

City of Coquitlam

Contract Documents 72495

Thermal Drive Pavement Rehabilitation



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Contract No. 72495

Thermal Drive Pavement Rehabilitation

Project Construction Documents

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Invitation to Tenderers



INVITATION TO TENDER

DATE OF ISSUE: April 16, 2021

Tender No. 72495

Thermal Drive Pavement Rehabilitation

The City of Coquitlam invites tenders for Contract 72495 – Thermal Drive Pavement **Rehabilitation** generally consisting of the following, but not limited to:

- Approx. 8,300 sq.m of Pavement Rehabilitation Work; •
- Re-instatement of thermoplastic pavement markings and traffic control loops;
- Other miscellaneous and incidental works as contained in the Contract Documents.

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 Friday, May 7, 2021

("Closing Date and Time")

Instructions for Tender Submission

Tender submissions are to be consolidated into one (1) .pdf file and uploaded electronically through OFile, 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.)

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

Inquiries

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

<u>Tender 72495</u>

Thermal Drive Pavement Rehabilitation

INSTRUCTIONS TO TENDERERS

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CITY OF COQUITLAM Contract No. 72495

Contract:

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

Thermal Drive Pavement Rehabilitation

	Reference No. 72495		
1.0	Introduction	1.1	 These Instructions apply to and govern the preparation of tenders for this <i>Contract</i>. The <i>Contract</i> is generally for the following work: Approx. 8,300 sq.m of Pavement Rehabilitation Work; Re-instatement of thermoplastic pavement markings and traffic control loops; Other miscellaneous and incidental works as contained in the Contract Documents.
		1.2	All inquiries regarding this Tender are to be submitted in writing referencing the Tender Name and Number sent to:
			E-mail <u>bid@coquitlam.ca</u>
			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.
2.0	Tender Documents	2.1	The Tender Documents which a Tenderer should review to prepare a Tender consist of all of the <i>Contract Documents</i> 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 <i>Contract Documents</i> 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 <i>Tender Closing Date</i> . All sections of this publication are by reference included in the <i>Contract Documents</i> .
		2.3	Any additional information made available to Tenderers prior to the Tender Closing Time by the Owner or representative of the Owner, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the Contract

Documents. Such additional information is made available only for the

	CITY OF COQUITLAM Contract No. 72495		IT 3
			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 7, 2021
			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: http://qfile.coquitlam.ca/bid
			 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: <u>bid@coquitlam.ca</u>
			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.
		3.5	Tenders will not be opened in public. The unevaluated results will be

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 BC 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, BC 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 Ph: 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

CITY OF COQUITLAM Contract No. 72495		IT 5	
		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 personally; if a partner of joint venture is a corporation then such	

5.0

- 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 FT5.1.1, including a Performance Bond and a Labour and Material Payment Bond as described in FT5.1.1(a), failing which the provisions of FT6.1 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 *Owner*.

		6.2	A tenderer may, at the tenderer's election, submit an alternative tender (" <i>Alternative Tender</i> ") which varies the materials, products, designs or equipment by the <i>Owner as Approved Equals</i> as the case may be, <u>but an</u> <u>Alternative Tender must be in addition to, and not in substitution for a tender</u> which conforms to the requirements of the <i>Contract Documents</i> .
		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 Contract Documents	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	If a tenderer discovers any contradictions or inconsistencies in the <i>Contract Documents</i> or its provisions, or any discrepancies between a provision of the <i>Contract Documents</i> and conditions at the <u><i>Place of the Work as</i></u> observed in an

	CITY OF COQUITLAM Contract No. 72495			IT 8
			examination Instructions t	under paragraph 8 of the person named in paragraph 1.2 of the o Tenderers.
		9.3		considers it necessary, the <i>Owner</i> may issue written addenda to ication (s) of the <i>Contract Documents</i> .
		9.4		pretation or representations from the <i>Owner</i> or any e of the <i>Owner</i> will affect, alter, or amend any provision of the aments.
10.0	Prices	10.1	of the comple <i>Quantities and</i> of the above,	Price will represent the entire cost excluding <i>GST</i> to the <i>Owner</i> ete <i>Work</i> based on the estimated quantities in the <i>Schedule of</i> <i>d Prices</i> of the Form of Tender. Notwithstanding the generalities tenderers shall include in the tendered prices (including unit sum prices, or other forms of pricing) sufficient amounts 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 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	applicable lav performing th	prices and all subcontracts must allow for compliance with all vs regarding trade or other qualifications of employees ne <i>Work</i> , and payment of appropriate wages for labour included for the <i>Work</i> .
11.0	Taxes	11.1	with respect t	prices shall cover all taxes and assessments of any kind payable to the <i>Work</i> , but shall not include <i>GST</i> . <i>GST</i> shall be listed as a item as required by GC 19.3.
12.0	Amendment of Tenders	12.1	by Email or fa Tenderers at a amendment o	ay amend or revoke a tender by giving written notice, delivered ox, to the office referred to in paragraph 3.4 of the Instructions to any time up until the <i>Tender Closing Date and Time</i> . An or revocation that is received after the <i>Tender Closing Date and</i> t be considered and shall not affect a tender as submitted.
		12.2		nt or revocation must be signed by an authorized signatory of in the same manner as provided by paragraph 5.1 of these o 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)

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. **Duration of** 13.0 13.1 After the Tender Closing Time, a tender shall remain valid and revocable as set Tenders out in paragraph 5.1 of the Form of Tender. **Oualifications** By submitting a tender a tenderer is representing that it has the competence, 14.0 14.1 of Tenderers qualifications and relevant experience required to do the Work.

IT 9

Award

15.1

In exercising its discretion, the *Owner* will have regard to the information provided in the Appendices to the Form of Tender as described under IT5.3 including the proven experience of the tenderer, and any listed subcontractors, to do the *Work*.

Tenders received will be evaluated to provide the City with greatest value based on quality, service, price and experience. Evaluation Criteria will include 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
- Any other criteria, the City deems, at its sole discretion, necessary to evaluate Tenders;
- 6. Lowest price will not necessarily be accepted.

The City may, in its absolute discretion, not award to a Tenderer if the Tenderer, or any officer or director of a corporate Tenderer, is or has been engaged, either directly or indirectly through another corporation or legal entity, in a legal action against the City and its elected and appointed 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 *Local Government Act*, the *Community Charter* or any other enactments; within five years of this Tender Offer.

For purposes of this section, the words "legal action" includes, without limitation, mediation, arbitration, hearing before an administrative tribunal or lawsuit filed in any court.

Without limiting the City's sole discretion, in determining whether or not to award to a Tenderer pursuant to this clause, the City will consider such factors as whether the legal action is likely to affect the Tenderer's ability to work with the City and its employees, agents, consultants and representatives or any of them and whether the City's past experience with the Tenderer 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 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 extended total for that tender item shall both be deemed to be, and the costs for that tender item shall be zero deemed to be included in other tender items prices;
 - 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 sub-contractors during

	CITY OF COQUITLAM Contract No. 72495		IT 12
			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 <i>Owner</i> reserves the right to object to any of the subcontractors listed in a tender. If the <i>Owner</i> objects to any of the subcontractor(s) then the <i>Owner</i> will permit a tenderer to, within 5 days, propose a substitute subcontractor(s) acceptable to the <i>Owner</i> provided that there is not resulting adjustment in the <i>Tender Price</i> 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 <i>Owner</i> objects to a listed <i>Subcontractor(s)</i> , the tenderer may, rather than propose a substitute subcontractor(s), consider its tender rejected by the <i>Owner</i> and by written notice withdraw it tender. The <i>Owner</i> shall, in the event, return the tenderer's bid security
17.0	Optional Work	17.1	If the <i>Schedule of Quantities and Prices</i> includes any tender prices for <i>Optional or Provisional Work</i> , as defined in GC 7.4.1, the tenderers must complete all the unit prices for such <i>Optional or Provisional Work</i> . Such tender prices shall not include any general overhead costs, or other costs, or profit, not directly related to the <i>Optional or Provisional Work</i> .
		17.2	Notwithstanding that the <i>Owner</i> may elect not to proceed with the <i>Optional or Provisional Work</i> , the tender prices for any <i>Optional or Provisional Work</i> , including the extended totals for <i>Optional or Provisional Work</i> unit prices, shall be included in the <i>Tender Price</i> for the purpose of any price comparisons between tenders.

Form of Tender

Coouitlam

Form of Tender

Tender No. 72495

Thermal Drive Pavement Rehabilitation 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) Friday, May 7, 2021

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 Qfile 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 COQUITLAM 3000 Guildford Way Coquitlam BC V3B 7N2

May 2021

(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: Thermal Drive Pavement Rehabilitation

Reference No. 72495

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 September 30, 2021; 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 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 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:

7

8

	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>Ow</i> contracts with another party to perform the <i>Work</i> .
OUR A	DDRESS	is as follows:
Phone	2:	
Fax:		
Email:	:	
Atten	tion:	
This T	ender is e	executed thisday of, 20
Contra		
		AME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)
(FULL	LEGAL NA	AME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)
		AME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)
(AUTH	IORIZED	SIGNATORY)
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(AUTH (AUTI WE CC	HORIZED HORIZED DNFIRM: our Go 8.1.1	SIGNATORY) SIGNATORY) bods and Services Tax (GST) registration status is as follows: for information purposes, our GST Registration Number is:
(AUTH (AUTI WE CC	HORIZED HORIZED DNFIRM: our Gc 8.1.1 (GST R	SIGNATORY) SIGNATORY) bods and Services Tax (GST) registration status is as follows: for information purposes, our GST Registration Number is:
(AUTH (AUTI WE CC	HORIZED HORIZED DNFIRM: our Gc 8.1.1 (GST R or; 8.1.2	SIGNATORY) SIGNATORY) oods and Services Tax (GST) registration status is as follows: for information purposes, our GST Registration Number is: EGISTRATION NUMBER) by signature hereunder, we certify we are not required to provide a registration
(AUTH (AUTI WE CC	HORIZED HORIZED DNFIRM: our Gc 8.1.1 (GST R or; 8.1.2 (AUTH	SIGNATORY) SIGNATORY SIGNATORY SIGNATORY bods and Services Tax (GST) registration status is as follows: for information purposes, our GST Registration Number is: EGISTRATION NUMBER By signature hereunder, we certify we are not required to provide a registration number:

APPENDIX 1 FORM OF TENDER

Contract 72495

Thermal Drive Pavement Rehabilitation

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)

	MMCD Ref. /								
item No.	(Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT			
1.00	01 55 00	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING							
1.01	1.5.1	Traffic Control and Management Incidental to Contract							
2.00	01 57 015	ENVIRONMENTAL PROTECTION							
2.01	(1.6.1)	ESC supply & installation, maintenance and removal		Incidental to Contract					
3.00	01 58 015	PROJECT IDENTIFICATION	1						
3.01	(1.3.1)	Construction Zone Information Signs	ea.	5					
3.02	(1.3.2)	Changeable Message Sign (Qty 1)	per month	1					
4.00	03 30 205	CONCRETE WALKS, CURBS AND GUTTERS							
4.01	(1.4.5)	Concrete Monolithic Sidewalk - 100mm thick – Broom Finished and as shown and described in the Contract Documents (Provisional)	sq.m	20					
4.02	(1.4.5)	Concrete Monolithic Driveway Letdown, Sidewalk Crossing, and Driveways - COQ-C7C - and as shown and described in the Contract Documents (Provisional)	sq.m	200					
5.00	31 22 165	RESHAPING GRANULAR ROADBED	П			r			
5.01	(1.4.1)	Reshaping	sq.m	8,300					
6.00	31 24 135	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION	T	1					
6.01	(1.8.4)	Remove and dispose existing concrete, sidewalk panels and driveway letdowns (Provisional)	sq.m	220					
6.02	(1.8.5)	Common Excavation Including Offsite Disposal (Provisional)	cu.m	400					
7.00	32 01 16.75	COLD MILLING	•						
7.01	(1.5.4)	Full Depth Milling (up to 160mm)	sq.m	8,300					
7.02	(1.5.4)	Surface Milling (50mm)	sq.m	990					
8.00	32 11 235	GRANULAR BASE	1						
8.01	(1.4.3)	25mm Minus Granular Base, variable thickness (Provisional)	tonne	600					
9.00	32 12 165	HOT-MIX ASPHALT CONCRETE PAVING	•						
9.01	(1.5.1)	Machine Laid Hot Mix Asphalt (19mm MOT Class 1 Medium Mix with 80-100 Group A Asphalt Binder) - 50mm 1 lift	tonne	1,140					
9.02	(1.5.1)	Machine Laid Asphaltic Concrete Paving - Lower Course #1 (50mm 1 lift)	tonne	1,020					
9.03	(1.5.1)	Asphalt Curb (50mm x 175mm)	l.m	650					
10.00	32 17 235	PAINTED PAVEMENT MARKINGS							
10.01	(1.5.3)	Supply & Installation Thermoplastic Pavement Markings	l.s.	1					
10.02	(1.5.4)	Remove and Reinstate existing signage	l.s.	1					
11.00	33 44 015	MANHOLES AND CATCHBASINS							
11.01	(1.5.2)	Supply & installation of Dobney B23/24 Catch Basin Grate & Frame including removal and disposal of existing grate & frame (Provisional)	ea.	1					
11.02	(1.5.3)	Manhole Frame and Lid Replacement & Adjustments (Provisional)	ea.	16					
11.03	(1.5.3)	Nelson Type Box Replacement & Adjustments (Provisional)	ea.	2					
12.00	34 41 13	TRAFFIC SIGNALS							
12.01	1.9	Supply and installation of Traffic Detector Loops	ea.	4					

Total Tendered Price (exclude GST): \$_

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

Name of Contractor:

FORM OF TENDER

Contract 72495

Thermal Drive Pavement Rehabilitation

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

INDICATE SCHEDULE WITH BAR CHART WITH CONSTRUCTION DURATIONS

Construction Activity		JULY		AUGUST		SEPTEMBER						
,	2	3	4	1	2	3	4	1	2	3	4	5

Substantial Completion Date: September 30, 2021

Proposed Disposal Site:

FORM OF TENDER

Contract 72495 Thermal Drive Pavement Rehabilitation

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 N0:	

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

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

FORM OF TENDER

Contract 72495 Thermal Drive Pavement Rehabilitation

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 72495 Thermal Drive Pavement Rehabilitation

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 72495 Thermal Drive Pavement Rehabilitation

BID BOND

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 ______, 2021, 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 ha	nd 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	_, 2021.		

SIGNED, SEALED AND DELIVERED In the presence of:

PRINCIPAL

SURETY

FORM OF TENDER

Contract 72495 Thermal Drive Pavement Rehabilitation

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: 72495

Contract Name: Thermal Drive Pavement Rehabilitation

Description of Work:

- Approx. 8,300 sq.m of Pavement Rehabilitation Work;
- Re-instatement of thermoplastic pavement markings and traffic control loops;
- Other miscellaneous and incidental works 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 _____ 2021.

Contract: Thermal Drive Pavement Rehabilitation

Reference No. 72495

BETWEEN:

The City of Coquitlam 3000 Guildford Way Coquitlam BC 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 **September 30, 2021,** 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, BC 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 BC 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*.

