www.coquitlam.ca</u> . The Contractor must follow the approved TMP. Any changes to this TMP must be submitted to City's Traffic Operations for approval.	
			A Road and Sidewalk Closure Permit is required for each instance of closure and will be valid for a maximum period of one (1) week and, if still necessary, re-submittal of a Road and Sidewalk Closure Request is required.	
			The Contractor must take the above information into account in the preparation and submission of the Tender.	
			Costs to complete the works taking the above restrictions into consideration shall be ncluded in the prices bid in the Schedule of Quantities and Prices.	
		Add 1.08	Refer to Appendix A – Traffic Management Detail Specifications	
1.4	Traffic Control	Delete 1.4.1 and replace with the following	The Contractor shall conduct his operations so as to cause the minimum obstruction and inconvenience to traffic and to places of business and residences adjacent to the Place of Work. No greater quantity of work shall be undertaken at any one time than can be properly conducted with due regard to the rights and interests of the public as may be determined by the Contract Administrator.	
			The Contractor is to provide at all times safe and convenient means of approach and entrance to adjoining lanes, driveways, buildings and property both for vehicles and pedestrians to the satisfaction of the Contract Administrator. For this purpose, he shall construct and maintain suitable and safe platforms, approaches, structures, bridges, diversions or other works.	
			Where traffic must cross open trenches, the Contractor shall provide suitable bridges. Where trenches have been backfilled or where road improvements are incomplete the Contractor shall take any steps necessary to prevent potholes or other traffic hazards. Where	

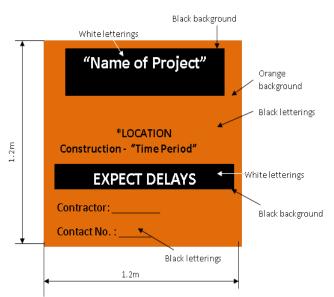
SUPPLEMENTARY CONTRACT		SECTION 01 55 00S SS 9	
SPECIFICATIONS	TRAFFIC CONTR	TROL, VEHICLE ACCESS AND PARKING 2022	
		the Contract Administrator so instructs or where Contract Specifications so require, the Contractor shall provide temporary asphalt patching of such hazards.	
	Add 1.4.9.3.1	The <i>Contractor</i> , as required by the <i>Contract Administrator</i> and the City, is to supply Construction Zone information signs (stationary), refer to MMCD 01 58 01 for the required identification signage.	
		The <i>Contractor</i> is responsible for the removal of the signs at the completion of the work.	
	Delete 1.4.10.1.3 and replace with the following	When workmen or equipment are employed over travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.	
1.5 Measureme Payment	t for Delete 1.5.1 and replace with the following	Payment for all work, unless included in the Schedule of Quantities and Prices, performed under this section will be incidental to payment for work described in other Sections.	

END OF SECTION

1.0	GENERAL		
1.0.3	Erosion and Sediment Control Supervisor	Add 1.0.3	The Erosion and Sediment Control (ESC) Supervisor is the Qualified Professional who is experienced in implementing ESC Plans and who is responsible for the inspection and monitoring of ESC Facilities to ensure these are installed and maintained in accordance with the ESC Plan, and if necessary, are modified during construction to ensure compliance with the Stream and Drainage System Protection Bylaw No. 4403, 2013.
1.2	Temporary Erosion and Sediment Controls	Delete 1.2.1 and replace with the following	Properly drain all portions of the site. Protect the site and the watercourses to which it drains, directly or indirectly, against erosion and siltation in accordance with a Sediment Control Plan under the City of Coquitlam Stream and Drainage System Protection Bylaw No. 4403, 2013 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 <i>Contractor</i> 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.
			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 any 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 settlement.
			Sweep streets, and clean catch basins, manhole sumps, detention tanks, and maintain siltation controls as often as the <i>Contract Administrator</i> and the City deems necessary.
			Follow all Federal and Provincial regulations and guidelines respecting protection of fish, fish habitat, and watercourses.
			Follow Best Management Practices for Amphibian and Reptile Salvages in British Columbia (2016). Contractor is to assist the QEP in conducting an amphibian and reptile sweep of the area prior to start of work.
		Delete 1.2.2.2 and replace with the following	Do not operate construction equipment in watercourses.
1.4	Environmental Protection	Add 1.4.3.5	Immediately contain and clean up any leaks and spills of prohibited materials at the <i>Place of Work</i> .
		Add 1.4.3.6	Ensure that a well-stocked spill kit is on-site at all times and that the <i>Contractor</i> 's employees are familiar with appropriate spill response techniques.
		Add 1.4.3.7	Immediately notify the <i>Contract Administrator</i> and the City of any leaks or spills of prohibited materials that occur at the <i>Place of Work</i> .
		Add 1.4.3.8	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.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		ENV	SECTION 01 57 01S SS 11 RONMENTAL PROTECTION 2022
		Add 1.4.3.9	Ensure that no equipment fueling or servicing is conducted within 15 metres of a stream.
1.6	Measurement and Payment	Delete 1.6.1 and replace with the following	Payment for all work, unless included in the Schedule of Quantities and Prices, performed under this section will be incidental to payment for work described in other Sections.
1.9	Archaeological / Historical Resources Chance Find Procedure	Add 1.9	Immediately cease work and informa the Contract Administrator and the City, if any archealogical or historical resources are encountered during construction. Leave these resources in place and do not disturb them in any way.

1.3 Measurement and Payment Delete 1.3.1 and replace with the following Payment for the installation of 1.2m x 1.2m static construction notification signs (shown below) includes all posts, supply, placement & removal, and all labor, material and equipment required to complete the work. Unless idenitifed in the Schedule of Quanities, payment will be incidential to work described in other sections.



Refer to Appendix A – Traffic Management Detail Specifications for details.

Add 1.3.2

Payment for changeable message signs (CMS) includes supply, placement, communication management & removal as required for traffic & pedestrian safety, and as described in Schedule of Quanities, and in Appendix A – Traffic Management Detail Specifications.

END OF SECTION

	MENTARY		SECTION 03 30 205
CONTRA SPECIFI	ACT CATIONS	CONCRET	SS 13 E WALKS, CURBS AND GUTTER 2022
1.4	Measurement and Payment	Delete 1.4.3 and replace with the following	Payment for machine placed or hand formed C5 wide base concrete curb & gutter or extruded concrete curb, excluding granular base, includes supply and placing of the concrete curb and gutter and will cover all straight and curve sections and will be made separately for each specified type.
			Payment for granular base under curb and gutter will be made unde payment items in Section 32 11 23S, Granular Base.
		Delete 1.4.5 and replace with the following	Payment for concrete sidewalks, driveways, walkways, infills and a concrete ramps, excluding granular base, includes supply and placing of the concrete, subgrade preparation under the concrete sidewalks, in-fills, driveways and walkways, boulevard restoration (topsoil and seed), and will be made separately for each specified thickness and type of finish.
			Payment for granular base will be made under payment items in Section 32 11 23S, Granular Base.
		Add 1.4.10	Payment for Truncated Dome Detectable or Tactile Warning Surfac Indicator Tile for the specified type or for Tactile Walking Surfac Indicator Wayfinding Tile includes supply and placing of replaceabl cast in place - Yellow Color, or as described in Schedule of Quantitie and Prices, and installation as per the Manufacture's Specifications
2.1	Materials	Delete 2.1.5.1 and	Hand-formed and hand-placed concrete:
		replace with the following	Slump: 80mm Air entrainment: 5 to 8%. Maximum aggregate size: 20mm. Minimum cement content: 335 kg/m3. Minimum 28 day compressive strength: 32 MPa.
		Add 2.1.7	Tactile warning surface tile shall be replaceable cast-in-place style Truncated domes shall be in square grid pattern with a 5 mr nominal raised height, base diameter of 23 mm and top diameter of 11.5 mm. Dome spacing range shall be between 40 mm – 60 mm.
			Color of the panel shall be Federal Yellow (Y) per US Federal Standar 595B Table IV, Color No. 335.
			Minimum size of the panel shall be 600 mm by 1200 mm or a described in the Schedule of Quantities and Prices.
3.0	EXECUTION		
3.5	Concrete Placement	Delete 3.5.9 and replace with the following	The <i>Contractor</i> is responsible for adjusting all utility manhole frame and valve boxes, belonging to Coquitlam and/or other agencies tha are affected by the road works. All adjustments to utilities must b completed to the satisfaction of the utility owner. Riser rings will no be accepted.
			The <i>Contractor</i> should note that certain utility owners may decide t complete their own adjustments. The <i>Contractor</i> will be required t cooperate with any utility company providing their ow adjustments.
			The <i>Contractor</i> shall be responsible to contact the appropriate utilit company within a minimum of seventy-two (72) hours of the work No adjustment shall be made without the written approval of th utility company. <u>All manholes must be vertically adjusted a minimur of twenty four (24) hours prior to concrete placement.</u>

Expansion Joints Delete 3.9.1 and replace with the following

3.9

Form transverse expansion joints at both ends of curb returns and at maximum spacing of 9.0 m for sidewalks, 30.0 m of curb and gutter, at each end of driveway crossing, at tangent point of circular work, and on either side of catch basins.

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 26 56 01S SS 15 ROADWAY LIGHTING 2022
1.0	GENERAL		
1.3	Shop Drawings	Delete 1.3.4 and replace with the following	Shop drawings for pole structures, where required, to be sealed by a Professional Engineer registered in British Columbia.
1.4	Electrical Energy Supply	Add 1.4.4	The Electrical <i>Contractor</i> shall process a letter of application to the City of Coquitlam for the Utility Company and attain all required permits.
1.5	Contractor Qualifications	Add 1.5.3	All on-site traffic signal installations shall be under the responsibility of a primary journeyman electrician with IMSA Level 1 Roadway Lighting Certification and have a minimum of three (3) years experience maintaining and installing street lighting systems. This primary journeyman electrician is expected to be on the work site and report work progress to City of Coquitlam's Traffic Operations staff, in addition to reporting to the <i>Contract Administrator</i> .
1.6	Permits and Tests	Add 1.6.4	<i>Contractor</i> shall provide the BC Safety Electrical Permit, and arrange all inspections with the City. The inspection entails, but not limited to, Coquitlam's Street Lighting Inspection Report, which can be obtained from Coquitlam's Traffic Operations staff.
		Add 1.6.5	<i>Contractor</i> to obtain approval of all buried portions of the installation from the City Inspector before any backfill is commenced.
1.8	Record Drawings	Add 1.8.2	Final payment(s) will be withheld until record drawings are received.
1.9	Measurement and Payment	Add to 1.9.1	Lump sum payment for roadway and pedestrian lighting includes supply and installation of all labor, equipment and materials required to complete the installation as specified in the contract and/or shown on Contract Drawings. Payment includes import backfill and all work as described in Clause 1.9.2.
2.0	PRODUCTS		
2.1	General	Delete 2.1.2 and replace with the following	All products supplied to be new, in accordance with <i>Contract Documents</i> . All products are to meet Canadian Electrical Code requirements and be certified by either CSA, UL©, or Intertek Testing Systems (Warnock Hersey) and be supplied with the certifier's label.
		Delete 2.1.3 and replace with the following	All products shall be in accordance with the City of Coquitlam's List of Approved Materials and Products List. Any products not listed with in the Approved List shall default to the current BCMOTI specification.
		Delete 2.1.5 and replace with the following	Equipment models listed within the City of Coquitlam's List of Approved Materials and Products shall be confirmed with the City immediately prior to their order to ensure that they are current. Cut- sheets, equipment make, model and serial number list to be provided to the City by the <i>Contractor</i> .
2.2	Conduit	Add 2.2.1.3	All exposed metallic surfaces to be hot dip galvanized.
2.3	Trench marker Tape	Add 2.3.2	Detectable (Magnetic) marker tape shall be used in all trenches containing interconnection (communications) conduit.

	MENTARY		SECTION 26 56 01S SS 16	
CONTRACT SPECIFICATIONS		ROADWAY LIGHTING 2022		
2.6	Concrete Bases	Add 2.6.2	Maximum of four (4) conduits shall enter the base of a luminaire pole, however more than four (4) may enter a service base.	
2.8	Conductors and Cables	Add 2.8.5	 .1 Minimum conductor size to be as follows, unless specified otherwise on <i>Contract Drawing</i>: .1 No 6 AWG for feeder conductors in conduit. .2 No 8 AWG for bond conductors in conduit. .3 No 12 AWG for luminaire conductors in poles. 	
			.5 No 12 Awo for furniture conductors in poles.	
2.9	Conductor Tags	Delete 2.9 and replace with the following	Refer to the City of Coquitlam's List of Approved Materials and Products.	
2.11	Fuses and Fuse Holders	Delete 2.11 and replace with the following	Refer to the City of Coquitlam's List of Approved Materials and Products.	
2.13	Receptacles	Add 2.13.3	Receptacles shall have a spring loaded cast aluminum covers.	
		Add 2.13.4	Refer to the City of Coquitlam's List of Approved Materials and Products.	
2.14	Luminaires	Add 2.14.6	Refer to the City of Coquitlam's List of Approved Materials and Products.	
2.19	Service Panels	Add 2.19.1	Type 40A 120/240V, 60A 120/240V roadway lighting and 100A 120/240V combination roadway lighting / traffic signal, per <i>Contract Drawing</i> to include items listed within the 2009 MMCD Section 34 41 13 - Traffic Signals - 2.11.2	
		Add 2.19.2	Refer to the City of Coquitlam's List of Approved Materials and Products.	
2.20	Wire Anti-Theft Devices	Add 2.20.1	Handhole access shall utilize security covers with reinforced backing bars.	
3.0	EXECUTION			
3.1	General	Add 3.1.5	During the installation of the lighting system, maintain the existing system as noted on the <i>Contract Drawing</i> . If temporary or permanent relocations of related lighting equipment are required, such equipment shall be reinstated as required under the <i>Contract Documents</i> or as directed by the <i>Contract Administrator</i> .	
3.3	Concrete Bases	Add 3.3.7	Concrete service bases detailed on Standard Detail Drawings CE1.3 and CE1.4, Type C1 and C3 service bases shall have five (5) conduits. See Coquitlam Standard Detail Drawing SS-E7.3.	
		Add 3.3.8	All concrete bases shall be pre-cast concrete only, unless noted on <i>Contract Drawing</i> or directed by the <i>Contract Administrator</i> .	
3.4	Junction Boxes and Vaults	Delete 3.4.1 and replace with the following	Install junction boxes as shown on Standard Detail Drawings E2.2 to E2.4. Install vaults as shown on Coquitlam Standard Detail Drawing SS-E2.5.	
		Add 3.4.5	Bell end fittings shall be installed in all conduits entering junction boxes or vaults.	

CONTRA			SECTION 26 56 01S \$\$ 17
SPECIFI	CATIONS		ROADWAY LIGHTING 2022
		Add 3.4.6	All junction boxes shall be provided with RPVC bars to suppor electrical connections and fuse holders. The RPVC bars shall be attached into the junction box side walls with the electrica connections/fuse holders tie-wrapped in place and installed in the up-right position.
		Add 3.4.7	Junction boxes requiring 3 or more sections must be approved by the City of Coquitlam's Traffic Operations staff.
3.5	Underground Conduit	Delete 3.5.2 and replace with the following	Minimum cover over conduits to be 600 mm in boulevard areas and 900 mm in roadway areas.
		Delete 3.5.3 and replace with the following	Place trench marker tape 300 mm above installed conduit in trench Trench marker tape not required for conduits installed via trenchles technology.
		Delete 3.5.5 and replace with the following	Empty conduits shall have a No. 8 HB Yellow/Green Mk pull strin and capped at both ends.
		Add 3.5.6	Conduit run shall contain no more than the equivalent of $4 - 90$ degree bends.
		Add 3.5.7	Conduits shall be blown out with compressed air, from both ends necessary, then swabbed out to remove stones, dirt, water an other material which may have entered during installation.
		Add 3.5.8	All conduits entering poles and cabinets shall be sealed with "Duc Seal".
		Add 3.5.9	Conduit depth of bury to be recorded when a trenchless technolog method is used.
		Add 3.5.10	Conduit shall not be bent in the field. Only factory bends will b accepted.
3.7	Electrical	Delete 3.7.2 and replace with the following	Mount electrical service panels in service base or on poles as show on Standard Detail Drawings E7.2, E7.6 to E7.9, as well as Coquitlar Standard Detail Drawings SS-E7.3 to SS-E7.5.
3.8	Wiring	Delete 3.8.3 and replace with the following	Make conductor splices in handholes. See Standard Detail Drawin E7.11 for splice details.
		Delete 3.8.6 and replace with the following	Wire each luminaire and receptacle separately from the base of pole
		Delete 3.8.7 and replace with the following	Neatly arrange and bundle wiring in junction boxes, pole handhole and service panels. Conductor connections in all access points to b installed in the up-right position, allowing for easy access
		Delete 3.8.11 and replace with the following	Bond all luminaires and receptacles with No. 12 RW90 green conductor, and steel junction box lids with No. 8 RW90 green conductor.
3.9	Pole Mounted Receptacle	Delete 3.9.1 and replace with the following	Pole mounted receptacles to be installed as detailed on the <i>Contrac</i> <i>Drawing</i> and Coquitlam Standard Detail Drawings SS-E7.19 to SS E7.23.

