



REQUEST FOR QUOTATIONS

Title: 2022 Storm Sewer Rapid Scan Inspection Program

Reference No.: 1220-040-2022-018

MINOR WORKS (MMCD)

(Construction Services)

Issue Date: February 11th, 2022

**REQUEST FOR QUOTATIONS
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REQUEST FOR QUOTATIONS

(TO BE READ WITH “INSTRUCTIONS TO TENDERERS – PART II” CONTAINED IN THE EDITION OF THE PUBLICATION “MASTER MUNICIPAL CONSTRUCTION DOCUMENTS” SPECIFIED IN SCHEDULE 1 BELOW)

1. INTRODUCTION

1.1 Purpose of the Request For Quotations

The City of Surrey (the “*Owner*”) invites *Contractors* to provide a quotation on the form attached as Schedule C (the “*Quotation*”) for the supply of the goods (if any) and services described in Schedule A (the “*Work*”). The description of the *Work* sets out the minimum requirements of the *Owner*. A person that submits a *Quotation* (the “*Contractor*”) should prepare a *Quotation* that meets the minimum requirements, and may as it may choose, in addition, to also include goods, services or terms that exceed the minimum requirements.

2. ADDRESS FOR DELIVERY

The *Contractor* should submit the Quotation **electronically** in a single pdf file which must be delivered to the *Owner* by email at: purchasing@surrey.ca

The *Owner* will confirm receipt of emails. Note that the maximum file size the *Owner* can receive is 10Mb. If sending large email attachments, *Contractors* should phone to confirm receipt. A *Contractor* bears all risk that the *Owner*’s equipment functions properly so that the *Owner* receives the Quotation in accordance with the RFQ.

3. DATE

The *Owner* would prefer to receive Quotations on or before **March 1st, 2022** (the “*Date*”).

4. INQUIRIES

All inquiries related to this RFQ should be directed in writing to the person named below (the “*Owner Representative*”). Information obtained from any person or source other than the *Owner Representative* may not be relied upon.

Name: Sunny Kaila, Manager, Procurement Services

Email: purchasing@surrey.ca

Reference: 1220-040-2022-018

Inquiries should be made no later than 7 business days before the date set out in Section 3. The *Owner* reserves the right not to respond to inquiries made within 7 business days of the date set out in Section 3. Inquiries and responses will be recorded and may be distributed to all *Contractors* at the discretion of the *Owner*.

Contractors finding discrepancies or omissions in the Agreement or RFQ, or having doubts as to the meaning or intent of any provision, should immediately notify the City Representative. If the *Owner* determines that an amendment is required to this RFQ, the *Owner Representative* will issue an addendum in accordance with Section 5. No oral

conversation will affect or modify the terms of this RFQ or may be relied upon by any Contractor.

5. ADDENDA

If the *Owner* determines that an amendment is required to this RFQ, the *Owner's* Representative will post a written addendum on the BC Bid Website at www.bcbid.gov.bc.ca (the "BC Bid Website") and on the *Owner Website* at www.surrey.ca (the "*Owner Website*") and upon posting will be deemed to form part of this RFQ. No amendment of any kind to the RFQ is effective unless it is posted in a formal written addendum on the *Owner Website*. Upon submitting a Quotation, *Contractors* will be deemed to have received notice of all addenda that are posted on the *Owner Website*.

6. NO CONTRACT

This RFQ is simply an invitation for Quotations (including prices and terms) for the convenience of all parties. It is not a tender and no obligations of any kind will arise from this RFQ or the submission of *Quotations*.

7. ACCEPTANCE

A Quotation will be an offer to the *Owner* which the *Owner* may accept at any time by signing the copy of the Quotation and delivering it to the *Contractor*. A *Quotation* is not accepted by the *Owner* unless and until both the authorized signatory of the *Contractor* and the authorized signatory of the *Owner* have signed. Delivery of the signed Quotation by the *Owner* may be by pdf email. In that event, the resulting *Contract* will be comprised of the documents included in the definition of *Contract* in Schedule B – Draft Contract.

8. CONTRACTOR'S EXPENSES

Contractors are solely responsible for their own expenses in preparing and submitting Quotations, and for any meetings, negotiations or discussions with the *Owner* or its representatives and consultants, relating to or arising from the RFQ. The *Owner* will not be liable to any *Contractor* for any claims, whether for costs, expenses, losses or damages, or loss of anticipated profits, incurred by the *Contractor* in preparing and submitting a Quotation, or participating in negotiations for a contract, or other activity related to or arising out of this RFQ.

9. CONTRACTOR'S QUALIFICATIONS

By submitting a Quotation, a *Contractor* represents that it has the expertise, qualifications, resources, and relevant experience with the requirements of the *Work*.

10. CONFLICT OF INTEREST

A *Contractor* should disclose in its Quotation any actual or potential conflicts of interest and existing business relationships it may have with the *Owner*, its elected or appointed officials or employees. The *Owner* may rely on such disclosure.

11. SOLICITATION OF COUNCIL MEMBERS, CITY STAFF AND CITY CONSULTANTS

Contractors and their agents will not contact any member of the City Council, City staff or City consultants with respect to this RFQ, other than the contact person named in Section 4, at any time prior to the award of a *Contract* or the cancellation of this RFQ.

12. CONFIDENTIALITY

All Quotations become the property of the *Owner* and will not be returned to the *Contractor*. All Quotations will be held in confidence by the *Owner* unless otherwise required by law. *Contractors* should be aware the *Owner* is a "public body" defined by and subject to the *Freedom of Information and Protection of Privacy Act* of British Columbia.

13. SIGNATURE

The legal name of the person or firm submitting the *Quotation* should be inserted in the Quotation. The *Quotation* should be signed by a person authorized to sign on behalf of the *Contractor* and include the following:

- (a) If the *Contractor* is a corporation then the full name of the corporation should be included, together with the names of authorized signatories. The Quotation should be executed by all of the authorized signatories or by one or more of them provided that a copy of the corporate resolution authorizing those persons to execute the Quotation on behalf of the corporation is submitted;
- (b) If the *Contractor* is a partnership or joint venture then the name of the partnership or joint venture and the name of each partner or joint venturer should be included, and each partner or joint venturer should sign personally (or, if one or more person(s) have signing authority for the partnership or joint venture, the partnership or joint venture should provide evidence to the satisfaction of the *Owner* that the person(s) signing have signing authority for the partnership or joint venture). If a partner or joint venturer is a corporation then such corporation should sign as indicated in subsection (a) above; or
- (c) If the *Contractor* is an individual, including a sole proprietorship, the name of the individual should be included.

14. DISCLAIMER

- (a) The information in this RFQ and any further supporting documentation is provided for reference purposes only. It is the responsibility of interested parties to confirm the accuracy and applicability of this information. All costs related to updating or acquiring additional information shall be born solely by the *Contractor*. The information contained in this RFQ has been prepared, in part, on information provided by others, and such information is believed to be accurate and reliable. Any party who intends to submit a response to this RFQ is specifically invited to independently verify the accuracy of the information contained herein;
- (b) The *Owner* shall not be obligated to review or accept any *Quotation* and may reject any or all *Quotations* without giving reasons therefore;
- (c) All negotiations and discussions with *Contractors* are on a "without prejudice" basis and cannot be construed as an agreement, and/or otherwise unless expressly approved by City Council and a written agreement is signed by the *Owner*;

- (d) The *Owner* may negotiate with any one or more of the *Contractors* without having any duty or obligation to advise or allow any other *Contractors* to vary their *Quotation* or otherwise negotiate with the *Owner*;
- (e) The *Owner* may enter into discussions to clarify issues related to any *Quotation*. If at any time the *Owner* reasonably forms the opinion that a mutually acceptable agreement is not likely to be reached, the *Owner* may give notice terminating discussions, but is under no obligation to do so;
- (f) The *Owner* does not authorize any other person or agency to represent the project on its behalf without the prior written approval of the *Owner*. The *Owner* has not engaged a real estate agent or broker in respect of the project. The *Owner* shall not be responsible for the payment of any fees, commissions or expenses claimed by any third party unless previously agreed to in writing;
- (g) By submitting an offer and participating in the process as outlined in this RFQ, Respondents expressly agree that no contract of any kind is formed under, or arises from, this RFQ process; and
- (h) By its receipt of this RFQ, each Respondent remises, releases, and forever discharges the *Owner* and its representatives (including staff and consultants and other professional advisors) from any and all claims, losses or damages of any kind, howsoever caused, which such person has, have, or may hereafter have arising out this RFQ.

15. RESERVATION OF RIGHTS

Notwithstanding any other provision in this RFQ:

- (a) The *Owner* need not necessarily consider the *Quotation* with the lowest *Quotation Price*, or any *Quotation*, and the *Owner* reserves the right to reject any and all *Quotations* at any time, or cancel the RFQ process, without further explanation, and to accept any *Quotation* the *Owner* considers to be in any way advantageous to it.
- (b) The *Owner's* acceptance of any *Quotation* is contingent on having sufficient funding for the purchase and achieving a mutually acceptable contract for the supply and delivery of the Goods.
- (c) Each Contractor, by submitting a *Quotation*, irrevocably:
 - (i) agrees that it will not bring any claim, demand, action, cause of action, suit or proceeding, whether arising in contract, tort (including negligence) or otherwise (a "Claim") against the *Owner* or any of its employees, directors, officers, advisors or representatives, or any one of them, for any costs, damages or other compensation in excess of an amount equivalent to the actual and reasonable costs directly and demonstrably incurred by the Contractor in preparing its *Quotation* for any matter relating directly or indirectly to this RFQ (including in the event that the *Owner* rejects or disqualifies or for any other reason fails to accept a *Quotation*, accepts a

- (ii) non-compliant Quotation or otherwise breaches, or fundamentally breaches, the terms of this RFQ or any duties arising from this RFQ); and waives any Claim against the *Owner* and its employees, directors, officers, advisors or representatives for any compensation of whatsoever nature or kind, including for loss of anticipated profits, loss of opportunity, indirect, incidental or consequential damages or losses if no contract between the Contractor and the *Owner* is entered into for the supply and delivery of the Goods for any reason whatsoever, including in the event that the *Owner* rejects or disqualifies or for any other reason fails to accept a Quotation, accepts a non-compliant Quotation or otherwise breaches, or fundamentally breaches, the terms of this RFQ or any duties arising from this RFQ.
- (d) If the *Owner* considers that all Quotations are priced too high, it may reject them all.

16. LIMITATION OF LIABILITY

Notwithstanding anything to the contrary contained in the RFQ or any other document, material or communication made available to *Contractors* by the *Owner* or its representatives in connection with this RFQ, the *Owner* accepts no responsibility or liability for the accuracy or completeness of this RFQ (including any schedules or appendices to it) or any recorded or oral information communicated or made available for inspection by the *Owner* (including through the Owner Representative or any other individual) and no representation or warranty, either express or implied, is made or given by the *Owner* with respect to the reliability, accuracy, completeness or relevance of any of those things. The sole risk, responsibility and liability connected with reliance by any *Contractor* or any other person on this RFQ or any such information as is described in this paragraph is solely that of each *Contractor*.

17. ADDITIONAL INSTRUCTIONS

- (a) Amendment to 5.1 of the Instructions to Tenderers-Part II, by deleting the first sentence and replacing with:

“A quote should be on the Form of Quote as provided and be signed by the authorized signatory(s) as follows:”

- (b) Amendment to 5.3 of the Instructions to Tenderers - Part II, by deleting the first sentence and replacing with:

A quote should include the following Appendices.

- (c) Amendment to 15.1 of the Instructions to Tenderers – Part II, by deleting the paragraph after 15.1.3, and replacing with:

In exercising its discretion, the *Owner* will have regard to the information provided by the Contractor in the Appendices to the Form of Quote as described under IT5.3, and may also have regard to any information obtained by the *Owner* in evaluating such quote information, any information obtained by the *Owner* from

any other person, firm or corporation relating to their previous experience with the Contractor, as well as the Owner's previous relevant experience, if any, with the Contractor. In exercising this discretion the Owner may consider, but is not limited to, the following criteria in addition to the Quote Price:

- a) the proven experience of the Contractor, and any listed subcontractors to do the Work;
- b) the Contractor's ability to complete the Work within the Preliminary Construction Schedule including timeliness in completing deficient works;
- c) the Contractor's ability to work effectively with the Owner, its consultants and representatives, and the public;
- d) the Contractor's ability to manage and do the work effectively using the named superintendent and submitted subcontractors;
- e) the Contractor's history on other projects including with respect to quality of work, changes in the work, force account work, and the contract administration costs of the Owner; and
- f) the nature of any legal proceedings undertaken by the Contractor, or any officer or director of the Contractor directly (or indirectly through another corporation) against the Owner within the last five years of the Invitation to Quote.

SCHEDULE A – SCOPE OF WORK AND CONTRACT DRAWINGS

PROJECT TITLE: Storm Sewer Rapid Scan Inspection Program

PROJECT No.: 1220-040-2022-018

1. DESCRIPTION OF SCOPE OF WORK

The *Contractor* shall furnish all necessary labour, supervision, materials, plant, equipment, layout, survey, permits, and inspections, and related services to video inspect storm sewer mains, and manholes as noted in the *Contract Drawings*. Furnish certificates confirming work conforms to requirements of Authorities having jurisdiction.

The *Work* generally includes, but not limited to, zoom camera video inspection of storm mains, manhole inspections, provision for traffic control, and other related works.

The *Work* will be undertaken at various locations throughout the City of Surrey as detailed in the attached drawings.

The detailed scope of work is as described in the Supplementary Specifications -Project (Schedule B - Appendix 2) and *Contract Drawings (Project)* (Schedule B – Appendix 3).