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)

Thermal Drive Pavement Rehabilitation

Reference No: 72495

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

Thermal Drive Pavement Rehabilitation

Reference No: 72495

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: As-Built Records
- Appendix C: Supplementary Detailed Drawings

Bound Separately:

• Contract Drawings (R.F. Binnie and Associates Ltd.):

TITLE	SHEET NO.	REVISION NO.	DATE
Thermal Drive Road Rehabilitation – Issued For Tender - Cover Page	N/A	N/A	N/A
Thermal Drive – Typical Sections and Notes	2 of 15	2	2021-04-14
Thermal Drive – Roadworks – Plan and Profile	3 of 15	2	2021-04-14
Thermal Drive – Roadworks – Plan and Profile	4 of 15	2	2021-04-14
Thermal Drive – Roadworks – Plan and Profile	5 of 15	2	2021-04-14
Thermal Drive – Roadworks – Plan and Profile	6 of 15	2	2021-04-14
Thermal Drive – Roadworks – Plan and Profile	7 of 15	2	2021-04-14
Thermal Drive – Roadworks – Plan and Profile	8 of 15	2	2021-04-14
Thermal Drive – Roadworks – Plan and Profile	9 of 15	2	2021-04-14
Thermal Drive – Roadworks – Cross Sections	10 of 15	1	2021-04-14
Thermal Drive – Roadworks – Cross Sections	11 of 15	1	2021-04-14
Thermal Drive – Roadworks – Cross Sections	12 of 15	1	2021-04-14
Thermal Drive – Roadworks – Cross Sections	13 of 15	1	2021-04-14
Thermal Drive – Roadworks – Cross Sections	14 of 15	1	2021-04-14
Thermal Drive – Roadworks – Cross Sections	15 of 15	1	2021-04-14

Supplementary General Conditions

SUPPLEMENTARY GENERAL CONDITIONS

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		Page
Supplemen	tary General Conditions to MMCD Volume II, 2009 Issue	SGC 1 to SGC 15
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1.	1 Abnormal Weather	SGC 3
	DOCUMENTS	
2.:	2 Interpretation	SGC 3
Section 4:	CONTRACTOR	SGC 3 to 6
4.		SGC 3 to 4
4.2	2 Safety	SGC 4
4.	3 Protection of Work, Property and the Public	SGC 4
4.0	5 Construction Schedule	SGC 4 to 5
4.	7 Superintendent	SGC 5
4.3	8 Workers	SGC 5
4.9	9 Materials	SGC 5
4.	11 Subcontractors	SGC 5
4.	12 Tests and Inspections	SGC 6
4.	14 Final Clean-up	SGC 6
4.1	16 Notice of Disruption	SGC 6
Section 7:	CHANGES	SGC 6 to 7
7.	1 Changes	SGC 6
7.4	4 Optional Work	SGC 6 to 7
Section 9:	VALUATION OF CHANGES AND EXTRA WORK	SGC 7
9.3	2 Valuation Method	SGC 7
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Section 10	FORCE ACCOUNTS	SGC 7
10	0.1 Force Account Costs	SGC 7
Section 12:	HAZARDOUS MATERIALS	
12	.2 Discovery of Hazardous Materials	SGC 8
Section 13	DELAYS	
13	.1 Delay by Owner or Contract Administrator	SGC 8
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Section 18:	PAYMENT	
18	.1 Preparation of Payment Certificate	SGC 9
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Section 21	WORKERS COMPENSATION REGULATIONS	SGC 9 to 10
21	.2 Contractor is "Prime Contractor"	SGC 10

Section 2		RANCE	
		General	
	24.2	Required Insurance	SGC 10 to 11
	24.3	Physical Loss or Damage with Respect to New Buildings under	
		Construction and/or Major Additions to Existing Structures	
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Section 2		NTENANCE PERIOD	
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Section 2	27: CON	FRACTOR PERFORMANCE EVALUATION	SGC 15
APPENDI	ICES	SGC 16 to SGC 21	
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Appendix II		,	
	Appendi	x III Certificate of Insurance	SGC 20

Prime Contractor Designation Letter...... SGC 21

Appendix IV

CITY OF COQUITLAM Contract No. 72495		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 or 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 Mountain Rain Gauge will be used to compare the rainfall summary versus the available data from Environment Canada. <u>City of Coquitlam Rainfall</u>	5 / 1
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 <i>Contractor</i> is responsible for all survey layout for the construction of the Work to the design specifications and/or elevations as shown on the contract drawings or as amended on 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 i s s i /
		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.	i t t
			No Sunday work will be permitted, except in case of emergency and then only with the written permission of the Contract 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 writing at least (4) days in advance of such holiday, stating those	ı

	COQUITLAM No. 72495	Supplei	mentary General Conditions SC	GC-
			places where said work is to be conducted. In case the Contra fails to give such notice in advance of any Statutory Holiday work within the terms of the contract shall be done on s holiday.	/, n
			The cost of inspections on a Sunday or on a Statutory Holida City staff/s will be at Contractor's expense.	ı y b
4.2	Safety	4.2.2	<i>(Add new clause 4.2.2 as follows):</i> In an emergency, gas pipeline rupture or leak, Contact Fortis 24 Hour Emergency Line (1-800-663-9911) and Coquitlam (911) immediately and then City Coquitlam Utility Control Ce (604-927-6287).	Fil
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 W and the Owner's property and other person's property f damage. The Contractor shall at the Contractor's own expe make good any such damage which arises as the result of Contractor's operations. If the Contractor causes damage private property, the Contactor must obtain a written rele from the owner of the damaged property.	fro ens f th e f
		4.3.5.1	<i>(Add clause 4.3.5.1 as follows):</i> The Contractor shall notify the Contract Administr immediately if damage occurs to any City or third party utilit structure.	
		4.3.7	(Add new clause 4.3.7 as follows): Any lands other than those upon which the work is to performed, which may be required for temporary facili storage purposes or access to the work site, other than th provided by the Owner, shall be provided by the Contractor a own cost, with no liability to the Owner.	itie ho:
4.6	Construction Schedule	4.6.1	(Replace clause 4.6.1 as follows): The Contractor shall within the time set out in the Form of Tenprepare and submit to the Contract Administrator for his appra a construction schedule (the Baseline Construction Schedule indicating the planned start and completion dates of mactivities of the Work. The Baseline Construction Schedule shall indicate completion of the Work in compliance with specified Milestone Dates, including Substantial Performance	rov dul naje sha e ar ar
		4.6.6	(Replace clause 4.6.6 as follows): The time for the performance of the Work shall commence or date specified in the Notice to Proceed, or if not so specified the date the Notice to Proceed is issued. The Notice to Proce will not be issued until the documentation required un paragraph 5.1.1 of the Form of Tender has been submitted the construction schedule has been approved.	d, c cee nd
Those	Supplementary Concert Con	4.6.8	(Add new clause 4.6.8 as follows): Any requests to lengthen the work schedule shall be mad writing by the Contractor within five working days of knowle to be read in conjunction with the General Conditions contained	edg

CITY OF COQUITLAM Contract No. 72495		Supple	mentary General Conditions	SGC-5
			of the reason for the extension. The Contract Ad adjust the schedule at his discretion upon recein request.	
4.7	Superintendent	4.7.4	(Add new clause 4.7.4 as follows): The key personnel named in the Contractor's Te shall remain in these key positions throughout the event that key personnel leave the Contractor's f unknown reason are unable to continue fulfilling Contractor must propose a suitable replaceme written consent from the Owner. Acceptance o replacement is at the sole discretion of Administrator and the Owner.	project. In the firm, or for any their role, the nt, and obtain f 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 b purposes of the Contract who, in the opinion of Administrator, is incompetent or has cond improperly, and the Contractor shall not permit ap been removed to return to the Place of Work.	by him for the of the Contract ucted 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 p from the weather, dirt, foreign matter, vanda c) Arrange for and/or verify the time of delivery to be supplied by himself or the Owner of delivery will coincide with his work schedule d) Examine with the Contract Administrator the details of all materials supplied by the Own and place of delivery or those materials alread of Work, and prepare and sign a Statement Acceptance, specifically noting and rejecting material; e) Replace all materials supplied by himself f) Replace all materials found to be defective in which have been supplied by himself. 	ntil it has been revent damage alism and theft; of all materials to ensure that s. e quantities and her at the time ady at the Place ht of Materials g any defective or the Owner damaged while
4.11	Subcontractors	4.11.3	(Replace clause 4.11.3 as follows): The Contractor shall, upon notice of the Contract remove any Subcontractor employed by him for t the Contract who, in the opinion of the Contract A incompetent or has conducted himself improp Contractor shall not permit the Subcontractor removed to return to the Place of Work. The Subcontractor under this clause shall not be consid and the Contract Price and the Contract Time adjusted.	he purposes of dministrator, is perly, and the who has been removal of a dered a Change

4.12	Test and Inspections	4.12.1	(Replace clause 4.12.1 as follows): The Contractor shall perform or cause to be performed all tests, inspections and approvals of the Work as described in the Contract Documents or a required by the Contract Administrator as part of Quality Control. The Contractor shall complete all the necessary testing at the frequencies described in the Contract Document unless otherwise approved by the Contract Administrator. Acceptable test and inspection results will not relieve the Contractor of its obligations under the Contract to correct defects 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 will result in shut-down of the work. The Contractor must take all steps to mitigate impacts to aquatic resources, environment and habitats before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut- 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 machinery and equipment relating to the Work that is not required for the performance of the remaining Work. The Contractor shall also remove waste, debris and waste products other than caused by the Owner or Other Contractors, and leave the Place of Work clean and suitable for occupancy by the Owner unless otherwise specified in the Contract Documents or directed by the Contract 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 week and not more than two weeks prior to construction. Notify occupants directly affected by the work 48 hours in
			advance of commencement of construction. Cost of notifying area occupants of ensuing construction and delivery of the notices is incidental to the Contract.
7.0	CHANGES		
7.1	Changes	7.1.3	(<i>Replace clause 7.1.3 as follows</i>): Additional work that the Owner may wished performed that does not satisfy the requirements of subparagraphs (a) and (b) of GC 7.1.1 is extra work (Extra Work) and is not a Change. Pursuant to GC 8, Extra Work may be declined by the Contractor or may, upon agreement between the parties, be undertaken as Extra Work.
7.4	Optional Work	7.4.2	(Add new clause 7.4.2 as follows): If there are Optional items or Provisional items included in the Schedule of Quantities and Prices, those items shall be used only

	COQUITLAM No. 72495	Supplem	ientary General Conditions SGC-7
9.0	VALUATION OF		as directed and at the sole discretion of the Contract Administrator through the issue of a Change Order. These items will be paid at the contract unit price as part of regular progress payments. Only quantities used will be eligible for payment. No claim will be accepted for unused Optional or Provisional quantities. Clause 9.4 Quantity Variations will not be applicable for these items.
5.0	CHANGES AND EXTRA		
9.2	Valuation Method	9.2.4	(Replace clause 9.2.4 as follows): Once a quotation is accepted by the Contract Administrator, or other agreement reached between the Contract Administrator and the Contractor regarding adjustments to the Contract Price or Contract Time on account of a Change or Extra Work, the Contractor shall not be entitled to claim or receive additional payment, or adjustment to the Contract Time on account of a Change or Extra Work.
9.4	Quantity Variation	9.4.1	(Replace clause 9.4.1 as follows): If for any reason, including an addition or deletion under GC 7.1.1(1) or 7.1.1(2) respectively, the actual quantity of a unit price item varies by more than plus or minus the Variance Threshold Percentage from the estimated quantity for that unit price item listed in the Schedule of Quantities and Prices (the "Tender Quantity") or as otherwise agreed to pursuant to these Contract Documents, then either the Owner or the Contractor may by written notice request the other party to agree to a revised unit price, considering the change in quantities. A party shall make a request for a revised unit price as soon as reasonably possible after the party concerned becomes aware of the quantity variation.
		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, Project Managers, Health and Safety Personnel, and Office/Administration Staff are not eligible for labour costs as those costs are considered incidental to the mark up owing for overhead and labour.
		10.1.1(4)	(Replace clause 10.1.1(4) as follows): Force Account Work performed by a subcontractor shall be paid for in the lesser of: (i) the amount provided by subparagraphs (1), (2) and (3) of this GC, plus a mark-up of 5%, or (ii) the actual amount the Contractor pays the subcontractor including a mark- up of 10% on such actual costs to cover all overhead and profit.

CITY OF COQUITLAM Contract No. 72495		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 materials at the Place of Work that the Contract Administrator knows or suspects may be Hazardous Materials, then the Contract Administrator shall immediately give written notice to the Contractor and the Contractor shall immediately stop the Work or portion of the Work as required by GC 12.2.1(1).
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 or any portion thereof provided he gives the Contractor five (5) days' written notice of delay. The Contractor shall resume work upon written notice from the Owner. The Contractor shall be entitled to:
			 An extension of the Contract time equivalent to the length of suspension of work.
			 Beimbursement by the Owner for directly related out-of-pocket additional costs, reasonably and necessarily incurred by the Contractor as a result of such suspension. No additional payment will be made to the Contractor for any loss of profits or overhead.
13.3	Unavoidable Delay	13.3.1	(Add to clause 13.3.1 as follows): Beyond the reasonable control of the Contractor also includes pandemic or community outbreak
13.8	Direction to Stop or Delay	13.8.3	(Add new clause 13.8.3 as follows): The Contract Administrator may order the Contractor to stop work if at any time the Contract Administrator is of the opinion 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 for Substantial Performance as set out in the Form of Tender, paragraph 2.2 as may be adjusted pursuant to the provisions of the Contract Documents, then the Owner may deduct from any monies owing to the Contractor for the Work: (1) An amount of \$1,000.00 for each calendar day the actual Substantial Performance is achieved after the Substantial Performance Milestone Date; plus (2) All direct out of pocket costs, such as costs for safety, security or equipment rental, reasonably incurred by the Owner as a direct result of such delay. If the monies owing to the Contractor are less than the total amount owing by the Contractor to the Owner under (1) and (2) then any shortfall shall immediately, upon written notice from the Owner, and upon Substantial Performance, be due and owing by the Contractor to the Owner.

CITY OF COQUITLAM Contract No. 72495		Supplementary 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 certificate 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 amount equivalent to 10% of the contract award value or 200% of a reasonable estimate, whichever is higher, may be held without interest until all deficiencies have been remedied and accepted by the Contract Administrator.	
18.6	Substantial Performance	18.6.5	<i>(Replace clause 18.6.5 as follows):</i> The Owner may release any builders lien holdback on the <u>56th</u> <u>day</u> following the date of Substantial Performance, or other date as required by law, but the Owner may hold back the amounts for any deficiencies or filed builders liens as provided in GC 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 the Payment Certifier responsible under Section 7 of the Builders Lien Act for certifying Substantial Performance of the Work of the Contractor, but not the Work of Subcontractors. The Contractor shall cooperate with and assist the Contract Administrator by providing information and assistance in a timely manner as the Contract Administrator considers necessary to carry out the duties of the Payment Certifier for the Contract.	
			The Contractor shall be the Payment Certifier responsible under Section 7 of the Builders Lien Act for certifying Substantial Performance of the Work of each Subcontractor. Prior to certifying completion for a Subcontractor, the Contractor shall consult the Contract Administrator and obtain the Contract 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 any and all liability the Owner may have to anyone arising out of the certification by the Contractor of Substantial Performance for that Subcontractor.	
			Notwithstanding any other provision of the <i>Contract</i> , no payments will be due or owing to the <i>Contractor</i> so long as a Lien filed by anyone claiming under or through the <i>Contractor</i> remains registered against the Project of any lands, or interest therein, on which <i>Work</i> for the project was performed. Failure of the <i>Contractor</i> to remove all Liens promptly will entitle the <i>Owner</i> to damages.	

1.0 WORKERS COMPENSATION REGULATIONS

CITY OF COQUITLAM Contract No. 72495		Supple	mentary 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 must provide a signed "Prime Contractor Designati provided in Appendix IV of these Supplementary G Conditions.	on" form as
24.0	INSURANCE		(Replace section 24.0 as follows):	
24.1	General	24.1.1	Importance of Prompt Attention to Insurance Req The Contractor shall provide the Owner with evidence that the insurance required to be provid GC is in full force and effect.	h satisfactory
		24.1.2	Acceptable Insurance Carriers: The insurer issuing any policy, or other docum evidence of insurance to the Contractor, shall licensed by the Superintendent of Insurance in th British Columbia and registered with the Do Insurance for Canada in Ottawa, except t Corporation of British Columbia, which is not s condition.	be an insurer ne Province of epartment of he Insurance
		24.1.3	Owner's Right to Change Terms: Notwithstanding anything contained in the Contract the Owner will have the right to request a change to terms and conditions respecting insurance at the the Owner. The Contractor will be notified in v changes required by the Owner and will provide a such work.	o the specified sole option of writing of any
		24.1.4	Delivery of Insurance Documents: All insurance policies or other acceptable specifie shall be delivered to, and accepted by, the Own Contract Documents are signed. <u>No work shall be of the Contractor or by anyone acting on the instru- Contractor, until the required Insurance Document accepted by the Owner and the Contract Document duly signed by the Owner and the Contractor.</u>	er before the ommenced by uctions of the nts have been
		24.1.5	Owner's Right to Insure: Should the Contractor for any reason not con specified requirements with respect to the insuran will, at the Owner's option, have the right to purch part of such insurance which, in the opinion of th be required to provide the specified insurance, and of so doing, the Owner will have the right to pay for such insurance and to withhold the amount of paid from any amount due and payable to the Con the Contract.	ce, the Owner nase all or any e Owner, may d, in the event the premiums f premiums so
24.2	Required Insurance	24.2.1	General Damage to work (excluding Building Contracts v 24.3, Paragraph 24.3.1, Further Responsibilities of 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.