CONTRA	MENTARY ACT CATIONS		SECTION 26 56 01S SS 18 ROADWAY LIGHTING 2022
3.10	Luminaires and Photocells	Add 3.10.4	NEMA wattage label shall be visible at the bottom of the luminaire on all fixtures.
3.11	Grounding & Bonding	Add 3.11.5	Ground plates and grounding conductors are to have a minimum of 5 meters clearance between them and other utility grounding.
		Add 3.11.6	Remove all paint around bonding studs on inside of pole to expose the galvanized or metal surface prior to bonding equipment.
3.13	Pole Finish Application	Delete 3.13 and replace with the following	.1 Prior to producing a powder finish product the supplier must provide a Certificate of Compliance indicating that they have met or exceeded the following specifications. The supplier will name their independent testing agency and this information will be submitted to the City for their files.
			.2 The application process will be as follows:
			.1 The pole or product will be hot dip galvanized.
			.2 Powder will only be applied after the product is completely fabricated. No welding or bending will take place after the powder is applied.
			.3 The pole or product will be thoroughly cleaned by brush blasting in accordance with SSPC-SP7. The brush blast will maintain a minimum profile of 0.5 mils. If brush blasting is done off site then the product will be covered and shielded from any dirt or moisture during its return to the powder applicators facility. Where poles or products are not kept clean and dry or have any signs of flash rust they will be returned for further brush blasting.
			.4 Once at the applicators facility the pole or product will be thoroughly cleaned and dried with an air gun. All hand marks or grease spots will be cleaned with a mild solvent.
			.5 After brush blasting the entire pole or product will be pre- baked in an oven at 220 degrees C for at least 30 minutes to 1 hour, depending on steel thickness. The pre-baking must be done to prevent out-gassing during the curing cycle.
			.6 The base powder coat will then be applied electrostatically while the pole or product is cooling from the 220 degrees C pre-bake period to allow the powder to melt and fuse to the surface. The base coat will be a minimum of 3 mils in thickness.
			.7 After base coat is applied and set the topcoat will be applied to a thickness of 3 to 5 mils. The pole or product will be returned to the oven and heated to 190 to 220 degrees C (temperature will not exceed pre-bake) for a minimum of 25 minutes, depending on steel thickness. Thicker product material may require longer bake cycles to fully cure. Upon removal of the pole or product from the oven it will be left to rest until the pole or product is cool enough to the touch.
			.8 Once the topcoat has cured and the poles or product cooled, they will then be individually wrapped (min 4" overlapping method) with 1/8" foam wrap over the entire pole or product. The poles or product will be bundled together and separated with suitable wood dunnage to avoid contact between the poles, product or other bundles. All bundles themselves will be fully wrapped with foam and with stretch-wrap as noted above. The poles or

These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings File #: 11-5330-20/77522/1 Doc #: 4412808.v1

SUPPLEMENTARY CONTRACT	SECTION 26 56 01S SS 19
SPECIFICATIONS	ROADWAY LIGHTING 2022
	products will be handled and shipped with great care t prevent damage; damaged product will be cause for rejection of the item(s).
	.3 Testing process will be as follows:
	.1 Each run of product in an oven will have at least on sample tested for:
	.2 Adhesion – The finished powder surface will hav minimum pull-off strength exceeding 1000 PSI as tested i accordance with ASTM D4541.
	.3 Quality – The finished powder surface will be free from an holidays (skips or misses) as tested in accordance wit ASTM D4541. The product will also be free from wrinkles orange peel, cracking, pinholes, fish eyes, blisters, etc b visual inspection.
	 .4 Color – The color will be verified to be within 3 DE c specialized color.
	.5 An independent firm such as CanSpec Testing who ar qualified to test powder finish will do the testing at th supplier's expense. The result of tests must accompany th

- qualified to test powder finish will do the testing at the supplier's expense. The result of tests must accompany the Certificate of Compliance and will be made available to the City or their representative upon request. A supplier who fails to test product as noted above will have their product rejected until the testing is completed and the product deemed acceptable by the testing agency.
- .6 Where the tested product fails on a given production run then a minimum of 30 % of the entire production run will be tested. If no other failures are found then the individual failed product will be stripped, reapplied and re-tested until it passes. If any of the 30% of product tested fails then the entire order will be stripped, reapplied and retested until it passes.
- .4 Field repairs will be undertaken as required to fix any scratches or imperfections in the final finish. Field repairs will be done as follows:
 - .1 Feather the damaged area with sandpaper.
 - .2 Clean area with solvent.
 - .3 Let dry.
 - .4 Neatly brush on an application of Aliphatic Urethane Acrylic Semi-Gloss High Build applied at 2-4 mils DFT over the entire sanded and damaged area. The ambient conditions will be dry and over 10 degrees C when the paint is applied.
 - .5 The pole supplier will warranty the integrity of the surface for a minimum of 1 year from the date of installation. The warranty will include all labour and materials required to provide replacement product if required. The powder finish will be the responsibility of the pole supplier. The warranty will apply to fading, blistering, cracking or chipping of the surface.

2.0	PRODUCTS			
2.3	Pit Run Gravel	Add to 2.3.2	The use of recycled concrete sh Administrator and the City prior to	all be approved by the <i>Contract</i> o use.
		Add 2.3.3	material, conforming to the speci	caminated and other extraneous fied gradations may be used as pit millings shall be approved by the ty prior to use.
2.7	Granular Pipe Bedding and Surround Material	Add to 2.7.1	All recycled or other extraneous materials shall be approved b <i>Contract Administrator</i> and the City prior to use.	
2.10	Granular Base	Delete 2.10.2		
		Add 2.10.3	All 25 mm minus granular base is to gradation specifications:	o conform to the following
			Sieve Designation (mm)	Percent Passing (%)

Sieve Designation (mm)	Percent Passing (%)
25	100
19	80-100
12.5	75-90
9.5	50-85
4.75	35-70
2.36	25-50
1.18	15-35
0.30	5-20
0.075	0-5

Add 2.10.4

The intention of the Gradation Chart is to identify the desired mix of size of aggregate in the granular base. The Target Percentage Passing is the middle of the shown Range.

Tests that show sieve values of Percent Passing that are consistently low or consistently high in two (2) or more consecutive tests will be considered to be non-conforming.

2.11 Recycled Aggregate Material Delete 2.11.1 and replace with the following

Aggregates containing recycled material may be utilized if approved by the Contract Administrator and the City. In addition to meeting all other conditions of the specifications, recycled material should not reduce the quality of the construction achievable with quarried materials. Recycled material shall consist only of aggregates, crushed portland cement concrete, or asphalt that is free of impurities.

END OF SECTION

SUPPLEMENTARY CONTRACT SPECIFICATIONS		CL	SECTION 31 11 01S SS 21 EARING AND GRUBBING 2022
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Payment for all clearing and grubbing will be made at lump sum price and include removal and disposal of all branches, stumps, trees, debris, hedges, timbers, logs and vegetation to complete the work and as shown on the Contract Drawings or as directed by the Contract Administrator. Works include cutting of branches & falling of trees affected by Work to create the necessary clearance to accommodate the construction and intended function of the Work, and as shown on Contract Drawing.
			Payment includes trimming of small branches from trees or hedges as required to provide 1m offset clearance from back of proposed MUP, branch cutting/pruning to have a clean cut flush to branch collar and use of an approved tree paint to repair damage to surviving vegetation where branches have been removed.
			Existing grass and top soil removal will be paid under Common Excavation, less the portion under Grubbing as defined in Clause 1.2.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 31 11 41S SS 22 SHRUB AND TREE PRESERVATION 2022	
JFLCIII	CATIONS	51110	
1.3	Measurement and Payment	Delete 1.3.1 and replace with the following	Payment for all work, unless included in the Schedule of Quantities and Prices, performed under this section will be incidental to payment for work performed in Section 31 11 01S.
2.0	PRODUCTS		
2.1	Materials	Add 2.1.10	Protective Fencing: Posts - Pressure treated wood 100 mm dia.; Post to be 1.8 m to 2.0m in height at 2.0 m O.C. Snow fence as per Coquitlam Approved Products List; Flagging Tape - 4" Orange glow - 'Tree Retention Area'.
2.0	EXECUTION		
3.1	Existing Trees	Add 3.1.7	The <i>Contractor</i> is responsible to minimize damage to all trees which are to remain.
		Add 3.1.8	The <i>Contractor</i> will be responsible for all claims and costs including the cost of examination by an Arborist, repair, removal and replacement of trees, as required by the Arborist, the <i>Contract</i> <i>Administrator</i> and the City for tree damage where proper notification was not received from the <i>Contractor</i> . Damage will be assessed based on the International Society of Arboriculture Guidelines. The term shall be for a period of one year following the date of Substantial Performance of the <i>Work</i> .
		Add 3.1.9	Place protective fencing/barricades as per Coquitlam Standard Detail Drawings COQ-R26, where identified on the Contract Drawings. <i>Contractor</i> shall maintain fence in good condition during construction
		Add 3.1.10	When work is to be performed inside fenced areas, <i>Contractor</i> shall take care to avoid damage to existing vegetation. Work to be done inside areas of existing vegetation to be retained includes:
			.1 Removal of isolated trees as directed by the <i>Contract Administrator</i> and the City.
			.2 Selective pruning and tree removal at edges to create tidy and well-shaped forest edge.
			.3 Placing planting soil and planting of trees.
		Add 3.1.11	Do not park, service or fuel vehicles within the vegetation retention areas.
3.4	Pruning	Add 3.4.2	Do not cut roots or branches of retained trees without approval of the <i>Contract Administrator</i> and the City.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		EVENUATING	SECTION 31 23 01S SS 23 TRENCHING AND BACKFILLING 2022
		EXCAVATING, TRENCHING AND BACKFILLING 20	
1.0	GENERAL		
1.8	Limitations of Open Trench	1.8.1 Replace last sentence with the following	If circumstances do not permit complete backfilling of all trenches, and where permitted by the <i>Contract Administrator</i> and the City, adequately protect all open trenches or excavations with approved fencing or barricades and, where required, with flashing lights.
2.0	PRODUCTS		
2.2	Use of Specified Materials	Delete 2.2.1.2	Delete Pit Run Sand
		Delete 2.2.3.3	Delete Pit Run Sand
3.0	EXECUTION		
3.3	Excavation	Delete 3.3.1.2 and replace with the following	Connections to existing waterworks systems are to be made by the <i>Contractor</i> under the inspection / supervision of the <i>Contract Administrator</i> and the City.
3.6	Surface Restoration	Delete 3.6.2.4 and replace with the following	Restore lawns with approved topsoil and sod to match existing lawn.
		Delete 3.6.3.1 and replace with the following	Restore surface with a minimum 100 mm of 19 mm granular road base material.
		Delete 3.6.7.5 and replace with the following	Restore Pavement as detailed on Coquitlam Standard Detail Drawing COQ-G4. Temporary patch shall be a minimum thickness of 50 mm thickness. Permanent restoration to existing asphalt thickness (minimum of 75 mm) with a 35 mm key where existing thickness permits. A 50 mm key is required on Arterial and Collector Roadways. Dry if necessary and paint clean, dry edge with asphalt emulsion (tack coat).

SUPPLEMENTARY CONTRACT				SECTION	SS 24			
SPECIFIC	CATIONS	ROADWAY EXCAVA	OADWAY EXCAVATION, EMBANKMENT AND COMPACTION 2022					
1.8	Measurement and Payment	Delete 1.8.4 and replace with the following	Payment under this item w components included in this shown on the Contract Drawin Administrator. No payment wil of these components as pa excavation, and such removal w	item under a separate op ngs or as directed by the II be made under this item art of the operation fo	peration as Contracto for remova r commor			
			Payment will be made at th Schedule of Quantities and Pr equipment required to complet It is the responsibility of the utilities.	rices and will include all I te the work, including offsi	abour, and te disposal			
		Delete 1.8.5 and replace with the following	 removal in square r measured in cubic m taken by the Contr excavation (stripping 2. Cross-sections will b and stripping of ex excavation of materia 3. Cross-section will be elevation and prior to 4. Where determined 	Schedule of Quantities an meters, common excavat etres calculated from mea ract Administrator in the inclusive). The taken after clearing an isting topsoil immediate al to be incorporated into to be incorporated into to placement of fill. by the Contract Adminis ill be used to determine	ion will be asurements e areas or d grubbing ly prior to work. to deisgr trator that			
			Truck Type	Material Type	Volume			
			Tandem	ordinary material	(cu.m) 7			
			Tandem	asphalt/concrete/pipe	4			
			Triaxle	ordinary material	8			
			Triaxle	asphalt/concrete/pipe	5			
			Tandem and Pony	ordinary material	11			
			Tandem and Pony	asphalt/concrete/pipe	7.5			
			Triaxle and Pony	ordinary material	13			
			Triaxle and Pony	asphalt/concrete/pipe	9			
			Tandem and Transfer	ordinary material	19			
			Tandem and Transfer	asphalt/concrete/pipe	13			
			common excavation, site. The slips are to the end of shift or quantities subsequer		n of dump nistrator b can den			
				reuse includes grading, adj d compaction of the reuse				

Payment will be made at the respective unit prices bid in the Schedule of Quantities and Prices and will include all labour, and equipment required to complete the work, including offsite disposal. It is the responsibility of the contractor to locate and verify all utilities.

2.0	PRODUCTS
-	

2.2 Specified Materials Delete 2.2.1.3

Pit Run Sand

Delete 2.2.1.4

River Sand

Delete 2.2.2

END OF SECTION

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 32 11 16.1S SS 26 GRANULAR SUBBASE 2022
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Measurement for granular subbase of variable thickness will be for actual quantity placed based on weigh tickets provided to Contract Administrator as loads are delivered.
		Delete 1.4.2 and replace with the following	Measurement for granular subbase for each specified thickness will be for the actual area placed.
		Delete 1.4.3 and replace with the following	Payment for Subsection 1.4.1 & 1.4.2 above includes supply, placement and compaction of granular subbase material, adjustment of moisture content, and boning to establish the road cross-section, shall be included in the unit price bid in the Schedule of Quantities and Prices.
		Delete 1.4.4 and replace with the following	Payment for removal of unsuitable subgrade including disposal off- site prior to direct placement of granular subbase will be made under Section 31 24 13 – 1.8.10 Over excavation.
2.0	PRODUCTS		
2.1	Specified Materials	Delete	 2.1.1.1: Select Granular Subbase 2.1.1.2: 75 mm Pit Run Gravel 2.1.1.4: Pit Run Sand 2.1.1.5: Approved Native Material 2.1.1.7: River Sand

SUPPLEMENTARY CONTRACT			SECTION 32 11 23S SS 27
SPECIFIC	CATIONS	GRANULAR BASE	
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Measurement for granular base of variable thickness will be for actual quantity placed based on weigh tickets provided to Contract Administrator as loads are delivered.
		Delete 1.4.2 and replace with the following	Measurement for granular base for each specified thickness will be for the actual area placed.
		Delete 1.4.4 and replace with the following	Payment for removal of unsuitable subgrade including disposal off- site prior to direct placement of granular base will be made under Section 31 24 135 – 1.8.10.
2.0	PRODUCTS		
2.1	Granular Base	Add 2.1.1.3	25 mm minus crushed gravel conforming to the gradation specifications under Section 31 05 17S – 2.10.3.
3.0	EXECUTION		
3.5	Proof Rolling	Delete 3.5.1 and replace with the following	For proof rolling, use fully loaded single axle, to 80 KN (18, 000 lb) minimum, dump truck.
		Add 3.5.7	Prior to paving with asphalt concrete, the base surface shall be checked by the <i>Contract Administrator</i> and the City, for deflections utilizing a Benkelman Beam, in order to insure that the final rebound requirements can be obtained with the asphalt pavement. In the event that such deflection is in excess of those required to produce the final standards, then the base shall be adequately strengthened by additional gravel or asphalt concrete to insure that final deflections as follows are not exceeded.
			The Benkelman spring rebound value of the completed pavement surface shall not at any point exceed 0.75 mm for arterial industrial roads and lanes, 1.15 mm for collector roads, and 1.5 mm for local roads and lanes as determined in the procedures outlined in the Transportation Association of Canada publication "Pavement Management Guide."

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 32 ASPHALT TACK COAT	
1.4	Measurement and Payment	Delete 1.5.1 and replace with the following	Payment for asphalt tack coat will be incidental for all portions or existing pavement to be tack coated in preparation for placement of hot mix asphaltic concrete.
		Delete 1.5.2 and replace with the following	Pavement surface cleaning, as per section 32 01 11, and all other work is incidental to the application of tack coat.
3.0	EXECUTION		
3.2	Application	Add to 3.2.3	Asphalt tack coat to be applied using a truck mounted spray bar unless otherwise approved by the <i>Contract Administrator</i> and the City. Contractor shall demonstrate, to the <i>Contract Administrator</i> and the City, prior to application that all spray nozzles are operational and providing a consistent application.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 32 12 16S SS 29 HOT-MIX ASPHALT CONCRETE PAVING 2022		
1.0	GENERAL			
1.5	Measurement and Payment	Delete 1.5.1 and replace with the following	Payment for asphaltic concrete paving includes all construction join preparation, asphaltic surface milling to tie into existing asphalt, sav cutting, supply and placing of the asphaltic concrete, compaction and cleaning frames, covers and lids of castings affected and taped temporary pavement markings.	
			Measurement for asphaltic concrete paving for the specified design mixes will be made at the respective unit prices bid in the Schedule of Quantities and Prices and incorporated into Work will be asphal concrete actually based on weigh tickets provided to the Contract Administrator as loads are delivered.	
			The contractor will not receive any additional compensation above the respective unit prices bid in the Schedule of Quantities and Prices for Hand Work, Special Equipment & Machinery to complete the Ho Mix Asphaltic Paving Work as shown on the Contract Drawings or as directed by the Contract Administrator.	
			For measurement and payment purposes, Contract Administrator may calculate payment on actual area paved to the thickness specified in in the Schedule of Quantities and Prices and as shown or the Contract Drawings.	
		Delete 1.5.3 and replace with the following	Payment for asphaltic concrete sidewalks, pathways, driveways, infil strips paving, and stamped colored asphalt includes all constructior joint preparation, saw cutting, supply and placing of the asphaltic concrete, compaction and cleaning frames, covers and lids of castings affected.	
			Measurement for asphaltic concrete paving for the specified design mixes for will be made at the respective unit prices bid in the Schedule of Quantities and Prices and incorporated into Work will be asphalt concrete actually based on weigh tickets provided to the Contract Administrator as loads are delivered.	
			Payment for this item includes all applicable materials and work described in 1.5.1.	
1.6	Inspection and Testing	Add 1.6.3	Test cores will be taken by the <i>Contract Administrator</i> in the areas of new paving and will include cores along construction joints to ensure compliance with the required design and compaction.	
2.0	PRODUCTS			
2.1	Materials	Add 2.1.2.1	Usage of recycled asphalt shingles will not be permitted.	
		Add 2.1.2.2	Usage of softening agents, rejuvenators, or recycling agents will not be permitted.	
2.2	Mix Design	Delete 2.2.2 and replace with the following	Mix may contain up to a maximum of 15 % by mass of RAP for Upper Course Asphalt and 20 % by mass of RAP for Lower Course Asphalt without a special mix design. The <i>Contract Administrator</i> and the City may approve higher proportion of RAP if <i>Contractor</i> demonstrates ability to produce mix meeting requirements of the specification	

specification.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 32 12 16S SS 30 HOT-MIX ASPHALT CONCRETE PAVING 2022		
		Delete 2.2.3.2 Marshall Stability and replace with the following	Marshall Stability at 60°C for both lower and upper courses to be 10 KN min.	
3.0	EXECUTION			
3.3	Preparation	Delete 3.3.3 and replace with the following	The <i>Contractor</i> is responsible for adjusting all utility manhole frames and valve boxes, belonging to Coquitlam and/or other agencies that are affected by the road works. All adjustments to utilities must be completed to the satisfaction of the utility owner. Utility adjustment within the paved surface will be considered incidental to the <i>Work</i> unless otherwise noted in the <i>Contract Documents</i> .	
			The <i>Contractor</i> should note that certain utility owners may decide to complete their own adjustments. The <i>Contractor</i> will be required to cooperate with any utility company providing their own adjustments.	
			The <i>Contractor</i> shall be responsible to contact the appropriate utility company with in minimum of seventy-two (72) hours of the work. No adjustment shall be made without the written approval of the utility company.	
			All manholes must be vertically adjusted a minimum of twenty-four (24) hours prior to paving. The use of riser rings for adjusting manhole frames and value boxes will not be permitted.	
3.7	Joints	Delete 3.7.5 and replace with the following	Construct butt joints at locations as shown on the <i>Contract Drawing</i> and as directed in the field by the <i>Contract Administrator</i> and the City.	