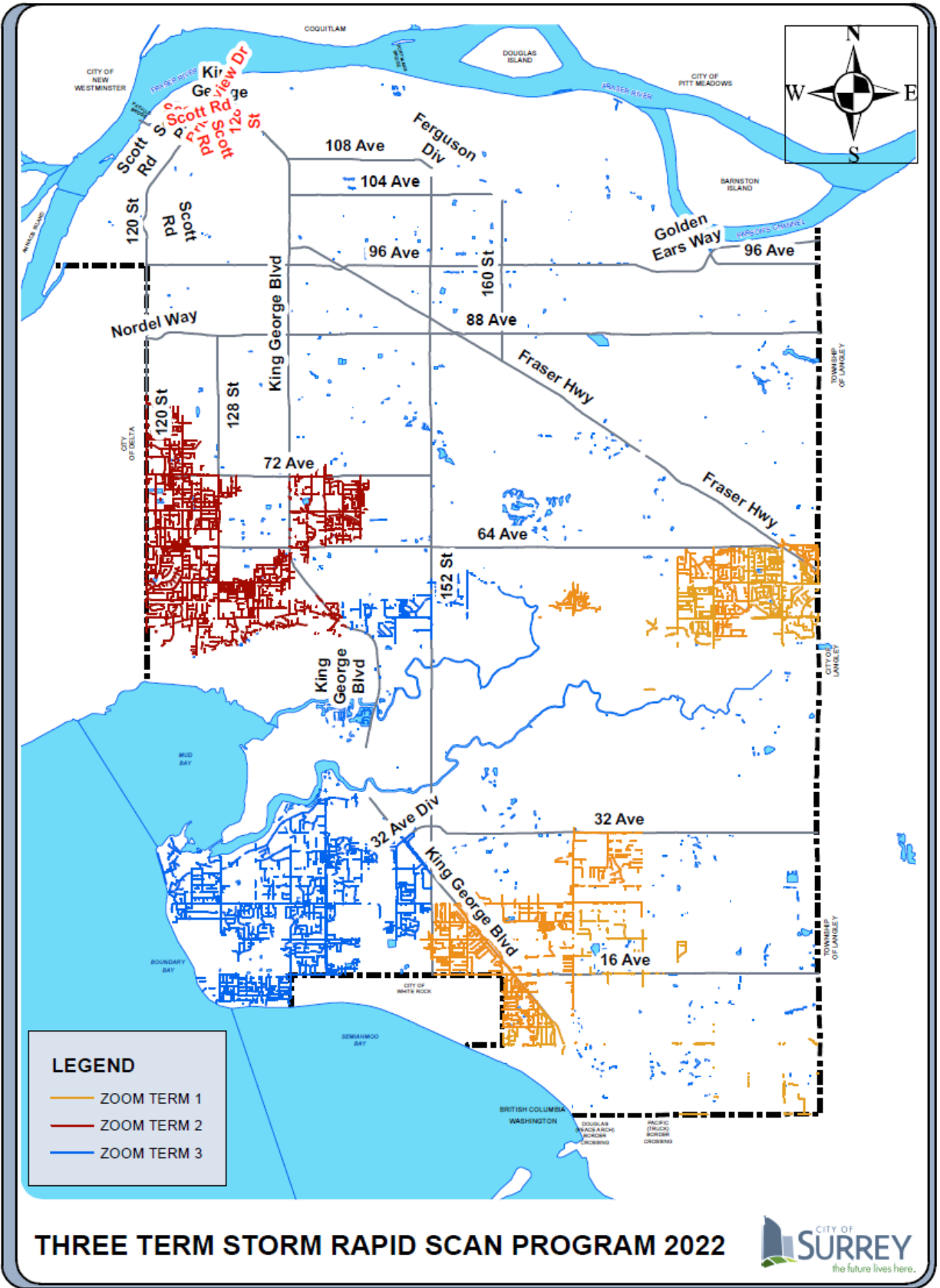
The lack of and/or omission of detailed specifications does not minimize the acceptable levels of service and only the best commercial practices are acceptable.

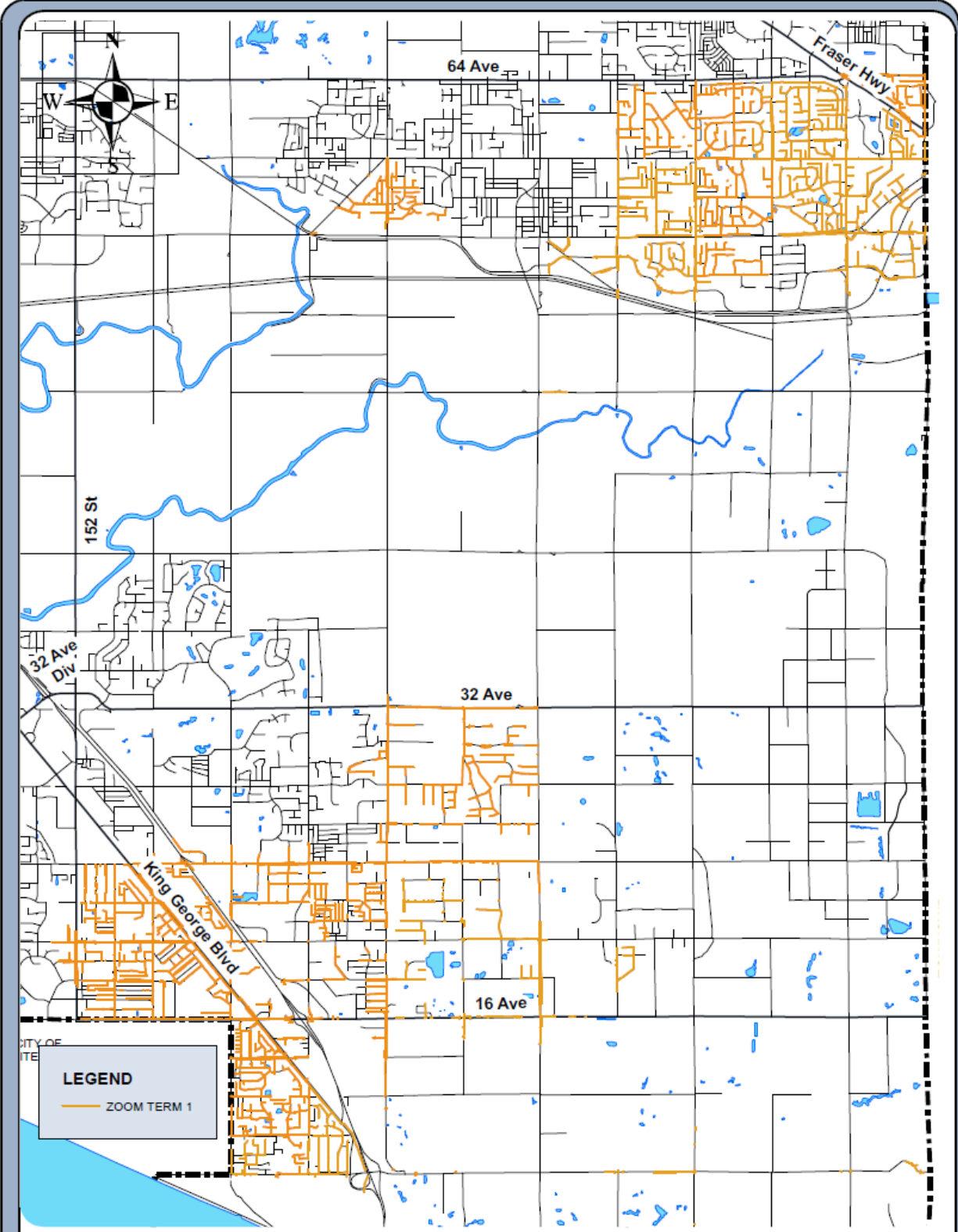
Contractor to comply with all BC Plumbing Code, BC Fire Marshal, BC Workers' Compensation Board, National Building Code of Canada, BC Boiler Inspector, BC Electrical Inspector, National Fire Protection Association, and any other authorities having local jurisdiction. Failure to abide by these rules and regulations will result in being immediately escorted from the work site.

2. CONTRACT DRAWINGS (PROJECT)

The following Contract Drawings are included as part of this RFQ.

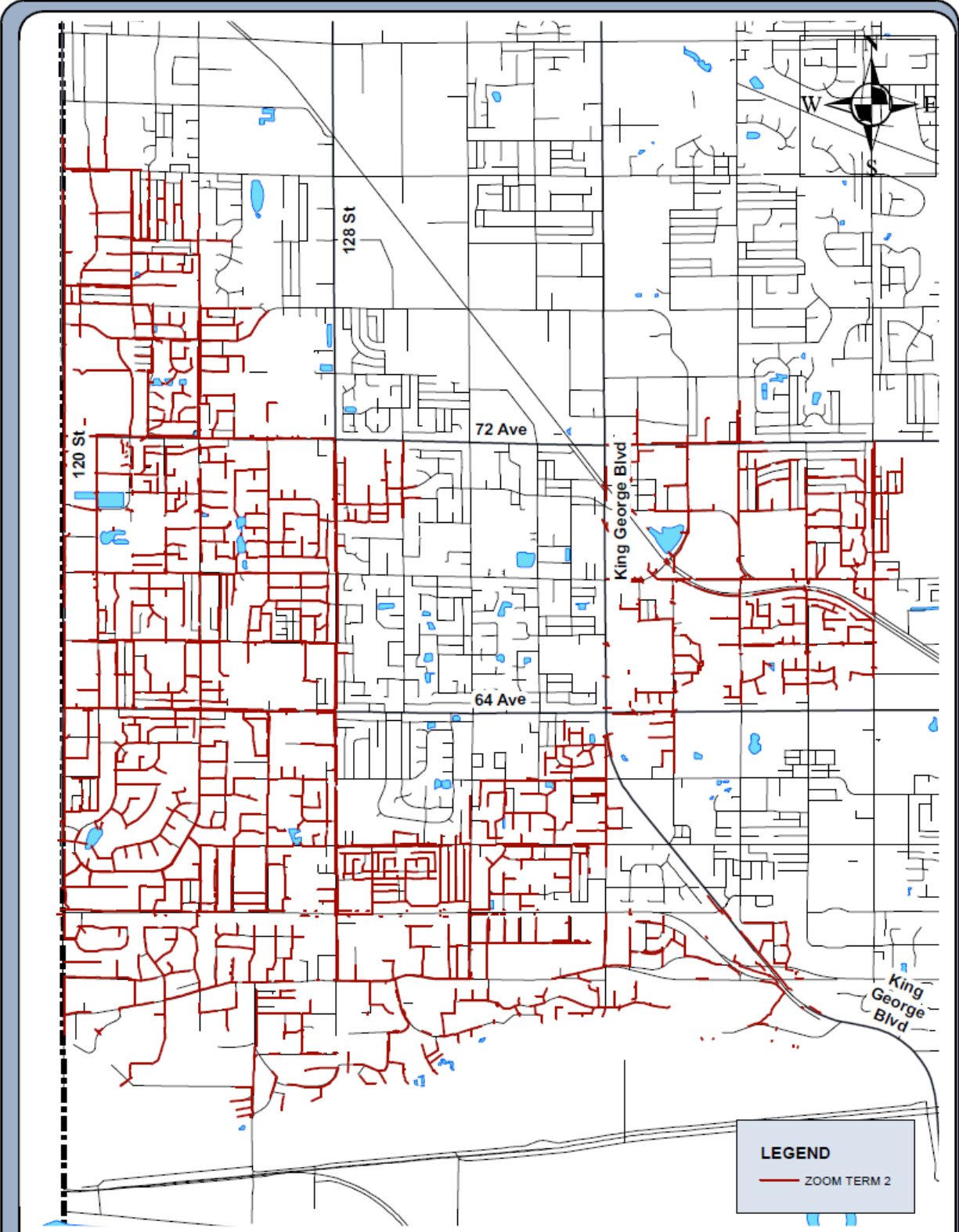
DRAWING NUMBER SPECIFICATION
THREE TERM STORM RAPID SCAN PROGRAM 2022
THREE TERM STORM RAPID SCAN PROGRAM 2022 TERM 1
THREE TERM STORM RAPID SCAN PROGRAM 2022 TERM 2
THREE TERM STORM RAPID SCAN PROGRAM 2022 TERM 3





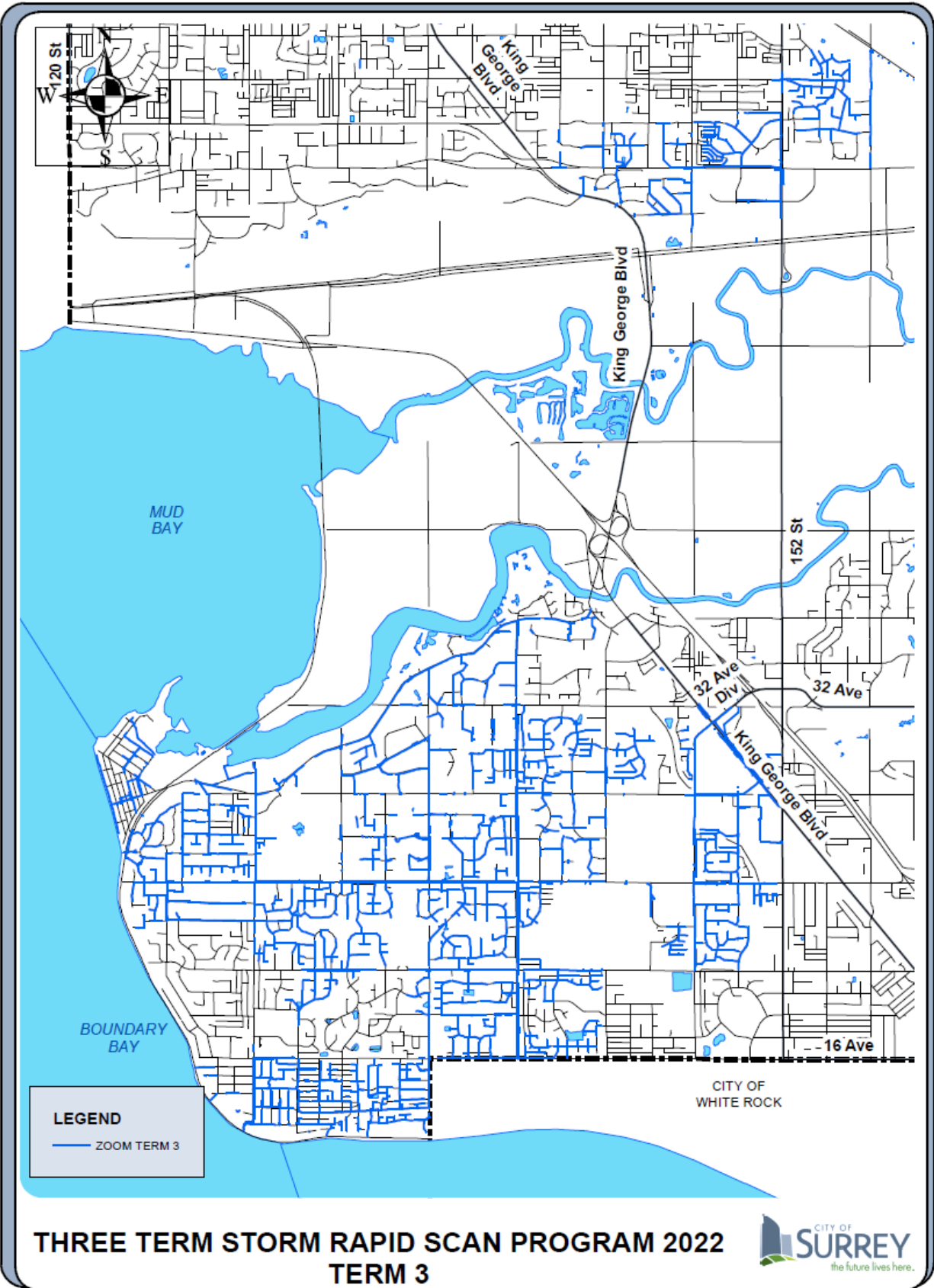
THREE TERM STORM RAPID SCAN PROGRAM 2022
TERM 1





THREE TERM STORM RAPID SCAN PROGRAM 2022
TERM 2





THREE TERM STORM RAPID SCAN PROGRAM 2022
TERM 3





SCHEDULE B – SAMPLE FORM OF AGREEMENT

- 1. Form of Agreement between *Owner* and *Contractor***
- 2. Schedule 1 – Schedule of *Contract Documents***
- 3. Schedule 2 – List of *Contract Drawings***

SCHEDULE B - SAMPLE FORM OF AGREEMENT

BETWEEN *OWNER* AND *CONTRACTOR*

This agreement (the "Agreement") made in duplicate this

_____ day of _____, 20_____.

Contract: **Storm Sewer Rapid Scan Inspection Program**
(TITLE OF CONTRACT)

Reference No. **1220-040-2022-018**
(*OWNER'S CONTRACT REFERENCE NO.*)

BETWEEN:

City of Surrey

(NAME OF *OWNER*)

(the "*Owner*")

AND:

(NAME AND OFFICE ADDRESS OF *CONTRACTOR*)

(the "*Contractor*")

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

- Article 1 The Work Start / Completion Dates**
- 1.1 The *Contractor* will perform all *Work* 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 October 31st, 2022 subject to the provisions of the *Contract Documents* for adjustments to the *Contract Time*. The *Contractor* will provide the *Work* for the period commencing on May 1st, 2022 and, terminating on October 31st, 2022.