	OQUITLAM	Supplen	nentary General Conditions	SGC-14
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		24.3.10	 Further responsibility of Contractor: Other than with respect to loss or damage arisin risks and herein before specified, the Contresponsible for all loss or damage whatsoever woon or to the works completed or otherwise, until entire works have been completed and the Notic has been issued by the Owner, except that loss or solely by an act of the Owner. In the event of any loss or damage occurring, the on notice from the Owner immediately put the condition it was immediately prior to such loss of the Contractor's expense except as previously statements. 	ractor shall be which may occur such time as the ce of Acceptance r damage caused contractor shall e works into the or damage, all at
		24.3.11	Owner Not Responsible for Loss or Damage o Property of Contractors and their Employees: The Owner will not be responsible for securir insurance of any kind other than as specified in these specifications nor will the Owner have a whatsoever for loss or damage from whatever ca property owned, leased, or otherwise in the p Contractor, subcontractors or their employees in restricting the generality of the foregoing, machin tools, supplies, and clothing at the construction s including loss of use of same.	r Loss of Use of ng or paying for Section 24.3 of ny responsibility ause occurring to ossession of the ncluding, without nery, equipment,
24.4	Additional Insured	24.4.1	The Contractor shall ensure the following "additional insured" on the liability policy for th	
			• The City of Coquitlam	
			The City may identify private properties that are by construction. If so, the Contractor shall in owners of these properties named as "additiona liability policy for this contract.	nclude the legal
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 defect if, ten days after giving written notice, the Cont to make or undertake with due diligence the re However, in the case of emergency where, in the Owner, delay is not reasonable, repairs may be notice being sent to the Contractor. All expenses Owner in connection with repairs made pursuan be paid by the Contractor or may be deder Maintenance Security, or other holdbacks. The promptly pay any shortfall.	ractor has failed required repairs. the opinion of the e made without s incurred by the nt to GC 25 shall ucted from the

CITY OF COQUITLAM Contract No. 72495		Supplementary General Conditions		SGC-15
27.0	CONTRACTOR PERFORMANCE EVALUATION	27.1	(Add new clause 27.1 as follows): After the completion of the Contract, the evaluated on their performance of the Work provide percentage scores on the following o	. The evaluation will
			1. Contract Administration	
			2. Construction Management	
			3. Schedule Management	
			4. Communications	
			5. Resource Management and Contrac	tor Performance
			6. Quality Management	
			An evaluation summary report may be issue with scores for each of these categories. Contractor may attend a meeting with the evaluation.	Upon request, the
			This internal evaluation may be reviewed subsequent tenders with the City. Evaluation of the tender analysis and influence contract	scores can form part

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:

Complete the Contract in accordance with its terms and conditions, or

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 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

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	tificate is iss	ued to:	Named Insured and Mailing Address:
			quitlam Idford Way n, BC V3B 7N2	
В.	CONTRA	CT NUMBER	AND/OR NAME	Description of the Work:
C.	INSURA	NCE POLICY		
	Name of	Insurer:		
	Policy Nu	ımber:		Liability Limit:
	Effective	Date:		Expiry Date:
D.	INSURAN	ICE COVERAC	i <u>E</u>	
	COMMER	CIAL GENERA	LLIABILITY coverage is required to in:	sure against liability from the activities arising out of operations or work in connection
	with the a	above-describ	ed project, including liability arising	out of the use of City property.
	D.1 The	e minimum li	mit shall be \$5,000,000.00 inclusiv	e per occurrence against bodily injury, personal injury and property damage.
D.2	-			volunteers are added as Additional Insureds, but only with respect to operations conducted the above-described project, operations or work.
D.3	-			quitlam, its employees, officers, agents and volunteers as Additional Insureds.
D.3 D.4				e policy shall not apply to the City of Coquitlam and shall be the sole responsibility of
0.4		ed Insured.		e policy shall not apply to the city of coquitiant and shall be the sole responsibility of
D.5			clude the following coverages:	
0.0	D.5.1		ility Clause	
	D.5.2		ed Automobile Liability	
	D.5.3		d Automobile Liability	
	D.5.4		ontractual Liability	
	D.5.5		m Property Damage Liability	
	D.5.6		Contractor's Protective Liability	
	D.5.7		& Completed Operations Liability	
D.6			pecial coverage for this project as i	required by the City:
0.0	YES	NO	Special Coverage Description	
	()	(X)	Shoring and Underpinning H	azard
	()	(x)	Pile Driving and Vibrations	
	()	(X)	Excavation Hazard	
	()	(X)	Demolition	
	()	(X)	Blasting	
D.7		. ,	0	LIBANCE for Consultant Convice Agreements
D.7	()	()	PROFESSIONAL LIABILITY INS	URANCE for Consultant Service Agreements
		The Cons	ultant shall obtain and maintain	for the duration of the Services as described in the Agreement, at its own cost,
		Professio	nal Liability Insurance on terms a	nd from an insurer satisfactory to the City of Coquitlam.
				shall insure the <i>Consultant's</i> legal liability for errors, omissions and negligent acts, per Claim and \$1,000,000.00 Aggregate.
				Authorized Signature and Stamp
				N
Date				Name and Title

City' broker to return to City Representative

Department

Coouitlam

APPENDIX IV

PRIME CONTRACTOR DESIGNATION

Subject:Prime Contractor DesignationContract #:72495Contract Name:Thermal Drive Pavement Rehabilitation (the "Project")

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

- 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;
- 2. 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 Contract Specifications

to the MASTER MUNICIPAL SPECIFICATIONS Volume II – Platinum Book

THERMAL DRIVE PAVEMENT REHABILITATION

CONTRACT 72495

TABLE OF CONTENTS

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

SUPPLEMENTARY CONTRACT

SPECIFICATIONS I	SPECIFICATIONS INDEXSS 1		
00 72 43S 01 33 01S 01 45 00S 01 55 00S 01 57 01S 01 58 01S	Contract Specific Notations Project Record Documents Quality Control Traffic Control, Vehicle Access and Parking	SS 2 to SS 5 SS 6 SS 7 to SS 8 SS 9 to SS 10	
03 30 20S 31 05 17S 31 11 41S 31 22 16S 31 23 01S 31 24 13S	Project Identification Concrete Walks, Curbs and Gutters. Aggregates and Granular Material Shrub and Tree Preservation Reshaping Granular Roadbeds Excavating, Trenching and Backfilling. Roadway Excavation, Embankment and Compaction		
32 01 16.7S 32 11 23S 32 12 13.1S 32 12 16S 32 17 23S 33 44 01S	Cold Milling Granular Base Asphalt Tack Coat Hot-Mix Asphalt Concrete Paving Painted Pavement Markings Manholes and Catchbasins	SS 27 to SS 29	

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.
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, in the area of the place of Work wher 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 Garbage/Green Waste/Recycling pick-up City Utilities Maintenance (or representatives) City Parks and Recreation Maintenance (or representative) Other City Contractors
1.04	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 Coquitlam Utility Control Centre (604-927-6287)
1.05	Lane Closure Restrictions	The contractor shall refer to Contract Supplementary Specifications Section 01 55 00S
1.06	Hours of Work	The contractor shall refer to Contract Supplementary Specifications Section 01 55 00S
1.07	Schedule of Work	All work under this Contract is to be completed within the designated Contract Duration. The Contractor must provide sufficient resources in a <u>continuous effort and</u> <u>site presence</u> to complete all the work within the allotted time, unless otherwise approved by <i>Contract Administrator</i> . As set out in the MMCD the Contractor must provide updates to the construction schedule monthly, preferably biweekly.
1.08	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.
1.09	Location of Existing Utilities	The contractor is responsible to verify the depth and location of all utilities (watermains, storm mains, sanitary mains & etc.), including outside agency utilities (i.e. Terasen Gas Mains & etc.) and service connections (water, storm & sanitary services at the mains & property lines) by hand digging or by Hydro-Vac in the presence of the Inspector.
		Pre-locates must be completed as soon as possible after award of the contract so changes can be completed by the Engineer prior to site construction. Contact BC One for location of outside agency utilities. The contactor will not receive any compensation or allowance for delays if work is halted due to utilities & services connections not located prior to commencing construction.
		City of Coquitlam does not guarantee water, storm or sanitary services connections are perpendicular to the mains or property lines, the contractor will not receive any compensation for the time to locate these connections or for exposing hidden services at the property lines.
		Payment for this work will be treated as incidental to payment for work described in other Sections.

RACT	ARY	SECTION 00 72 4 S
PECIFICATIONS		CONTRACT SPECIFIC NOTATIONS 20
1.10	Manholes & Valves	Access to manholes and valves must be maintained at all time for city utilities crews and external utility companies. In case of an emergency the cost for exposing any buried manhole or valve covers during construction will be paid by the contractor.
1.11	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.
1.12	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.
1.13	Site Safety	The Contractor is responsible to ensure the construction site is safe at all times for workers, pedestrians, and vehicle traffic. During non-working hours, the Contractor must ensure that the site has all potentially hazardous areas appropriately identified and protected, and also must provide appropriate signage, lighting, and markings fo the direction of vehicle and pedestrian traffic, all to ensure the safety of the public. Supply and use of this equipment is considered incidental to the contract.
		Manhole lids, valve boxes and other appurtenances within the roadway that may present a traffic hazard during construction must be clearly marked for traffic.
		Manhole lids left raised in preparation for paving must have a rubberized protector ring for traffic safety. Supply and use of this equipment is considered incidental to t contract.
2.00	CONSTRUCTION ACTIVITY	
2.01	Pavement Markings	The Contractor will be responsible for temporary traffic markings necessary for traffic direction and safety until permanent markings are installed.
		The Contractor is responsible for the permanent pavement markings after paving is complete.
2.02	Asphalt Milling Operations	Asphalt milling activities shall be done in such manner so as to cause the least disruption and inconvenience to traffic and area residents.
		The Contractor will be required to provide a plan and schedule for milling sections a the subsequent paving activities and have that approved by the Contract Administrator. This schedule is to be updated as required and take into consideration weather conditions and weather forecasts to ensure work subsequent to milling car be completed in appropriate weather.
		MILLING OF EXTENSIVE AREAS THAT CANNOT BE PAVED WITHIN 48 HOURS PERIO (2 DAYS) WILL NOT BE PERMITTED.
2.03	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 Performance, 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.
2.04	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.

UPPLEMENTARY SECTION 00 7 ONTRACT		
FICATION	NS	SS 4 CONTRACT SPECIFIC NOTATIONS 2021
		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, regardless of the condition of the catch basins prior to starting the Work. All cleaning is to be performed by <u>vacuum truck to the satisfaction of the Contract</u> <u>Administrator</u> and will include off-site disposal of waste material. Payment for this work will be treated as incidental to payment for work described in other Sections.
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 Administrator and provide all necessary information required by the Contract Administrator prior to provision of a Notice to Proceed. Items required to be provided at the meeting include:
		 A Detailed Construction Schedule showing the start date & completion date and the durations of major work components showing how all work will be completed within the Contract Duration. Proof of insurance. Deformance Devolved by the base and Materials Demonst Devolved
		 Performance Bond and Labour and Materials Payment Bond. WCB Clearance Letter and copy of Notice of Project.
		 City of Coquitlam Business License. A copy of portions of your Health and Safety Plan including the Title Page, Table of Contents, 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 Duratior 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

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 00 72 435 SS 5	
		CONTRACT SPECIFIC NOTATIONS 2021	
		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 o Represent Subcontra		The Superintendent and Subcontractors indicated in the Form of Tender shall not be changed unless:	
		1. The Owner requests a replacement.	
		2. The Contractor submits an application for a change, in writing, to the Contract Administrator with the change being approved in writing.	
3.06 Mobilizati Demobiliz		Payment for mobilization and demobilization of all equipment, labour and materials (both from the Contractor and all sub-contractors) shall be incidental.	
		END OF SECTION	

SUPPLEMENTARY CONTRACT SPECIFICATIONS		PROJ	ECT RECORD DOCUMENTS	SECTION 01 33 01S SS 6 2021
1.0	GENERAL			
1.3	Submission	Delete 1.3.2 and replace with the following	Submit one copy of an accurate project reform prior to applying for Substantial Perfordeo report. Record documents to include for Construction/Contract Drawings, new elewalkways/sidewalks, roadway paving areas rim, catchbasin rim, vaults, valve boxes and work.	ormance including any changes in the Issuec evation & location of al s, all utilities, manhole
			The Contract Administrator will not aut holdbacks until the record documents hav 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 #: 11-5330-20/72495/1 Doc #: 4042112.v1

	MENTARY	SECTION 01 45 00S SS 7
CONTRACT SPECIFICATIONS		QUALITY CONTROL 2021
1.0	QUALITY	The Contractor shall provide a final product conforming to the Contract Documents and t intent of the work.
		The work is to be accurate to the dimensional and tolerance requirements of the contra
		Payment will be subject to adjustments based on quality assurance tests performed by t Contract Administrator.
1.01	Quality Control (QC) by Contractor	The MMCD (2009) definition of "Quality Control" is the process by which the <i>Contract</i> checks specific materials, products, and workmanship to ensure strict conformance w the Contract Documents.
		The Contractor is fully responsible for quality control of the materials, production, a construction processes.
		Quality control tests shall be performed by the Contractor, at their own expense, to ensu that products meet the contract specifications.
		Failure by the Contractor to conduct adequate quality control testing during product and construction will negate the Contractor's ability to appeal the quality assurance te used for acceptance/rejection of the work.
		Under no circumstances will QC test results produced after completion of the Qua Assurance (QA) results be considered for appeal purposes.
		Any changes in the Work with respect to the location, grade, or line shall be approved advance by the Contract Administrator. Failure to notify the Contract Administrator changes in writing may result in rejection of Work.
1.02	Inspection of Work, Quality Assurance, and Material Testing, by the	The MMCD (2009) definition of "Quality Assurance" means the process by which <i>Owner</i> evaluates if the work is being constructed in accordance with the Contr Documents. This definition will be used for this contract
	Owner	The <i>Contract Administrator</i> may provide construction review through spot inspections a spot materials testing for Quality Assurance.
		Any materials testing results indicating a non-conformance to the Contract Docume will require construction corrective action by the <i>Contractor</i> .
		All subsequent testing to corrective action to verify conformance to the Contr Documents will be the full responsibility of the Contractor.
		Inspection review by the Owner will not relieve the Contractor from providing a prod that meets or exceeds the requirements of the Contract Documents.
1.1	Inspection	Materials testing shall be as described in MMCD General Conditions, Section 4.12 with following change:
		Delete Section 4.12.2(a) and insert the following:
		Where the MMCD specification clauses for Inspection and Testing indicate the Contra Administrator will arrange for all testing for work described in this section will be amend to read The Contractor will arrange for and pay for all testing for work described in t section. The testing shall take place at the following prescribed rates and as directed the contract administrator. The contract administrator has the authority to call for testi up to the rates and frequencies specified, at the Contractors cost.