1.0	GENERAL		
1.2	Scope	Delete 1.2.1 and replace with the following	Pavement Markings: Miscellaneous taped temporary and permanent pavement markings including pedestrian crosswalk, merge and diverge markings, stop lines, solid and broken line road lane markings including edge lines of merge and diverge markings, bike symbols, etc. to be provided as shown on the <i>Contract Drawing</i> .
1.5	Measurement and Payment	Delete 1.5.2 and replace with the following	All permanent markings shall be marked with extruded thermoplastic road markings as specified under Section 32 17 23S, 2.1 Materials, unless shown otherwise in the Schedule of Quantities and Prices.
		Delete 1.5.3 and replace with the following	The lump sum payment for permanent thermoplastic pavement markings covers removal of existing markings, supplying all materials and completing all the permanent thermoplastic pavement markings necessary to provide markings as shown on the Contract Drawings and as described in Clause 1.5.2.
			NOTE: PAYMENT FOR PERMANENT THERMPOPLASTIC PAVEMENT MARKINGS WILL NOT BE MADE UNTIL ALL TEMPORARY PAVEMENT MARKINGS AND REFLECTIVE DEVICES HAVE BEEN REMOVED.
		Delete 1.5.4 and replace with the following	Payment for signage includes all sign poles, bases, sleeves, sign relocations and sign installations (complete). The City will supply signs to supplement existing signs as required. Payment includes all labor, materials and incidentals to complete the work.
			1. Installation of each new sign pole, cap, sleeve and trapezoidal base includes all costs to supply all materials, labour and equipment and incidentals, as shown on Standard Detail Drawings SS-E11.1 & SS-E11.2, necessary to the install sign structure as shown on the Contract Drawings and as directed by the Contract Administrator.
			2. Installation of each new sign pole, cap, sleeve, galvanized steel bracket for no post barrier, as per MOT Drawing # SP635-3.8.3, includes all costs to supply all materials, labour and equipment and incidentals necessary to the sign structure as shown on the Contract Drawings and as directed by the Contract Administrator.
			3. The unit price payment is for each city supplied aluminum sign installed on a sign pole includes sign mount clamps & all costs to supply all materials, labour and equipment and incidentals necessary to install each sign as directed by the Contract Administrator.
			4. Installation of each aluminum sign on a lamp standard pole or sign pole includes sign mount clamps and all costs to supply all materials, labour and equipment and incidentals necessary to install each sign as directed by the Contract Administrator.
		Add 1.5.5	Payment for the supply and installation of the specified delineator will include all labour, equipment, and materials required to complete the work as per manufacturer's specifications.
2.0	PRODUCTS		
2.1	Materials	Delete 2.1.1 and replace with the following	All permanent paint markings shall be marked with thermoplastic manufactured by LAFRENTZ Road Markings, HITEX North America (HiBrite Extrude Thermoplastic), or ENNIS-FLINT (Extruded Thermoplastic).

3.0

3.3

	Delete 2.1.6 and replace with the following	Pave	ment	Markings:
	Delete 2.1.7 and replace with the following	Ther .1	Mate man Adm	astic material erial composition shall be at the discretion of the ufacturer subject to the approval of the Contract inistrator and the City. Each formulation shall be tified by a code number.
		.2	No r	etained water when tested by ASTM D-570.
		.3		ific gravity of the supplied product shall be within 3 % of specified for the selected formulation.
		.4		erial shall not deteriorate upon contact with deicing nicals, gasoline, diesel fuel or grease dropped by traffic.
		.5	disco spec must appl	erial shall not break down, deteriorate, scorch or blour, if held within the application temperature range ified by the manufacturer for a period of four hours and it t be able to be reheated from room temperature to the ication temperature four (4) times without showing any of e detrimental effects.
		.6	man shall	n applied at the temperature recommended by the ufacturer and at a film thickness of 2 to 4 mm, the material set solid and show no tracking under traffic after elapsed s as follows:
			.1	Two (2) minutes at an air temperature of 10° C, relative humidity less than 75 %, and road surface temperature from 10° C to 20° C.
			.2	Five (5) minutes at an air temperature of 32° C, relative humidity less than 75 %, and road surface temperature from 35° C to 50° C.
				The drying time under conditions intermediate between the two air temperatures shall be interpolated using a straight line model.
		.7	glass at t	quantity, type, and gradation of the component reflecting s spheres premixed in the thermoplastic material shall be he discretion of the manufacturer, but shall provide preflection levels specified below.
EXECUTION				
Application	Add to 3.3.1.3	on a		y raised pavement markings (TRPMs) are to be provided i-lane roadways as directed by the <i>Contract Administrator</i> ty.
	Delete 3.3.3.3 and replace with the			astic material shall be heated in the melter to a ire of 382 °F.
	following			END OF SECTION

SUPPLEMENTARY CONTRACT SPECIFICATIONS		СНА	IN LINK FENCES AND GATES	SECTION 32 31 13S SS 33 2022
1.5	Measurement and Payment	Delete 1.5.4 and replace with the following	Payment for Removable Steel Bollard – Reliar 7901 includes all materials, cast-in-place incidentals shown on the Contract Drawings. for each completed steel bollard installed.	concrete, work and
		Add 1.5.5	Payment for the supply and installation of St Steel Bicycle Rail, and all necessary work a shown on BC MoTI Standard Bridge Para Drawing 2785-3 will be made per complete installed. Measurement will made horizontal the paraphet for the length of railing installed	nd incidentals, and as pet Steel Bicycle Rail linear metre of railing ly along the surface of

SUPPLEMENTARY CONTRACT SPECIFICATIONS		TOP SO	SECTION 32 91 21S SS 34 IL AND FINISH GRADING 2022
1.0	GENERAL		
1.0	General Requirements	Delete 1.0.1 and replace with the following	.1 Section 32 91 21 refers to those portions of the <i>Works</i> that are unique to the supply, placement and finish grading of <i>Growing Medium</i> . This section must be referenced to and interpreted simultaneously with all other sections pertinent to the <i>Works</i> described herein.
			For the purpose of this specification, the term "Growing Medium" shall mean a soil produced offsite by homogeneous blending of mineral particulates, micro-organisms and organic matter which provides suitable medium for supporting intended plant growth and the term "Topsoil" shall mean on- site native or surface soil material which may be used as Growing Medium provided it meets standards set for imported material Growing Medium and can be modified to meet the requirements set out for specified Growing Medium.
		Add 1.0.3	.3 For the purpose of this specification, the term 'Soil-Testing Laboratory' shall mean an independent laboratory, recognized by the landscape nursery industry, with the experience and capability to conduct the testing indicated and that specializes in types of tests to be performed.
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Payment includes supply and installation of growing medium, boulevard tree trench and imported top soil that is free from any noxious weeds, fungal growth, mushroom, and any contaminants. Payment will be made separately and includes supply of material, on- site handling, preparing the landscape area subgrade, placing, grading, raking, compacting top soil and application of fertilizers. Payment for top soil will be for actual volume placed onsite at specified thickness.
1.5	Inspection and Testing	Delete 1.5 and replace with the following	.1 The Contractor is responsible for testing imported Growing Medium and all related cost incurred. Testing shall be carried out by an approved Soil Testing Laboratory.
			.2 The sample analysis shall be of tests done on the proposed <i>Growing Medium</i> from samples taken at the supply source within a minimum of 14 days in advance of <i>Growing Medium</i> placement. Allow 7 days for soil testing by the laboratory for each sample. The sample shall be picked up by the <i>Soil Testing Laboratory</i> from the supply source. The <i>Growing Medium</i> sample shall be a composite of at least three (3) samplings for the proposed source and shall be at least one (1) litre in volume.
			.3 Forward a copy of all test results directly to the <i>Contract</i> <i>Administrator</i> and the City for review. The analysis shall outline the testing laboratory's required amendments such as sand, organic matter, fertilizers and lime to achieve adequate growing conditions.
			.4 The <i>Contractor</i> shall not deliver any <i>Growing Medium</i> to the site until the test results have been reviewed and approved by the <i>Contract Administrator</i> and the City.
			.5 All submitted soil analysis must be dated and include supplier name and phone number, project location and submitted to <i>Contract Administrator</i> and the City for approval prior to

CONTR/	MENTARY ACT		SECTION 32 91 21S SS 35	
SPECIFI	CATIONS	TOP SOIL AND FINISH GRADING202		
			 commencing work. Soil analysis shall include measurements of: .1 Percent sand, fines, silt and clay .2 Organic matter to 100% .3 pH, acidifying additive required to achieve noted herein .4 Water soluble salts .5 Total carbon to nitrogen ration .6 Total nitrogen and available levels of phosphorus, potassium, calcium & magnesium 	
			.6 At the discretion of the <i>Contract Administrator</i> and the City submit up to two (2) additional samples, at intervals outlined by the <i>Contract Administrator</i> and the City, of <i>Growing Medium</i> taken from material delivered to the site. Samples shall be taken form a minimum of three (3) random locations and mixed to create a single uniform sample of testing. Result of these tests shall be forwarded to the <i>Contract Administrata</i> and the City for review.	
			.7 The <i>Contractor</i> is responsible for soil analysis and requirements for amendments to supply <i>Growing Medium</i> as specified. Failure to satisfy these contractual requirements could result in the <i>Contractor</i> being required to remove unacceptable <i>Growing Medium</i> at their expense.	
			.8 Notify the Contract Administrator at least forty-eight (48) hours prior to Growing Medium placement for inspection.	
			.9 Refer to General Conditions, Clause 4.12 Tests and Inspections.	
1.6	Product Handling	Add 1.6	 All materials to be handled and adequately protected to prevent damage. Do not handle <i>Growing Medium</i> in an excessively wet, extremely dry, frozen condition or in any manner in which structure may be adversely affected. <i>Growing Medium</i> whose structure has been damaged by handling under these conditions shall be rejected and shall be replaced by the <i>Contractor</i> at their expense. Stockpile materials in bulk form in paved areas or in pre- 	
			approved areas of the site. Provide additional protection of storage under roof or tarpaulins.	
			.3 Take all precautions to prevent contamination of <i>Growing</i> <i>Medium</i> and amendments from windblown soil particles, weed seeds and from insects. Contamination of the <i>Growing</i>	
			Medium and amendments may result in their rejection for us .4 Store fertilizer and chemical amendments in the	
			 manufacturer's original containers. All <i>Growing Medium</i> shall be delivered to site <u>premixed</u> from recognized <i>Growing Medium</i> source ensuring consistency 	
2.0	PRODUCTS	Delete 2.0 and replace with the following	throughout the mix.	
2.1	Materials		 .1 Growing Medium Preparation .1 Shall be prepared from Compost Material with Sand an other Soil Amendments as required to meet the specifications herein. 	
			.2 Ensure commercial processing and mixing of Growin Medium components are done thoroughly by mechanized screening process. Do not mix th components by hand. Ensure the resulting product is homogeneous mixture having the required properti throughout free of stones 25 mm or larger in a	

dimension, woody plant parts, toxic materials, foreign object and other extraneous materials harmful to plant growth. Provide composted soil free from crabgrass, couch grass, equisetum, convolvulus, or other noxious weeds or seed or parts thereof.

- .2 Inorganic Soil Amendments
 - .1 <u>Sand</u>: Imported pit sand or river pump sand, free of impurities, chemicals, horsetails, and other noxious weeds. The saturation extract electrical conductivity of salinity shall not be greater than 3.0 millimhos/cm at 25 degrees C.

Sieve Size (mm)	Percent passing (%)	
4.75	95-100	
0.50	0-40	
0.050	0-5	

- .2 <u>Fertilizers</u>: Uniform in composition, free flowing and dry, granular, pill form, or pelleted commercial product with 50% of total nitrogen (if applicable) derived from natural organic material in a slowly available form delivered in unopened water proof containers with the manufacturer's guaranteed N-P-K analysis, type and trade name attached to each container. The planting soil test results will specify a formulation and application rate to achieve the levels of nitrogen, phosphorous and potassium required. Fertilizer to meet the requirements of the Canada Fertilizer Act.
 - .1 Lime: ASTM C 602, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent and as follows:
 - .1 Class: Class T, with a minimum 99 percent passing through No. 8 (2.36 mm) sieve and a minimum 75 percent passing through No. 60 (0.25 mm) sieve.
 - .2 Provide lime in form of dolomitic limestone.
- .3 <u>Perlite:</u> Horticultural perlite, soil amendment grade.
- .3 Organic Soil Amendments
 - .1 <u>Compost:</u> Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 25 mm sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:
 - .1 Organic Matter Content: 50 to 60 percent of dry weight containing no cedar, redwood, wood or bark.
 - .2 Colour: dark brown to black in colour.
 - .2 <u>Peat:</u>
 - .1 Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a waterabsorbing capacity of 1100 to 2000 percent.
 - .3 Wood Residual
 - .1 Content of wood residuals such as Fir or Hemlock sawdust present in the *Growing Medium* shall not cause the total carbon to total Nitrogen ration to exceed 40:1.

SUPPLEI CONTRA	MENTARY	SECTION 32 91 21S SS 37
	CATIONS	TOP SOIL AND FINISH GRADING2022
		.2 Cedar or redwood sawdust shall not be present Growing Medium.
		 .4 <u>Manure</u> .1 Well-rotted, unleached, stable or cattle manu containing not more than 25 percent by volume straw, sawdust, or other bedding materials; free toxic substances, stones, sticks, soil, weed seed, ar material harmful to plant growth and free from sa or other harmful chemicals, such as any used artificially hasten decomposition. .2 All particles in manure to pass a 6.35 mmm sieve. .3 Salt content shall give a reading of less than 0.5 millimhos/cm at 25 degrees C.
2.2	Nutrient Requirements	 Nutrient requirements shall meet the BCSLA/BCNTA Landscap Standard <i>Growing Medium</i> requirements for nitroge phosphorus, potassium, calcium, magnesium, boron, sodiu cation exchange capacity, carbon to nitrogen ratio. Boron: not to exceed 1.0ppm Sodium: Sodium absorption ratio(SAR) not to exceed 8.0 Total Nitrogen: to be 0.2-0.4% by weight Available Phosphorous: to be 50-100 ppm S Available Potassium: to be 50-70 ppm Cation Exchange Capacity: to be 30 to 50 meq. Carbon to nitrogen ratio: Maximum 40:1.
2.3	Salinity	.1 The electrical conductivity of the liquid taken from the soil prevaluation shall not exceed 3.0 millimhos/cm at 25 degrees before additions of fertilizers and/or liming agents.
2.4	Drainage Rate	.1 Percolation shall be such that mixing, handling and placeme to be done in such a manner that the minimum saturate hydraulic conductivity show on Table – 'Growing Mediu Properties for Different Applications' (found herein the specifications) is achieved and no standing water is visible (minutes after at least 10 minutes of moderate to heavy rain irrigation.
2.5	Growing Medium Source	 .1 Import planting medium or manufactured planting medium from off-site sources. Do not obtain from agricultural land, bogs or marshes. .2 Supplier of Growing Medium shall be as per the Coquitlam Approved Products List.
2.6	Bark Mulch	 Mulch backfilled surfaces of planting beds and other are indicated on drawings. Organic Mulch: Apply 50 mm average thickness of orgar mulch, and finish level with adjacent <i>Finish Grades</i>. Do n place mulch against plant stems.
		 .2 Supplier of Bark Mulch shall be as per the Coquitlam Approve Products List. .3 Dark brown in colour and free of all soil, stones, roots or oth extraneous matter, and free of weeds, seeds and spores.

SUPPLEMENTARY CONTRACT SPECIFICATIONS

TOP SOIL AND FINISH GRADING

	Growing Medium Properties for Different Applications	Properties	Low Traffic Lawn Areas, Trees and Large Shrubs	High Traffic Lawn Areas	Planting Areas, Planters Shrubs & Groundcover
		Texture: Particle size classes by Canadian System of Soil Classification	Percent of Dry Weight Mineral Fraction (%)		
		Gravel (greater than 2 mm less than 75 mm)	0-10	0	0
		Sand (greater than 0.05 mm and less than 2 mm)	50-70	80-90	50-70
		Silt (larger than 0.002 mm and less than 0.5 mm)	10-30	5-20	10-30
		Clay (less than 0.002 mm)	7-20	2-5	7-20
		Organic Content Percent of Dry Weight	5-10	3-5	25-30
		Drainage Minimum saturated hydraulic conductivity (cm/hr) in place	2.0	7.0	2.0
		Acidity (pH)	6.0-6.5	6.0-6.5	5.0-6.0

2.8 Miscellaneous Products

- .1 Root Barrier: 400x610 mm linear root barrier, copolymer polypropylene, 50% recycled plastic, black in colour. Supplier of Root Barrier shall be as per the Coquitlam Approved Products List.
- .2 Construction Adhesive shall be as per the Coquitlam Approved Products List.
- .3 Drain Mat: Light duty, uv stable, impermeable cuspated core bonded to a layer of non-woven filter fabric with the following minimum properties:
 - .1 Compressive Strength -718 kN/m2 as per ASTM D-1621
 - .2 Flow Rate 188 l/min/Metre as per ASTM D-4716
 - .3 Approximate profile thickness of 10 mm.
 - .4 Supplier of Drain Mat shall be as per the Coquitlam Approved Products List.
- .4 Filter Fabric: Install root barriers in accordance with manufacturer's reviewed installation instructions where indicated on reviewed drawings with vertical root directing ribs facing inwards towards trees or plants; connect panels together as required.
 - 1. Supplier of Filter Fabric shall be as per the Coquitlam Approved Products List.
- .5 Drain Rock: Shall consist of clean round stone or crushed rock. Acceptable material includes 19 mm drain rock or torpedo gravel conforming to the following gradations.

TOP SOIL AND FINISH GRADING

Percent Passing						
Sieve Designation	Coarse	Fine (Torpedo gravel)				
25 mm	100					
19 mm	0-100					
9.5 mm	0-5	100				
4.75 mm	0	50-100				
2.36 mm		10-35				
1.18 mm		5-15				
0.60 mm		0-8				
0.30 mm		0-5				
0.15 mm		0-2				

2.9 Structural Soil

- .1 Soil stabilizer shall be friable, containing a minimum of 4% and maximum of 6% organic matter by dry weight, free from stones and debris over 30 mm. Acidity (ph.) shall be in the range 5.5-7.5. Carbon to nitrogen ratio shall not exceed 40:1, and salinity shall not exceed 3.0 milliohms at 25 deg C. Gravel greater than 2 mm shall not exceed 10% of total weight.
- .2 Supplier of Structural Soil shall be as per the Coquitlam Approved Products List.
- .3 *Growing Medium* to be a gap-graded mixture.

4	Texture of Growing Media mixture	Percentage of
	Gravel: greater than 2 mm-less than 75 mm	0%
	Sand: greater than 0.0 5mm-less than 2 mm	max 60%
	Silt: greater than 0.002-less than 0.0 5mm	max 35%
	Clay: less than 0.002mm	max 15%
	Clay and silt combined	max 40%
	Acidity (pH)	6.0-7.0
	Drainage: minimum saturated hydraulic Conductivity (cm/hr) in place	3.0
	Salinity: saturated extract conductivity	
	shall not exceed at 25 degC	3.0 milliohms/cm
	Organic content: percent of dry weight	8-12%

- 5 Stone ballast: Clean inert stone of high angularity is preferred over washed gravel. Stone dimension aspect ratio should be 1:1:1 with a maximum 2:1:1 length: width: depth. Single size stone, 60 mm-75 mm clear sieve designation: Blasted Quarry Rock. Aggregate to be used for structural soil shall be free of any foreign elements or material.
- .6 Structural Geotextile

Shall be installed as a structural filter layer directly above the compacted structural soil mixture. Do not install fabric until adequate compaction of the structural soil mixture has been confirmed. Filter fabric shall be selected and deigned to withstand wear and tear during construction without deterioration of its strength and filtering properties.