1.3 Time shall be of the essence of the *Contract*.

Article 2 Contract Documents

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

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

Article 3 Contract Price

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

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

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

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

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

Article 4 Payment

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

4.2 At the substantial performance, a holdback will be made from the monthly progress payment to the *Contractor*. The holdback shall be the lesser of \$30,000 or 5% of the total *Contract* value including any change orders.

This holdback shall be released upon the submission, by the *Contractor*, of sufficient field data, to the Contract Administrator, for

the creation of as-constructed drawings. The sufficiency of data will solely be determined by the Contract Administrator before instructing the Owner, in writing, for the release of this holdback.

Article 5 Rights and Remedies

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

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

Article 6 Notices

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

The *Owner*:

City of Surrey, Surrey City Hall – Engineering Department

13450-104th Avenue

Surrey, B.C.

V3T 1V8

Attention: Ron Lim, Engineering Assistant

The *Contractor*:

<<insert information>>

Attention: <<insert name and title>>

The Contract Administrator:

Wedler Engineering

202 – 10216 128 St.

Surrey, BC V3T 2Z3

Attention: Tim Jorgensen, P.Eng., LEED AP

- 6.2 A communication or notice that is addressed as above shall be considered to have been received
- 6.2.1 immediately upon delivery, if delivered by hand; or
 - 6.2.2 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*.

- END OF PAGE -

Article 7 General

- 7.1 This *Contract* shall be construed according to the laws of British Columbia.
- 7.2 The Contractor shall comply with all applicable policies, procedures and instructions provided by the *Owner*.
- 7.3 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.
- 7.4 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*.
- 7.5 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.
- 7.6 This *Contract* 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) (SIGN & PRINT NAME)

(AUTHORIZED SIGNATORY) (SIGN & PRINT NAME)

Owner:

City of Surrey

(AUTHORIZED SIGNATORY) (SIGN & PRINT NAME)

(AUTHORIZED SIGNATORY) (SIGN & PRINT NAME)

SCHEDULE 1 - SCHEDULE OF CONTRACT DOCUMENTS

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

Note: The documents noted with “*” are contained in the “Master Municipal Construction Documents – General Conditions, Specifications and Standard Detail Drawings”, Platinum edition dated 2009, and the documents noted with “**” are contained in the City of Surrey Supplementary Master Municipal Construction Documents, edition dated January, 2016 (updated July 11, 2016). All sections of this publication are included in the Contract Documents.

1. Agreement, including Appendices and Schedules;
2. Addenda, if any;
3. Supplementary General Conditions, Project;
4. Supplementary General Conditions**;
5. General Conditions*;
6. Supplementary Specifications, Project;
7. Supplementary Specifications**;
8. Specifications*;
9. *Contract Drawings*;
10. Supplementary Standard Detail Drawings**;
11. Standard Detail Drawings*;
12. Executed Form of Quotation, including all Appendices, and Form of Agreement;
13. Schedule 2 to the Agreement – “List of *Contract Drawings*”;
14. Instructions to *Contractors* – Part I; and
15. Instructions to Tenderers – Part II*.

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 Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings” and the latest edition (updated July 11, 2016) of “City of Surrey Supplementary Master Municipal Construction Documents- Supplementary General Conditions, Supplementary Specifications and Supplementary Standard Drawings. Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.

Any additional information made available to *Tenderers* prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of tenderers who must make their own judgment about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.

SCHEDULE 2 - LIST OF CONTRACT DRAWINGS

The following *Contract Drawings* (Project) are included in the RFQ documents:

DRAWING NUMBER SPECIFICATION
THREE TERM STORM RAPID SCAN PROGRAM 2022
THREE TERM STORM RAPID SCAN PROGRAM 2022 TERM 1
THREE TERM STORM RAPID SCAN PROGRAM 2022 TERM 2
THREE TERM STORM RAPID SCAN PROGRAM 2022 TERM 3



SCHEDULE B – APPENDIX 1 SUPPLEMENTARY GENERAL CONDITIONS (PROJECT)

These Supplementary General Conditions (Project) should be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009.

SCHEDULE B – APPENDIX 1

SUPPLEMENTARY GENERAL CONDITIONS (PROJECT)

SGC 1 Scope of Work

The *Contractor* will provide all labour, materials, equipment and plant and other related services to the video inspection of storm sewer mains and manholes.

The general components of the Work includes, but not limited to, zoom camera video inspection of storm mains, and manhole video inspections, provision for traffic control and other related works.

The Work will be undertaken at the *Place of the Work*. The *Place of the Work* is in the drainage sub-catchments of the following Surrey neighbourhoods:

- Newton
- Cloverdale
- Crescent Beach
- Campbell Heights
- Various areas in South Surrey

The *Contractor* is to furnish certificates confirming Work conforms to requirements of Authorities having jurisdiction.

The detailed scope of work is as described on the *Contract Drawings* (listed below), Supplementary General Conditions (Schedule B – Appendix 1), and Supplementary Specifications (Project) (Schedule B- Appendix 2).

The lack of and/or omission of detailed specifications does not minimize the acceptable levels of service and only the best commercial practices are acceptable.

Contractor to comply with all BC Plumbing Code, BC Fire Marshal, Worksafe BC, National Building Code of Canada, BC Boiler Inspector, BC Electrical Inspector, National Fire Protection Association, and any other authorities having local jurisdiction. Failure to abide by these rules and regulations will result in being immediately escorted from the work site.

SGC 2 Contract Time

The Work under this Contract is to be completed not later than:

October 31, 2022 for the CCTV inspections and no later than **November 30, 2022** for completion of any remaining minor weather related sensitive work.

Notwithstanding the above milestone date/s, all Work under this Contract shall be completed by no later than **November 30, 2022**.

Should the *Contractor* fail to complete the Work under the Contract with the individual milestone date/s indicated above, the *Owner* will be entitled to compensation from the *Contractor*, including but not limited to deductions from payments for the following:

- (a) As a genuine pre-estimate of the *Owner's* increased costs for the Consultant and the *Owner's* own staff caused by such delay an amount of \$250.00 per day or pro rata portion for each calendar day that actual substantial performance is achieved after the substantial performance milestone date; plus
- (b) 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 monies owing to the *Contractor* are less than the total amount owing by the *Contractor* to the *Owner* under (a) and (b) above 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*.

SGC 3 Consultant

The Consultant is:

Tim Jorgensen
Wedler Engineering
202, 10216 - 128 Street
Surrey, BC V3T 2Z3.

Telephone: 604-588-1919
Fax: 604-588-1910,
E-mail: tjorgensen@wedler.com,

Tim Jorgensen, Contract Administrator, will be the *Owner's* representative during the performance of the Work until the Work is complete. The Consultant will advise and consult with the *Owner*. The *Owner's* instruction(s) to the *Contractor* may be forwarded through the Consultant.

The Consultant may periodically visit the Work site(s) to become familiar with the progress of the Work, the quality of the Work being provided and to determine if the Work is proceeding in accordance with the Contract Documents.

SGC 4 Payment Certifier

The Payment Certifier is Wedler Engineering, 202-10216 128 St., BC, V3T 2Z3. Telephone: 604-588-1919 Fax: 604-588-1910, E-mail: tjorgensen@wedler.com, represented by: Tim Jorgensen, Contract Administrator.

SGC 5 Project Manager

The Project Manager is City of Surrey, 13450 104 Ave., Surrey BC, V3T 1V8 Telephone: 604-590-7209, Fax: 604-591-7836, E-mail: RLim@surrey.ca, represented by: Ronald Lim, Engineering Assistant.

SGC 6 Schedule of Prices

This Contract is a combination of unit prices and lump sums.

Any Work item that is not implicitly described, or inferred, as being included in any regular item or optional item in the Schedule of Prices shall be included in the lump sum price proposed for 'Miscellaneous Work'.

For unit price items, the number of units for each item (i.e., quantities) as listed in the Schedule of Prices has been estimated. Actual quantities will vary. Payment will be made based on the measurement of the actual quantity of Work incorporated into the Contract.

The unit prices for each item will be applicable regardless of the variation in the actual quantity as compared to the estimated quantity. No adjustment to the unit price will be considered as a result of such variation.

SGC 7 Coordination

The *Contractor* will be responsible for coordinating with other *Contractors* *Owner* forces, outside agencies and others as required throughout the Contract. While it is not an all-inclusive list of potential coordination requirements, the following list of know activities that the *Contractor* should be aware of when planning for coordination:

Other Contractors

The *Contractor* will be required to coordinate their schedule and work program with the following construction activities, which will be tendered to other *Contractors* by the *Owner* and will be construction concurrent with the Contract.

NONE

SGC 8 Availability of Place of the Work

The *Place of the Work* is available for the immediate commencement of the Work. The anticipated start date is **May 1, 2022**. The *Contractor* will schedule the Work accordingly.

SGC 9 Quality Assurance

Work covered shall be performed by a single firm experienced in video inspections and manhole inspections of storm sewer mains or other work of similar nature and scope. Subject to approval of the *Owner*, the *Contractor* may subcontract any work to be performed under this Contract. However, the election to subcontract work shall not relieve the *Contractor* from responsibility or liability which it has assumed under this Contract and the *Contractor* shall remain liable to the same extent that its liability would attach, as if the Work had been performed by the *Contractor's* own employees.

All materials and hardware to be supplied by the *Contractor*, which is not specifically described herein, shall be of suitable construction, composition and quality to achieve their intended function.

SGC 10 Job Conditions

The *Contractor* shall be familiar with the project location and how the existing conditions will affect their work. This is so that no misunderstanding may arise afterwards as to the character or as to the extent of the work to be done; likewise, in order to advise and acquaint themselves with all precautions to be taken in order to avoid injury to person or property of another. No additional compensation will be granted because of any unusual difficulties or *Owner's* special requests that may be encountered in the execution of any portion of the work.

SGC 11 Environmental Protection

The *Contractor* warrants that it will not produce or discharge in any manner or form, directly or indirectly, chemicals or toxic substances into the environment and that all equipment used will not pose a hazard to, or harm or adversely affect anyone coming into contact with it and covenants and agrees to provide the *Owner* with an environmental plan (where applicable), acceptable to the *Owner*, which plan shall outline the procedures to be followed by the *Contractor* to prevent the production or discharge of chemicals or toxic substances into the environment and the actions to be taken should the discharge occur.

The *Contractor* will be responsible to take all necessary measures to comply with the requirements of the Federal and Provincial environmental protection agencies, *Owner* by-laws, the *Waste Management Act*, R.S.B.C. 1996, c. 482, as amended and any other applicable acts and regulations in respect to air, earth and water pollutants.

The *Contractor* will report to the *Owner* immediately if any hazardous or toxic materials are found or discovered. Such materials are to be left untouched and the area is to be marked and cordoned off to prevent any access to the workers and the public.

SGC 12 Safety

The *Contractor* will be responsible for site safety at the *Place of the Work* as and to the extent required by applicable construction safety legislation, regulations and codes, including *Workers Compensation Act* and applicable regulations, and by good construction practice.

Safety – Fall Protection - The *Contractor* and any trade *Contractor* shall include for all fall protection equipment and requirements necessary to complete scope of Work in a safe manner and in compliance with the site safety plan, which includes: Fall protection must be worn when working at a height over 6 ft. or as the hazards present necessity.

Safety – On-Site Hazards and Utilities Present – Before commencing any Work at the *Place of the Work*, the *Contractor* is to make themselves aware of any and all on-site hazards including but not limited to underground and overhead utilities near to the Work area and to take every precaution necessary to eliminate any risk that may exist. If an on-site hazard exists that is causing or may cause injury to any person(s), the *Contractor* is to take immediate action to mitigate risk and damage, and then notify the *Owner* and the *Owner's* consultant (if any).

SGC 13 Traffic Control

The *Contractor* shall at all times ensure that safety of the public (vehicular and pedestrian traffic) and its employees while carrying out video inspections of storm sewer infrastructure in *The Place of the Work*.

Whenever such works are carried out, the *Contractor*, at his expense, is to provide:

- all necessary signs, materials, barricades, and other warning devices;
- qualified and trained Traffic Control Personnel for traffic flagging services; and,
- in some cases, equipment such as flashing arrow boards, cones, etc.

These are specified in accordance with the Province of British Columbia, Ministry of Transportation & Highways' General Specifications for Highway Jurisdiction, Section 194 (Appendix A), and the Traffic control Manual for Work on Roadways, 1995 and the Traffic Control Manual for Work on Roadways, Field and Office Edition, (1999 Update). Please visit

http://www.th.gov.bc.ca/trafficcontrol/tc_guidelines1.htm, for the latest updates.

Additional services to ensure safety may be required at the discretion of the *Owner*. The *Contractor* is to provide such additional services as directed at no extra cost.

SGC 14 Construction Access and Traffic Maintenance

The designated access to and from the construction site must be approved by the *Owner*. All construction traffic must use the designated access including heavy equipment, trucks and workers' personal vehicles.

Construction access to the *Place of the Work* areas within existing building for workers and delivery of materials shall be designated by the *Owner*. No other existing exits or entrances shall be used by workers for access or for delivery of materials.

The *Contractor* shall conduct construction operations with minimum interference to adjacent roadways, sidewalks and access facilities in general and shall keep such areas free from materials, debris and equipment at all times. The *Contractor* shall not close or obstruct existing roadways, sidewalks, parking areas or delivery points and shall not place or store materials or park cars on same.