		SECTION 01 45 00		
CONTRACT SPECIFICATIONS		SS 8 QUALITY CONTROL 2021		
		All testing covered under this item shall be performed by a CCIL certified laboratory technicians with copies of all test results to be sent directly to the Contract Administra Re-testing resulting from failed first tests shall be at the Contractors expense.		
1.2	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 report any discrepancies prior to construction.		
1.3	Testing	Contractor shall carry out inspection and testing (QC) to ensure compliance with Cont Documents. Contractor shall submit test results within one week of testing to the Cont Administrator.		
		The Contractor shall provide test results prior to the preparation of the payment certific		
1.4	Contractors	Furnish labour and facilities to:		
	Responsibilities	1. Provide access to work to be inspected		
		 Facilitate inspections and tests Make good work disturbed by inspection and tests 		
1.5	Access to Work	Allow inspection testing agencies access to Work.		
1.0				
1.6	Tests	Test rates and frequencies (excluding failed tests), when not defined in the MMCD or De Specifications Sections shall be at the following frequencies:		
		1. 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 base2.2 Sieve:1 test / placed material / 250 TONNES		
		3. Granular Subbase		
		3.1 Compaction:1 test/500m² / 300mm depth of granular subbase3.2 Sieve:1 test / placed material / 250 TONNES		
		 Embankment (Subgrade) Compaction: 1 test/ 50m² / 300mm depth of fill 		
		4.2 Sieve: 1 test / placed material / 100 TONNES		
		5. Asphalt		
		5.1 Marshall test: 1 test per 250 TONNES placed, per specified mix, min. 1 / day		
		ASTM D1559, D3203, C117, C136		
		5.2 Superpave: 1 test per 250 TONNES placed, min. 1 / day CAI-SP2, ASTM D3203, C117, C136		
		5.3 Cores: 1 per 500 m ² /lift		
		5.4 Continuous asphalt density testing during paving.		
		6. Subgrade Preparation 6.1 Compaction & Moisture: 1 test / 500 m ²		
		7.Concrete Tests 7.1 Air, Slump & 1 Set Cylinders: 1 test / 10 m³, min. 1 set / day		
1.7	Measurement for	Payment for all work performed under this section will be incidental to payment for v described in other Sections		
	Payment	END OF SECTION		

	MENTARY		SECTION 01 55 00S	
CONTRACT SPECIFICATIONS		SS 9 TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING 2021		
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.	
		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 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.	

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 01 55 00S SS 10 TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING 2021		
		Delete 1.4.10.1.3 and replace with the following	When workmen or equipment are employed over travelled way or brow of hills, around sharp curves or at other locations wh oncoming traffic would not otherwise have adequate warning.	
1.5	Measurement for Payment	Delete 1.5.1 and replace with the following	Payment for all work, unless included in the Schedule of Quanti and Prices, performed under this section will be incidental 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 1.2.1.1 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.
		Delete 1.2.2.2 and replace with the following	Do not operate construction equipment in watercourses.
		Add 1.2.2.9	All work must be carried out during favorable and low water conditions.
		Add 1.2.2.10	Any fill used on this project shall be certified inert and from a source which is confirmed to be free of contaminants.
		Add 1.2.2.11	All work within a watercourse must be undertaken and completed in isolation of all flowing water to maintain downstream water quality and unrestricted flows.
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. Any spill of reportable quantities must be immediately reported to the Provincial Emergency Program's 24 hour phone line at 1-800-663-3456.
		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> .

CONTRA			SECTION 01 57 01S SS 12	
SPECIFICATIONS		ENVIRONMENTAL PROTECTION 2021		
		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.	
		Add 1.4.3.9	All equipment and machinery must be in good working condition (power washed), free of leaks or excess oil and grease. No equipment refueling or servicing shall be undertaken within a minimum of 15 metres of any water course or surface water drainage.	
		Add 1.4.3.10	During all phases of the operation, the Contractor shall take precautions to abate nuisance caused by mud or dust by clean up, sweeping, sprinkling with water or dust control, or other means as necessary to accomplish results satisfactory to the Contract Administrator.	
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.	
			These works for Erosion and Sediment Control (ESC) will include silt fencing, interceptor channel/swale/ditch construction, interceptor drain pipe, check dams, catch basin, socks, and all materials to complete the work as shown on the Contract Drawings or as directed by the Contract Administrator	
		Add 1.6.2	Payment for this item as directed by the Contractor Administrator includes supply, placement, maintenance, materials, removal and incidentals required for environmental protection.	
		Add 1.6.3	Payment for the poly cover or temporary tarps over stock pile materials or exposed road subgrades shall be treated as incidental work.	
1.8	Clean Up	Add 1.8.2	The work will include cleaning of all catch basins within the work area, or nearby location as affected by the Work, regardless of the condition of the catch basins prior to starting the Work and all manholes and/or sewers affected by work done under this contract. All cleaning is to be performed by vacuum truck to the satisfaction of the Contract Administrator and will include off-site disposal of waste material.	
1.9	Archaeological / Historical Resources	Add 1.9	Immediately cease work and inform the <i>Contract Administrator</i> and the City, if any archaeological or historical resources are encountered during construction. Leave these resources in place and do not disturb them in any way.	

SUPPLEMENTARY CONTRACT SPECIFICATIONS		Р	SECTION 01 58 01S SS 13 ROJECT IDENTIFICATION 2021
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 Information signs as shown in Appendix A – Traffic Management Detail Specifications - Clause 6.5 includes supply, placement & removal and will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices.
		Add 1.3.2	Payment for changeable message signs (CMS) including supply, placement, communication management & removal as required for traffic & pedestrian safety and as shown in in Appendix A – Traffic Management Detail Specifications will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices.
			When shown in the Schedule of Quantities and Prices, payment for CMS used for only a fraction of a month will be paid prorata.

	MENTARY		SECTION 03 30 20S SS 14	
	CATIONS	CONCRETE WALKS, CURBS AND GUTTER 202		
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 and C6 extruded concrete curb, excluding granular base, includes supply and placing of the concrete curb and gutter, tie-ins, transitions, subgrade preparation, compaction, saw cutting, and will cover all straight and curve sections and will be made separately for each specified type.	
			Extruded Concrete curb shall be keyed in to existing asphalt.	
			Payment for excavation and disposal of excavated material will be made under payment item as shown in the Schedule of Quantities and Price.	
			Payment for granular subbase and granular base under curb and gutter will be made under payment items in Section 32 11 16.1S and 32 11 23S, Granular Subbase and Granular Base, respectively.	
		Delete 1.4.5 and replace with the following	Payment for concrete sidewalks, utility strips, driveways, walkways infills, landings and all concrete ramps, excluding granular base includes supply and placing of the concrete, subgrade preparation under the concrete sidewalks, utility strips, in-fills, landings driveways, ramps and walkways and will be made separately fo 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 Detectable/Tactile Warning Surface Tile includes supply and placing of "Access Tile" or "Armor-Tile" (or approved equal Truncated Dome Detectable Warning Tactile Surface, replaceable cast in place - Yellow Color and installation as per the Manufacture' Specifications.	
2.1	Materials	Delete 2.1.5.1 and	Hand-formed and hand-placed concrete:	
		replace with the following	Slump: 80 mm Air entrainment: 5 to 8%. Maximum aggregate size: 20 mm. 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 mn nominal raised height, base diameter of 23 mm and top diameter o 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 Standard 595B Table IV, Color No. 335.	
			Minimum size of the panel shall be 600 mm in width by varying lengths, contingent on the application.	
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 be 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 to complete their own adjustments. The <i>Contractor</i> will be required to	

CONTR	EMENTARY ACT ICATIONS	CT		
			cooperate with any utility company providing their own adjustments.	
			The <i>Contractor</i> shall be responsible to contact the appropriate utility company within a minimum of seventy-two (72) hours of the work. No adjustment shall be made without the written approval of the utility company. <u>All manholes must be vertically adjusted a minimum of twenty four (24) hours prior to concrete placement.</u>	
3.9	Expansion Joints	Delete 3.9.1 and replace with the following	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.	

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SUPPLEMENTARY CONTRACT SPECIFICATIONS				SECTION 31 05 17S SS 16
		AGGRE	GATE AND GRANULAR MATERIALS	2021
2.0	PRODUCTS			
2.3	Pit Run Gravel	Add to 2.3.2	The use of recycled concrete sha Administrator and the City prior to	
		Add 2.3.3	Asphalt millings free from conta material, conforming to the specifi run gravel. The use of asphalt m <i>Contract Administrator</i> and the Cit	ied gradations may be used as pit nillings shall be approved by the
2.7	Granular Pipe Bedding and Surround Material	Add to 2.7.1	All recycled or other extraneous Contract Administrator and the Cit	
2.10	Granular Base	Delete 2.10.2		
		Add 2.10.3	All 25 mm minus granular base is to conform to the following gradation specifications:	
			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 Char size of aggregate in the granular bas 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.

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

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2.11

Recycled Aggregate

Material

Delete 2.11.1 and

replace with the

following

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SHRU	SECTION 31 11 41S SS 17 B AND TREE PRESERVATIONS 2021
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 described in other Sections.
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'.
3.0	EXECUTION		
3.1	Existing Trees	Add 3.1.7	The Contractor is responsible to minimize damage to all trees which are to remain.
		Add 3.1.8	The Contractor 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 Contract Administrator and the City for tree damage where proper notification was not received from the Contractor. 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 Work.
		Add 3.1.9	Place protective fencing/barricades as detailed on Coquitlam Standard Detail Drawings COQ-R26, where shown on <i>Contract Drawings</i> . Contractor shall maintain fence in good condition during construction.
		Add 3.1.10	When work is to be performed inside fenced areas, Contractor 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 Contract Administrator 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 Contract Administrator and the City.

1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Payment for reshaping existing roadbed shall be at the respective unit prices bid in the Schedule of Quantities and Prices. Reshaping of shoulders and driveways will be incidental. Payment includes all spreading and grading of materials, adjustment of moisture content, compaction, boning and disposal of excess material offsite to establish the road existing cross-sections.
		Delete 1.4.2 and replace with the following	Payment for additional granular base material required for reshaping described above will be made under Section 32 11 23 Granular Base.
		Delete 1.4.3 and replace with the following	Payment for excavation of unsuitable materials including disposal off-site prior to reshaping granular roadbed will be made under Section 31 24 13 – 1.8.10S Common Excavation.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		EXCAVATING,	SECTION 31 23 01S SS 19 TRENCHING AND BACKFILLING 2021
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).

SUPPLE CONTR/	MENTARY ACT			SE	CTION 31 24 13S SS 20
SPECIFI	CATIONS	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION 20			
1.8	Measurement and Payment	Delete 1.8.4 and replace with the following	components included shown on the Contrac Administrator. No pay of these component excavation, and such re	item will only apply to in this item under a sep t Drawings or as directed ment will be made under th as part of the opera moval will be treated as co e at the respective unit	arate operation as by the Contractor his item for remova tion for commor ommon excavation
			Schedule of Quantitie equipment required to	and Prices and will inclu complete the work, includ e responsibility of the contr	ude all labour, and ing saw cutting and
		Delete 1.8.5 and replace with the following	removal in s measured in taken by th excavation fo 2. Cross-section and after stri excavation o 3. Where deter truck box vol quantities th	Excavation includes: I in the Schedule of Quan equare meters, common cubic metres calculated fr e Contract Administrato or road widening areas. Is will be taken after clea pping of existing topsoil in f material to be incorporat mined by the Contract Adr ume will be used to deterr e volume per load shall be d volumes. The following i	excavation will be com measurements r in the areas of aring and grubbing mediately prior to red into work. ministrator that mine excavation determined using
			Truck Type	Material Type	Volume (cu.m.)
			Tandem	ordinary material	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 exe site. The slip the end of quantities su 5. Payment for temporary s adjustment o material any	p provide truck slips detailing avation, time loaded and sare to be given to Contra- shift or Contract Admir bsequently submitted. on site re-use includes exc tockpiling, placement, co of moisture content, spread where on site or within establish the roadway	I location of dump ct Administrator by histrator can deny cavation, transport ompaction, boning ding and grading of the work zone, as

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 saw cutting and offsite disposal. It is the responsibility of the contractor to locate and verify all utilities.

SUPPLEI CONTRA SPECIFIC		SECTION 31 24 13S SS 21 ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION 2021		
		Delete 1.8.10 and replace with the following	Payment for replacement of areas of unsuitable granular base, granular subbase or sub-grade revealed during proof rooling will include excavation with off-site disposal, supply & compaction of granular base material (25 mm minus), and all remedial work required to achieve a suitable base. Payment with be based on the cubic metre volume removed.	
2.0	PRODUCTS			
2.2	Specified Materials	Delete 2.2.1.3	Pit Run Sand.	
		Delete 2.2.1.4 Delete 2.2.2	River Sand.	

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SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 32 01 16.7S SS 22
			COLD MILLING 2021
1.5	Measurement and Payment	Add 1.5.4	Payment for this item will be made for the depth specified in the Schedule of Quantities in the Form of Tender is for the removal of existing asphalt, granular & native materials within the roadway to the depth specified, as detailed in the Contract Documents regardless of removal method, as conditions of the existing asphalt pavement may or may not be suitable for removal by cold milling operations. If asphalt removal is done by excavation methods, there will be no common excavation quantity associated with the remova of granular to the removal depths indicated below design elevations
			Payment will be made for each square metre of asphalt removed, to the depths indicated in the Form of Tender, and includes the off-site disposal of all milled material. Payment includes mobilization, demobilization, demonstration milling test section, the cost of transport & disposal off-site, saw cutting, street sweeping or cleaning to allow for the placement of required thickness of asphaltic concrete. Saw cutting and milled key at project limits will be incidental under payment item 32 12 16 – Hot Mix Asphaltic Concrete Paving.
			MILLING OF EXTENSIVE AREAS THAT CANNOT BE PAVED WITHIN 48 HOURS PERIOD (2 DAYS) WILL NOT BE PERMITTED.
			No additional payment will be made for multiple passes or remobilization, as required, to mill to the depth(s) specified in the Schedule of Quantities in the Form of Tender.

Removal of asphalt curb, all heights, will be treated as incidental work.

CONTRA	MENTARY ACT CATIONS		SECTION 32 11 23S SS 23 GRANULAR BASE 2021
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Measurement for granular base of variable thickness will be fo actual quantity placed based on weigh tickets provided to Contrac 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 1.4.3 and replace with the following	Payment for Subsection 1.4.1 & 1.4.2 above includes supply placement and compaction of granular base material, adjustment o moisture content, and boning & shaping to establish the road cross section, factored into 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 unde Section 31 24 13 – 1.8.5 Common Excavation.
2.0	PRODUCTS		
2.1	Granular Base	Add 2.1.1.3	25 mm minus crushed gravel conforming to the gradation specifications for Collector/Arterial Roads under Section 31 05 175 – 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 are in excess of those required to produce the final standards, than the base shall be adequately strengthened by additional gravel or asphalt concrete to insure that fina deflections as follows are not exceeded.
			The Benkelman spring rebound value of the completed pavemen surface shall not at any point exceed 0.75 mm for arterial industria roads and lanes, 1.15 mm for collector roads, and 1.5 mm for loca roads and lanes as determined in the procedures outlined in the Transportation Association of Canada publication "Pavemen Management Guide."

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 32 12 13 SECTION 32 12 13 ASPHALT TACK COAT 2	
1.5 Measurement and Payment		Delete 1.5.1 and replace with the following	Payment for all work performed under this Section will be incidenta to payment for work described in other Sections unless showr otherwise in the Schedule of Quantities and Prices.	
		Delete 1.5.2 and replace with the following	Pavement surface cleaning, as per section 32 01 11, and all other work incidental to the application of tack coat is deemed to be incidental to payment for work described in other Sections unless shown otherwise in the Schedule of Quantities and Prices.	
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.	