- .1 Supplier of Geotextile shall be as per the Coquitlam Approved Products List.
- .7 Ground dolomite limestone containing no less than 85% of its total weight as calcium carbonate and magnesium carbonate

CONTRA			SECTION 32	SS 40
SPECIFIC	CATIONS	ТОР	SOIL AND FINISH GRADING	2022
			shall be used to control ph level. The degree of grind limestone shall allow 100% of the total weight to pas (2 mm) sieve, 90% to pass a #18 (1 mm) sieve and 20 a #40 (0.105 mm) sieve. Spread-easy fertilizer shall b slow release fertilizer source of calcium and magnesi	ss a #10 1% to pas e used as
			 .8 Mixing of structural soil: Blend as per following ratios: .1 5 metric tones (MT) of aggregate .2 1 cubic meter of growing media .3 2 kg soil stabilizer 	
			.9 Moisten mixture with fine spray of clean potable war mixing to activate soil stabilizer product. Do not over mixture in 300 mm lifts through entire area of struct mixture. Compact each lift to 95% MPD prior to place next lift. Install filter fabric such to ensure a minimur overlap of all fabric seams and beyond edge of struct	r mix. Pla ural soil ement of n of 60 c
3.0	EXECUTION			
3.2	Preparation of Subgrade	Delete 3.2.4 and replace with the following	Remove debris, roots, branches, stones in excess of 50 mm and other deleterious materials, soil contaminated with calc chloride, toxic materials and petroleum products, and debri protrudes more than 25 mm above the surface. Dispose of removed material off site to approved offsite disposal area additional cost to the <i>Owner</i> .	cium s which all
		Delete 3.2.5 and replace with the following	Course cultivate entire area which is to receive Growing depth of 250mm. Cross cultivate those areas where equip for hauling and spreading has compacted soil.	
		Add 3.2.6	Grade transitions shall be smooth and even and shall surrounding areas as determined by the <i>Contract Administro</i> City.	
		Add 3.2.7	Provide erosion-control measures to prevent erosion or di- of soils and discharge of soil-bearing water runoff or airbo adjacent properties and walkways.	
3.3	Processing Growing Medium	Add 3.3.4	 Growing Medium shall be imported and stockpiled on site in approved by the Contract Administrator and the City. 1 Carry out stock piling operation such that the Growing structure is not compromised through compaction, vilo other actions. 2 Stock piled Growing Medium shall be protected from and contaminants. 3 Growing Medium shall be free of subsoil, pests, roots, construction debris, undesirable grasses including cral couch grass, noxious or weeds and weed seeds or par foreign objects and toxic materials. Presence of these contaminates shall be grounds for rejection of Growing and replacement at no cost to the Owner. 	g <i>Mediun</i> bration o rain, dryi wood, bgrass or ts therec
3.4	Placing Growing Medium	Delete 3.4.2 and replace with the following	Place <i>Growing Medium</i> to the required finished grades with moisture, in uniform lifts of 100 mm to 150 mm compacted during dry weather, over dry, unfrozen <i>Sub Grade</i> where pla indicated free of any standing water.	to 80 MI

SUPPLEI CONTRA	MENTARY ACT				SECTION 32 91 21S SS 41
	CATIONS	TOPS	2022		
		Delete 3.4.5 and replace with the following	Mini .1 .2 .3 .4 .5	imum depths after settlem Trees pits: Shrub beds: Ground cover areas: Lawn areas: Blvd. areas:	nent and 80% compaction: 900mm 450mm 300mm 300mm 150mm
		Add 3.4.6	heav Incre bank On s	vy wear by pedestrians or ease sand content in a 1.5 ks or other wet areas and a teep south or west facing	in the planting soil below lawns where maintenance equipment is anticipated. m wide strip at the bottom of swales, as directed by the Landscape Architect. banks, reduce sand content in lawns for better moisture retention.
3.5	Applying Fertilizers	Delete 3.5 and replace with the following	.1	 indicated in the Growing the following methods: .1 Lime: Applied with planting areas and of .1 Do not apply b .2 Mix thoroughly <i>Medium</i>. .3 Do not allow lin nitrogen - pho .2 Fertilizer: Applied w planting areas and of 	
3.6	Finish Grading	Delete 3.6.1 and replace with the following	elev Adm	ations shown on drawings	<i>Medium</i> installation to contours and or as directed by <i>Contract</i> iminate rough spots and low areas to
		Add 3.6.3	elev		um shall be 25 mm from finished planter wall unless otherwise noted on
3.9	Clean-up	Delete 3.9 and add the following	.1	been thoroughly cleane	tops of planters, adjacent surfaces haved. Ed. Ensure all discoloration of adjacen Growing Medium installation have bee
			.2	adjacent surfaces (as de	ot required and repair any damage to the termined by the <i>Contract Administrate</i> to additional cost to the <i>Owner</i> .
3.10	Weed Control	Add 3.10	.1		ed roots that have germinated during th ction have been eliminated from Growir
			.2		entative and Consultant with a writte al methodology seven (7) days prior t perations.
3.11	Structural Soil	Add 3.11	.1	Refer to 2.9 in this spec Drawings.	cification and as shown on the Contra

SUPPLEMENTARY				
CONTRACT				
SPECIFICATIONS				

1.0	GENERAL					
1.3	Scheduling	Delete 1.3 and replace with the following	 Schedule all operations to ensure optimum environmental protection, grading, growing medium placement, planting, seeding or sodding operations as outlined in the specifications. Schedule seeding to coincide with preparation of soil surface. Organize scheduling to ensure a minimum of on-site storage of seed and fertilizer material, minimum movement and compaction of growing medium, and prompt watering operations. Coordinate work schedule with scheduling of other trades on site. Plan, schedule and execute the work to ensure a supply of water for landscape purposes in adequate amounts and at adequate pressures for satisfactory irrigation of all seeded areas. 			
1.4	Handling and Storage	Add 1.4.2	Protect existing Site features against damage or contamination due to Work of this Section. Make good all damage or contamination which occurs to the satisfaction of the Contract Administrator and the City.			
		Add 1.4.3	Deliver seeds, mulch, fertilizers, tackifier and other products to the Site in manufacturer's original containers, clearly identified. Do not remove or deface labels or other identification.			
1.5	Drainage Control	Delete 1.5 and replace with the following	Provide for proper water management and drainage of site during work of this section. Water management shall include silt traps, erosion control measures, temporary water collection ditches, as well as their adequate maintenance to ensure that storm water which may become laden with soil or growing medium or hydraulic seed is detained and cleaned prior to discharge from site.			
1.6	Samples	Add to 1.6.1	The <i>Contract Administrator</i> and the City may test for purity and germination.			
1.7	Site Examination	Delete 1.7.1 and replace with the following	Examine site prior to the commencement of work to verify surface preparation is complete and has been accepted by the Contract Administrator and the City.			
1.10	Quality Assurance	Add 1.10	 .1 Contractor to provide seed analysis that will include but is not limited to: Name and address of supplier Analysis of seed mixture Percentage of pure seed Year of production Date and location of bagging Percentage germination 2 The sample accepted by the review will form the standard by which the project will be supplied. .3 Should the Contractor require the source of seed supply to change during the construction a written request must be provided to the Contract Administrator and the City 48 hours in advance. The request shall be followed up by submission of proposed seed supplier and substitution seed analysis for Contract Administrator and the City review prior to the start of supply to the site. 			

SUPPLE	MENTARY ACT					SECTION 32 92 19S SS 43
				ULIC SEEDIN	G	2022
			.4		orage facility p	l and stored in original containers rotected from the damage, weath
2.0	PRODUCTS					
2.1	Grass Seed	Delete 2.1 and replace with the following	.1	house and o Federal and of 75% and	delivered in ori Provincial seec minimum purit	I and supplied by a recognized seiginal containers, in accordance wi I laws having a minimum germinativ y of 97%, and meet the requiremer da Seed Act for Canada No. 1 seed.
			.2	the original landscaped varieties of three (3) var List. .1 Seed M Kentuck	packaging. Th areas shall be r Perennial Rye, rieties of Fescu Iix shall be 50 ky Bluegrass.	ved by the <i>Contract Administrator</i> ne seed mixture for boulevards a made up from a minimum of three , one (1) of Kentucky Bluegrass a e from Coquitlam Approved Produ- % Perennial Rye, 35% Fescues, 1 per square metre.
				.3 Table G	iuideline of App	proved Seed Mix Ratios.
			%	Seed Count	% Weight	Seed Varieties
				15%	25%	All-Star Perennial Rye Grass
				5%	15%	Elka II Perennial Rye Grass
				20%	15%	Cindy Creeping Red Fescue
				15% 20%	15% 10%	Shamrock Kentuck Bluegrass Cindy Lou Creeping Red Fescue
				15%	10%	Longfellow II Chewing Fescue
				10%	10%	Gator 3 Perennial Rye Grass
					lucts shall be ar he above mix ra	n all purpose sun / shade mix'
2.2	Hydraulic Mulch	Delete 2.2 and replace with the following	.1 .2 .3	Provide hyd cellulose f containing dyed green Hydraulic n form a ho when agita applied, hy mat, which soil and to Mulch is to foreign ma manufactu name. Mulch shal tackifier wh during ship mixing in h	draulic seeding ibre specificall no growth or for visual meter nulch to be cap mogeneous slu ted or mixed w draulic mulch is will allow mois contain no grow be dry and fre aterial, and to rer's label clear l contain a col nich is to be adh ment and to av	solution containing a mulch of wood y designed for hydraulic seeding germination inhibiting factors, and ering during application. able of dispersing rapidly in water to irry and remaining in such a state ith other specified materials. When to be capable of forming absorptive ture to percolate into the underlying with or germination inhibiting factors are of weeds, weed seeds and other be supplied in packages bearing ly indicating the weight and product loidal polythacuride (or equivalent hered to mulch to prevent separation void chemical agglomeration during ng equipment. It shall be 'M-Binder
	Water	Delete 2.3.1 and	Wa	iter shall be r	ootable, free o	f impurities that would inhibit soo
2.3						
2.3		replace with the				adequate water is available to

Dolomite Lime

Wood Posts

Binder Twine

Flagging Tape

EXECUTION

Finish Grade

Preparation

Seeding-General

Protection

Add 2.5

Add 2.6

Add 2.7

Add 2.8

Delete 3.1.2 and

replace with the following

Delete 3.1.5 and

replace with the

Delete 3.2.1 and

replace with the

following

following

Add 3 4 4

Add 3.4.5

Add 3.4.6

2.5

2.6

2.7

2.8

3.0

3.1

3.2

3.4

growing, healthy state until *Total Performance* of work of this section.

- .1 Dolomite lime shall be finely ground, containing not less than 90% calcium carbonate.
- .1 Wood posts shall be 38 mm x 38 mm x 1.5 m No. 1 Grade or better Hem/Fir, untreated wood.
- .1 Bidner Twine shall be hemp based multiple strand string.
- .1 Flagging tape shall be 30 mm wide, biodegradable ribbon tape made of non woven cellulosic material, colour: red, or an approved equal.

Prior to the broadcast of seed *Contract Administrator* and the City to review and direct minor adjustments and refinements of finish grades prior to the *Contractor* proceeding. Review includes grades, *Growing Medium* depth and condition of finished surface. Subsequent to the *Contract Administrator* and the City review the *Contractor* shall re-grade, add *Growing Medium* and make adjustments as directed by *Contract Administrator* and the City.

Finish grade smooth to extent required for class of seeding to be carried out, firm against footprints, lose textured and free of all stones, roots, branches, etc. larger than 25 mm or required for removal for class of seeding to be carried out.

Carry out hydraulic seeding during periods which are most favourable for the establishment of a health stand of grass within the following calendar seasons:

- .1 Spring (April 1st to June 15th)
- .2 Fall (August 15th to September 30th).
- .3 Hydraulic seeding shall not take place during periods of rain, freezing and/or abnormally hot and dry weather.

Protect all seeded areas against trespassing and from damage at all times clearly marked, staked, string and flagging tape.

Perimeter Protection: All seeded areas shall be surrounded by a 900 mm high barrier made up of the following components:

- .1 Wood posts placed at 1.8 metres on centre.
- .2 Wood Posts to be driven to a depth of 300 mm
- .3 String two (2) strands of hemp based binder twine (or equal product) between posts. Insure one full wrap of twine around each post.
- .4 Tie 300 mm strands of 'red' flagging tape at 450 mm intervals along the entire length of both strands of twine.
- .5 Maintain perimeter protection until *Total Performance* issued for seeded area. Upon acceptance remove perimeter fence and dispose of off site.

Hydraulic seeded areas that have been damaged by construction operation, construction/ site personnel or construction traffic shall be replaced at no cost to the *Owners*. Replacement shall include removal of *Growing Medium*, regarding of subgrade, replacing *Growing Medium* and reseeding as required.

	MENTARY		SECTION 32 92 19S		
	CATIONS	ну	SS 45 HYDRAULIC SEEDING 2022		
3.5	Application for Hydraulic Seeding	Delete 3.5 and replace with the following	 Thoroughly mix seed, fertilizer and hydraulic mulch in water slurry and distribute uniformly over surface with an approved hydraulic mulcher. All seeding is to be done during calm weather and on soil that is free of frost, snow, and standing water. Do not perform the work when wind exceeds 10 km/hr or when the soil is excessively dry. Measure quantities of each material to be charged into hydraulic seeder/mulcher tank accurately either in mass or by commonly accepted system of mass-calibrated volume measurements. Add materials to tank while it is being filled with water and in following sequence: Seed Fertilizer Mulch Tackifier Thoroughly mix materials into a homogeneous water based slurry and distribute uniformly over the area and, all disturbed areas, to be hydraulically seeded. Seeding Rate: Apply at 435 kg/ha or, as recommended by supplier and approved by the <i>Contract Administrator</i> and the City. Fertilizer at the following rate: 15kg/m2 Tackifier at the following rate: 15kg/m2 Carry out hydraulic seeding with care to ensure homogeneous slurry does not come in contact with foliage of trees, shrubs or other susceptible vegetation. Do not spray homogeneous slurry on objects not expected to grow grass. Promptly rectify any overspray or damage that occurs during hydraulic seeding. Do not leave seed, fertilize, mulch and water slurry in tank for mire than 4 hours. Slurry left in tank over maximum allowed time shall not be used for seeding and shall be disposed offsite. 		
	C hannan an		to maintain the approved grades and obtain uniform germination. The <i>Contractor</i> is to carry out at no cost to the Owner, reseed operations at two (2) week intervals where germination has failed or wash outs have occurred.		
3.7	Clean-up	Add 3.7.2	Flush all walks and paved areas clean to the satisfaction of the <i>Contract Administrator</i> and the City.		
3.8	Grass Maintenance	Delete 3.8 and replace with the following	 Maintenance of hydraulic seeded areas shall begin immediately after hydraulic seeding operation and shall continue until all deficiencies noted in the <i>Substantial Performance</i> review have been rectified to the satisfaction of the <i>Contract Administrator</i> and the City and conditions for <i>Total Performance</i> been achieved. The <i>Contractor</i> is to notify the <i>Contract Administrator</i> and the City in writing forty-eight hours (48) prior to stopping maintenance operations. Grass Cutting: After the 'first' cut of hydraulic seeded areas grass cutting operations shall be carried out on a weekly (seven day) basis until <i>Total Performance</i> by <i>Contract Administrator</i> and the City: 		

	MENTARY ACT			SECTION 32 92 19S SS 46
	CATIONS	Нү	AULIC SEEDING	2022
			height of height of .2 Continu until Tor .3 Cutting angles t .4 Contrac dispose .5 Roll who irregula .6 Immedia or bare to lack of the orig Fertilizer ana with Growing follow manu October 1 lar the following Hydraulic see noxious broa	ately repair seeded areas that show deterioration spots. Top-dress all areas showing shrinkage due of watering and seed with seed mix that matche inal seed mix. Iysis shall conform to recommendations provided g Medium analysis. Application of fertilizer shal affacturers' recommendations noting that afte wn areas shall not be fertilized until April 15th o g spring. eded lawn areas to be kept free of invasive and/o idleaf weeds, grasses including but not limited to disease, fungi, detrimental nematodes and
3.9	Conditions for Total Performance	Delete 3.9 and replace with the following	 .1 Hydraul establisi appeara .2 Hydraul out are: and/or n .3 No surfa hydrauli .4 Hydraul times, tr .5 Grass is .6 Grass is into unc 	or Total Performance of Hydraulic Seeded areas: ic seeded areas are vigorously growing, well hed with a thick, dense and healthy green ince. ic seeded areas shall not have any eroded or wash as, bare or dead spots and are free of invasive noxious broadleaf weeds and grasses. ace Growing Medium is visible when established ic seeded areas have been cut to height of 38 mm ic seeded areas have been cut at least two (2 to a height of 38 mm a minimum of (7) days apart free of grass varieties other than those specified sufficiently established that its roots are growing derlying Growing Medium. d maintenance procedures have been carried out

.2 Areas hydraulic seeded after September 30th will not be reviewed for *Total Performance* until April 30th the next year.

END OF SECTION

	MENTARY		SECTION 33 40 01S
CONTRA SPECIFIC	ACT CATIONS		SS 47 STORM SEWERS 2022
1.6	Measurement and Payment	Delete 1.6.1 and replace with the following	Payment for storm sewer will be made at the unit price bid for storm sewer (regardless of depth) consistent with pipe materials, diameters and backfill requirements shown on the Contract Drawings and described under individual payment items in the Schedule o Quantities.
		Delete 1.6.2 and replace with the following	Payment for storm sewers includes location and exposure of existing utilities, saw cutting pavement, trench excavation, dewatering, bypass pumping, disposal of all surplus excavated material, bedding, import backfill, disposal of existing storm pipe, support of adjacent piping supply and installation of all pipe, fittings and related materials, tie-ins to new/existing storm pipe, inserta tee, sanded stub, manhole rebenching as required, ramping, existing catchbasin or lawnbasin lead tie-ins to new storm, construction joints, temporary asphalt patching temporary surface restorations, cleaning and flushing, testing (i applicable), videoing and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section.
			Measurement for storm sewer will be made horizontally from manhole centerline to manhole centerline over surface work has beer completed.
		Add to 1.6.3	Payment for storm service connection includes 150mm SDR28 PVC pipe, shear band couplers, bends, sanded stubs, inserta tee, increaser, stubs and all related fittings and components specified and/or shown on Standard Detail Drawings. Payment includes all applicable materials and work described in 1.6.2
		Delete 1.6.5 and replace with the following	Payment for catchbasin leads include all applicable materials and work described in 1.6.2
		lonowing	Measurement for catchbasin leads, lawn basin or communication box will be made horizontally from tie-in point to centreline of catchbasir or lawn basin for each pipe size installed with no regards to depth range
		Add to 1.6.6	Payment for solid or perforated pipe includes all applicable materials and work described in 1.6.2
			Measurement for solid or perforated pipe will be made horizontally from start of new solid or perforated pipe to tie-in point installed with no regards to depth range.
2.0	PRODUCTS		
2.2	PVC Pipe, Mainline Smooth Wall	Delete 2.2.1 pipe size ranges and replace	200 mm dia. – 375 mm dia. to ASTM D3034 450 mm dia. – 1,200 mm dia. to ASTM F679
2.3	PVC Pipe, Mainline Profile	with the following Delete 2.3	,,
2.6	Service Connections	Delete 2.6.1 and replace with the following	Storm service connectons to be PVC DR 28 150 mm diameter minimum or as specified on <i>Contract Drawings</i> .
		Delete 2.6.8.1	

These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings File #: 11-5330-20/77522/1 Doc #: 4412808.v1

SUPPLEI CONTRA SPECIFIC			SECTION 33 40 01S SS 48 STORM SEWERS 2022
		Delete 2.6.8.2 and replace with the following	Connections to PVC pipe to be made with a performed wye fitting where mainline pipe is 300 mm diameter or smaller. For connections to PVC mainline pipe larger than 300 mm diameter an insertable tee fo PVC pipe is permitted.
		Add 2.6.8.3	Insertable tee fitting shall have a rubber collar which inserts into the mainline pipe to form a tight seal and shall have stainless steel band to secure the tee insert. The tee insert shall be a standard bell end with depth control lugs. The joint shall provide a minimum seal of 90 kPa or concrete and polyethylene pipe, and 190 kPa on PVC pipe.
2.9	Granular Pipe Bedding and Surround Material	Delete 2.9.3	Pipe bedding shall be 19 mm clear crushed rock or as approved by the <i>Contract Administrator</i> and the City.
3.0	EXECUTION		
3.8	Connections to Existing Mainline Pipe	Delete 3.8.3 and replace with the following	For new connections to existing, smooth wall or profile, mainline sewers 300 mm and smaller, shall be made by removal of the section o the main and replacement with a preformed PVC wye fitting complete with stubs and double hub PVC couplings for PVC mains and approved shear band couplings for other mainline materials.
			For new connections to existing mainline greater than 300 mm, use o insertable tee will be permitted.
3.10	Service Connection Installation	Delete 3.10.3 replace with the following	Inspection chambers shall be provided on all storm service connections as per Standard Detail Drawing S7. If inspection chamber is located ir driveway, lane, or paved surface, Series 37 Brooks concrete box with lic shall be installed as per Standard Detail Drawing S9.
3.12	Inspection and Testing		The contractor shall video inspect completed storm sewers under 900 mm in diameter and all service connections following completion of the installation. The video inspection report shall be in a form specified by the Contract Administrator and the City. Copies of the video DVD and written report shall be forwarded to the Contract Administrator and the City. Refer to Section 33 01 30.1 and 33 01 30.1S CCTV Inspection of Pipelines.
3.16	Permanent Capping of Service Connections	Add 3.16.1	Permanent capping of existing storm sewer connections to be completed as per Coquitlam Standard Detail Drawing COQ-S18.
	Connections	Add 3.16.2	A trenchless method of permanently capping a service may be required on an arterial road or on a road which has been paved within 5 years as directed by the Manager.
			The trenchless technology used to cap the service must be approved by the Manager.