The *Contractor* shall cooperate in all ways with the *Owner* in all matters concerning necessary interference with normal operation of the *Place of the Work*. Minimizing disruption of normal facility/site operation and vehicular movements at the *Place the of Work* is an essential requirement of the Contract.

The *Contractor* shall:

- (a) Include project phasing strategies in the Construction Schedule to minimize traffic disruption on the *Place the of Work*.
- (b) Should provide one (1) week minimum notice to the *Owner*, previous to any disruption or alteration of access to the *Place of the Work*. The *Contractor* shall provide all signs, pylons and flag persons necessary to direct vehicular traffic around work in progress.

- (c) The *Contractor* shall maintain access to existing fire hydrants and Siamese connections and shall keep entrances and exits to existing and adjacent buildings clear at all times.

SGC 15 Proposed Substitutions

Acceptance of material specifications that are an equal or higher level of quality compared to the material specified will not be unreasonably withheld.
Quotations for equipment substitutions to be made as separate line items and as additive or deductive alternates to the base equipment bid.

Evaluation of the substitutions to be made solely by the *Owner* whose decision shall be final.

SGC 16 Manuals

Installation and Operator's manuals must accompany equipment delivered. Electrical, Mechanical, and Plumbing booklets shall be provided to the *Owner*, as per the Specifications.

All manual(s) must be furnished prior to payment and delivered to the *Owner*. Failure to deliver all manual(s) that are ordered may result in non-payment until all manual(s) are received.

SGC 17 Hours of Work

Refer to the City of Surrey applicable bylaws for acceptable work hours.

No work is to be performed outside of these acceptable work hours without written approval from the *Owner*, and with approval by obtaining a noise variance if required.

All work shall conform to local bylaws, including building and parking bylaws and municipal guidelines and regulations. This includes Building Bylaws and Noise Restrictions, which will apply to all work being completed. Where work or the work schedule does not permit compliance with the Bylaws, the *Contractor* shall request permission from the *Owner* for special exemptions from the bylaws. No extra compensation, in any form (e.g. overtime, etc.) will be given without prior written approval from the *Owner*.

SGC 18 Damage

The *Contractor* will be responsible for any and all damages to property or persons and for any losses or costs to repair or remedy the Works as a result of any negligent act or omission, or misconduct in the performance of the Works and its *subcontractor's* Work and shall indemnify and hold harmless the *Owner*, its officers, agents and employees from all suits, claims, actions or damages of any nature whatsoever resulting therefrom unless such loss, damage, injury or loss results from or arises out of the error, omission and/or negligent acts of the *Owner*, or its officers, for subsequent correction of any such error, omission and/or negligent acts or of its liability for loss or damage resulting therefrom. Except as to professional liability, these indemnities shall not be limited by the listing of any insurance coverage.

SGC 19 Worksite Conduct

All labourers and workers, while working in and around the *Place of the Work* and the *Owner* facilities, shall act in a professional manner. The *Contractor* is to enforce proper discipline and decorum among all labourers and workers on the worksite and is to control, among other things: 1) noise, including music; 2) the use of offensive language; 3) smoking or drinking of alcoholic beverages on the worksite; 4) physical violence; 5) riding in the passenger elevators; 6) thievery; and 7) the transportation of articles or materials deemed hazardous. If the *Owner* determines, in its sole discretion, that any labourer need to be removed due to his or her failure to comply with the terms of this provision, the *Contractor* will remove such labourers from the worksite immediately.

Alcohol and drugs are not tolerated on this site at any time including anyone deemed to be under the influence shall be escorted off site.

SGC 20 Cleanliness and Disposal of Unwanted Materials

Continuous daily clean-up of the work areas shall be performed by the *Contractor* and trade *Contractor* throughout the performance of the Work and will be undertaken in accordance with the *Contractor's* waste management plan. Clean-up of waste products and debris generated by the *Contractor* and any trade *Contractor* outside of the building and on the site shall be the responsibility of the *Contractor*. Should the *Owner* be required to clean up the work of the *Contractor* or trade *Contractor* the cost of such clean-up will be recovered from the *Contractor*.

The *Contractor* shall dispose of all debris, trash and unsuitable materials collected under this Contract off site. The *Contractor* is solely responsible for any and all damages done or regulations violated in the disposal of waste materials and for any other actions, which the *Contractor* performs.

The *Contractor* warrants that it will produce or discharge in any manner or form, directly or indirectly, chemicals or toxic substances into the environment and that all equipment used will not pose a hazard to, or harm or adversely affect anyone coming into contact with it and covenants and agrees to provide the *Owner* with an environmental plan (where applicable), acceptance to the *Owner*, which plan shall outline the procedures to be followed by the *Contractor* to prevent the production or discharge of chemicals or toxic substances into the environment and the actions to be taken should the discharge occur.

The *Contractor* shall be responsible to take all necessary measures to comply with the requirements of the Federal and Provincial environmental protection agencies, *Owner* by-laws, the *Waste Management Act*, R.S.B.C. 1996, c. 482, as amended and any other applicable acts and regulations in respect to air, earth and water pollutants.

SGC 21 Accidents; Equipment Safety

Any and all accidents, regardless of how minor, involving another person, private property, or vehicle, shall be reported immediately to the Surrey R.C.M.P. and a report requested. The *Owner* shall also be contacted immediately and be provided a copy of any reports.

The *Contractor* shall assume all responsibility for damages to property or injuries to persons, including accidental death, attorneys fee and costs of defense which may be caused by

Contractor's performance of this Contract, whether such performance be by itself, its *subcontractor*, or anyone directly or indirectly employed by *Contractor* or its *subcontractors* and whether such damage shall accrue or be discovered before or after termination of this Contract.

The *Contractor's* equipment operators shall maintain good safety and driving records, and use extreme caution during the performance of the Work.

SGC 22 Permits and Fees

The *Contractor* is to secure and pay for any additional permits, and governmental fees, licenses and inspection necessary for proper execution and completion of the Work which is customarily secured after execution of an agreement and which is legally required. The *Contractor* is to comply with and give notices required by laws applicable to performance of the Work.

SGC 23 Final Completion and Payment

When the Work is finally complete and the *Contractor* is ready for a final inspection, the *Contractor* is to notify the *Owner*, in writing. Thereupon, the *Owner* will perform a final inspection of the Work. If the *Owner* confirms that the project is complete including all deficiencies, is in full accordance with this *Contract* and the *Contractor* has performed all of its obligations, is hereby entitled to submit for final payment, subject to the *Builders Lien Act*.

SGC 24 Workmanship

- (a) General: Workmanship shall be of best quality, executed by workers experienced and skilled in respective duties for which they are employed. Do not employ any unfit person or anyone unskilled in their respective duties. The *Owner* reserves the right to dismiss for site, workers deemed incompetent, careless, insubordinate or otherwise objectionable. Decisions as to quality of fitness of workmanship in cases of dispute rest solely with the *Owner*, whose decision shall be final.
- (b) Coordination: Ensure cooperation of workers in laying out work. Maintain efficient and continuous supervision.
- (c) Protection of Work in progress: The *Contractor* is to adequately protect Work completed or in progress. Work damaged or defaced due to failure in providing such protection is to be removed and replaced, or repaired, as directed by the *Owner* at no cost to the *Owner*.

Should any dispute arise regarding the quality of the workmanship, materials or products used in the performance of the Work, the final decision regarding the acceptable quality of the workmanship, and fitness of the materials and products rests strictly with the *Owner*.

Additionally, all Works required hereunder will be performed as promptly as possible, and in any event within the time stated by the *Owner*, and such Work will be subject to approval and acceptance of the *Owner*, but such approval and acceptance will not relieve the *Contractor* from the obligation to correct any incomplete, inaccurate or defective work, all of which shall be promptly remedied by the *Contractor* on demand, without cost to the *Owner*.

SGC 25 Vehicles/Equipment

The *Contractor* should have a sufficient number of service vehicles together with sufficient operating personnel to perform the Work. If, in the opinion of the *Owner*, whose opinion shall be final and binding, the numbers of service vehicles that the *Contractor* has in service are inadequate to meet the Work response times stated herein, the *Contractor* may be given thirty (30) calendar days of notice, after which time the *Contractor* must provide additional vehicles to perform the Work, as directed by the *Owner*.

Off-road (e.g. ATV's) type of equipment may be utilized within the parks provided that they conform to Worksafe BC standards. The units should be sealed to prevent loss of waste materials while collecting & transporting garbage.

All vehicles/equipment will be kept clean, in good mechanical condition, painted to present a neat appearance, show evidence of annual safety inspections and display proper registration and license.

All *Contractor's* vehicles/equipment should be equipped with approved back-up alarms, multiple lite revolving/strobe lights, or other necessary warning systems, which should be maintained and in proper operating condition at all times. In the event of a breakdown, the *Contractor* should arrange for reserve equipment, with always the intent to maintain the schedule frequency.

Vehicles/Equipment used in the performance of the Work is to be identified on both sides with the company name and telephone number. This should be fully legible and displayed in a professional manner. The *Contractor* may also be required to display magnetic signs as supplied by the *Owner*, identifying the *Contractor* as a 'City *Contractor*'. This will not replace the company identification.

SGC 26 Pandemic Restrictions

The parties acknowledge that this Agreement has been entered into during the on-going COVID-19 pandemic (the "**Pandemic**"). The *Contractor* advises that it is able to proceed with providing the Goods and performance of the Services under the Pandemic conditions and restrictions (collectively the "**Pandemic Restrictions**") as they exist as of the date of this Agreement. The parties acknowledge that Pandemic Conditions may change so as to cause unavoidable interruptions or interference to the *Contractor's* performance of the Goods and Services. The parties confirm:

- (a) notwithstanding the known existence of the Pandemic, Section 2.6 will apply to new Pandemic Restrictions, which arise after the date of this Agreement, whether anticipated or not, which reasonably interfere with the *Contractor's* performance of the Services, such that upon the *Contractor* giving required notice shall be entitled to an extension of the time to provide the Goods and perform the Services, but shall not be entitled to reimbursement of any costs;
- (b) notwithstanding any such new Pandemic Restrictions, the Agreement will remain valid and in force, subject to the terms of the Agreement including, without limitation Section 25 (Workers' Compensation Board and Occupational Health and Safety); and

- (c) if new Pandemic Restrictions occur that cause or threaten interruption of the Goods and Services the Contractor will give the City immediate notice, and a written plan of the interim steps the *Contractor* will take, if any, during the interruption of the Goods and Services, and when Pandemic Restrictions permit, provide the City with a written plan for the resumption of the Goods and Services.

SGC 27 Compliance with COVID 19 Policy

It is a material term of this Agreement that the Contractor and any personnel and subcontractors providing the Goods and performing the Services who (a) will enter City facilities or (b) will be in close physical proximity to City staff outdoors, comply with the City's COVID 19 policy(ies) and requirements, including with respect to Contractor's personnel will be fully vaccinated against COVID-19 and require their personnel to provide proof of vaccination status in a form acceptable to the City prior to beginning work each day on-site. The Contractor will immediately remove any personnel or subcontractors who do not meet, maintain or comply with any such polices and requirements.

The personal information collected will be held in confidence by the City and will be used only to monitor compliance with, and to administer, the City's vaccination policies. The City will collect this personal information under s. 26(c) of the *Freedom of Information and Protection of Privacy Act*.

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SCHEDULE B – APPENDIX 2 SUPPLEMENTARY SPECIFICATIONS (PROJECT)

These Supplementary Specifications (Project) should be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Surrey Supplementary Specifications and Detailed Drawings.

SUPPLEMENTARY SPECIFICATIONS – (PROJECT)

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SUPPLEMENTARY SPECIFICATIONS (PROJECT)

The *Contractor* is required but is not limited to, as part of his obligation under the Quotation, to perform the various services and activities described in the General Conditions and the Supplementary Specifications (Project) SSP 1 to SSP 19 hereunder.

SSP 1 General

This section outlines all special provisions (SSP's) related to the video inspection of Storm Sewer mains, Flood Boxes and manholes. Only those items related to the Scope of Work outlined in SSP 2 will be applicable to this contract.

SSP 2 Scope of Work

As part of the scope of Services, the Contractor is to furnish and assume full responsibility for everything required for the orderly progress and proper execution and completion of the Services, whether temporary or permanent and whether or not incorporated into the Services including, but not limited to, materials, equipment, labour, transportation, construction equipment and machinery, tools, appliances, temporary facilities and utilities, and all other facilities and incidentals.

The Services in this agreement involves:

- The zoom camera inspection of approximately 505,894 lineal meters of Storm Sewer Mainlines ranging from 150 to 3300 mm in diameter.
- The zoom camera inspection of 296 Flood Boxes on Surrey's river dykes.
- The video or 3D panorama inspection of approximately 7618 manholes, at various locations within the City as shown on the drawings in Appendix 3.

The study area will include zoom camera video inspection of storm sewer mainlines and manhole inspections.

This quotation consists of 3 terms. The first term shall commence on **May 1, 2022** and be completed by **October 31, 2022**. Terms 2 and 3 shall commence **May 1st** and be completed no later than **October 31st** of the following year. The work per Term is listed below:

TERM 1 – Grenville, Bolivar, Bridgeview and North Tributaries drainage catchments

TERM 2 – Quibble Creek, Manson and 137A Street drainage catchments

TERM 3 – Port Kells, Upper Serpentine, Bon Accord, South Tributaries, Lower Bear and Middle Serpentine drainage catchments

Please reference the contract drawings for the location of each of the Catchment areas.

SSP 3 Description of Work

The Services carried out may be described generally as the video inspection of storm sewer mains, flood boxes and video inspections of manholes, complete with digital still photos and interpretive reports. The National Association of Sewer Service

Companies (NASSCO) coding standard for sewer CCTV inspections does not apply to this Contract.

The Work includes:

- Zoom camera inspection and deficiency reporting for Storm Sewer Mainlines in *Place of the Work* as described in SGC 1.
- Zoom camera inspection and deficiency reporting for Flood Boxes in *Place of the Work* as described in SGC 1.
- Manhole Inspection and Reporting.
- Provision for traffic control and traffic diversion in accordance with the General Conditions.

The *Owner* requires inspection reports, databases, videos, and photographs to be submitted in a USB storage device or external hard drive to the Project Manager; DVD's and paper reports are no longer accepted.

SSP 4 Limits of Site

The *Site* is limited to City right-of-ways and the private property covered by property impact statements, or consented to by owners.

SSP 5 Completion Date

The Contractor will provide the goods and services for the period commencing on **May 1, 2022** and terminating on **October 31, 2022.**

SSP 6 Access

Overview maps are included in the Contract to assist Contractors with reviewing access to the different manholes on the highlighted storm sewer sections. City crews will locate as many manholes as possible.

It is the responsibility of the Contractor to ensure vehicles are not parked over the manholes and other storm sewer appurtenances. The Contractor shall schedule work by posting no parking signs along the street on the day before the scheduled operation. Traffic signs are available from the Engineering Operations Yard, 6651 148th Street, Surrey, BC, for collection and must be returned before final payment can be made. Any loss or damage to the sign shall be borne by the Contractor.