1.0	GENERAL		
1.4	Submission of Mix Design	Delete 1.4.1 and replace with the following	Submit asphalt concrete mix design, including RAP content and trial mix test results to Contract Administrator for review at least two weeks prior to commencing work.
1.5	Measurement and Payment	Delete 1.5.1 and replace with the following	Payment for asphaltic concrete paving includes all construction joint preparation, asphaltic surface milling to tie into existing asphalt, saw cutting, supply and placing of the asphaltic concrete, tack coat, 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 asphalt 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 Hot Mix Asphaltic Paving Work as shown on the Contract Drawings or as directed by the Contract Administrator.
			MILLED SURFACES MUST BE PAVED WITHIN 48 HOURS PERIOD (2 DAYS).
			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 on the Contract Drawings.
		Delete 1.5.3 and replace with the following	Payment for asphaltic concrete sidewalks, pathways, driveways, and infill strips paving includes all construction joint preparation, saw cutting, supply and placing of the asphaltic concrete, tack coat, 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.
		Delete 1.5.4 and replace with the following	Payment for extruded 150mm asphalt concrete curb will include asphaltic concrete, all preparatory & construction preparation, pavement cleaning, tack coat and placing by extrusion.
			The Contractor is responsible for the protection of the new placed curb until it can accept vehicle traffic, the contractor will not receive any compensation for protecting the curb and the Contract Administrator may reject any curb that is not protected and damaged.
			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 are to be taken 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 or any other materials not specified in the Contract Documents 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 10 % by mass of RAP for Upper Course Asphalt and 15 % 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.
		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.

SUPPLEMENTARY CONTRACT SPECIFICATIONS

1.0	GENERAL		
1.2	Scope	Delete 1.2.1 and replace with the following	Pavement Markings: Miscellaneous taped temporary and permanent pavement paint 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 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 supplying all materials and completing all the permanent thermoplastic pavement markings necessary to provide markings as shown on the Contract Drawings.
			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 is on a lump sum basis and includes all sign poles, bases, sleeves, sign relocations and sign installations (complete). The City will supply all sign tabs as required.
			1. Installation of each new sign pole, cap, sleeve and trapezoidal base 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.
			2. Installation of each 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 Recessed Raised Pavement Markers (RPM) will be on a unit quantity basis and shall include all labour, equipment, and materials required to install recessed RPMs as described in the BC MOT Manual of Standard Traffic Signs and Pavement Markings, Chapter 7.5.1. and Contract drawings.
		Add 1.5.6	Payment for the removal and re-installation of existing delineators is to be paid on a lump sum basis and shall include all labour, equipment, materials, and incidentals to complete these works. All unused delineators shall be returned to the City.
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).
		Delete 2.1.6 and replace with the following	Pavement Markings:

Delete 2.1.7 and replace with the following	Thermoplastic material .1 Material composition shall be at the discretion of the manufacturer subject to the approval of the Contract
	Administrator and the City. Each formulation shall be identified by a code number.
	.2 No retained water when tested by ASTM D-570.
	.3 Specific gravity of the supplied product shall be within 3 % of that specified for the selected formulation.
	.4 Material shall not deteriorate upon contact with deicing chemicals, gasoline, diesel fuel or grease dropped by traffic.
	.5 Material shall not break down, deteriorate, scorch or discolour, if held within the application temperature range specified by the manufacturer for a period of four hours and it must be able to be reheated from room temperature to the application temperature four (4) times without showing any of these detrimental effects.
	.6 When applied at the temperature recommended by the manufacturer and at a film thickness of 2 to 4 mm, the material shall set solid and show no tracking under traffic after elapsed times as follows:
	.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.
	.3 The drying time under conditions intermediate between the two air temperatures shall be interpolated using a straight line model.
	.7 The quantity, type, and gradation of the component reflecting glass spheres premixed in the thermoplastic material shall be at the discretion of the manufacturer, but shall provide retroreflection levels specified below.
Add 2.1.11	 Green Surface Treatment: .1 Material approved shall be "Traffic Patterns" thermoplastic by Ennis-Flint or MMA (Methyl Methacrylate). .2 The MMA Skid Resistant Material shall meet the following requirements: .1 Be Ultra-Violet Stable.
	 .2 Be ISO Certified Durable Road Marking Material. .3 Utilize 0.5mm - 1mm aggregate within the MMA to create skid resistance of 49 BPN. .4 Green Colour (Pantone #) to be approved prior to application.
	.3 Product details and specification to be submitted to <i>Owner</i> for Final Approval.
Add to 3.3.1.3	Temporary raised pavement markings (TRPMs) are to be provided on all collector and arterial roadways as directed by the <i>Contract</i>

Administrator and the City.

EXECUTION

3.0

CONTRA	MENTARY ACT CATIONS	-		7 235 55 29 2021)					
3.3	Application	Delete 3.3.3.3 and replace with the following	Thermoplastic material temperature of 382 °F.	shall	be heated	in	the	melter	to	а

SUPPLEMENTARY
CONTRACT
SPECIFICATIONS

1.0	GENERAL			
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 1.5.2 and replace with the following	Catchbasin and lawn basin Installatio and installing a new catch basin or law and setting to the finished grade. I disposal of surplus excavated mater preparation, bedding, import backfi accommodate catchbasin connectio concrete work, cast-in-place concret base, concrete barrel, concrete riser, H20 rated concrete frame/lid, me aluminum trapping hood and relate labour, materials and equipment requ Catchbasin/lawnbasin lead work will 01S – Clause 1.6.5.	n basin for each type specified Payment includes excavation, rial, supply of all units, base II, catchbasin preparation to on, installation of all in-situ e, pipes, fittings, catch basin pvc sanded stub, donut ring, etal frame, inlet and grate, d materials together with all irred.
		Delete 1.5.3 and replace with the following	Adjustment & Replacements of to measured in units adjusted as defined respective Items in the Schedule of Qu	below and paid for under their
			No payment will be made under th Boxes, Monument Boxes, Frames, Cov of the operation for asphaltic concret	ers and Lids of Castings as part
			No Payment will be made for Mo Cleanouts and Inspection Chambers treated as incidental work.	
			All manholes & valve boxes must be of twenty-four (24) hours prior to pav	
			The use of Steel/Metal Casting Risers adjust manholes or water valves to th	
			.1 Manhole frames and lids replace defined as supplying and installing a n setting to the finished grade. jackhammering, removal and disposa replacement, removal or addition of or minimum of 1) or precast concreis supply and installation of new manh- grade, temporary asphalt ramping incidental work.	ew manhole frame and lid and Replacements shall include I of the existing frame and lid, concrete brick (maximum of 3 te riser rings, cement mortar, ole frame and lid set to finish
			Unit Price for adjustments to each manholes to the asphalt base lift and (finish grade) – No additional payme manholes.	d then to the asphalt final lift
			.2 Water Valve Box replacements wi	Il be defined as supplying and

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 #: 11-5330-20/72495/1 Doc #: 4042112.v1

installing a new Nelson Type Terminal City Water Valve Box frame &

CONTRA	MENTARY ACT CATIONS	MANH	SECTION 33 44 01S SS 31 IOLES AND CATCHBASINS 2021
			lid and setting to the finished grade, temporary asphalt ramping or patching. Replacements shall include jackhammering, removal and disposal of the existing frame and lid and all other incidental work.
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.
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 Detai Drawing S3. Maximum allowable inside ramp shall be 250 mm inver- 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 or 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 genera standards and installation procedures described under 3.3 of this Section.

Appendix A -Traffic Management Detail Specifications

	c Management Detail fications		
Contr	ract 72495		Traffic Management TMF
1.0 GENERAL			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	.1	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. A digital copy of the Road and Sidewalk Closure Permit forn can be obtained for use during the contract from the City's website at <u>www.coquitlam.ca/closure</u> .
		.2	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.
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.
		.2	 The Traffic Management Plan (TMP) will consist of the following 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.

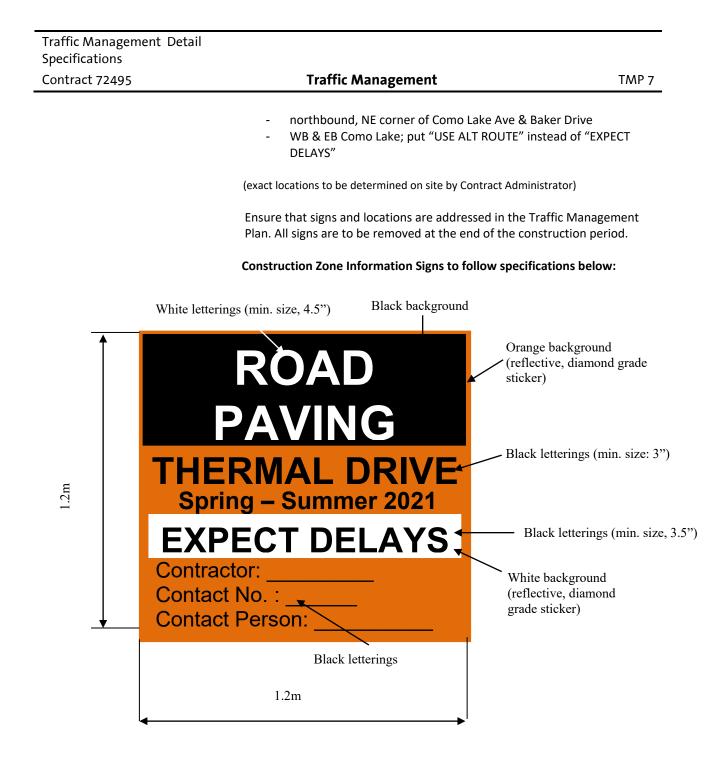
Traffic Management Specifications		
Contract 72495	Traffic Management	TMP
	.3 Submission of the TMP is to be made to the <i>Contra</i> <i>Administrator</i> within five (5) days of the <i>Notice of</i> <i>Contract</i> , and must be approved by the <i>Contract A</i> prior to start of the <i>Work</i> .	<i>Award</i> of the
	.4 Review of the TMP will be performed by the Contr Administrator. Comments for revisions to the TM returned to the <i>Traffic Manager</i> for implementation	P will be
	.5 The Contractor shall comply with all the requireme applicable laws, rules, regulations, codes and orde municipal and other appropriate authorities conc on streets or highways and shall post proper notic signals, and provide necessary barriers, guards, lig watchmen as may be necessary for proper mainte and protection of persons and property from injur costs involved in respect to the above requiremen deemed to be included in the Contract Price.	ers of the erned with work ces and/or ghts, flagmen or enance of traffic ry or damage. All
	.6 The Contractor shall give due notice to local police departments prior to beginning construction and all respects with their requirements.	
	.7 The Contractor, during the progress of the work, sl adequate provision to accommodate the normal t streets and highways immediately adjacent to or work so as to cause the minimum of inconveniend public.	raffic along crossing the
	.8 The Contractor is required to maintain local traffic access during all stages of construction. This inclu maintaining a 1.5m width walkway or pathway th construction site for pedestrians.	udes
	.9 Where existing streets or roads are not available a traffic shall be permitted to pass through the wor inconvenience and delay as possible unless other authorized by the Contract Administrator. If half t under improvement, the other half shall be conditioned as detour.	k with as little wise provided or he street only is:
2.2 Incident Mana and Reporting	gement .1 The Contractor shall facilitate incident response v and move traffic safely and expeditiously through incident on site and provide assistance to emerge personnel as required. An incident includes, but motor vehicle accidents, emergency road repairs, vehicles, and debris on the road. The immediate r emergency shall by necessity make use of availab	n or around an ncy response is not limited to, disabled response to an

	ic Management Detail ifications	
Cont	ract 72495	Traffic Management TMP
		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 shut-down of the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire an approved Traffic Control Plan before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut- down.

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 of the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire a Road and Sidewalk Closure Permit before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.
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. Signs 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 stage are to be left in place.
		.2	There must be sufficient Traffic Control Persons (TCPs) on site to appropriately and safely direct traffic in all sections of the Work.
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 approved Traffic Control Plan, for each stage of the works.
			Traffic control signs and devices must be positioned and used as specified in the Traffic Control Plan and signs and devices must be located so as to allow traffic to move by or through the work area in a controlled manner and, if necessary, to come to a controlled stop with due regard for the prevailing weather and road conditions.
			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.
3.6	Abrupt Changes in Surface Elevations	.1	The Contractor shall minimize any abrupt changes in roadway elevation left exposed to traffic during both working and non-working hours.

Conti	ract 72495	Traffic Management TMF
		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 chairs and bicycles to have safe access across the work zone at all times. If this cannot be readily accommodated, then acceptable detours and appropriate signs shall be provided.
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 of permanent markings.
4.0	TRAFFIC RESTRICTIONS	
4.1	Road and Sidewalk Closure Permits	.1 Minimum of Single Lane Traffic in each direction and all local traffic must be accommodated at all times. Detours and full road closure (with Local Traffic Only) will only be allowed during placement of asphalt paving.
		.2 A City of Coquitlam 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.
		A copy of the approved Road and Sidewalk Closure and Lane Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.
		.3 Total Road Closure Is Not Permitted
		.4 Detours will only be permitted as approved by the Contract Administrator and must have a complete Traffic Control Plan indicating detour route, signing, and duration. Detours will not be allowed without sufficient lead time for commercial and retail operation to react appropriately to detour information provided to them.
4.2	Lane Closure Restrictions	 .1 For each of the road sections affected: Road and Sidewalk Closures will be reviewed for appropriateness during the allowable hours of work. Access to properties to be maintained Sufficient Traffic Control Persons are required for each Road and Sidewalk Closure (or any work activities), including side

pecifications Contract 72495 5.0 HOURS OF WORK 5.1 Allowable Hours of Work		Traffic Management	TMP
		<u>street intersections,</u> to safely guide traffic through th site.	e work
5.0	HOURS OF WORK		
5.1		.1 The hours of work shall be from 0700 h to 1900 h inclusive N to Friday and 0900 h to 1800 h inclusive Saturdays, unless no otherwise.	-
		.2 Some allowances may be made for paving operations, depen proposal acceptable to the Contract Administrator.	ding on a
		.3 Line Marking work may be performed at night, (21:00 to 05:0 No work is allowed on Sundays without specific written permi from Contract Administrator.	
6.0	CONSTRUCTION OPERATIONS		
6.1	Truck Routes	.1 The Contractor is restricted to the City's designated Truck The current Truck Route Map is available on the City's we <u>www.coquitlam.ca</u> and can be found under Residents, Tra Transportation, Trucking Routes .	bsite at
6.2	Road Specific Considerations	.1 Ensure that Traffic Management Plan accommodates bus and residences during construction activities.	inesses
6.3	Work stoppage due to traffic	.1 The City will not control or direct traffic control activities Contractor, but may require an immediate stop to any we where, in the sole opinion of the Contract Administrator, provided traffic management plan is ineffective or creatin unreasonable delays	ork the
6.4	Construction Activity and Signage	.1 The Contractor will be responsible to place other construct information signs as required to inform the public of constactivities, and ensure safe travel through the work site.	
6.5	Construction Zone Information Signs	.1 The Contractor is required to provide, one week prior to so work, stationary signs at intersections, one in each directi inform traffic of existing and anticipated conditions at en points of the street to be worked on, locations for these so be provided by the Contract Administrator.	on, to try
		Ensure that signs and locations are addressed in the Traff Management Plan. All signs are to be removed at the end construction period.	
		 northbound, NE corner of Como Lake Ave & Thermal Drive northbound, NE corner of Como Lake Ave & Seymour Drive 	



- 6.6 Changeable Message Sign This location will require Changeable Message Signs (CMS): (CMS)
 - 1. Southbound Thermal Drive

Exact location to be discussed at the pre-construction meeting.