END OF SECTION

SUPPLEMENTARY CONTRACT SPECIFICATIONS

1.0	GENERAL		
1.1	Related Work	Add 1.1.6	Hot Mix Asphalt Concrete Pavement Section 32 12 16
		Add 1.1.7	Portland Cement Concrete Paving Section 32 13 13
1.5	Measurement and Payment	Delete 1.5.1.1 and replace with the following	Payment for manhole includes supply and installation of base, lid, slab, concrete riser, concrete barrel, donut ring, concrete frame, metal frame, cover, ladder rung and all components to complete the manhole from specified invert to finishing level. Payment includes base preparation, all in-situ concrete work, bedding, import backfill, manhole preparation to accommodate new sewer installation, all labor, material, equipment and necessary work for installing the manhole as shown on Contract Drawing and as described on Standard Detail Drawing S1 and S2.
			Payment includes all labor, material and equipment required for benching of manhole.
		Delete 1.5.2 and replace with the following	Payment for supply and installation of new catchbasin or lawnbasin for each type specified and setting to the finished grade. Payment includes excavation, disposal of surplus excavated material, supply of all units, cast-in-place concrete, clear crushed and bedding, import backfill, fittings and related materials together with all labour, materials and equipment required. Catchbasin or lawnbasin lead work is considered to be incidental to payment for catch basin lead work described in other sections.
			Payment for cleanout includes all labor, material and equipment to complete the work.
		Delete 1.5.5 and replace with the following	Catchbasin removal will be defined as removal and disposal of an existing catchbasin and restoration of the area. Payment includes excavation, disposal of the catchbasin casting and barrel, capping of the CB lead, backfill & compaction, surface restoration, and related materials together with all labour and equipment required.
2.0	PRODUCTS		
2.1	Materials	Add 2.1.7.3	Any frame and cover assembly creating a point load on the concrete riser rings will not be permitted.
		Delete 2.1.12 and replace with the following	Catchbasin lids manufactured to ASTM C478M
		Delete 2.1.16.2	
		Delete 2.1.17	
3.0	EXECUTION		
3.1	Excavation and Backfill	Add 3.1.2	For manholes, when base gravels are complete, excavate for grade rings and manhole frame assembly. Do not disturb the compacted road base beyond the excavation requirement.

These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings File #: 11-5330-20/77522/1 Doc #: 4412808.v1

SUPPLEMENTARY CONTRACT			SECTION 33 44 01S SS 50	
SPECIFI	CATIONS	MANHOLES AND CATCHBASINS		
3.3	Manhole Installation	Delete 3.3.12.2 and replace with the following	Allowable products are precast concrete risers and cast-in-place form system. Individual riser heights shall be 50mm, 75mm, or 100mm.	
		Delete 3.3.12.5 and replace with the following	Proper layer of grout between the spacers, covering the entire surface of the rings, should be utilized.	
		Delete 3.3.15 and replace with the following	Install drop structures as shown on the contract drawings to Coquitlam Standard Detail Drawing COQ-S4 and Standard Detail Drawing S3. Maximum allowable inside ramp shall be 250 mm invert to invert.	
		Delete 3.3.17 and replace with the following	Ensure frames conform to design contour of pavement or existing surface. Manhole lids left raised in preparation for overlay paving shall have a rubberized protector ring or asphalt ramp. The use of riser rings for adjusting manhole frames will not be permitted.	
3.5	Catchbasin Installation	Delete 3.5.1 and replace with the following	Install catchbasins as shown on Coquitlam Standard Detail Drawings COQ-S11A, COQ-S11B and Standard Detail Drawing S11, to general standards and installation procedures described under 3.3 of this Section.	

END OF SECTION

- Appendix A Traffic Management Detail Specifications

	ic Management Detail fications	
Cont	ract 77522	TRAFFIC MANAGEMENT TMP
1.0	GENERAL	.1 This Traffic Management detail specification refers to the Contractor's specific plans to identify project traffic risks affecting the <i>Work</i> , provide Traffic Control Plans, and to implement the traffic control for the safe passage of vehicles and pedestrian through the work zone.
1.1	Related Works	.1 Traffic Regulation MMCD Section 01 55 00S.
1.2	References	.1 WorkSafe BC, Occupational Health and Safety (OHS) Regulation, Section 18 – Traffic Control.
		.2 B.C. Ministry of Transportation (MOT) Traffic Control Manual for Work on Roadways.
1.3	Project Requirements	 Hours of Work and Traffic Restrictions for this project are identified in Appendix 1 of this document. A Road and Sidewalk Closure Permit form application must be submitted to City's Traffic Operation Division 5 working days prio to start of work.
		.2 A Road and Sidewalk Closure Permit is required by Coquitlam for all work affecting traffic flow related to construction. A permit is required for each specific construction interference with traffic flow. The Road and Sidewalk Closure Permit Request form is attached as Appendix 2 to this document. A digital copy of the Road and Sidewalk Closure Permit form can be obtained for use during the contract from the City's website at www.coquitlam.ca/closure.
1.4	Measurement and Payment	.1 For this Contract, payment for all work performed under this section, unless included in the Schedule of Quantities and Prices shall be treated as incidental work, including a Traffic Management Plan (TMP), Traffic Control Persons (TMP), traffic markings & all temporary traffic signs, devices as required for traffic & pedestrian safety; and all other items described in the Section 01 55 00S.
2.0	PRODUCTS	
2.1	Traffic Management Plan	.1 The Contractor is required to assign a Traffic Manager for the Contract with the responsibility of preparing the Traffic Management Plan and the Traffic Control Plans, as well as the responsibility for continuing implementation of traffic control for the Work.

Traffic Management Detail Specifications		
Contract 77522	TRAFFIC MANAGEMENT	[MP]
	 .2 The Traffic Management Plan (TMP) will consist of the followi components: .1 Identification of risks to traffic during the Work .2 Traffic Control Plans for individual stages of the construction .3 Incident Management Plan for the response to an unplanned event and recording of incident information 	-
	.3 Submission of the TMP is to be made to the <i>Contract</i> <i>Administrator</i> within five (5) days of the <i>Notice of Award</i> of the <i>Contract</i> , and must be approved by the <i>Contract Administrator</i> prior to start of the <i>Work</i> .	
	.4 Review of the TMP will be performed by the Contract Administrator. Comments for revisions to the TMP will be returned to the <i>Traffic Manager</i> for implementations.	
	.5 The Contractor shall comply with all the requirements of applicable laws, rules, regulations, codes and orders of the municipal and other appropriate authorities concerned with v on streets or highways and shall post proper notices and/or signals, and provide necessary barriers, guards, lights, flagmer watchmen as may be necessary for proper maintenance of tra and protection of persons and property from injury or damage costs involved in respect to the above requirements will be deemed to be included in the Contract Price.	n or affic
	.6 The Contractor shall give due notice to local police and fire departments prior to beginning construction and shall comply all respects with their requirements.	y in
	.7 The Contractor, during the progress of the work, shall make adequate provision to accommodate the normal traffic along streets and highways immediately adjacent to or crossing the work so as to cause the minimum of inconvenience to the gen public.	2
	.8 The Contractor is required to maintain local traffic and drivewa access during all stages of construction. This includes maintaining a 1.5m width walkway or pathway through the construction site for pedestrians.	ay
	.9 Where existing streets or roads are not available as detours, al traffic shall be permitted to pass through the work with as litt inconvenience and delay as possible unless otherwise provide authorized by the Contract Administrator. If half the street on under improvement, the other half shall be conditioned and maintained as detour.	tle d or

Cont	ract 77522	TRAFFIC MANAGEMENT TMP
cont		
2.2	Incident Management and Reporting	.1 The Contractor shall facilitate incident response vehicles and staff and move traffic safely and expeditiously through or around an incident on site and provide assistance to emergency response personnel as required. An incident includes, but is not limited to, motor vehicle accidents, emergency road repairs, disabled vehicles, and debris on the road. The immediate response to an emergency shall by necessity make use of available devices and equipment.
		.2 If an incident occurs on site, the Contractor will be required to submit a report to the Contract Administrator documenting details of the incident including event, location, date, time, action taken, duration and restoration of site.
2.3	Traffic Control Plans	.1 The Contractor shall designate a qualified Traffic Control Supervisor for the works, per the requirements of WCB regulations Section 18.
		The designated Traffic Control Supervisor may be the same individual that is designated as the Traffic Manager, or may be a separate individual qualified for the responsibilities of this function.
		.2 The Contractor shall prepare weekly the anticipated traffic control activities, locations, and durations for the upcoming week.
		 .3 Permissible delays shall only be considered outside Peak Hours. Permissible delays are categorized as follows: a) Minor Delays - Less than two (2) minutes in duration; for occasional interruption due to construction activities. These delays shall be coordinated with available breaks in the traffic flow. b) Major Delays - Maximum five (5) minutes in duration; for occasional interruption of traffic for construction activities if traffic volumes permit. These delays shall be coordinated with available breaks in the traffic flow.
		.4 The Contractor is responsible for ensuring that the flow of traffic is unimpeded by construction-related activities.
3.0	EXECUTION	
3.1	Traffic Control Plan	.1 A copy of the approved <u>current</u> Traffic Plan must be held on site by both the Site Superintendent as well as the person/company responsible for the traffic control implementation.
		.2 Failure to produce a valid approved Traffic Plan on site, or having work not follow the Traffic Control Plan will result in immediate

	ic Management Detail ifications		
Cont	ract 77522	TRAFFIC MANAGEMENT	TMP 4
		shut-down of the work. The Contractor will be required to safe restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire an approved Traf Control Plan before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shur down.	fic
3.2	Road and Sidewalk Closure Permits	.1 The Contractor must have, on-site, a copy of an approved Road and Sidewalk Closure Permit valid for the work being done. Failure to produce a valid Road and Sidewalk Closure Permit on site will result in shut-down of the work. Failure to comply on what is stated on the approved permit will result in shut-down the work. The Contractor will be required to safely restore facil conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire a Road and Sidewalk Closure Perm before work can re-start on site. No claim will be accepted by to Owner for costs associated with this work shut-down.	of ity or mit
3.3	Traffic Control Personnel & Equipment	.1 The Contractor shall supply all necessary traffic control devices required to perform traffic control services for the project. Sign and traffic control devices not applying to existing conditions shall be removed. Where operations are carried out in stages, only those traffic control devices that apply to the current stag are to be left in place.	าร
		.2 There must be sufficient Traffic Control Persons (TCPs) on site t appropriately and safely direct traffic in all sections of the Wor	
3.4	Signage	.1 Supply, installation, maintenance and removal of all works- related signs shall be the responsibility of the Contractor. The location and type of each sign shall be indicated on the approve Traffic Control Plan, for each stage of the works.	ed
		Traffic control signs and devices must be positioned and used as specified in the Traffic Control Plan and signs and devices must b located so as to allow traffic to move by or through the work area a controlled manner and, if necessary, to come to a controlled sto with due regard for the prevailing weather and road conditions.	in
		Signs shall be checked daily for legibility, damage, suitability and location. Signs and delineators shall be cleaned as frequently as necessary to ensure full legibility and reflectance.	
3.5	Detours	.1 Any proposed detours must be approved by the Contract Administrator and conducted in accordance with the approved Traffic Plan and the Traffic Control Manual for Work on Roadways.	

	ic Management Detail fications			
-	ract 77522		TRAFFIC MANAGEMENT	
3.6	Abrupt Changes in Surface Elevations	.1	The Contractor shall minimize any abrupt changes in roadvelevation left exposed to traffic during both working and n working hours.	-
			A wedge of asphalt must be used as a transition to vertical differences in travelled areas and have a slope of 4:1 or less.	
3.7	Cyclist and Pedestrian Access	.1	The Contractor shall make provision for pedestrians, wheel and bicycles to have safe access across the work zone at all If this cannot be readily accommodated, then acceptable d and appropriate signs shall be provided.	times.
3.8	Temporary Pavement Markings	.1	The Contractor shall be responsible for the application and removal of all temporary pavement markings and reflective devices.	
			All temporary markings must be removed after installation permanent markings.	of
4.0	TRAFFIC RESTRICTIONS			
4.1	Road and Sidewalk Closure Permits	.1	Minimum of Single Lane Traffic in each direction must be accommodated at all times.	
		.2	A City of Coquitlam Road and Sidewalk Closure Permit is re for each instance of closure and will be valid for a maximu period of one (1) week and, if still necessary, re-submittal c Road and Sidewalk Closure Request is required.	m
			A copy of the approved Road and Sidewalk Closure and Land Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for t traffic control implementation.	
		.3	Total Road Closure Is Not Permitted	
		.4	Detours will only be permitted as approved by the Contrac Administrator and must have a complete Traffic Control Pl indicating detour route, signing, and duration. Detours wi be allowed without sufficient lead time for commercial and operation to react appropriately to detour information pro to them.	an II not d retail
		.5	Some of the construction work sites are located near schoo Contractor should make arrangements to accommodate tr during school pickup and drop off times.	

TRAFFIC MANAGEMENT

5.0	CONSTRUCTION OPERATIONS		
5.1	Truck Routes	.1	The Contractor is restricted to the City's designated Truck Routes. The current Truck Route Map is available on the City's website at <u>www.coquitlam.ca</u> and can be found under Residents, Transit & Transportation, Trucking Routes .
5.2	Road Specific Considerations	.1	Ensure that Traffic Management Plan accommodates businesses and residences during construction activities.
5.3	Work stoppage due to traffic	.1	The City will not control or direct traffic control activities of the Contractor, but may require an immediate stop to any work where, in the sole opinion of the Contract Administrator, the provided traffic management plan is ineffective or creating unreasonable delays
5.4	Construction Activity and Signage	.1	The Contractor will be responsible to place other construction information signs as required to inform the public of construction activities, and ensure safe travel through the work site.
5.5	Construction Zone Information Signs	.1	The Contractor is required to provide, one week prior to start of work, stationary signs at intersections, one in each direction, to inform traffic of existing and anticipated conditions at entry points of the street to be worked on, locations for these signs will be provided by the Contract Administrator.
			Ensure that signs and locations are addressed in the Traffic Management Plan. All signs are to be removed at the end of the construction period.

Appendix 1 CONTRACT HOURS OF WORK and TRAFFIC RESTRICTIONS

1.0	GENERAL	
1.1	Contract Number	77522
1.2	Contract Name	United Boulevard Multi-Use Pathway
1.3	Contract Limits	As shown on the Contract Drawings
2.0	ROAD SECTION	
2.1	United Boulevard	 .1 Commercial property accesses in this area must be accommodated in the work operations. .2 Minimum of Single Lane Traffic in each direction must be accommodated at all times during construction, unless otherwise authorized by the Contract Administrator or defined by time of day lane closure restrictions. Works affecting the King Edward/United Boulevard intersections must be completed outside of peak hours. .3 The work should be scheduled such that garbage trucks can pass for garbage collection. In case of any access problem the Contractor may be required to move garbage bins.
3.0	HOURS OF WORK	
3.1	Allowable Hours of Work	.1 Unless there are other contract restrictions for work times, work can be performed during the normal weekday working hours of 07:00 hrs to 17:00 hrs.
		.2 Work is allowable on Saturdays but is restricted to a 09:00 hrs start time to 17:00 hrs .
		.3 No work is allowed on Sundays or statutory holidays without specific permission arranged through the Contract Administrator.
4.0	OPERATIONS	
4.1	Truck Routes	.1 The Contractor is restricted to the City's designated Truck Routes. The current Truck Route Map is available on the City's website at <u>www.coquitlam.ca</u> and can be found under Residents/Transit & Transportation/Trucking Routes .

These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Platinum), Volume II, 2009.