The Contractor shall notify residents prior to accessing easements and rights-of-way adjacent to private property. Permission to access private property shall be obtained from the resident(s) prior to accessing the property. When required, work shall be rescheduled so as not to disturb residents.

The Contractor shall immediately notify the Contract Administrator of any storm sewer sections that cannot be video inspected due to un-located manholes or property access problems.

The Contractor shall notify the City Representative of any debris cages (grillage) that needs to be removed for access to the storm sewer. The Contractor shall give 48 hour notice, and City crews will remove the grillage prior to the video inspection. Upon completion of the inspection of the affected pipe segment, the Contractor shall notify the City that the inspection is complete and the City crews will re-install the grillage.

SSP 7 Traffic Control

Work shall not be performed on arterial and collector roadways between 6:00 a.m. and 9:00 a.m. and/or between 3:00 p.m. and 7:00 p.m., unless otherwise approved by the Project Manager. In some cases, night work may be required and the above time periods may not apply.

SSP 8 Supply of Water

The Contractor may obtain water from the City as detailed below (with 48 hours' notice) by contacting the City's Representative. Supply of Water must be coordinated through the Water Operations section, as permits may be required for water use.

- a) Designated Fill Stations or standpipes
- b) Fire hydrants

SSP 9 Requirements of Work & Personnel

The following units of work defined pertain to storm sewer inspection and rehabilitation. Only those applicable to this contract will be considered.

SSP 9.1 Work Defined

SEWER LINE CLEANING shall be performed with hydraulically propelled, high-velocity jet, or mechanically powered equipment. Selection of equipment shall be based on field conditions such as access to manholes, quantity of debris, size of sewer, depth of flow, etc.

LATERAL SEWER SEALING shall be accomplished using special techniques and equipment working from the main sewer or an access point.

LATERAL SEWER LINING shall be accomplished from a clean out, from a manhole, or remotely from the mainline.

SEWER PIPE AND LINING INSERTION shall be performed in mainline sewers. Processes include Cured-in-Place Pipe (CIPP), Fold and Form (Deformed/Reformed), Slipline Pipe, Pipe Sections Insertion, Spiral Wound Liner, and Pipe Bursting.

SEWER MANHOLE SEALING shall be accomplished by structure sealing with chemical grout, cementitious materials, resin-soaked oakum, and manufactured seals; by frame sealing with applied materials or manufactured seals; and by cover sealing.

SEWER MANHOLE REHABILITATION shall be accomplished by application of sealing, plugging, patching, coating, and lining processes and materials that will seal, protect or structurally rehabilitate the manhole. Methods include lining and structural

enhancement of the manhole using cast-in-place concrete, spray applied cementitious material, cured-in-place thermoset pipe, profiled PVC (grouted) liners, and prefabricated fiberglass (grouted). Work may include repair of manhole chimney and corbel; by step removal or replacement; and by frame & cover reinstallation or replacement.

SEWER FLOW CONTROL shall be performed as required to comply with these specifications.

TELEVISION INSPECTION shall be required to reveal and document sewer line conditions and/or performed in advance of or in conjunction with pipe testing/sealing, pipe repair, and pipe lining activities.

NOTICE OF CLIENT/OWNER REQUIREMENTS shall be relevant to and within the scope of work to be performed under the contract.

MUNICIPAL AND OTHER LICENSES AND PERMITS and assistance in obtaining approvals or consent from utilities or carriers such as the telephone company or other persons or organizations upon whose property or authority performance of work under the contract might impinge; or a written release from responsibility for the performance of work under the contract if and to the extent such work is precluded by the inability to obtain approvals or consent.

CLEARANCE OF BLOCKAGES OR OBSTRUCTIONS in the storm sewer system, if any, if such clearance is required for performance of work under the contract and if such clearance is not otherwise provided for within the contract.

LOCATION AND EXPOSURE OF ALL MANHOLES, unless otherwise provided for in the Technical Specifications of the contract. The city will locate and designate all manhole access points open and accessible for the work, and provide rights of access to these points.

A MANHOLE-NUMBERING SYSTEM referenced to a map for all areas of the project and accurate manhole invert elevations when required for performance of the work will be supplied by the city.

THE SHUTDOWN OR MANUAL OPERATION OF PUMP STATIONS if such becomes necessary for performance of the work shall be by the City.

NOTICE TO THIRD PARTIES (such as public utilities and the telephone company) of the Contractor's intent to perform work in an area where such parties may have rights to underground property or facilities, and request for maps or other descriptive information as to the nature and location of such underground facilities or property and assurance of the Contractor's ability to enter upon any public or private lands to which access is required for performance of the work under the contract.

INFORMATION PERTINENT TO THE SITE of the project including reports prepared under previously accomplished studies or surveys and other data relative to the project, including, maps, drawings, construction specifications, sewer system records, etc.

SSP 9.2 Risk, Health & Safety

Refer to the attached Risk, Health and Safety Responsibility of Contractor requirements (Attachment 2) that outline the responsibility for all contractors working for the City of Surrey.

SSP 9.3 Occupational Health and Safety

The Contractor and its employees and the Contractor's sub-contractors and their employees shall conform to all health and safety laws, by-laws, or regulations of the Province of British Columbia including any regulations requiring installation or adoption of safety devices or appliances. The City of Surrey may, on twenty-four (24) hours written notice to the Contractor, suspend the work hereunder as a result of failure to install such devices or because the conditions of immediate danger exist that would be likely to result in injury to any person. Such suspension will continue until the default or failure is corrected.

Without limiting the generality of any other indemnities granted by the Contractor herein, the Contractor shall indemnify and save harmless the City of Surrey against any loss or expense or penalty suffered or incurred by the City of Surrey by reason of failure of the Contractor, its agents or employees, or any sub-contractors of the Contractor, its agents or employees to comply or ensure compliance with the health and safety laws, by-laws and regulations mentioned above.

Further, the Contractor warrants that it will not produce or discharge in any manner or form, directly or indirectly, chemicals or toxic substances and that all vehicles and equipment used will not pose a hazard to, or harm or adversely affect anyone coming into contact with them and covenants and agrees to provide the City of Surrey with an environmental plan (where applicable), acceptable to the City of Surrey, which plan shall outline the procedures to be followed by the Contractor to prevent the production or discharge of chemicals or toxic substances into the environment.

(a) The Contractor shall provide all his work in such a manner that it ensures safety, of the public and in accordance with the safety regulations of the Worksafe BC.

(b) It is required that the Contractor understands and undertakes to comply with all the W.C.B. Industrial Health and Safety Regulations for hazardous materials and substances namely, the new "Workplace Hazardous Materials Information Systems (WHMIS)" Regulations.

If you are unfamiliar with the Industrial Health and Safety Regulations covering hazardous materials and substances, in particular the WHMIS regulations, or if you are uncertain as to how they relate to the work you are performing for the City of Surrey on its premises/work site, we suggest you call the W.C.B. Head Office in Richmond during normal business hours – (8:30 a.m. – 4:30 p.m., Monday to Friday).

WHMIS INFORMATION
RESEARCH AND STANDARDS DEPARTMENT
W.C.B. Occupational Safety and Health Division
6951 Westminster Highway
Richmond, B.C., V7C 1C6

SSP 10 Safety Procedures and Health Regulations

SSP 10.1 General

In addition to the City of Surrey's General Safety requirements described in SSP 10, the following details additional safety procedures and requirements associated with the special nature of this project.

The Contractor shall at all times employ safety procedures required by Worksafe BC, BC Electrical Safety Regulation and the City of Surrey's Confined Space Entry Safety Procedure.

The Contractor shall be solely and completely responsible for the conditions of the work site including safety of all persons and property during performance of the work. The Contractor shall maintain the work site and perform the work in a manner, which meets the "Industrial Health and Safety Regulations" especially those pertaining to Confined Space Entry, the "Industrial First Aid Regulations" of Worksafe BC, and the City of Surrey's Confined Space Entry Procedure in Attachment 4. These requirements shall apply continuously and not be limited to normal working hours. The Contractor shall provide his own lighting, ventilation equipment, breathing apparatus, harnesses, man lift device and lifelines, free standing tripod point, gas detector, as well as any other safety equipment required to carry out the work in accordance with the above procedures.

SSP 10.2 Safety Training

The Contractor will be responsible for ensuring that all workers have completed training, prior to the start of work, in all applicable disciplines in accordance with WorkSafeBC requirements. All training costs and the equipment required to undertake this training are the sole responsibility of the Contractor. The City will have the right to request proof of training and any specific information regarding the content of that training.

Training will be required in, but not limited to, the following areas for this project:

- Confined Space Rescue
- Confined Space Entry
- Ventilation
- Atmospheric Monitoring
- Self-Contained Breathing Apparatus
- Personal Protective Equipment

The Contractor must be able to demonstrate to the City that their workers have an understanding, working knowledge of confined space entry practices, and a working knowledge of all equipment required to carry out the work.

In the event that work involving untrained individuals is being undertaken, the City will have the right to stop the work until properly trained individuals are assigned. Any costs incurred as a result will be borne by the Contractor.

SSP 10.3 Documentation to be Available on Site

The Contractor shall keep on-site, during the duration of the project, the following documentation:

- i) Contractor's confined space entry program, including, but not limited to: confined space entry procedures, lockout procedures, emergency response procedure, etc.
- ii) Written confirmation of confined space training received by employees.
- iii) Documentation verifying that equipment being used meets applicable WorkSafeBC requirements.

SSP 10.4 Site Inspections and Audit

The Contractor shall allow the City the right of inspection and audit of site safety conditions and all pertinent health and safety performance records to measure adherence to safety and health objectives. Such inspection and/or audit may take place without prior warning or notice of intent.

SSP 11 Unit Price

The following items relate to payment for all items related to sewer rehabilitation, **ONLY** those applicable to the work of this contract shall apply. All measurements shall be as specified or made by conventional means with accuracies consistent with field conditions and common practice. Should a discrepancy in measurement exist which is greater than 10%, the item in question shall be re-measured by both the Contractor and the Owner's Representative for verification.

Measurements for payments shall be based on the following schedule:

General Conditions MMCD 2009 Section 9.4 is replaced by:

"The respective amounts of work and service to be done and carried out and materials to be furnished in the Schedule of Quantity and Prices are an estimate for purpose of comparing tenders only. The City does not expressly nor by implication agree that the actual amounts of work or material of any class will correspond even approximately to this estimate, but reserves the right to increase or decrease the amounts of any class or portion of the Work, or to omit portions of the Work that may be deemed necessary or expedient by the City. The Contractor shall make no claim for anticipated profits, for loss of profit, for damages, or for any extra payment whatsoever, except as provided for herein, because of any difference between the amount of actual work done and material actually furnished and the quantities stated in Appendix 1.

SSP 12 Notification/Schedule of Work and Contract Meetings

The Contractor shall provide a weekly e-mail status report to the Contract Administrator and the City's Representative containing:

- The anticipated schedule of activities and locations for the upcoming workweek
- A brief summary of the work completed in the previous week (length of storm sewer inspected and number of manholes inspected)
- Any problems or unusual finding encountered the previous week
- Any other issues related to the work progress

E-mail contact information will be provided at the pre-construction meeting.

Failure of the Contractor to provide notification may result in the application of liquidated damages.

The hours of work will be from 7:00 a.m. to 7:00 p.m. or as approved by the City.

The Contract Administrator and the City's Representative shall be informed one week in advance of any stoppage or restart of work.

Operation for each of the items may be separate and may involve several mobilizations, setting ups and demobilization. Payment for these services and works is deemed to be included in the Unit Rates bid in the Schedule of Quantities & Prices.

Mandatory bi-weekly meetings (to be held at the discretion of the City's Representative) will be held between the Contract Administrator, the City's Representative and the Contractor to discuss the progress of work and any issues that have arisen.

SSP 13 Quality of Work Performance

The storm sewers in the designated line to be inspected do not require a pre-cleaning. The zoom camera inspection of the storm main shall be done without prior cleaning.

Manhole covers shall be reinstated in a firm non-movable position.

The performance demonstration by the Contractor and what is required by the City in addition to this performance demonstration shall be the minimum standard for the level of services to be provided in this Contract.

SSP 14 Zoom Camera Inspections

Delete MMCD Section 33 01 30.1 and replace with:

SSP 14.1 General

- 1) The Contractor shall use a zoom type camera capable of magnifying the image so that objects and defects that are 75m from the camera are visible and identifiable. The zoom camera must record in colour and capable of recording in the formats as identified in SSP 14.3 Recording Equipment.
- 2) The contractor shall perform the zoom video inspection of the Storm Sewer pipe segment prior to any cleaning.

- 3) The Contractor shall video inspect the Storm Sewer pipe segment in two directions. The video inspection shall be completed from the downstream and upstream manholes. Both directions of the inspection shall be submitted to the Owner.
- 4) If the inspection is abandoned due to manhole access constraints, collapse or other Issue, the Contractor shall immediately contact the Owner's Representative and inform them of the issue. Once informed, the Owner shall make a reasonable effort to resolve reported issues within 3 Days of the report. If the situation is unique and the *Contractor* claims that unique set-ups are required, and are requesting extra payments, the City's representative will review the request on a case by case basis.
- 5) Scheduling of all digital video inspections shall be closely coordinated with the City Representative to ensure that the inspections are conducted during low flow or dry day periods. The storm sewer being inspected shall have no more than 25% of the full pipe capacity. If the pipe is more than 25% full, the Contractor shall make another attempt at another time when the flow is below the 25% threshold. The Contractor shall proceed with the requested digital video inspection of a section within 48 hours of receiving notice from the City. The City reserves the right to cancel or alter scheduled inspections without notice. If determined by the City that the flow conditions would impair the quality of the inspection results (due to surcharged conditions) night time inspections may also be required subject to the approval of the City.
- 6) Weekly totals of storm sewer lengths digitally video recorded and hours spent within the previous week shall be submitted to the Contract Administrator and the City's Representative every Monday morning.

SSP 14.2 Process

A sample of inspection report(s) and a digital video file shall be submitted for review by the Consultant to the Storm water Operations Section and Contract Administrator accordingly. This submission must satisfy all of the specifications contained herein, and the submitted report submission will be used as a benchmark for subsequent inspection submissions. The sample must comply with the requirements as listed in SSP 14.5. A sample of the accepted format can be found in Schedule B, Appendix 5, Sample Zoom Cam Report.

No Video Inspection surveys are to be carried out until an acceptable sample inspection report has been approved by the consultant, or by the City's Representative.

The inspection camera operator must have received and carefully reviewed all of the Contract Documents, including the Instructions for Quote and Specifications and Standard Detail Drawings prior to Contract starting.