The CMS board is required to be in service minimum of **one week prior to construction start** to provide advance warning to motorists. CMS must be able to handle minimum of 3 lines per page/screen.

ontract 72495	Phone: 0	TMP City of Coquitlam ure Permit Request Traffic Operations Division dford Way, Coquitlam BC V3B 7N2
Coquitlam	Road and Sidewalk Clos	ure Permit Request Traffic Operations Division
Coquitlam	Road and Sidewalk Clos	ure Permit Request
Coquitlam	3000 Guil Phone:	ure Permit Request
CoQuitiani	3000 Guil Phone:	• Traffic Operations Division
	Phone: 0	
		604-927-6250 Fax: 604-927-6255 il: trafficoperations@coquitlam.ca
Submit to the Traffic Operations Division a	a minimum of 5 business days prior to the intend	led closure date.
Permit Fee - \$75.00 (Effective February 1, 20)	Payment Methods – After review, and if ap emailed to the applicant.	proved, payment options will be
Application Data	City Project Number (if applicable):	72495
Application Date:	City Project Number (if applicable):	
Contact Information		
Company Name:		
Applicant Name:		
	any/Applicant:	
Phone:	Fax:	
	Email:	
Location, date and time, and traffic co	ontrol plan information	
I request approval to close (check all that a	apply): Direction: 🗆 Northbound 🗆 Southbour	nd 🗆 Eastbound 🗆 Westbound
Curb/Outside Lane Centre/Inside L	ane 🗆 Right Turn Lane 🗆 Left Turn Lane 🗆] Cycling Lane 🛛 Sidewalk
□ Single Lane Alternating Traffic □ Ful	- I Closure	
· ·		
Location Description:		
Data & Time Information Data		
Date & Time Information: Dates:	Starting	Ending
	Starting	
	-	Ending
Purpose:		
Will this closure disrupt: Bus Routes or Sto Company regarding disruptions.	ps? □ Yes □ No If yes, the Applicant will nee	d to contact Coast Mountain Bus
	ig Routes or Pick Up? □ Yes □ No If yes, the A onmental Services Group. <u>www.coquitlam.ca/tra</u>	

Traffic Control Plan*:

(a) Traffic Management Manual for Work on Roadways Figure Number ______, or
(b) A Traffic Control Plan (attach separately) indicating signage, taper lengths, direction of traffic, work area, and north arrow

Traffic control persons (flag persons) on duty?
Yes No If yes, specify how many:

* Important Notice: All operations within the road right-of-way must comply with Worksafe BC regulations and BC Ministry of Transportation standards for work on roadways.

Application Checklist

Permit Fee

- Prime Contractor Designation Letter
- City of Coquitlam Certificate of Insurance
- Traffic Control Plan or Traffic Management Manual for Work on Roadways Figure Number
- Coast Mountain Bus Company (Phone: 778-593-5774 | Email: <u>special.events@coastmountainbus.com</u>) contacted regarding impact to bus routes and bus stops
- □ City of Coquitlam Environmental Services Group (Phone: 604-927-3500| Email: <u>wastereduction@coquitlam.ca</u> contacted regarding impact to garbage/recycling routes and pick up

I HEREBY AGREE to the terms stipulated herein and further agree to indemnify and save harmless the City against any and all claims, actions, or expenses whatsoever or by whomsoever brought against the City by the reason of the City granting us this Road and Sidewalk Closure Permit. I further agree to accept responsibility to ensure proper situation control and street sweeping for the duration of the road or sidewalk obstruction.

Date

Applicant Signature

Office Use Only PERMIT STATUS								
Permit Fee	Prime Contractor Letter	Certificate of Insurance						
□ Traffic Control Plan	Impact to bus service	Impact garbage and recycling collection						
Request is denied for the following reason(s):								
Request is approved with the following change(s):								
Request is approved as submitted								

Date

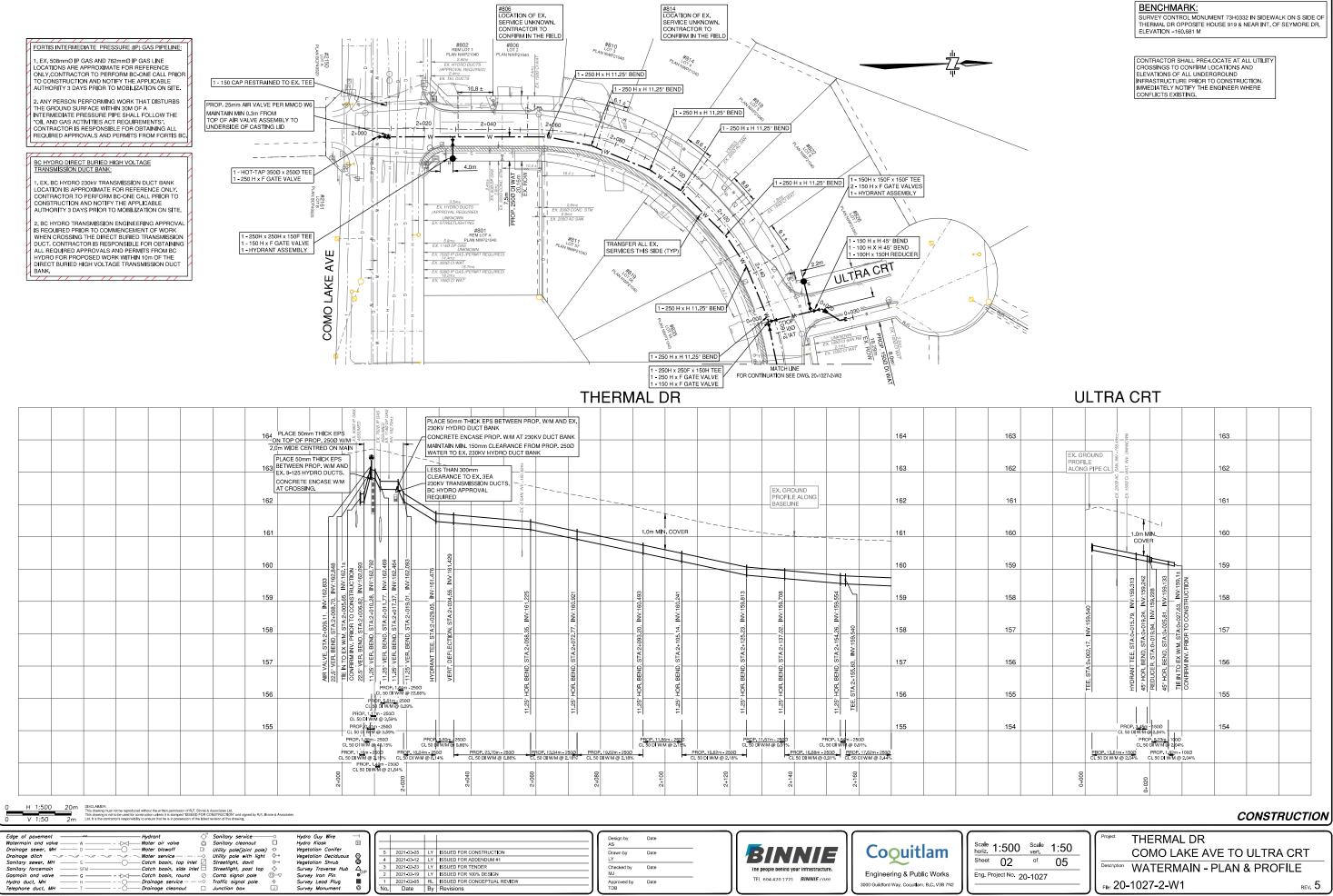
Traffic Technologist or Designate

_

Specifications contained in the Master Municipal Construction Documents (Platinum), Volume II, 2009.

Appendix B – As-Built Records

As-Builts are available in the City's website, https://www.coquitlam.ca/701/City-Maps



MJ

Approved by TDB

Date

2021-02-19

2021-02-05 Date

SSUED FOR 100% DESIGN

ISSUED FOR CONCEPTUAL REVIEW

ot Date: March 25, 20

ABR 1



File: 20-1027-2-W1

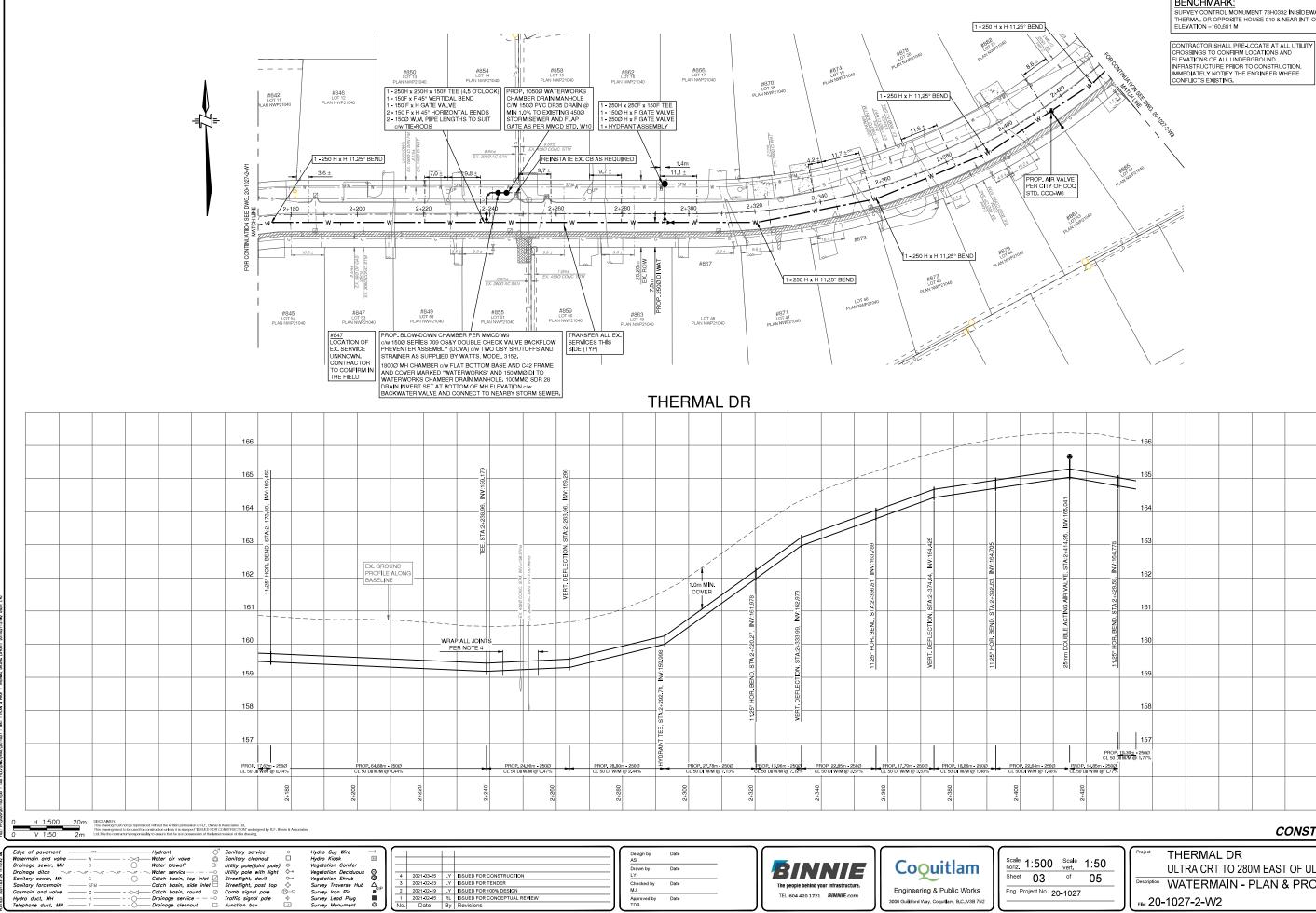
rev. 5

Engineering & Public Works

3000 Guildford Way, Coquitiam, B.C. V3B 7N

TEL 604 420 1721 BINNIE.com

Eng. Project No. 20-1027



ot Date: March 25, 202

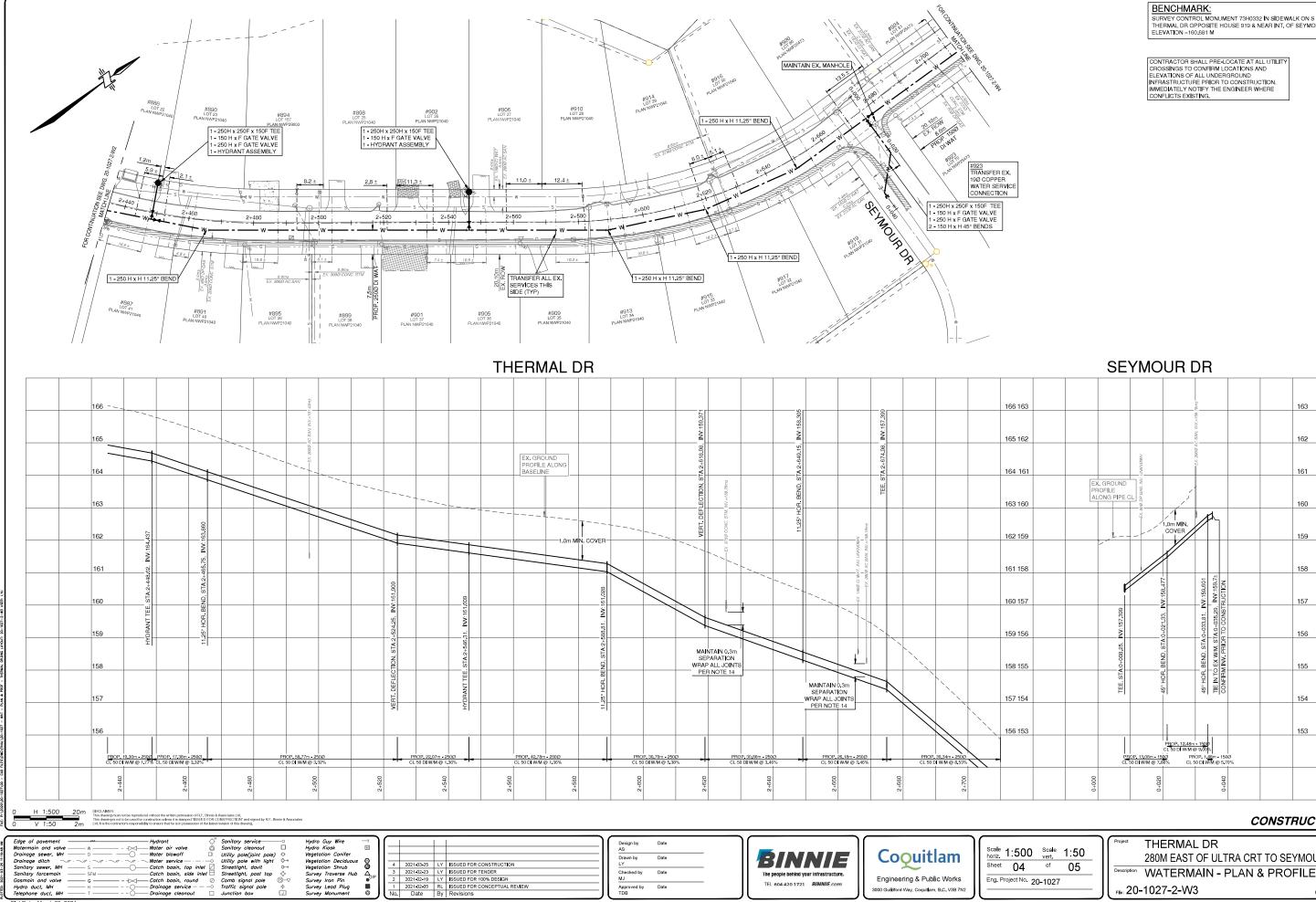
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THERMAL DR ULTRA CRT TO 280M EAST OF ULTRA CRT Description WATERMAIN - PLAN & PROFILE File: 20-1027-2-W2 _{rev.} 4