TMP 7

Traffic Management Detail Specifications Contract 77522

TRAFFIC MANAGEMENT

TMP 8

Coouitlam		Deader	م درمه سال در	City of Coquitlam	
CoQuitlam		Road an	a Sidewalk Ci	osure Permit Request	
			Pho	Traffic Operations Division Guildford Way, Coquitlam BC V3B 7N2 ene: 604-927-6250 Fax: 604-927-6255 Email: trafficoperations@coquitlam.ca	
Submit to the Traffic Operation	one Division a mi	inimum of E husi	iness days prior to the in	tended closure date	
Permit See . \$75.00 (Effective)		Payment Me	thode - After regions and		
		emailed to th	e applicant.		
Application Date:		City Project	Number (if applicable):		
Contact Information					
Company Name:					
Applicant Name:					
Name of Contractor doing wo	ork for Company	/Applicant:			
Phone:					
Phone: 24 Hour Emergency Phone: Location, date and time, a I request approval to close (ch	and traffic cont	rol plan inform	Email: ation	bound 🗆 Eastbound 🗖 Westbound	
Phone: 24 Hour Emergency Phone: Location, date and time, a I request approval to close (ch Curb/Outside Lane Ce Single Lane Alternating Tra	and traffic cont neck all that app entre/Inside Lane affic	trol plan inform ly): Direction: Right Turn osure	Email: etion I Northbound	bound	
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Phone: 24 Hour Emergency Phone: Location, date and time, a I request approval to close (ch Curb/Outside Lane Ce Single Lane Alternating Tra Road/Street Name: Location Description: Date & Time Information:	and traffic cont neck all that app entre/Inside Lane ffic	trol plan inform	Email:	bound Eastbound Westbound Cycling Lane Sidewalk Ending	
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TRAFFIC MANAGEMENT

TMP	9
	-

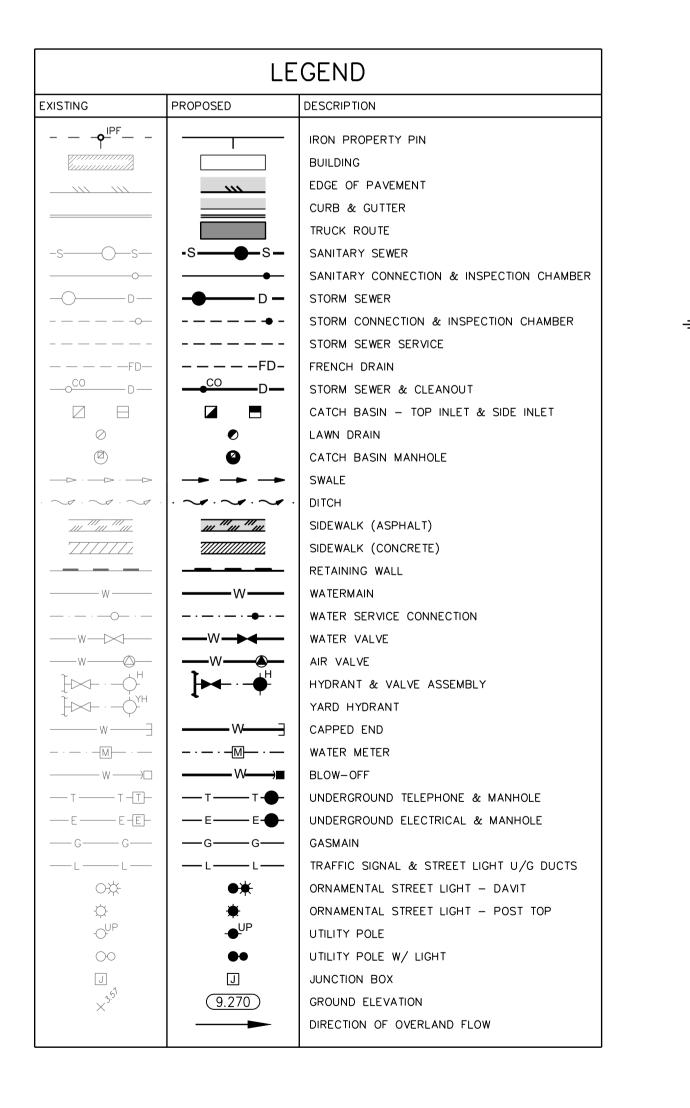
arrow	ach separately) indicating signage, tape	er lengths, direction of traffic, work area, and north
Traffic control persons (flag	persons) on duty? 🗖 Yes 🛛 🔲 No If yes,	specify how many:
* Important Notice: All operation standards for work on roadways		with Worksafe BC regulations and BC Ministry of Transportat
Application Checklist		
Permit Fee		
Prime Contractor Designa	tion Letter	
City of Coquitlam Certifica	ate of Insurance	
Traffic Control Plan or Tra	ffic Management Manual for Work on F	Roadways Figure Number
Coast Mountain Bus Com regarding impact to bus reparting impact to bus repa	31	cial.events@coastmountainbus.com) contacted
2 1	mental Services Group (Phone: 604-927 ige/recycling routes and pick up	-3500 Email: <u>wastereduction@coquitlam.ca</u> contacte
		indemnify and save harmless the City against any and
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this Road and Sidewalk Close sweeping for the duration of Date Office Use Only PERMIT Permit Fee Traffic Control Plan Request is denied for the	Applicant Signature STATUS Prime Contractor Letter Impact to bus service	ponsibility to ensure proper situation control and stree
this Road and Sidewalk Close sweeping for the duration of Date Office Use Only PERMIT Permit Fee Traffic Control Plan Request is denied for the	Applicant Signature STATUS Prime Contractor Letter Impact to bus service he following reason(s):	Impact garbage and recycling collection

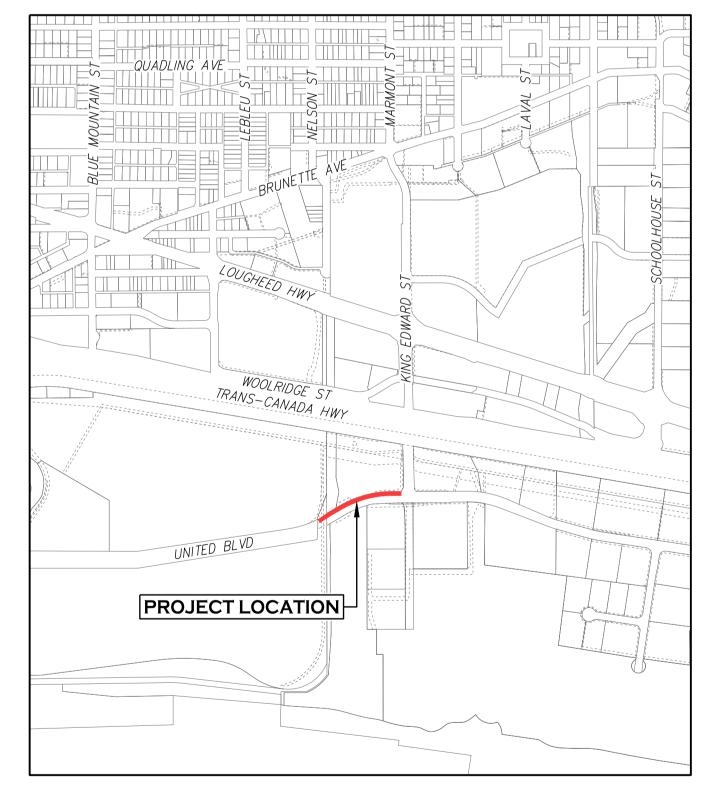
These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Platinum), Volume II, 2009.

File #: 11-5330-20/77522/1 Doc #: 4406593.v1

Appendix B -Contract Drawings

CITY OF COQUITLAM 3000 GUILDFORD WAY, COQUITLAM, BC V3B 7N2 UNITED BLVD MULTI - USE PATHWAY EXTENSION ISSUED FOR TENDER







	DRAWING INDEX				
SHEET #	DRAWING TITLE	STREET NAME	LOCATION	RFB DWG. #	
00	COVER SHEET				
01	GENERAL NOTES & TYP. SECTIONS	UNITED BLVD		21-0536-ND1	
02	ROADWORKS – PLAN & PROFILE	UNITED BLVD	270m W OF KING EDWARD ST TO 140m W OF KING EDWARD ST	21-0536-R1	
03	ROADWORKS – PLAN & PROFILE	UNITED BLVD	140m W OF KING EDWARD ST TO KING EDWARD ST	21-0536-R2	
04	ROADWORKS - CROSS SECTION	UNITED BLVD	SHEET 1 OF 2	21-0536-XS1	
05	ROADWORKS - CROSS SECTION	UNITED BLVD	SHEET 2 OF 2	21-0536-XS2	
06	PAVEMENT MARKING AND SIGNAGE	UNITED BLVD	270m W OF KING EDWARD ST TO KING EDWARD ST	21-0536-PM1	

BINNE The people behind your infrastructure.





R.F. BINNIE & ASSOCIATES LTD. 300 - 4940 Canada Way, Burnaby, BC V5G 4K6 TEL 604 420 1721 BINNIE.com

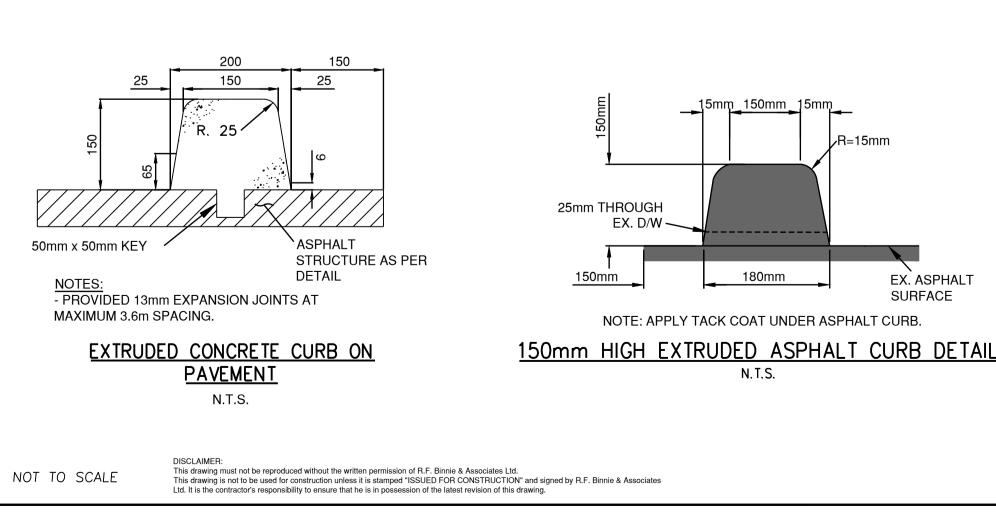
NOT FOR CONSTRUCTION

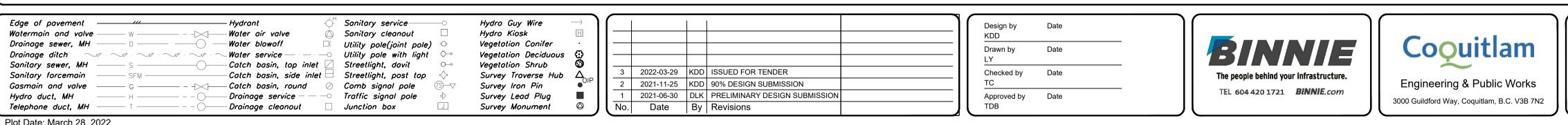
GENERAL NOTES:

- 1. ALL CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE 2009 MMCD PLATINUM BOOK AND CURRENT BURNABY SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAIL DRAWINGS.
- 2. ALL SURVEY MONUMENTS, BENCHMARKS, AND LEGAL PINS MUST BE PROTECTED AND ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO IDENTIFY ANY SURVEY MONUMENTS AND LEAD PLUGS THAT MAY BE DISTURBED DURING CONSTRUCTION AND ARRANGE WITH THE OWNER'S SURVEY DEPARTMENT PRIOR TO CONSTRUCTION TO REFERENCE LOCATIONS BEFORE WORK COMMENCES.
- 3. CONTRACTOR IDENTIFIED ANY SURVEY MONUMENTS AND LEAD PLUGS THAT MAY BE DISTURBED DURING CONSTRUCTION AND ARRANGED WITH THE OWNER'S SURVEY DEPARTMENT 5 DAYS PRIOR TO CONSTRUCTION TO REFERENCE LOCATIONS BEFORE WORK COMMENCED.
- 4. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF RETAINING WALL, ADJACENT STRUCTURE AND OTHER HAZRDS SUCH AS GARAGE AND UTILITY POLES. CONTRACTOR TO COMPLETE A HAZARD ASSESSMENT IN ACCORDANCE WITH WORKSAFE BC POLICY AND ESTABLISH WORKING PROCEDURES TO REPLECT KNOWN HAZARDS. NO WORK IS TO PROCEED IN THE VACINITY OF ADJACENT STRUCTURES WITHOUT THE WRITTEN INSTRUCTIONS FROM A QUALIFIED REGISTERED PROFESSIONAL ENGAGED BY THE CONTRACTOR, AND SUCH COPY SUBMITTED TO THE CONTRACT ADMINISTRATOR AND THE CIVIL CONSULTANT.
- 5. ALL EXCAVATION WITHIN EXISTING TREE DRIPLINES TO BE BY HAND OR HYDRO-VAC. CONTACT THE CITY ARBORIST PRIOR TO REMOVING TREE ROOTS IN CONFLICT WITH THE PROPOSED UNDERGROUND WORKS.
- 6. INFORMATION ON EXISTING UTILITIES MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR SHALL EXPOSE LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.
- 7. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONFIRM THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES BY HYDRO EXCAVATION AND/OR SURVEYING AT ALL TIE-IN AND CROSSING POINTS. NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 8. ALL EXISTING LANDSCAPING, IRRIGATION, FENCES, SIDEWALKS, RETAINING WALLS ETC. SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION SUBSEQUENT TO CONSTRUCTION.
- 9. CONTRACTOR SHALL RECORD COMPLETE AND ACCURATE AS-BUILT INFORMATION ON A SET OF CURRENT CONSTRUCTION DRAWINGS DURING CONSTRUCTION AND SUBMIT THE INFORMATION TO THE CONTRACT ADMINISTRATOR.
- 10. FOR RECOMMENDATIONS REGARDING THE SUBSURFACE CONDITIONS, SITE PREPARATION, AND THE PROPOSED ROAD STRUCTURE, REFER TO THE GEOTECHNICAL REPORT PREPARED BY KONTUR GEOTECHNICAL CONSULTANTS INC. DATED SEPTEMBER 3, 2021 PRIOR TO THE START OF CONSTRUCTION.

ROADWORKS NOTES:

- 1. ALL LIMITS OF CONSTRUCTION AND PAVEMENT REHABILITATION TO BE CONFIRMED IN THE FIELD WITH THE CONTRACT ADMINISTRATOR.
- 2. PRIOR TO FINISH GRADING THE CONTRACTOR SHALL PROVIDE LAYOUT FOR THE EDGE OF PAVEMENT FOR REHABILITATION OF ROADWAYS AND LANES FOR REVIEW WITH THE CONTRACT ADMINSTRATOR. ADJUST GRADING AS DETERMINED BY THE CONTRACT ADMINISTRATOR TO ENSURE ACCEPTABLE TIE-INS TO EXISTING DRIVEWAYS, ROADWAYS, AND DRAINAGE INFRASTRUCTURE.
- 3. PROOF ROLL BASE, ADD GRAVELS AS REQUIRED, RECOMPACT, AND RESHAPE AS REQUIRED PRIOR TO PAVING
- 4. CLEAN AND TACK-COAT ALL ASPHALT SURFACES INCLUDING JOINTS PRIOR TO PAVING
- 5. REMOVE AND REPLACE UNSUITABLE SUBGRADE (OPTIONAL):
- WHERE DIRECTED BY THE CONTRACT ADMINISTRATOR, EXCAVATE UNSUITABLE MATERIAL AND REPLACE WITH IMPORTED BASE GRAVEL COMPACTED IN PLACE.
- 6. ALL VALVE BOXES, MANHOLES, JUNCTION BOXES, ETC. WITHIN THE ROAD RIGHT OF WAY SHALL BE ADJUSTED TO FINISHED GRADE UNLESS NOTED OTHERWISE. ADJUSTMENTS TO EXIST. MANHOLES, VALVE COVER AND ALL OTHER APPURTENANCES TO SUIT NEW GRADES ARE INCIDENTAL TO ASPHALT PAVING AND CONCRETE WORKS (TYP.)
- 7. LOCATIONS OF DRIVEWAYS, WHEELCHAIR RAMPS, ETC. SHALL BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION OF THE PROPOSED CONCRETE CURB AND GUTTER.
- 8. CHANGES IN GRADE SHALL BE FORMED WITH SMOOTH CURVES.
- 9. CATCH BASIN RIM ELEVATIONS SHALL BE SET 25MM BELOW THE FINISHED GUTTER LINE GRADES. THE GUTTER AND ROAD SURFACE AREA TO BE SHAPED TO FORM A DISH AROUND THE INLET.
- 10. COMPACTION FOR GRAVELS: 95% M.P.D., FOR MARSHALL MIX 97% (TYP.)
- 11. ALL PAVEMENT MARKINGS TO BE REINSTATED IN THE PLACE OF WORK. CONTRACTOR RESPONSIBLE FOR PERFORMING PRE AND POST CONSTRUCTION SURVEY WORK ESSENTIAL FOR THE REINSTATEMENT OF PAVEMEN MARKINGS. NEW LINE PAINTING AND SIGNAGE AS PER M.U.T.C.D. STANDARDS.
- 12. EX. SIGNAGE TO BE REINSTATED FOLLOWING CONSTRUCTION, PROP. SIGN LOCATIONS TO BE CONFIRMED IN THE FIELD WITH THE CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.





Plot Date: March 28, 2022

Bollard Post, Model R-7901 Ø5 1/4 Ø4 3/8 1/8 Wall-Ø8 5/8 -- 10" Min. - -SECTION A-A ITEM OTY PART NUMBER

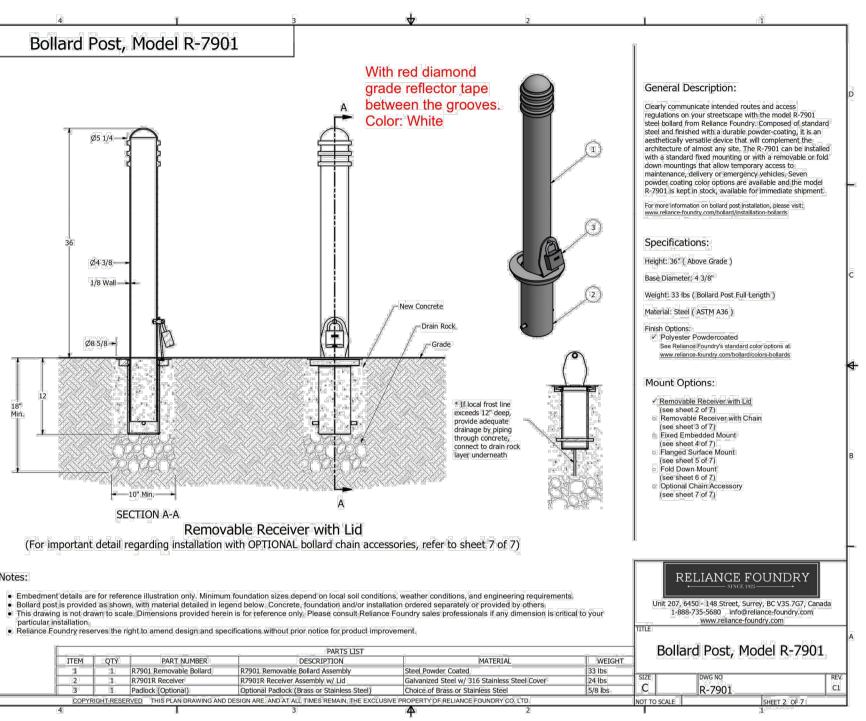
> INSTALL 100mm OF 25mm MINUS CRUSHED GRANULAR BASE MATERIAL AS PER BCMOTI WGB AND COMPACT TO NO LESS THAN 95% MPMDD

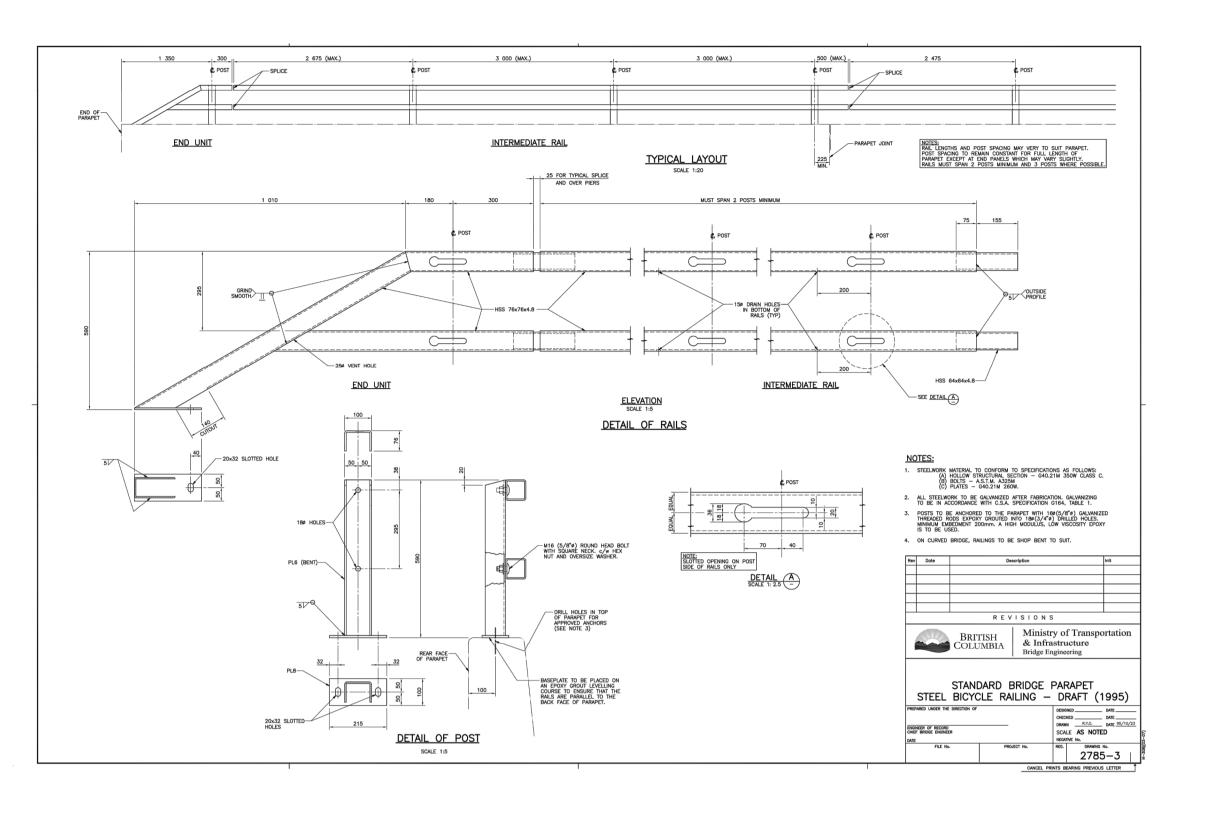
INSTALL 200mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE MATERIAL AS PER MMCD AND COMPACT TO NO LESS THAN 95% MPMDD ON APPROVED FILL MATERIAL ON APPROVED SUBGRADE