SSP 14.3 Recording Equipment

The Contractor shall use a zoom type camera with a minimum 30X optical zoom, and record in colour with a minimum resolution of 1280X720 pixels per inch, in

MP4 format. The camera must be equipped with adequate lighting as to sufficiently illuminate the Storm Sewer being inspected.

Digital still images shall be recorded in JPEG format.

Each digital image shall be stored with a unique filename to match the Facility ID of the Storm Sewer Pipe. When submitting a still image, the Contractor shall capture the image and alphanumeric data as a digital image in Joint Photographic Experts Group (JPEG) format (.jpg). Identify each image file by the Pipe Facility ID and alphanumeric suffix. E.g.: 1000001234-1.

SSP 14.4 Safety Equipment

The Contractor shall be fully equipped for traffic control and manhole (confined space) entry, and employ safety procedures required by Worksafe BC.

The Contractor will keep on-site, during the duration of the work, all documentation relating to:

- a) Confined Space Entry, including entry and emergency procedures;
- b) Written confirmation of confined space training received by employees; and
- c) Documentation verifying that equipment being used meets applicable Worksafe BC requirements.

SSP 14.5 Inspection Reports

1.) The video inspection reports shall have at minimum, the following requirements:

- Two images of the Storm Sewer pipe segment originating from the upstream and downstream manholes.
- The Facility ID of the Storm Sewer pipe segment.
- Date of inspection.
- Direction of inspection.
- A rating of 1-5 as described in Schedule B, Appendix 4 *Condition Criteria for Storm Mains & Manholes*.

2.) The Contractor shall rate the Storm Sewer Pipe with a rating of 1-5 based on the overall condition of the pipe. The rating will depend on the Contractor's judgement and experience. The rating must meet the criteria as outlined in Schedule B, Appendix 4 *Condition Criteria for Storm Mains and Manholes*. It is recommended that the Contractor uses PACP as a guideline to identify defects for the purpose of rating the condition of the storm sewer pipe.

3.) The Contractor shall submit a summary report of all deficient storm sewers on a bi-weekly basis. The report must include, at minimum the following requirements:

- Facility ID of the storm sewer pipe.
- Description of the defect.
- Location (Address).
- The given rating score.

4.) All field measurements shall be made using the SI unit system.

5.) The City will provide GIS files, maps and spreadsheets required for the inspections. An ESRI license will be provided by The City if required.

SSP 14.6 Measurements for Payments

Payment for the digital video inspection of the storm sewer mains shall be made under Appendix 1 and shall include all necessary recording and reporting as per SSP17.

SSP 15 Manhole Inspections

SSP 15.1 General

Manhole Inspections refers to that portion of the work that is unique to the requirements for non-person-entry inspection of existing sanitary and storm sewer manholes. The NASSCO Manhole Assessment Certification Program (MACP) inspections standards do not apply for this contract.

- A) The submission of the inspection shall be in a MP4 or a 3D panorama format.
- B) The submission must have the unique manhole Facility ID number associated to the respective inspection image or video.
- C) A formal MACP inspection report is not required.

SSP 15.2 Payment

Measurement for payment for Manhole Inspections will be for each completed inspection acceptably performed. Payment shall include mobilization / demobilization, traffic control, flow control, all supplies, equipment, materials, machinery and labor to complete work as per Contract Documents.

SSP 15.3 Working Regulations

Work is to conform to all applicable regulation of WorkSafe BC. The contractor shall provide written confirmation to the Contract Administrator that workers have knowledge of confined space entry practices and of equipment required to confined space entry. Work is to conform to all applicable bylaws and regulations.

SSP 15.4 Inspection Process

Report on and record the condition of all features of the inside of the manhole together with ground level conditions within a two (2) meter radius of the cover.

Each manhole is to be video inspected from surface level. The City of Surrey does not require a manned, confined space entry into the manholes to perform the video Inspections. The City is aware some information, such as measurements will not be completely accurate.

SSP 15.5 Digital Videos

Video inspect the interior of each manhole with an approved digital camera. All parts of the manhole must be visible during the inspection including: Barrel, benching, channel, ladder rungs, riser rings and donut. Digital videos must have a minimum resolution of 1280X720 pixels per inch.

Overlay on each video the manhole facility ID in alphanumeric form such that it will not interfere with the image being recorded. If an overlay of the Facility ID is not possible, the digital video file shall have the Facility ID of the Manhole included in the file name.

When submitting a still image, the Contractor shall capture the image and alphanumeric data as a digital image in Joint Photographic Experts Group (JPEG) format (.jpg). Identify each image file by manhole number and alphabetic suffix. E.g.: 1000001234-1.

SSP 15.6 Inspection Reports

Video inspection submissions are to consist of digital video files and a ranking of 1 – 5. A detailed MACP report is not required. The Contractor is free to submit MACP reports, but is not required to. Extra payments will not be made for the submission of MACP reports. Submissions are to be made weekly on a continuous basis as the manhole inspection proceeds.

It is recommended that the Contractor uses MACP as a guideline to identify defects for the purpose of rating the condition of the Manhole.

Digital data output files are to be presented on USB flash drives or external hard drive.

The Manhole inspection reports shall have at minimum, the following requirements:

1. A video file in the accepted formats, as outlined in SSP 15.1 *Manhole Inspections, General* or in an interactive 3D panorama image.
2. The Contractor shall rate the Storm Sewer Manhole with a rating of 1-5 based on the overall condition of the Manhole. The rating will depend on the Contractor's judgement and experience. The rating must meet the criteria as outlined in Schedule B, Appendix 4 *Condition Criteria for Storm Mains and Manholes*.
- 6.) The Contractor shall submit a summary report of all deficient storm sewer manholes on a bi-weekly basis. The report must include, at minimum the following requirements:
 - Facility ID of the storm manhole.
 - Description of the defect.
 - Location (Address).

- The given rating score.

SSP 16 APPROXIMATE QUANTITIES

The City does not expressly nor by implication agrees that the actual amounts of work will correspond even approximately to the quantities proposed, but reserves the right to increase or decrease the amounts of any class or portion of the work, or to omit portions of the work that may be deemed necessary, or expedient by the City Representative. The Contractor shall make no claim for anticipated profits, for loss of profit, for damages, or for any extra payment whatsoever, except as provided for herein, because of any difference between the amounts of actual work and material actually stated. Payment will be made only for the actual measured quantities of work performed.

SSP 17 METHOD OF MEASUREMENT AND PAYMENT

The methods of measurement and payment as described in the individual sections of the MMCD will not apply to the work in this Contract. This section replaces any MMCD paragraph entitled Measurement and Payment.

- 1) All payment for work within this Contract is included in the lump sum(s) and unit prices listed in Appendix 1. No separate or extra payment will be made for the work described as part of the work in the contract documents.
- 2) The work includes all materials, labour, equipment, plant, cut and waste, specified testing, other incidentals, and miscellaneous materials necessary to complete the work in conformance with the Contract Drawings and Specifications.
- 3) The determination of the percentage of the work complete for the purposes of a progress payment will be made by the Contract Administrator and will be determined to an accuracy of plus or minus 5%

SSP 18 DEFINITIONS

In these Supplementary Specifications (Project), unless the context otherwise requires,

“Section” means section of the Specifications or the Conditions of Contract.

“Item” means item of the Schedule of Quantities and Prices.

ASTM STANDARD: There are basically two types of ASTM Standards, which apply to pipeline rehabilitation products: “D” standards, which are for testing procedures and material, compound classifications, and “F” standards which are basically product specific. Within the “F” standards there are two types of documents; material specifications and installation practices.

CHANGE ORDER: A written order to the Contractor authorizing an addition, deletion, or revision in the work within the general scope of work of the agreement, or authorizing an adjustment in the agreement price or agreement time.

CONTRACTOR: Any individual, firm, partnership, corporation, or combination of any or all jointly submitting a proposal to whom the Contract is awarded by the Owner or its executors, administrators, successors or assigns.

CONTRACT ADMINISTRATOR: means the person, firm or corporation appointed by the Owner and identified by the Owner in writing to the Contractor. The Contract Administrator may be the Owner's Engineer, other employee or officer, or may be and outside consultant.

CREW: The number of persons required for the performance of work at a site as determined by the Contractor in response to task difficulty and safety considerations at the time or location of the work.

DEBRIS: Soil, rocks, sand, grease, roots, etc., in a sewer line excluding items mechanically attached to the line such as intruding service connections, intruding pipe, joint, materials, and the like.

EASEMENT: A liberty, privilege, or advantage without profit, which the owner of one parcel of land may have in the land of another. In this agreement, all land, other than public streets, in which the Owner has sewer system lines or installations and right of access to such lines or installations.

ENGINEER: The City Engineer, Commissioner of Public Works, Superintendent of Public Works, or an Engineer of a municipality including such assistants as are authorized to represent him, or the consulting engineer acting through his authorized agents, who represents the Owner during the construction phase activities.

FLOW CONTROL: A method whereby normal sewer flows or a portion of normal sewer flows are blocked, retarded, or diverted (bypassed) within certain areas of the sewer collection system.

HYDRAULIC CLEANING: Techniques and methods used to clean sewer lines with water, e.g.: water pumped in the form of a high-velocity spray and water flowing by gravity or head pressure. Devices include high-velocity jet cleaners, cleaning balls, and hinged-disc cleaners.

INFILTRATION: The water entering a sewer system, including building sewers, from the ground, through such means as defective pipes, pipes joints, connections, or manhole walls. Infiltration does not include, and is distinguished from, inflow.

INFILTRATION/INFLOW: A combination of infiltration and inflow additional to wastewater volumes in sewer lines, with no way to distinguish either of the basic sources, and with the same effect of usurping the capacities of sewer systems and facilities.

INFLOW: The water discharged into a sewer system, including service connections, from such sources as roof leaders; cellar, yard, and area drains; foundation drains; cooling water discharges; drains from springs and swampy areas; manhole covers; cross connection from storm drain, combined sewers, catch basins; storm waters;

surface runoff, street wash waters; or drainage. Inflow does not include, and is distinguished from, Infiltration.

INSPECTOR: The Owner's on-site representative responsible for inspection and acceptance, approval, or rejection of work performed as set forth in these specifications.

INTERNAL PIPE INSPECTION: The television inspection of a sewer line section. A TV camera is moved through the line at a slow rate and a continuous picture is transmitted to an aboveground monitor.

INVERT: The floor, bottom or lowest point of a conduit.

JOINTS: The means of connection sectional lengths of sewer pipe into a continuous sewer line using various types of jointing materials. The number of joints depends on the lengths of the pipe sections used in the specific sewer construction work.

LINEAR METER: Being one meter. In these specifications used to denote the unit of measurement relating to the length of a sewer line.

MAJOR BLOCKAGE: A blockage (structural defect, collapse, protruding service connection, debris), which prohibits manhole-to-manhole cleaning, TV inspection or rehabilitation procedures.

MANHOLE SECTION: The length of sewer pipe connecting two manholes.

MILESTONE DATE: Means any date specified in the contract documents for completion of the work, or portion of the work, including the date of substantial performance.

OVERFLOW: (1) The excess water that flows over the ordinary limits of a sewer, manhole, or containment structure. (2) An outlet, pipe, or receptacle for the excess water.

OWNER: The City, sanitary district or other municipality, corporation, partnership or individual initiating the project, acting through its legally constituted officials, officers or employees.

SANITARY SEWER: A sewer intended to carry only sanitary or sanitary and industrial wastewaters from residences, commercial buildings, industrial parks, and institutions.

SEDIMENT OR SEDIMENT-LADEN WATER: Any sediment, rock, gravel, sand, soil, silt, clay, earth, construction or excavation wastes, or other substances whether or not suspended in water.

SEWER CLEANING: The utilization of mechanical or hydraulic equipment to dislodge, transport, and remove debris from sewer lines.

SANITARY SEWER PIPE: A length of conduit, manufactured from various materials and in various lengths, that when joined together can be used to transport

wastewaters from the points of origin to a treatment facility. Types of pipe: Acrylonitrile-butadiene-styrene (ABS); Asbestos-Cement (AC); Brick Pipe (BP); Concrete Pipe (CP); Cast Iron Pipe (CIP); Polyethylene (PE); Polyvinylchloride (PVC); Reinforced Concrete (RC); Reinforced Plastic Mortar (RPM); Steel Pipe (SP); Vitrified Clay (VC).

STORM SEWER PIPE: A length of conduit, manufactured from various materials and in various lengths, that when joined together can be used to transport rain water run-off from the points of origin to a natural water course such as; creeks, rivers, lakes, ocean, etc. Types of pipe: Acrylonitrile-butadiene-styrene (ABS); Asbestos-Cement (AC); Brick Pipe (BP); Concrete Pipe (CP); Cast Iron Pipe (CIP); Polyethylene (PE); Polyvinylchloride (PVC); Reinforced Concrete (RC); Reinforced Plastic Mortar (RPM); Corrugated Steel Pipe (CSP); Vitrified Clay (VC).

SITE: Any location where work has been or will be done.

SITE ACCESS: An adequately clear zone of a size sufficient to accommodate personnel and equipment required at the location where work is to be performed, including roadway or surface sufficiently unobstructed to permit conveyance of vehicles from the nearest paved roadway to the work location.

SUBCONTRACTOR: An individual, firm, or corporation having a direct contract with the Contractor or with a lower-tier Subcontractor for performance of part of the work.

SUBSTANTIAL PERFORMANCE: means the stage of completion when:

- 1) all work, as certified by the Contract Administrator, is capable of completion or correction at a cost of not more than"
 - (i) 3% of the first \$500,000 of the contract price;
 - (ii) 2% of the next \$500,000 of the contract price; and
 - (iii) 1% of the balance of the contract price
- 2) the work, or a substantial part of it, is ready for the use or is being used for the purpose intended.

SURCHARGE: When the sewer flow exceeds the hydraulic carrying capacity of the sewer line.

SWALE (DIP, SAG, BELLY): A significant deviation in pipe grade such as to cause entrapment of solids, semisolids, and liquids, thereby impeding the accuracy and/or effectiveness of flow measurements, cleaning, and internal inspection.

TSS: Means total suspended solids measured in milligrams per litre, determined as non-filterable residue (1.5 micron filter) weighed in dry condition.