COI	VS1	rRU	ICT	'ION

	166							
NV:164.778								
	161							
DR. BEND, ST	160							
11.25° H								
	158							
	157							
PROP CL 50 ROP. 14.85m - 250Ø L 50 DI W/M @ 1.779	19.30 <u>m</u> - 250Ø DIW/M @ 1.77%							
2+420								
	PROP CL 50 ROP 14.85m - 2500 50 D W/M @ 1.779	165 164 164 164 164 164 164 164 164	102 03 03 03 03 161 161 161 161 161 161 153 158 158 157 PPOP. 19.30 157 CL SO DIWM@ 1.77% 50 DIWM@ 1.77%	165 164 164 163 163 163 163 163 163 163 163	165 163 163 163 163 163 163 163 164 163 164 163 164 163 164 162 163 164 162 161 161 161 161 162 163 164 161 162 163 164 165 160 159 158 157 PROP, 14,807, 2500 150 157 157 158 157 158 157 158 157 158	165 164 164 163 164 163 164 163 164 163 164 163 164 163 164 162 162 163 164 162 162 163 164 162 162 163 164 162 163 164 162 163 164 162 163 164 160 159 158 158 157 158 157 157 157 157 158 157 158 157 158	165 163 163 163 163 163 163 163 163 164 163 164 163 163 164 163 164 163 164 165 161 161 161 161 161 161 161 162 163 164 165 161 162 163 164 165 165 158 157 157 157 157 157 157 157 157 157 157 157 157 157	165 163 164 164 163 163 163 163 163 163 164 164 163 163 164 164 163 163 161 164 161 164 161 164 163 164 164 164 161 164 163 164 164 164 163 164 164 164 160 164 158 158 157 158 158 157 157 158 157 158 157 158

SURVEY CONTROL MONUMENT 73H0332 IN SIDEWALK ON S SIDE OF THERMAL DR OPPOSITE HOUSE 919 & NEAR INT. OF SEYMORE DR. ELEVATION =160.681 M

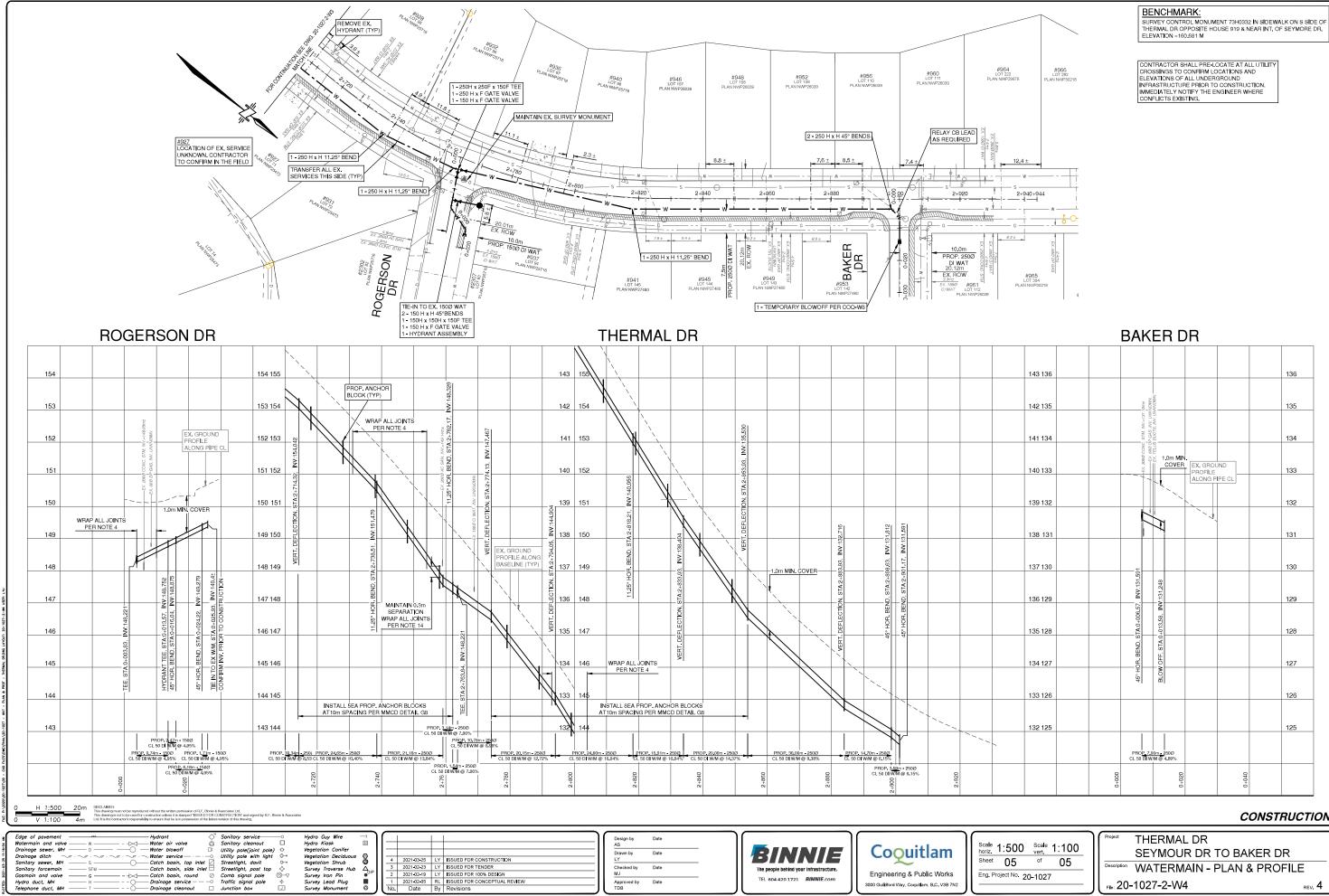


ot Date: March 25, 202

		012 TEE, STA.0+008.25	142-9 MWU 02 142-140-140-140-140-140-140-140-140-140-140	00-00-12-48m - 159 50 DI W/M @ 9.00 PROP. 10 PROP. 10 CL 50 DI		3		155 154 153		
	000+0		0+020		0+040					
CONSTRUCTION										
,	1:50 05 Description WATERMAIN - PLAN & PROFILE rec: 20-1027-2-W3 REV. 4									

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

SURVEY CONTROL MONUMENT 73H0332 IN SIDEWALK ON S SIDE OF THERMAL DR OPPOSITE HOUSE 919 & NEAR INT, OF SEYMORE DR. ELEVATION = 160.681 M



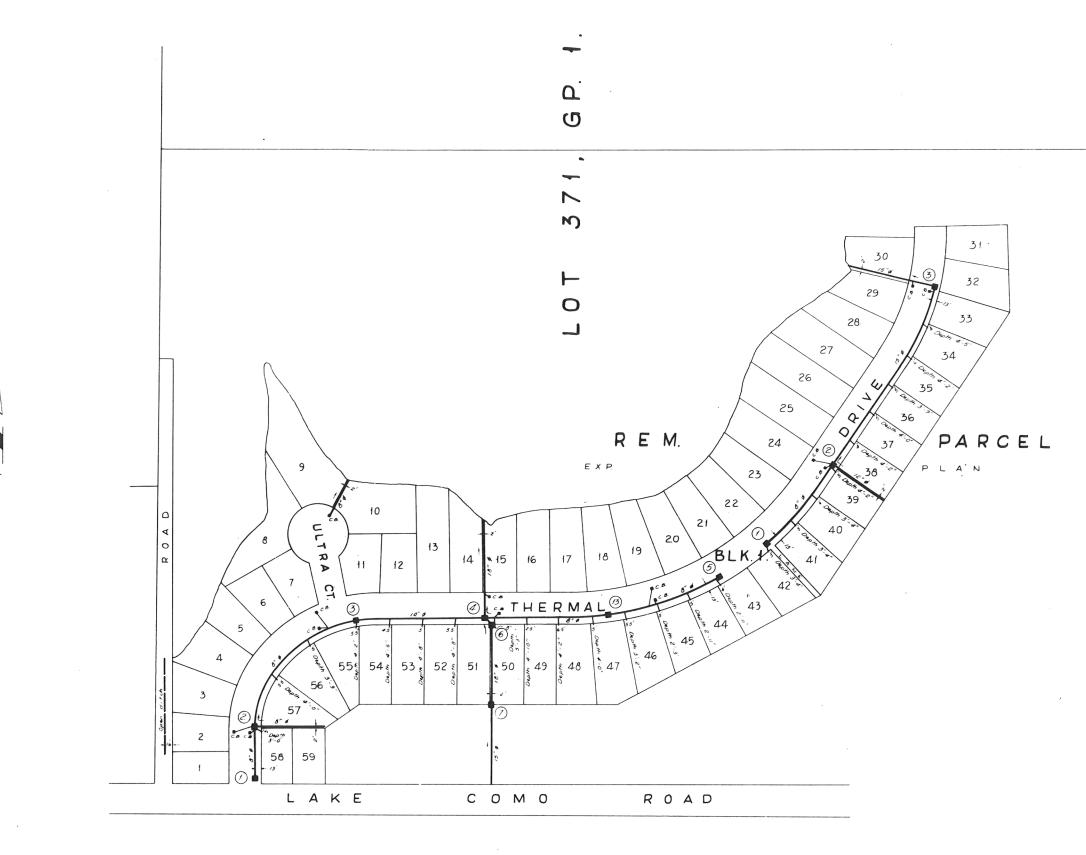
ot Date: March 25, 20

ABR 4

		BAK	ERL	R		
143 136						136
142 135		10m±				135
		2008 CONC. STM, INV.:=131.10m± =EX.608 DP GAS. INV. UNIVOWV	78, MV. UN			
141 134		NC. STN				134
140 133		EX. 2000 CO	린 김 .0m MIN COVER	EX. GROU		133
139 132			∼t ,	ALONG P	IPE CL	132
100 102		4		<u>, , 1</u>		102
138 131			4			131
137 130		-5-				130
136 129		45° HOR. BEND, STA:0+006.57, INV:131.591	NV:131.248			129
		006.57,				
135 128		TA:0+1	+013.5			128
104 107		a. BEND, S	BLOW OFF, STA:0+013.58,			107
134 127			FOW			127
133 126		41	ωı			126
132 125						125
102 120						120
		PRO <u>P. 7.0</u> CL 50 DI W	10m_250Ø /M @ 4.89%			
	000+0		0+020		0+040	

CONSTRUCTION

Description WATERMAIN - PLAN & PROFILE File: 20-1027-2-W4 _{rev.} 4



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IMPORTANT: HYDRO, GAS AND TELEPHONE ARE NOT LOCATED ON THE CITY OF COQUITLAM AS-BUILTS. CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT

AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE: LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFRIMED BY A PIPE LOCATOR AND MANUAL DIGGING. ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIES BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUAARENTEED BY THE CITTY.



" "