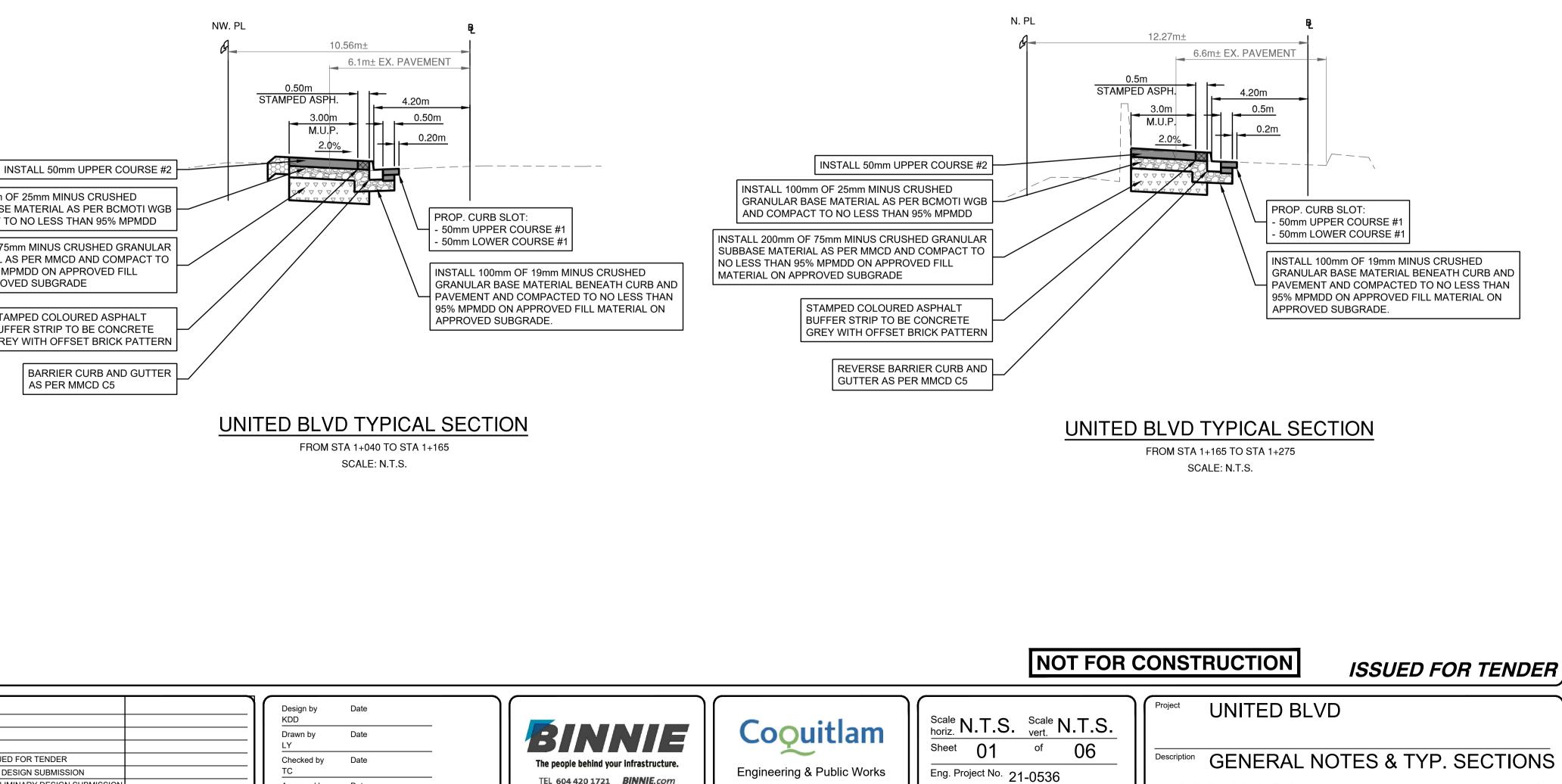
R=15mm

EX. ASPHALT SURFACE

BUFFE	PED COLOUR R STRIP TO E WITH OFFSE
	BARRIER CU AS PER MM

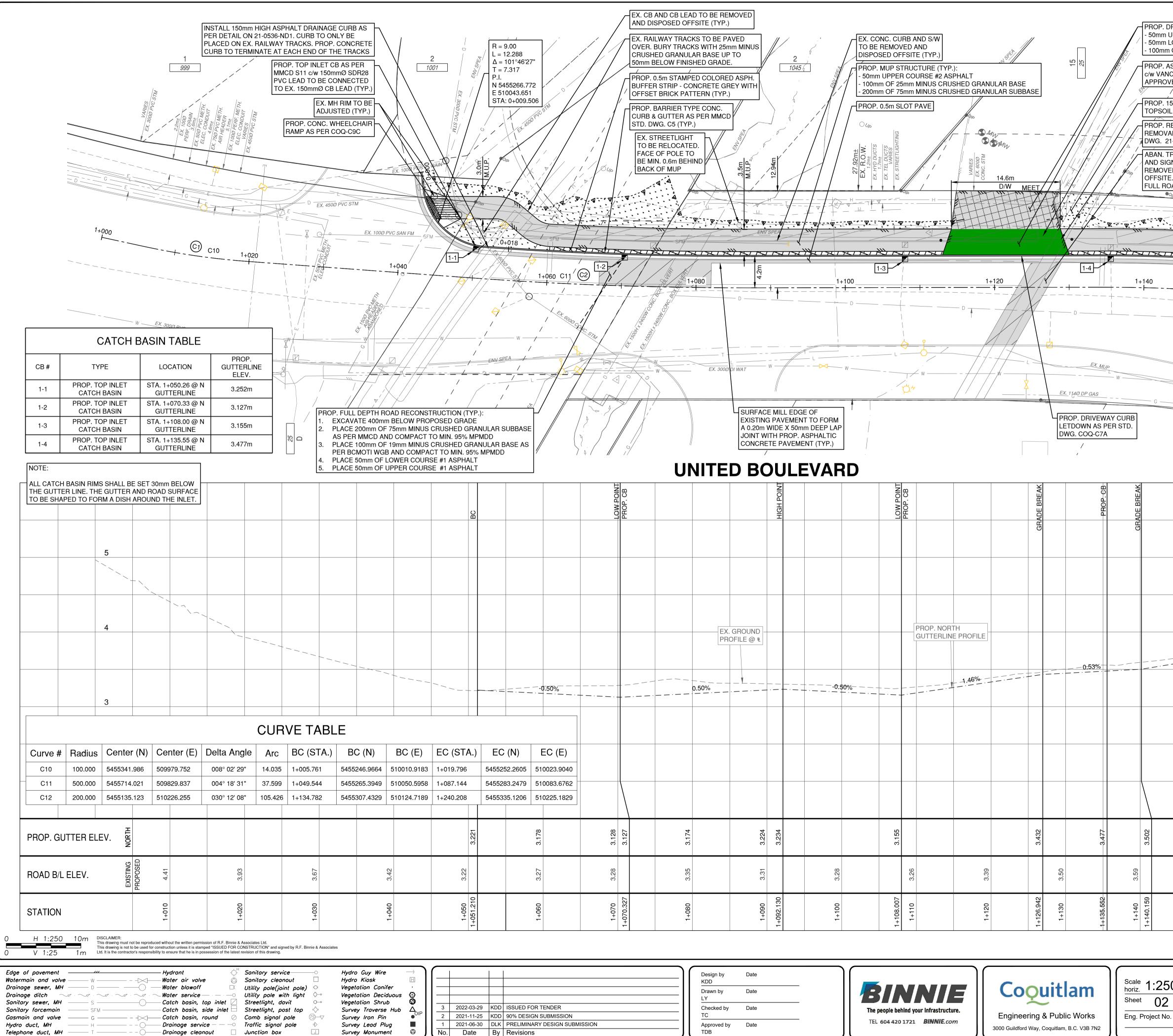






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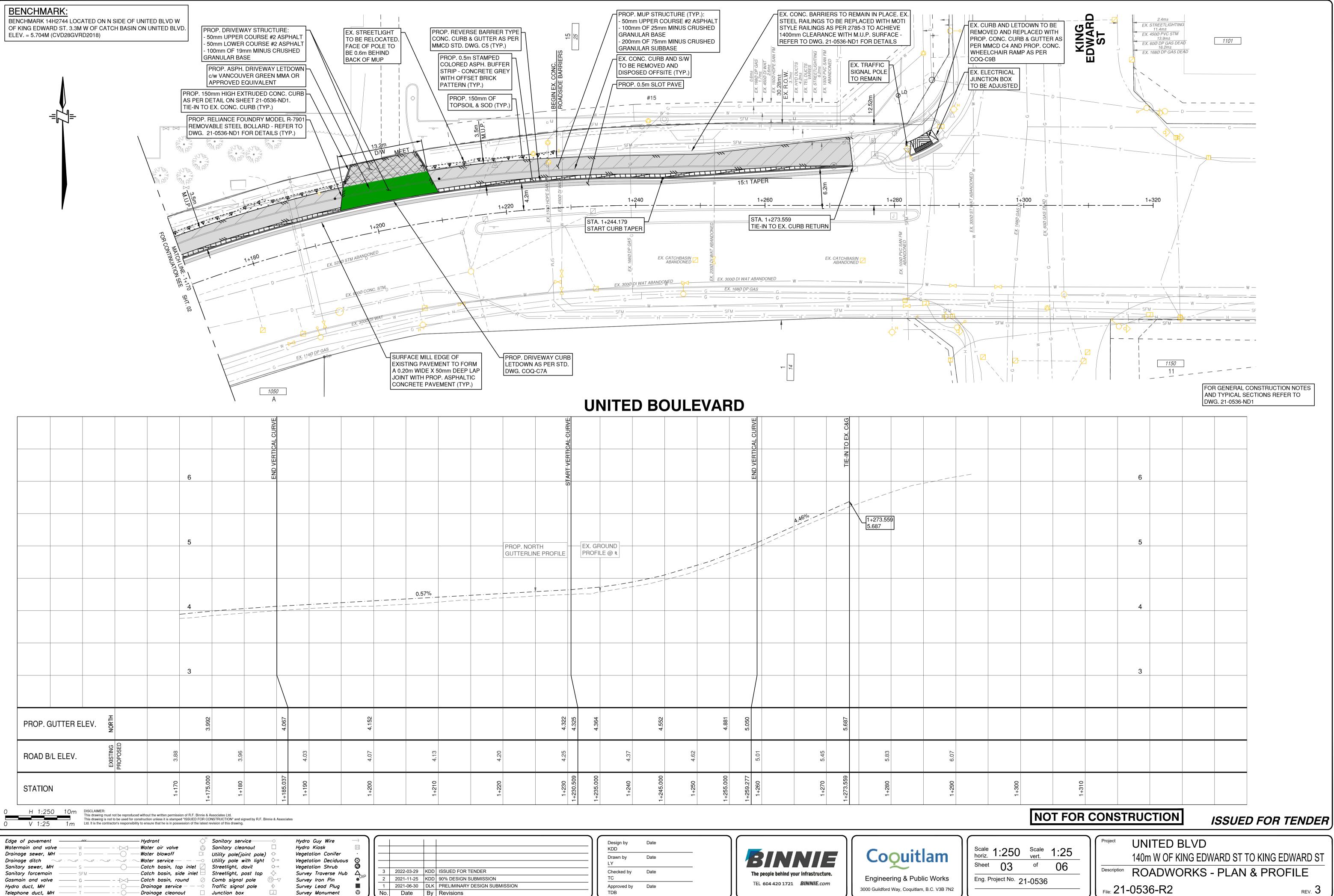


Plot Date: March 28, 2022

MISSION	

TDB

	BENCHMARK:
DRIVEWAY STRUCTURE: n UPPER COURSE #2 ASPHALT n LOWER COURSE #2 ASPHALT m OF 25mm MINUS CRUSHED GRANULAR BASE	BENCHMARK 14H2744 LOCATED ON N SIDE OF UNITED BLVD W OF KING EDWARD ST. 3.3M W OF CATCH BASIN ON UNITED BLVD. ELEV. = 5.704M (CVD28GVRD2018)
ASPH. DRIVEWAY LETDOWN NCOUVER GREEN MMA OR DVED EQUIVALENT	
/ 150mm OF DIL & SOD (TYP.)	
RELIANCE FOUNDRY MODEL R-7901 VABLE STEEL BOLLARD - REFER TO 21-0536-ND1 FOR DETAILS (TYP.)	
TRAIN TRACKS	NTED. AND TAR
VED AND DISPOSED TE. REPLACE WITH ROAD STRUCTURE.	ТО
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	H T K
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C12 	FOR GENERAL CONSTRUCTION NOTES
EX. 6000 CONC.STM ABANDONED	
EX. 6000 CONC. ABANDONEL	FOR GENERAL CONSTRUCTION NOTES AND TYPICAL SECTIONS REFER TO DWG. 21-0536-ND1
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$\frac{20 \text{ vert. } 1.23}{2 \text{ of } 06} \qquad \qquad$	m W OF KING EDWARD ST TO 140m W OF KING EDWARD ST OADWORKS - PLAN & PROFILE
^{No.} 21-0536	



Plot Date: March 28, 2022

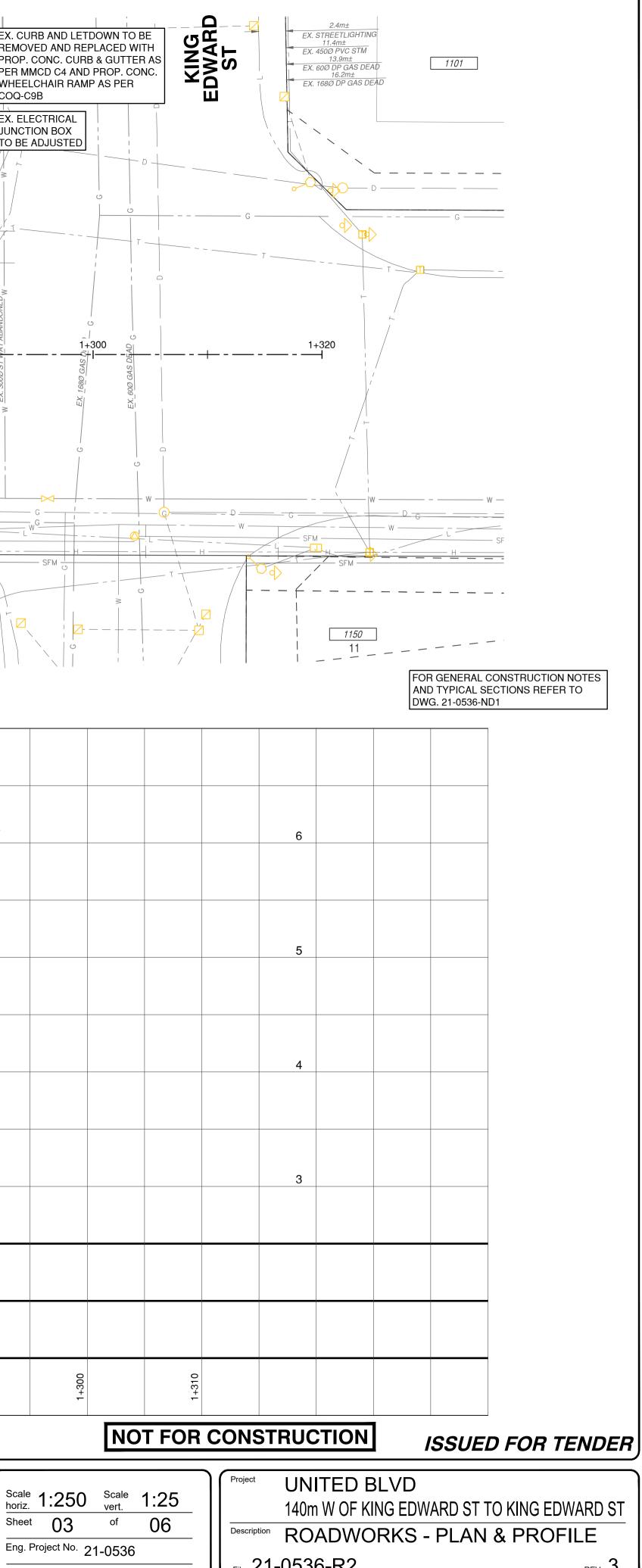
			CAL CURVE							CAL CURVE			TO EX. C&G			
			START VERTICAL CURVE							END VERTICAI			TIE-IN TO EX.			
			S													
												4.46%		1+273.555 5.687		
	PROP. NOR GUTTERLIN	RTH NE PROFILE		EX. GF PROFI	ROUND LE @ 1					/	/					
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		CCE 1	4.325	4.364		4.552		4. 881	5.050				5.687			
4.20		4 2 5	041		4.37		4.62			5.01		5.45		5.83	6.07	
1+220		020 1	1+230.509	1+235.000	1+240	1+245.000	1+250	1+255.000	1+259.277	1+260		1+270	1+273.559	1+280	1+290	
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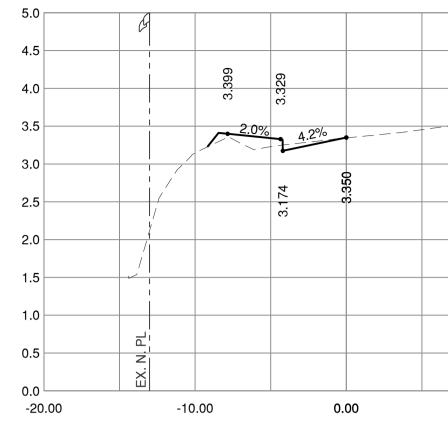
TDB