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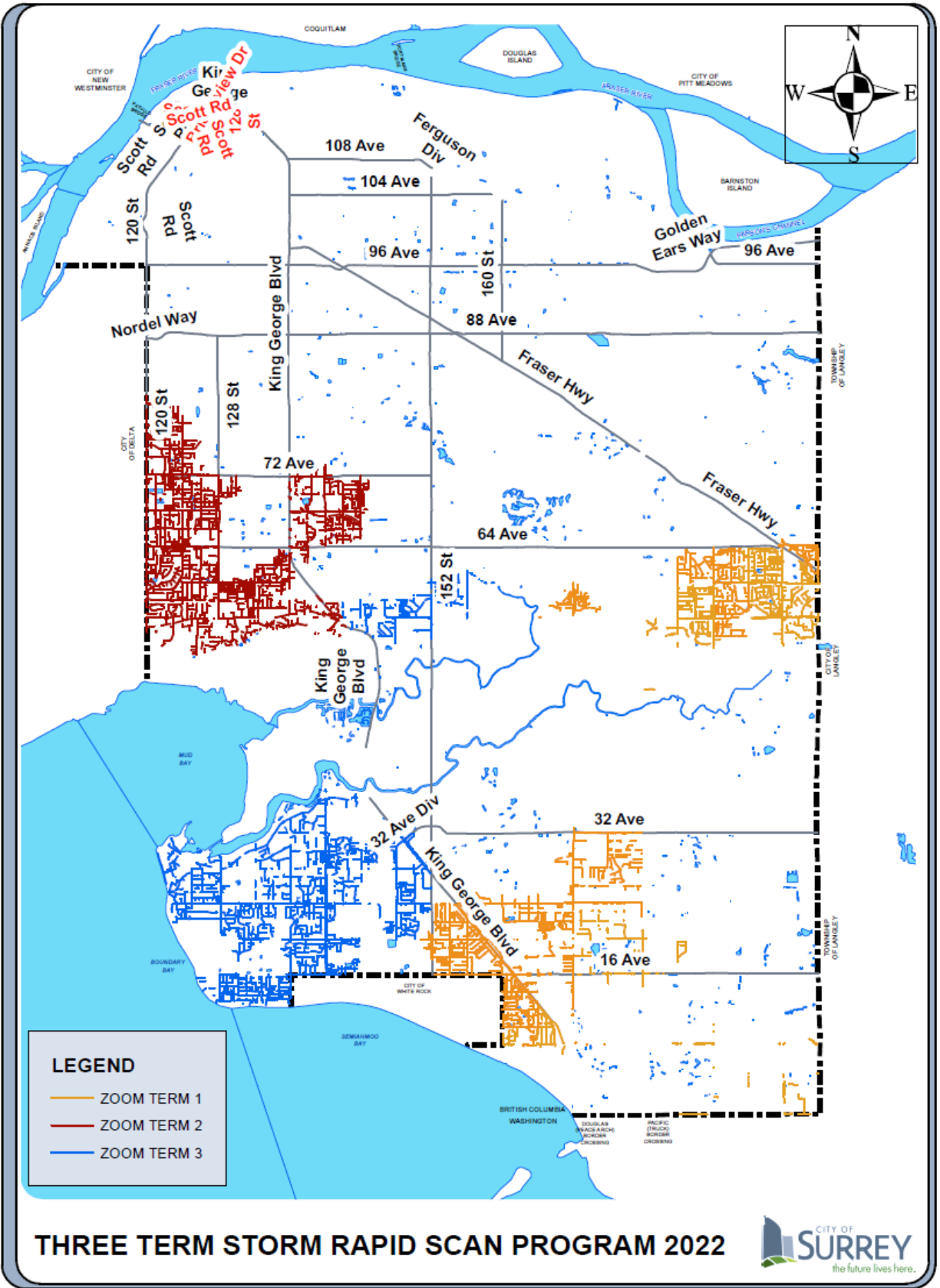
**SCHEDULE B – APPENDIX 3
CONTRACT DRAWINGS (PROJECT)**

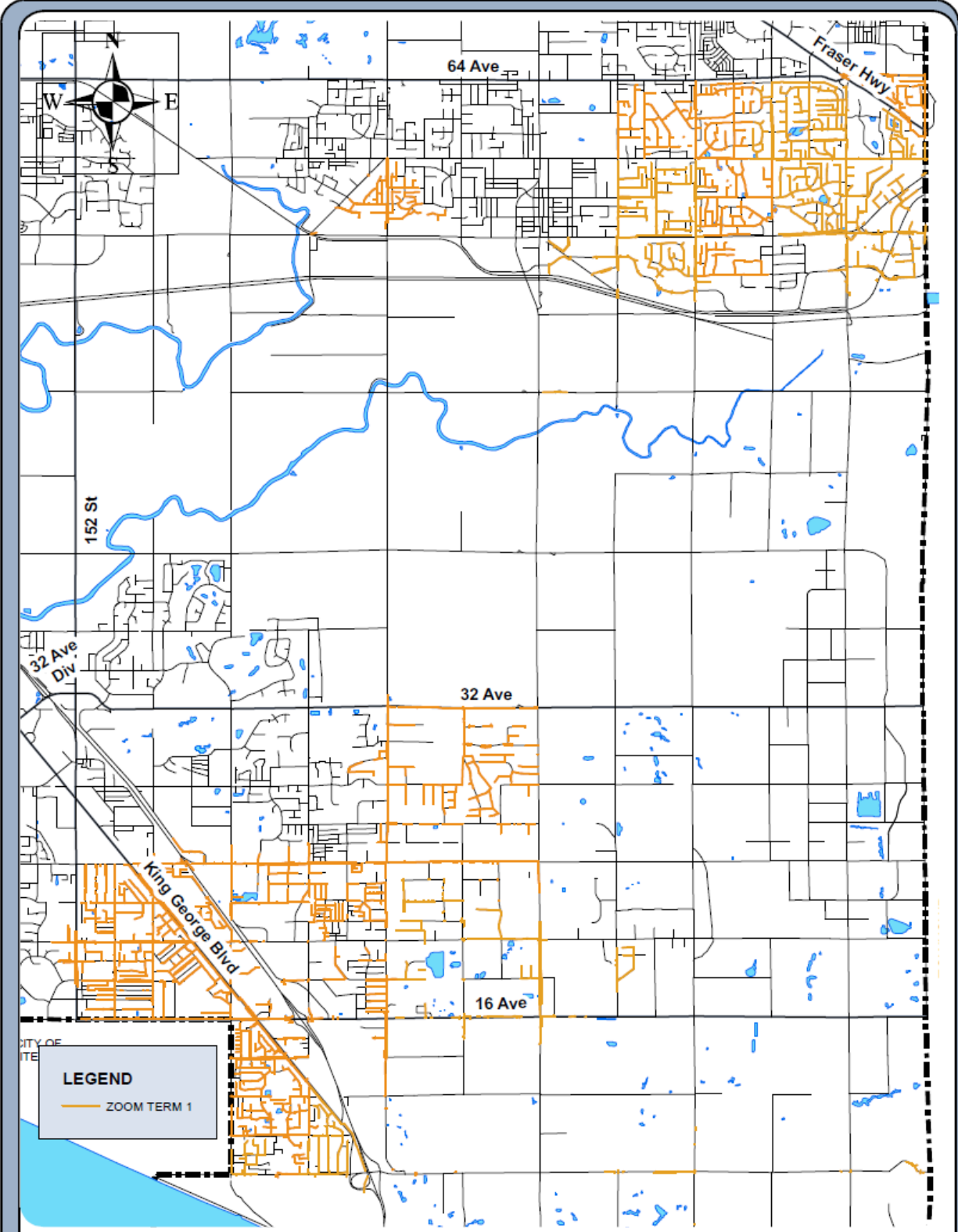
SCHEDULE B - APPENDIX 3

List of Contract Drawings (Project)

The following *Contract Drawings* (Project) are included in the RFQ documents:

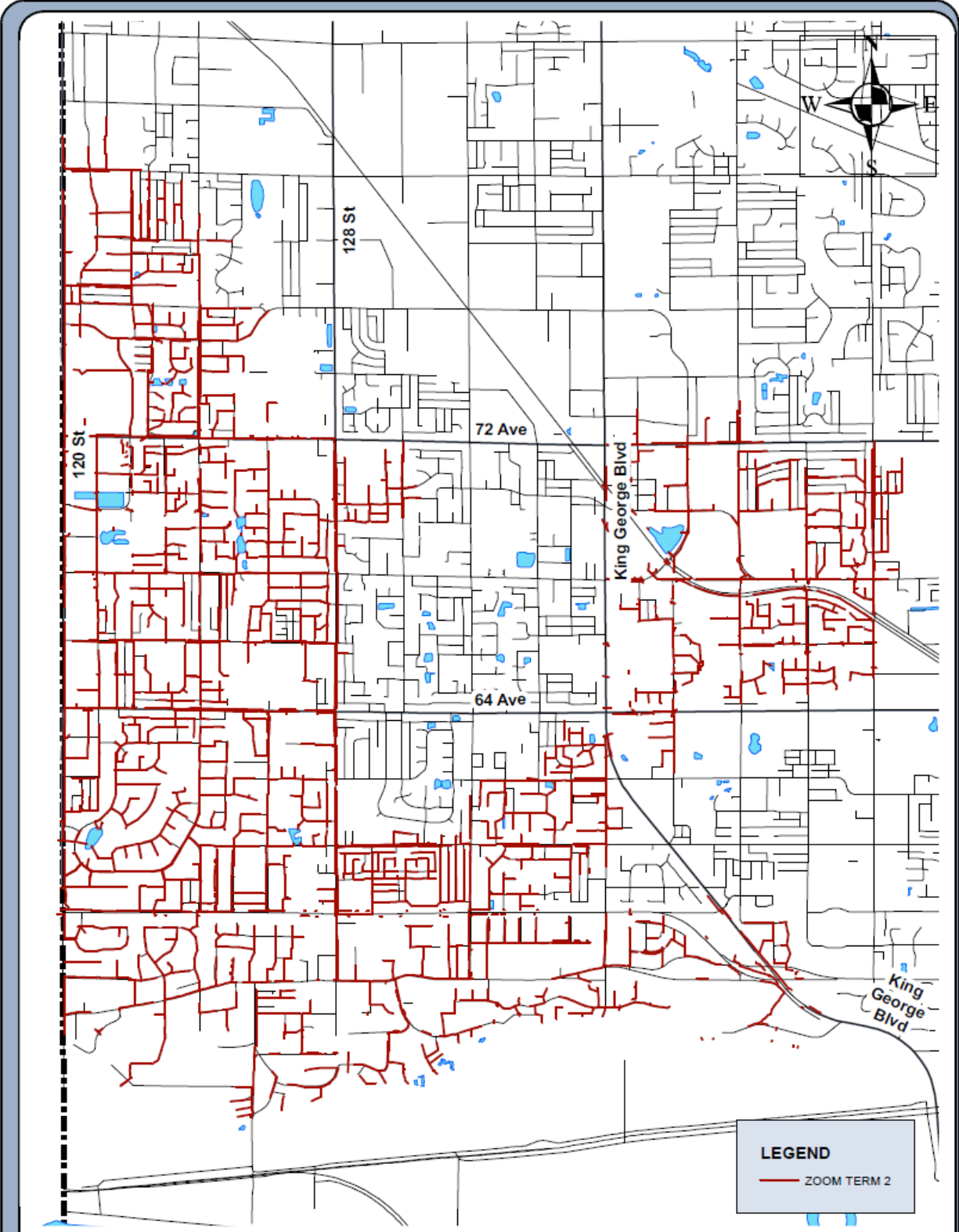
DRAWING NUMBER SPECIFICATION	
THREE TERM STORM	RAPID SCAN PROGRAM 2022
THREE TERM STORM	RAPID SCAN PROGRAM 2022 TERM 1
THREE TERM STORM	RAPID SCAN PROGRAM 2022 TERM 2
THREE TERM STORM	RAPID SCAN PROGRAM 2022 TERM 3





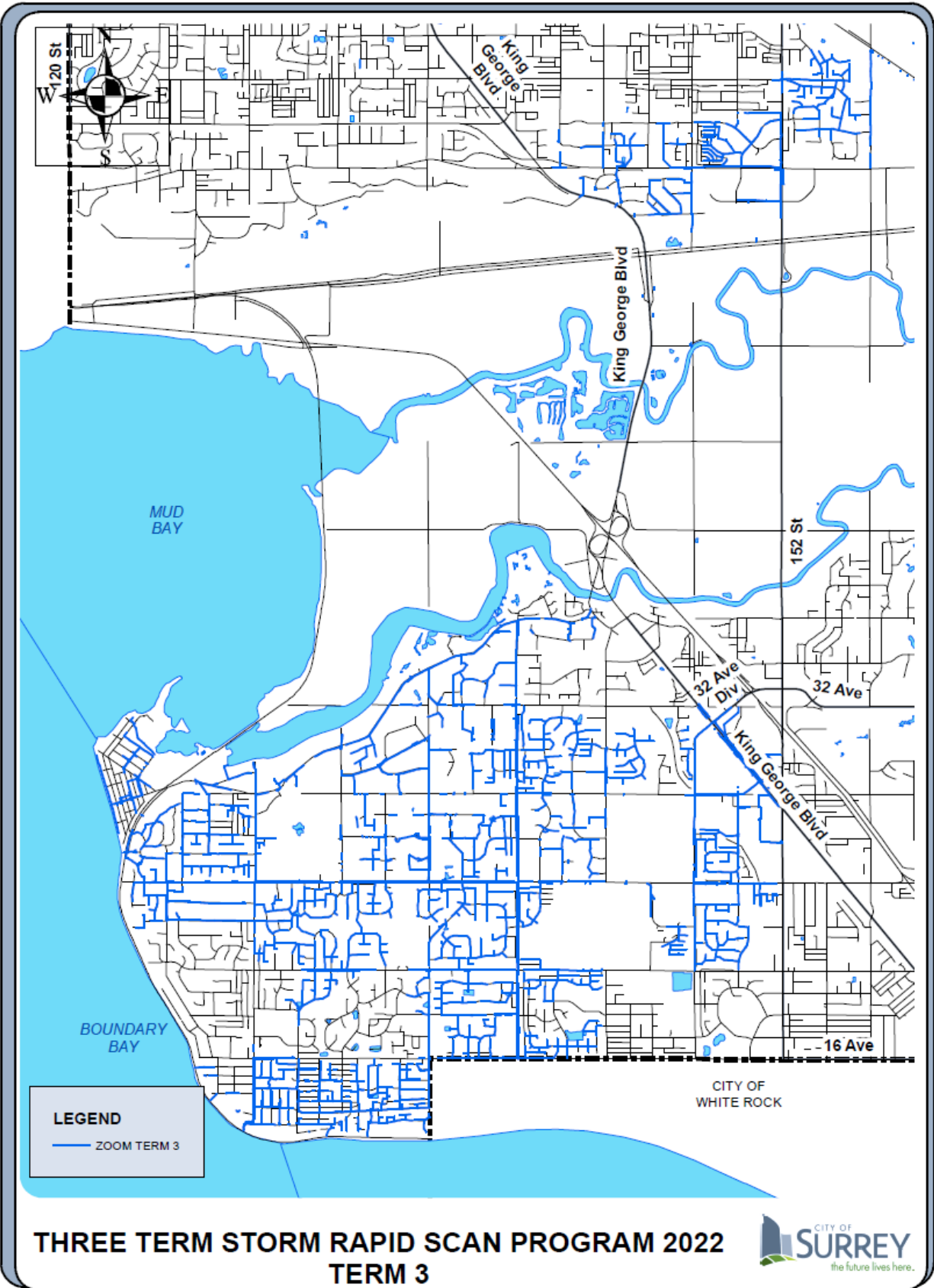
**THREE TERM STORM RAPID SCAN PROGRAM 2022
TERM 1**