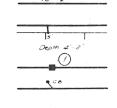
LEGEND

8, 10, 15 \$ 18 Concrete loterols shown thus , 4"Lot connections shown thus,



Manholes shown thus,

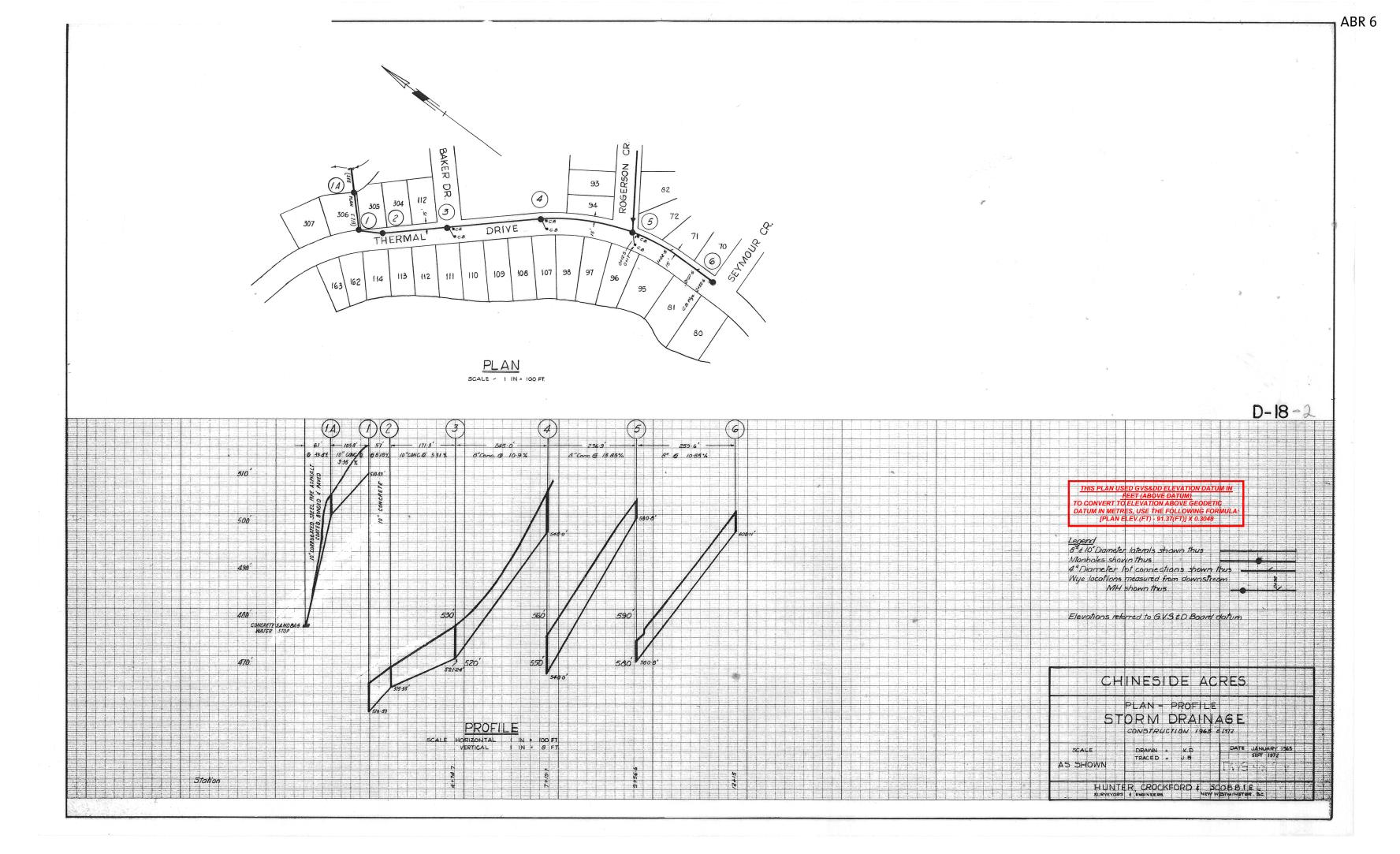
Cotch basins shown thus

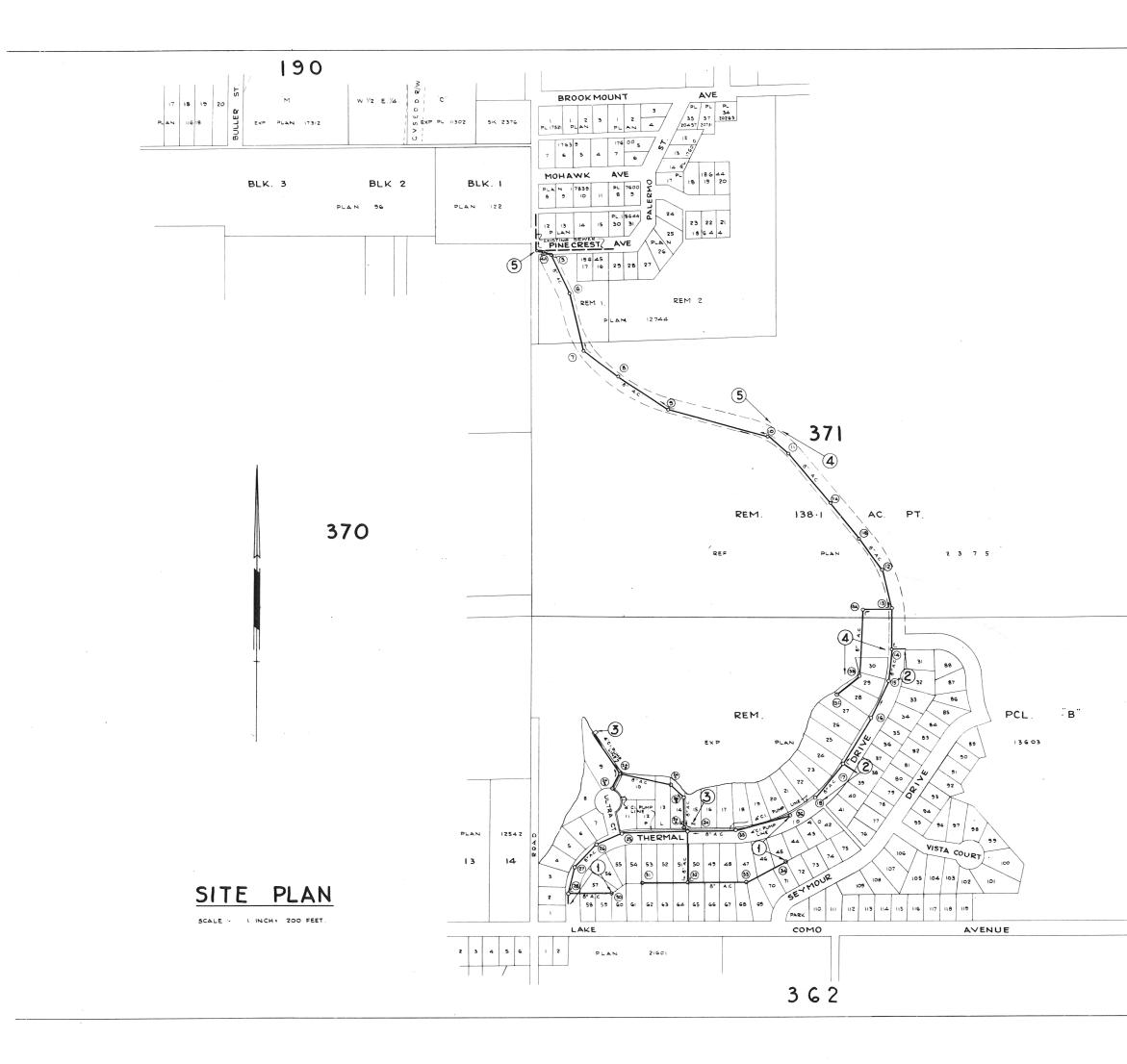


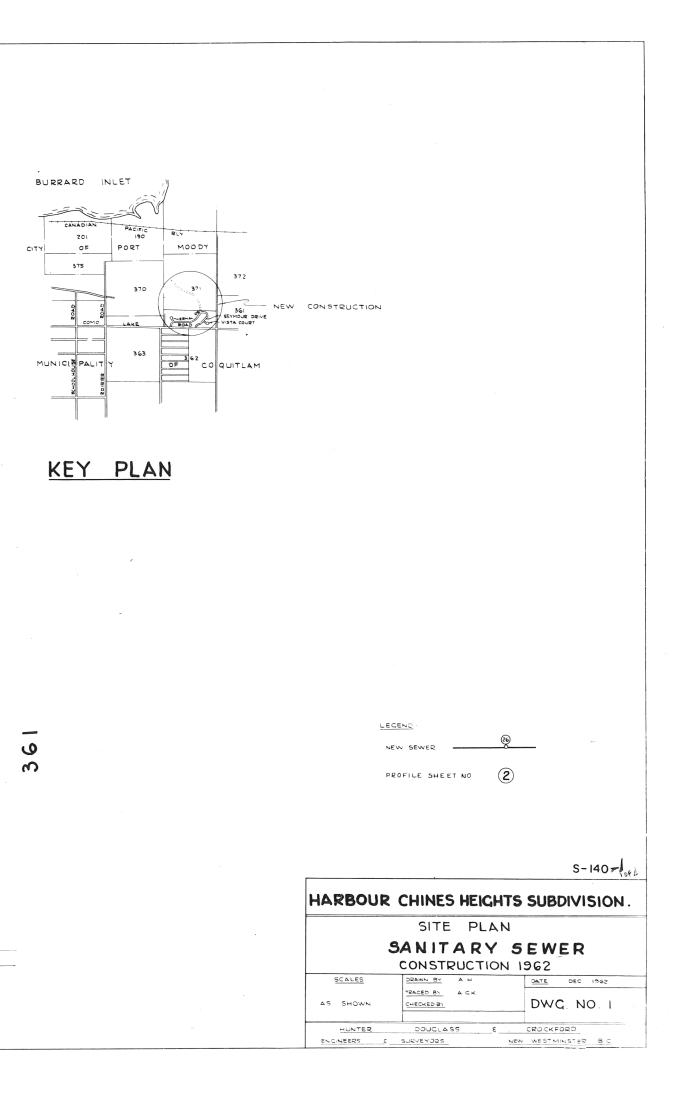
D-16-1

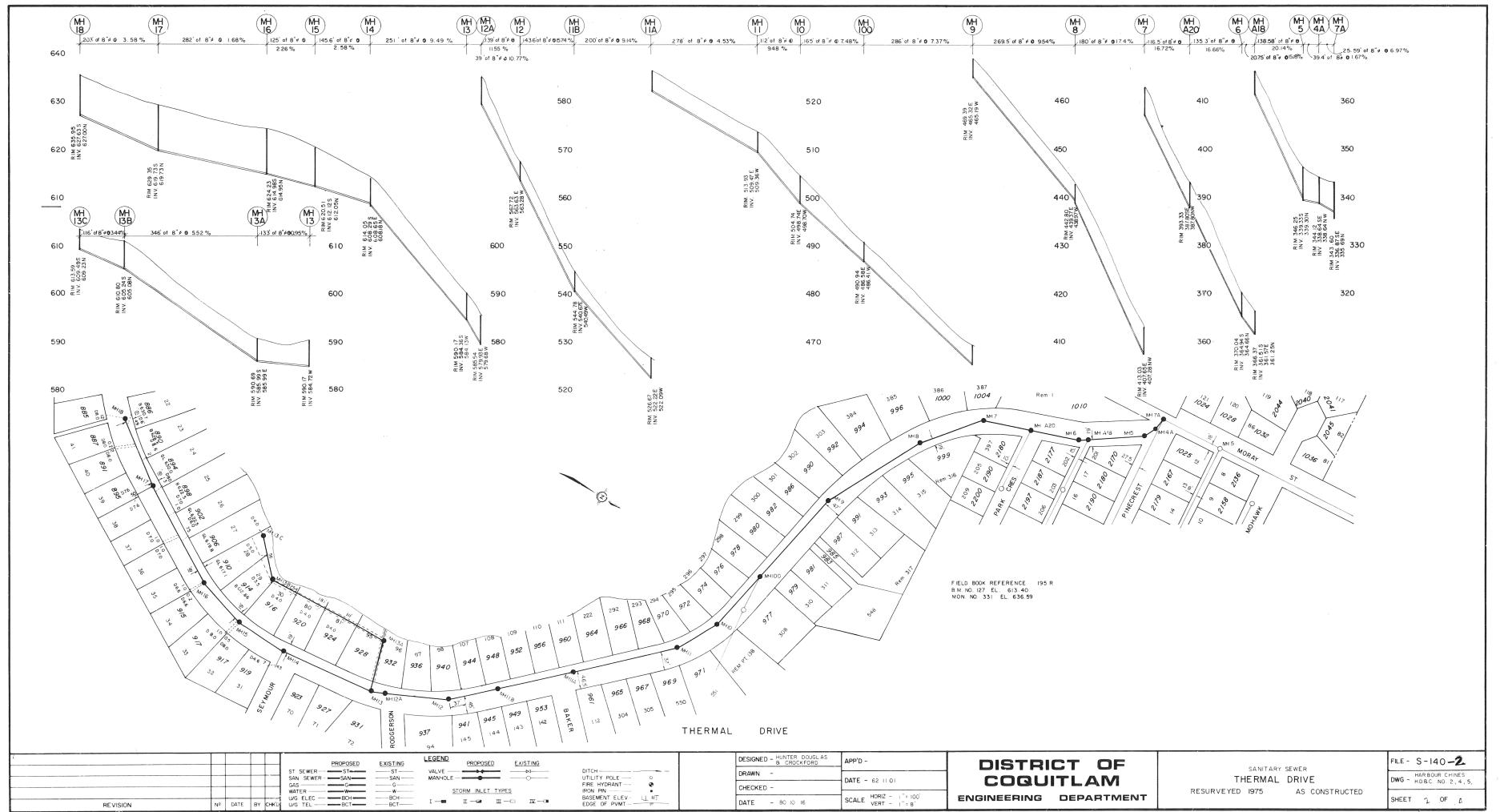
HARBOUR CHINES HEIGHTS SUBDIVISION PLAN STORM SEWERS. CONSTRUCTION 1960 DRAWN P. B DATE, MARCH 15/63

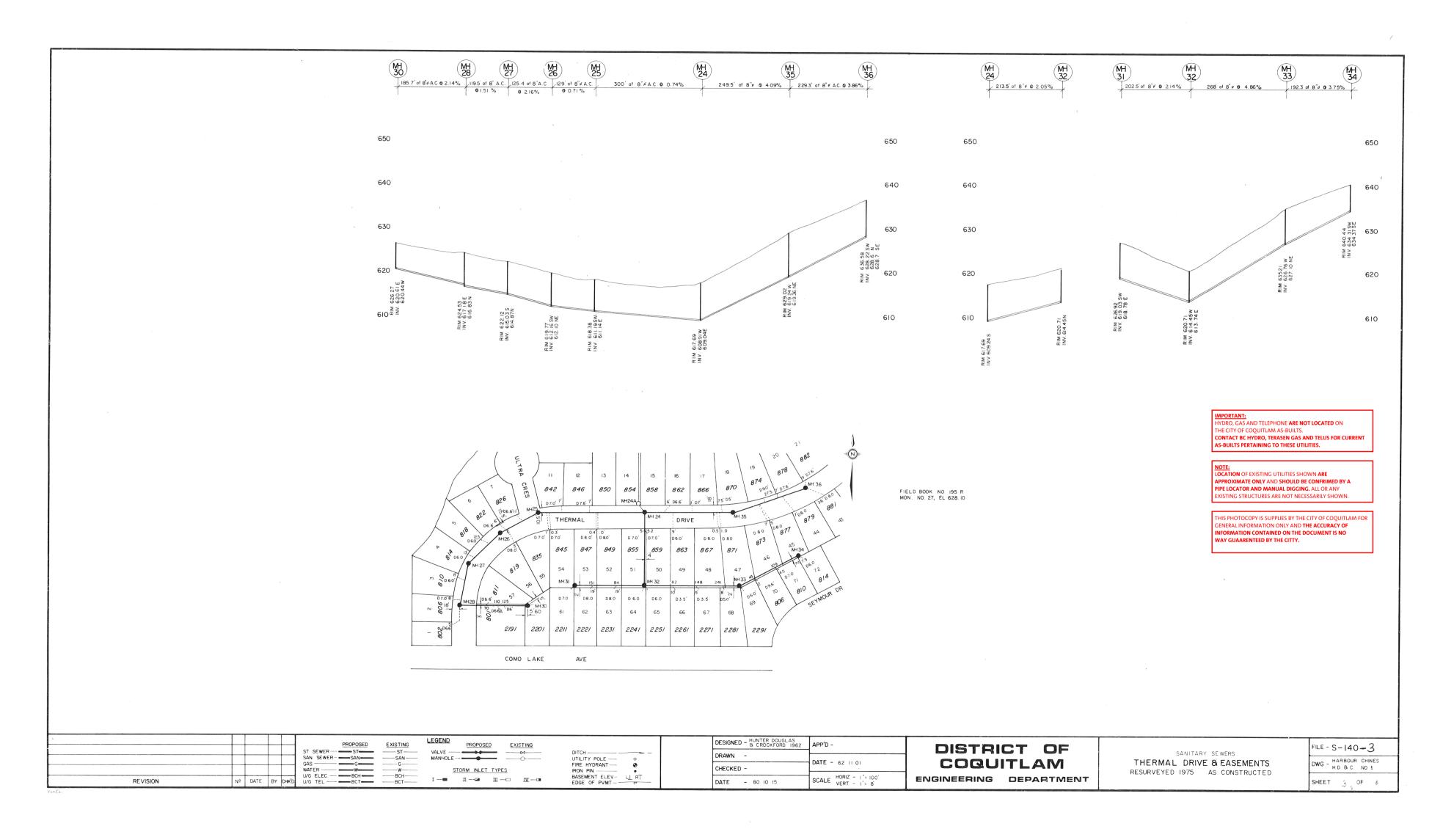
SCALE 1 IN - 100 FT	TRACED J B	 DWG.NO.	OF 1
	DOUGLASS ENGINEERS	OCKFOR NESTMINISTER	D Bc
			D-16











Appendix C – Supplementary Detailed Drawings

Coquitlam

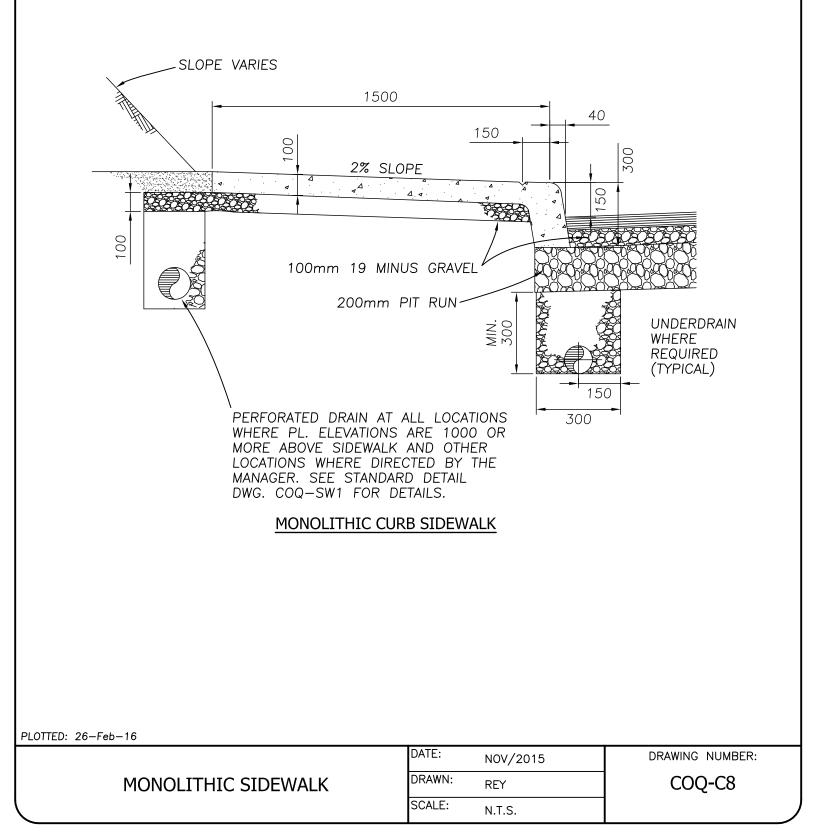
STANDARD DETAIL DRAWINGS

SDD 1

(3)SLOPE AS SPECIFIED BY ENGINEER (MAY BE REVERSED) SLOPE 1500 SLOPE MONOLITHIC CURB-SIDEWALK SCORE LINES AT 150cc 1200 SLAB THICKENS TO 190 AT CROSSING 4500 min. 6000 max. AS SPECIFIED BY THE ENGINEER FRONT ELEVATION 'B-B' PLAN SECTION 230 30 **JLTIMATE PAVEMENT SURFACE** 2 25 PROPERTY LINE 1200 CURB FACE SLOPE SLOPE 1500 (2)(1 VARIES 1650 150 90 3 NOTE: 25 TO 230 max. TO SUIT DRIVEWAY P WHERE DRIVEWAY IS AT LOWER GRADE 1. THAN SIDEWALK, CROSSING SLOPES 190 'B'∢ SHALL BE REVERSED AS INDICATED BY DASHED LINES IN SECTION. PAVE 1 2. FLARE REQUIRED ON EACH SIDE 300 'B'◀ WHERE NEW CROSSING IS INSTALLED 3. IN EXIST. SIDEWALK, BREAK OUT TO PLOTTED: 19-Nov-20 NEAREST TRANSVERSE LINE. SECTION 'A-A' DATE: DRAWING NUMBER: MAY/2015 MONOLITHIC CURB-SIDEWALK DRAWN: COQ-C7C REY **CROSSING WITH DRIVEWAY** SCALE: N.T.S.

STANDARD DETAIL DRAWINGS

Coquitlam



SDD 2