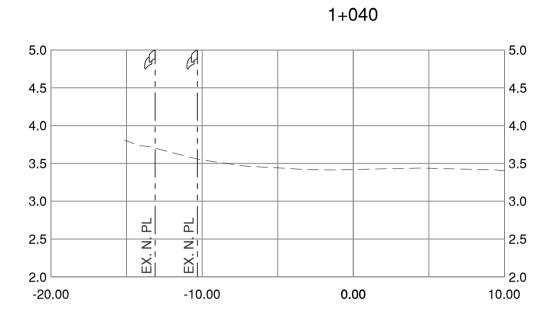


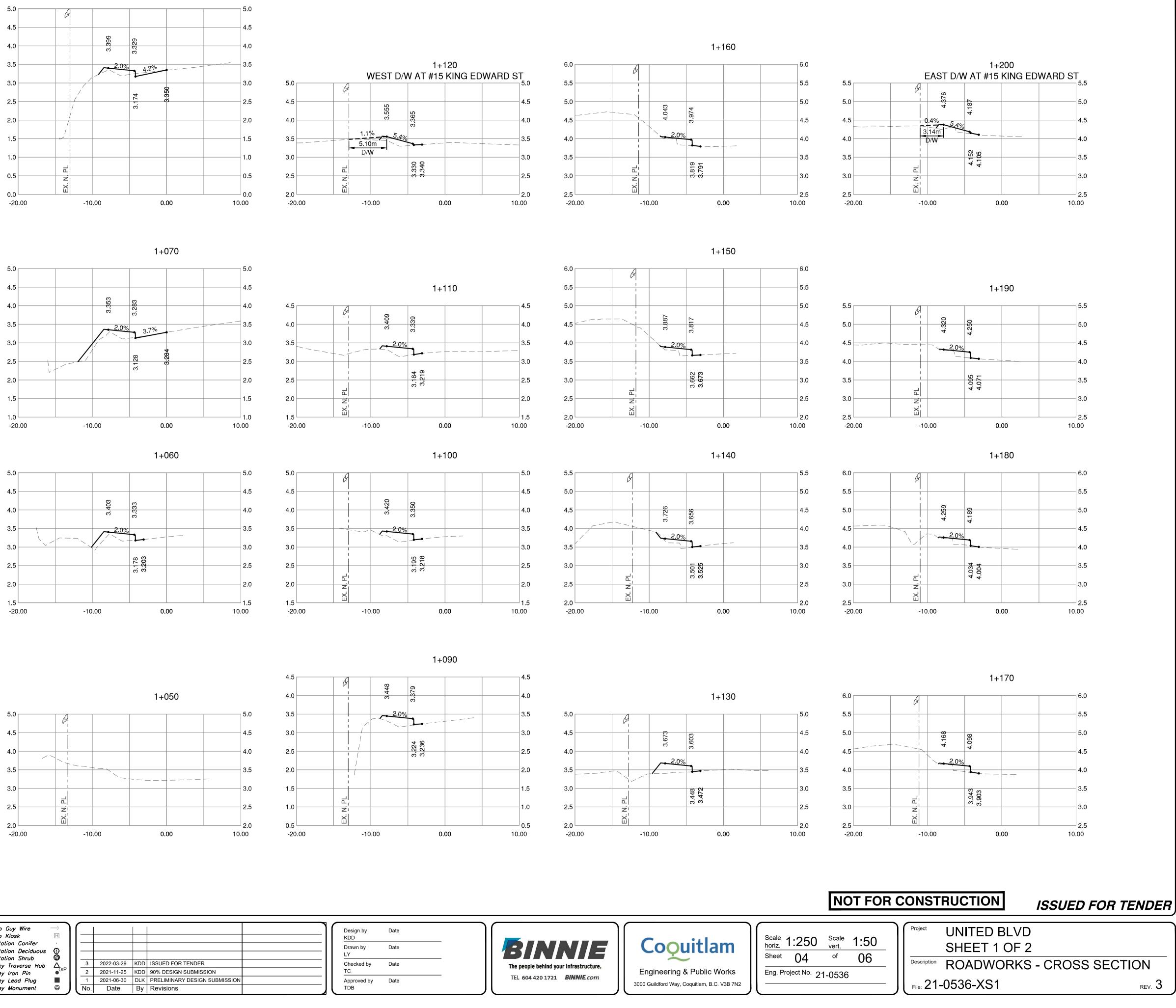


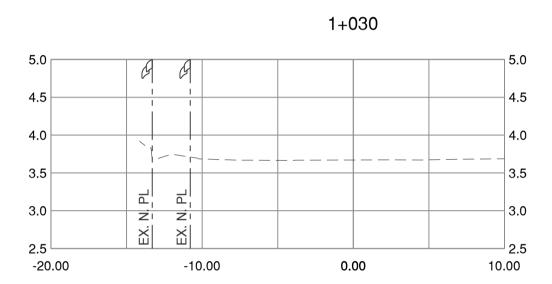


1+080

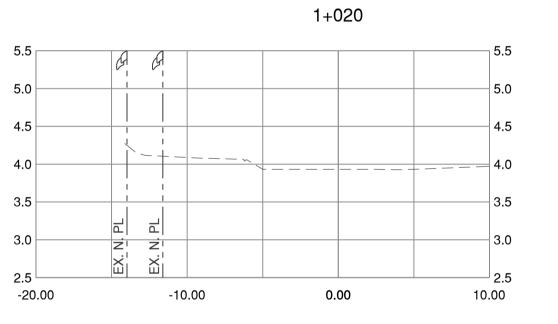




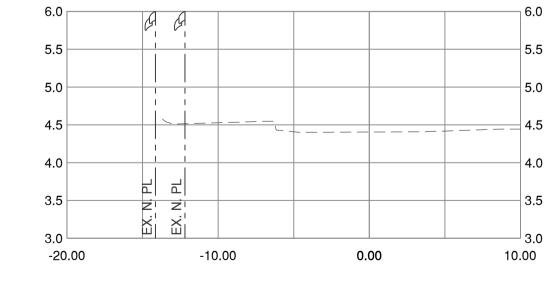


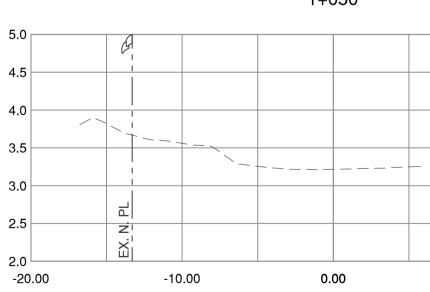






1+010

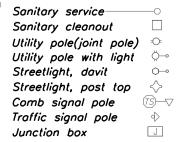




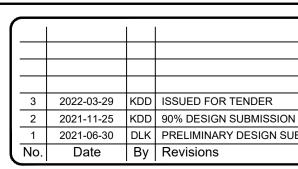
 H
 1:250
 10m
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 0

Edge of pavement —	///	
Watermain and valve —	W	—— – – – – Water air valve 🛛
Drainage sewer, MH —	D	— — Water blowoff 🛛 🖂
Drainage ditch 🛛 📈 🗤		\sim \sim \sim Water service — \sim \sim \sim
Sanitary sewer, MH —	s	————————Cotch basin, top inlet 🗌
Sanitary forcemain —	SFM	—————————Catch basin, side inlet \Box
		—— – –––– Cotch basin, round 🛛 ⊘
Hydro duct, MH 🛛 ——	— н —	Droinage service

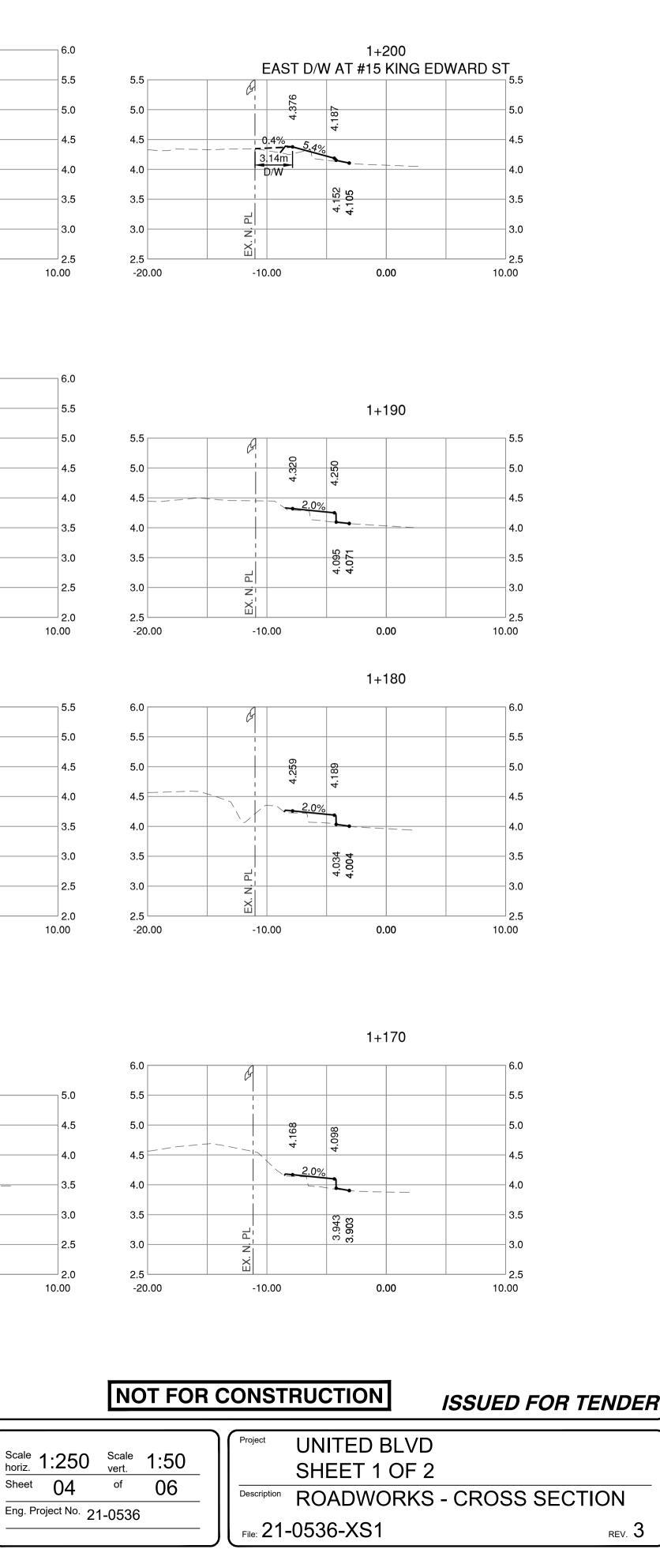


Hydro Guy Wire –
Hydro Kiosk
Vegetation Conifer
Vegetation Deciduous
Vegetation Shrub
Survey Traverse Hub
Survey Iron Pin
Survey Lead Plug
Survey Monument

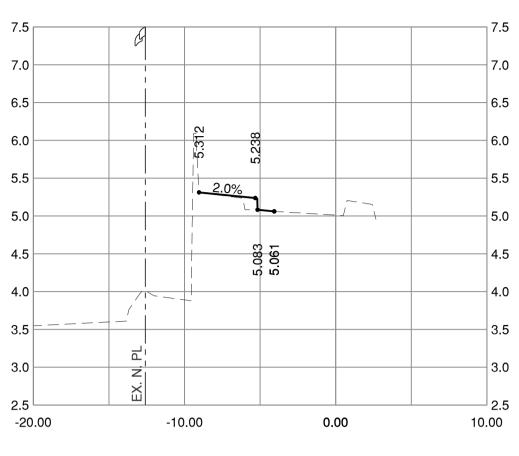


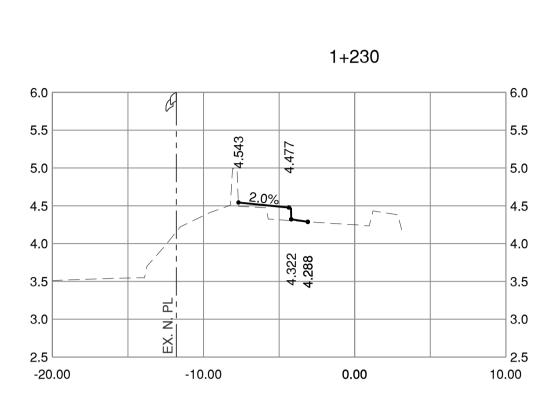
Plot Date: March 28, 2022

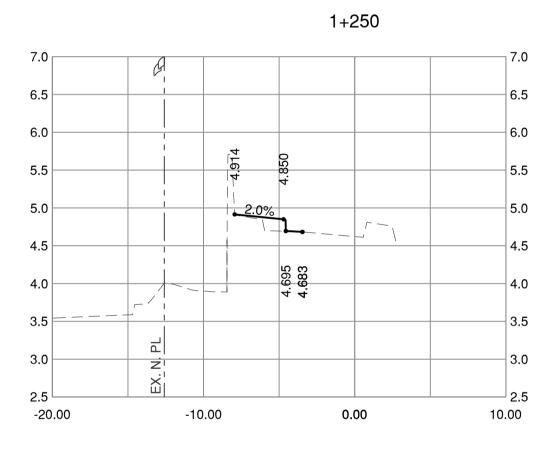
Telephone duct, MH

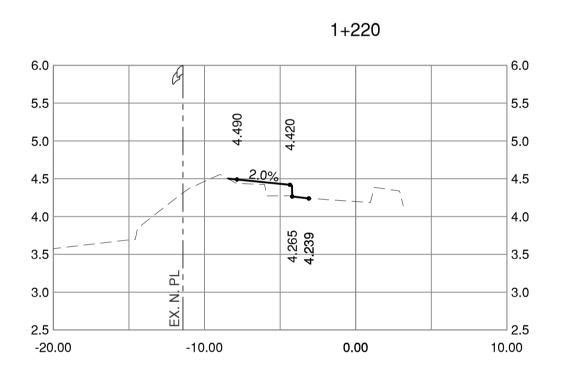


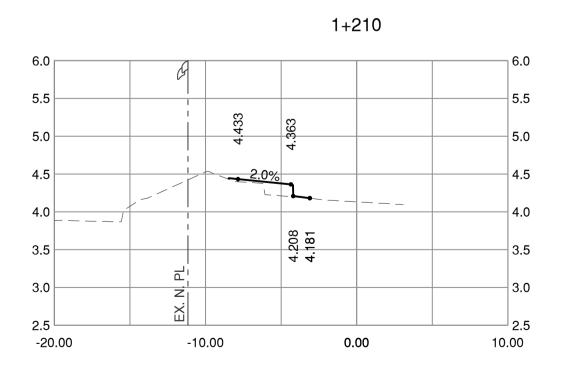


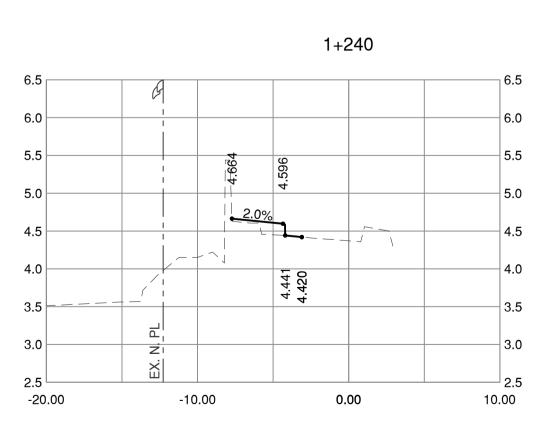












0	H 1:250	10m	DISCLAIMER: This drawing must not be reproduced without the written permission of R.F. Binnie & Associates Ltd.
			This drawing in not to be used for construction unless it is stamped "ISSUED FOR CONSTRUCTION" and signed by R.F. Binnie & Associates
Ō	V 1:50	2m	Ltd. It is the contractor's responsibility to ensure that he is in possession of the latest revision of this drawing.

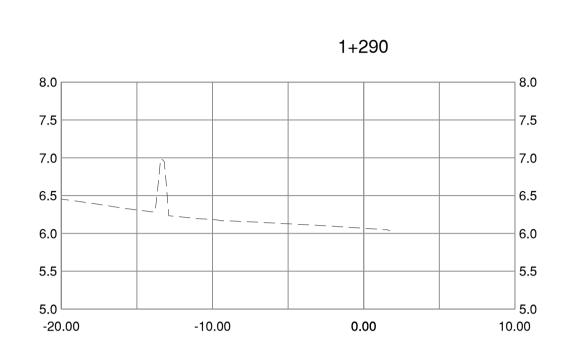
Edge of pavement —	///		- Hydrant	Sanitary service	
Watermain and valve —	W	— – – – – – – – – – – – – – – – – – – –	-Water air valve 🖄	Sanitary cleanout	
Drainage sewer, MH —	D	·	-Water blowoff	Utility pole(joint pole)) =C
Drainage ditch 🛛 📈			Water service — — — — — — — — — — — — — — — — — — —	Utility pole with light	Ç
Sanitary sewer, MH —	S		-Catch basin, top inlet 🖂	Streetlight, dovit	С
Sanitary forcemain —	SFM		-Catch basin, side inlet ⊟	Streetlight, post top	\leq
Gasmain and valve —	G		-Catch basin, round 🛛 ⊘	Comb signal pole	(TS)-
Hydro duct, MH 🛛 —	— н —		-Drainage service $$	Traffic signal pole	¢
Telephone duct, MH —	— т —	— Ō—	Drainage cleanout	Junction box	J

Hydro Guy Wire Hydro Kiosk Η

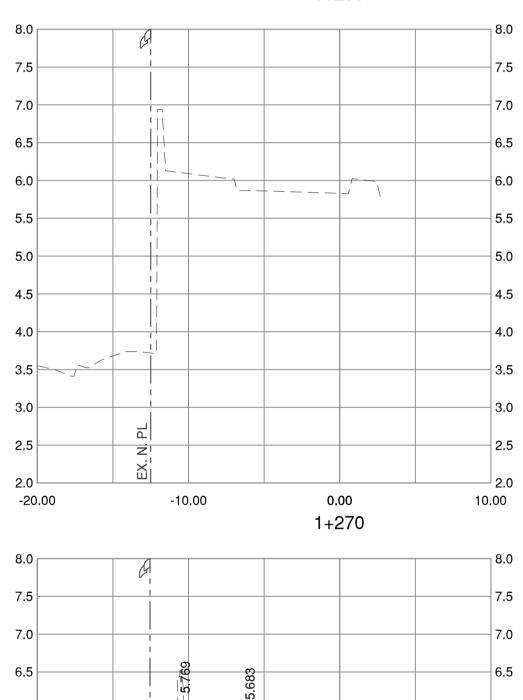
 Hydro Klosk
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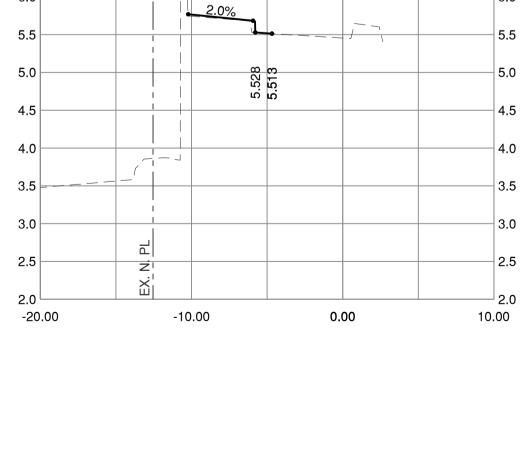
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(
	3	2022-03-29	KDD	ISSUED FOR TENDER
	2	2021-11-25	KDD	90% DESIGN SUBMISSION
	1	2021-06-30	DLK	PRELIMINARY DESIGN SUE
l	No.	Date	By	Revisions

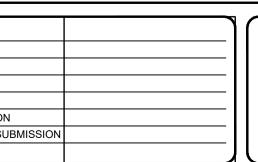
1+260











Design by KDD Date Drawn by Date LY Date Checked by TC Approved by TDB Date

6.0

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Coouitlam Engineering & Public Works

3000 Guildford Way, Coquitlam, B.C. V3B 7N2

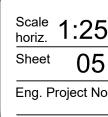
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CD 6

NOT FOR CONSTRUCTION

ISSUED FOR TENDER

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]	Project	UNITED BLVD	
		SHEET 2 OF 2	
	Description	ROADWORKS - CROSS SECTIO	DN
	File: 21 -	-0536-XS2	REV. 3