THREE TERM STORM RAPID SCAN PROGRAM 2022
TERM 2







**SCHEDULE B – APPENDIX 4
CONDITION RATING CRITERIA FOR
STORM MAINS & MANHOLES**

Condition Score	Condition Rating	Physical Condition Description	Storm Main	Storm Manhole
1	Very Good	Typically new or recently rehabilitated asset. A few elements may show some signs of minor deterioration that would not require attention.	Modified PACP Structural & O&M Condition Grade 0-1	Modified MACP Structural Condition Grade 1
2	Good	Some elements show general signs of deterioration that may require attention. A few elements exhibit moderate deficiencies.	Modified PACP Structural & O&M Condition Grade 2	Modified MACP Structural Condition Grade 2
3	Fair	The asset shows general signs of deterioration and requires attention. Some elements exhibit significant deficiencies.	Modified PACP Structural & O&M Condition Grade 3	Modified MACP Structural Condition Grade 3
4	Poor	The asset is mostly below standard, with many elements approaching the end of its service life. A large portion of the asset exhibits significant deterioration.	Modified PACP Structural & O&M Condition Grade 4	Modified MACP Structural Condition Grade 4
5	Very Poor	The asset is in unacceptable condition with widespread signs of advanced deterioration. Many components exhibit signs of imminent future failure, which is affecting its service deliverance capability.	Modified PACP Structural & O&M Condition Grade 5	Modified MACP Structural Condition Grade 5



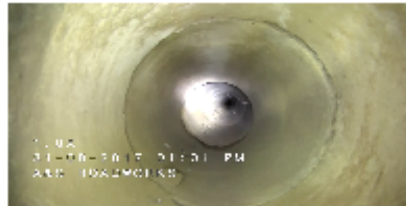
SCHEDULE B – APPENDIX 5 SAMPLE ZOOM CAM REPORTS

Pre-Maintenance
Inspection Report

Inspected by:
Inspection Date: October 11, 2017

PL 1

PipelineID 1: 1000754774
PipelineID 2:
Date: 31/08/17
Time: 10:23 AM
Pipe Length: 76
Condition Rating: 2



1000576275 - 1000576274

PL 2



1000576274 - 1000576275

Remarks: Pipeline bends will affect acoustic value. Zoom video provided

PipelineID 1: 1000754773
PipelineID 2:
Date: 31/08/17
Time: 10:34 AM
Pipe Length: 44
Condition Rating: 3



1000576274 - 1000576273



1000576273 - 1000576274

Remarks: DEPOSITS SETTLED 20% (273-274)

PipelineID 1: 1000754782
PipelineID 2:
Date: 31/08/17
Time: 10:45 AM
Pipe Length: 92
Condition Rating: 4



1000576273 - 1000576272



1000576272 - 1000576273

Remarks: DEPOSITS SETTLED 20%



SCHEDULE C – QUOTATION

RFQ Title: Storm Sewer Rapid Scan Inspection Program

CONTRACTOR

Legal Name: _____

Contact Person and Title: _____

Business Address: _____

Business Telephone: _____

Business Fax: _____

Business E-Mail Address: _____

TO:

CITY OF SURREY

Owner Representative: Sunny Kaila, Manager, Procurement Services

Email for PDF Files: purchasing@surrey.ca

1. I/We, the undersigned duly authorized representative of the *Contractor*, having received and carefully reviewed all of the proposed documents, including the RFQ and any issued addenda posted on the City Website and BC Bid Website, and have full knowledge of the *Place of the Work*, and having fully informed ourselves as to the intent, difficulties, facilities and local conditions attendant to performing the *Work*, do hereby tender and offer to enter into a *Contract*, to do all of the *Work*, and to furnish all necessary labour, machinery, provide tools, apparatus and other means of construction, and to provide, furnish, deliver, place and erect all materials mentioned and described or implied therein, except as otherwise specified, to complete the *Work* herein described, in strict accordance with the plans, *Specifications* and supplemented specifications and to accept in full payment therefore, the sums calculated in accordance with the actual measured quantities at the unit price set forth in the Quotation herein as follows:
2. If this Quotation is accepted by the *Owner*, a contract will be created as described in:
 - (a) the Agreement;
 - (b) the RFQ; and
 - (c) other terms, if any, that are agreed to by the parties in writing.
3. Capitalized terms used and not defined in this Quotation will have the meanings given to them in the Agreement and RFQ. Except as specifically modified by this Quotation, all

terms, conditions, representations, warranties and covenants as set out in the Agreement and RFQ will remain in full force and effect.

4. I/We have reviewed the sample Form of Agreement (Schedule B). If requested by the *Owner*, I/we would be prepared to enter into the sample Form of Agreement, amended by the following departures (list, if any):

Section	Requested Departure(s) / Alternative(s)
----------------	--

Please state reason:

5. The *Owner* requires that the successful *Contractor* have the following in place **before providing the Work**:

- (a) Workers' Compensation Board coverage in good standing and further, if an "Owner Operator" is involved, personal operator protection (P.O.P.) will be provided, Workers' Compensation Registration Number _____;
- (b) Prime Contractor qualified coordinator is Name: _____ and Contact Number: _____;
- (c) Insurance coverage for the amounts required in the proposed Agreement as a minimum, naming the *Owner* as additional insured and generally in compliance with the *Owner's* sample insurance certificate form available on the *Owner's* Website at www.surrey.ca. search [Standard Certificate of Insurance](#);
- (d) City of Surrey or Intermunicipal Business License: Number _____;
- (e) If the *Contractor's* goods and services are subject to GST, the *Contractor's* GST Number is _____; and
- (f) If the *Contractor* is a company, the company name indicated above is registered with the Registrar of Companies in the Province of British Columbia, Canada, Incorporation Number _____.

As of the date of this Quotation, we advise that we have the ability to meet all of the above requirements **except as follows** (list, if any):

Section	Requested Departure(s) / Alternative(s)
----------------	--

Please state reason:

6. The *Contractor* acknowledges that the departures it has requested in Sections 3 and 4 of this Quotation will not form part of the Contract unless and until the *Owner* agrees to them

in writing by initialing or otherwise specifically consenting in writing to be bound by any of them.

Changes and Additions to Specifications and Scope:

7. In addition to the warranties provided in the Contract, this Quotation includes the following warranties:

8. I/We have reviewed the RFQ, Schedule A – Scope of Work, and *Contract Drawings*. If requested by the *Owner*, I/we would be prepared to meet those requirements, amended by the following departures and additions (list, if any):

Requested Departure(s) / Alternative(s) / Addition(s)

Please state reason:

Schedule of Quantities and Prices

9. All prices and Quotations including the *Contract Price* shall include all taxes, but shall not include the GST. The GST shall be shown separately. Accordingly the *Contractor* offers 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 Table 1 below, the *Schedule of Quantities and Prices*, plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purpose of *Quotation* comparison, our Quotation is to complete the Work for the Total Quotation Price as set out on Table 1 of this Quotation Form. Our Total Quotation Price is based on the estimated quantities listed in Table 1 *Schedule of Quantities and Prices*:

Table 1 - Schedule of Quantities and Prices:

F.O.B. Destination	Payment Terms: A cash discount of ____% will be allowed if invoices are paid within ____ days, or the ____ day of the month following, or net 30 days, on a best effort basis.			Ship Via:
1.0 VIDEO INSPECT STORM MAINLINES AND PREPARE REPORTS	UNIT	QTY	UNIT PRICE	AMOUNT
Storm Sewer Mains	Linear m.	190,229		\$
2.0 MANHOLE VIDEO INSPECTIONS				
Manholes	ea.	2,676		\$
TOTAL: 1.0 - 2.0 (Excluding GST) 1A.				\$ -
TERM 2				
1.0 VIDEO INSPECT STORM MAINLINES AND PREPARE REPORTS	UNIT	QTY	UNIT PRICE	AMOUNT
Storm Sewer Mains	Linear m.	167,960		\$
2.0 MANHOLE VIDEO INSPECTIONS				
Manholes	ea.	2,513		\$
TOTAL: 1.0 - 2.0 (Excluding GST) 2A.				\$ -
TERM 3				
1.0 VIDEO INSPECT STORM MAINLINES AND PREPARE REPORTS	UNIT	QTY	UNIT PRICE	AMOUNT
Storm Sewer Mains	Linear m.	157,799		\$
2.0 MANHOLE VIDEO INSPECTIONS				
Manholes	ea.	2,175		\$
TOTAL: 1.0 - 2.0 (Excluding GST) 3A.				\$ -
SUBTOTAL 1A - 3A:				\$ -
GST				\$ -
TOTAL				\$ -

We confirm that we understand and agree that the quantities as listed in the above Table 1 – *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.

List of Optional Prices:

10. The following is a list of optional price(s) to the *Work* and forms part of this RFQ, upon the acceptance of any or all of the optional price(s). The Optional Prices are an addition or a deduction to the Total Quotation Price and do not include GST. DO NOT state a revised Total Quotation Price.

Description of Optional Prices	Addition	Deduction
OP-1. Performance Bond at 50% of total <i>Contract Price</i> :	\$[]	\$[]
OP-2. Labour and Material Payment Bond at 50% of total <i>Contract Price</i> :	\$[]	\$[]

Force Account Labour and Equipment Rates:

10. *Contractors* should complete the following tables setting out the all-inclusive hourly labour rates including overhead and profit for approved extras/credits for all applicable categories of labour (use the spaces provided and/or attach additional pages, if necessary):

Table 2 – Schedule of Labour Rates:

Labour Category	Straight Time/hr (Plus GST)	Overtime Rate/hr (Plus GST)
.1 Superintendent	\$	\$
.2 Foreman	\$	\$
.3 Journeyman	\$	\$
.4 Apprentice	\$	\$
.5 Skilled Labourer	\$	\$
.6	\$	\$

Table 3 – Schedule of Equipment Rates:

No.	Equipment Description	Hourly Equipment Rate
		\$
		\$

Metro Vancouver’s Non-Road Diesel Engine Emissions Regulation By-law No. 1161, 2012 (the Bylaw)

11. *Contractor* should confirm they are in compliance with By-law (if applicable)

Applicable as follows Not applicable to this project

No.	Equipment Description	Engine Tier Designation	Engine Registration Number as Issued by Metro Vancouver
1		<input type="checkbox"/> Tier 0 or <input type="checkbox"/> Tier 1	
2		<input type="checkbox"/> Tier 0 or <input type="checkbox"/> Tier 1	

Experience of Superintendent

12. *Contractor* should provide information on the background and experience of project superintendent proposed for the performance of the *Work* (use the spaces provided and/or attach additional pages, if necessary):

Proposed Project Superintendent Name: _____

Experience:

Dates: _____

Project Name: _____

Responsibility: _____

Dates: _____

Project Name: _____

Responsibility: _____

Contractor’s Comparable Work Experience, (see paragraph 5.3.4 of the Instructions to Tenderers – Part II)

13. *Contractor’s* should provide their relevant experience and qualifications for the performance of the *Work* similar to those required by the Agreement (use the spaces provided and/or attach additional pages, if necessary):

14. *Contractor* should provide references for work performed by your firm of a similar nature and value (name and telephone number) (use the spaces provided and/or attach additional pages, if necessary). The *Owner’s* preference is to have a minimum of three references. Previous clients of the *Contractor* may be contacted at the *Owner’s* discretion.

15. I/We the undersigned duly authorized representatives of the *Contractor*, having received and carefully reviewed the RFQ and the Agreement, submit this Quotation in response to the RFQ.

This Quotation is executed by the *Contractor* this _____ day of _____, 202__.

CONTRACTOR

I/We have the authority to bind the *Contractor*.

(Legal Name of *Contractor*)

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

ATTACHMENT 1 – PRIME CONTRACTOR DESIGNATION LETTER OF UNDERSTANDING

As per the requirements of the *Workers' Compensation Act*, R.S.B.C. 2019, Chapter 1, Part 2, Division 4, Section 24 and 25 which states:

Coordination of multiple-employer workplaces

24 *In this section:*

"multiple-employer workplace" means a workplace where workers of 2 or more employers are working at the same time:

"prime contractor" means, in relation to a multiple-employer workplace,

- (1) The prime contractor of a multiple-employer workplace must
 - (a) ensure that the activities of employers, workers and other persons at the workplace relating to occupational health and safety are coordinated, and
 - (b) do everything that is reasonably practicable to establish and maintain a system or process that will ensure compliance with this Part and the regulation in respect to the workplace.
- (2) Each employer of workers at a multiple-employer workplace must give to the prime contractor the name of the person the employer has designated to supervise the employer's workers at that workplace.

By signing this Agreement, the Contractor accepts all responsibilities of a prime contractor as outlined in the Workers' Compensation Act, and WorkSafeBC OH&S Regulation.

As a Contractor signing this Prime Contractor Designation form with the City of Surrey (the "owner"), you are agreeing that your company, management staff, supervisory staff and workers will comply with the Workers' Compensation Board (WCB) Occupational Health and Safety Regulation and the *Workers' Compensation (WC) Act*.

Any WorkSafeBC OH&S violation by the prime contractor may be considered a breach of contract resulting in possible termination or suspension of the agreement and/or any other actions deemed appropriate at the discretion of the City.

Any penalties, sanctions or additional costs levied against the City, as a result of the actions of the prime contractor are the responsibility of the prime contractor.

The Contractor acknowledges having read and understood the information above.

By signing this Prime Contractor Designation form, the Contractor agrees as a representative of the firm noted below, to accept all responsibilities of the prime contractor for this project.

The Contractor understands and accepts the responsibilities of the prime contractor designation in accordance with the *Workers' Compensation Act* while contracted by the City of Surrey for project and will abide by all Workers' Compensation Board Regulation requirements.

Project File No.: 1220-040-2022-018

Project Title and Site Location: Storm Sewer Rapid Scan Inspection Program

Prime Contractor Name: _____

Prime Contractor Address: _____

Business Telephone/Business Fax Numbers: Phone: _____ Fax: _____

Name of Person in Charge of Project: _____

Name of Person Responsible for Coordinating Health & Safety Activities: _____

Phone: _____

Prime Contractor Signature: _____ Date: _____

Please return a signed copy of this memo to the City of Surrey, Finance Department, Procurement Services Section, 13450 – 104 Avenue, Surrey, British Columbia, V3T 1V8

If you have any questions, please contact the City of Surrey, Manager Occupational Health & Safety at 604-591-4658.

ATTACHMENT 2 – CONTRACTOR HEALTH & SAFETY EXPECTATIONS

RESPONSIBILITY OF CONTRACTOR(S)

The City of Surrey strives to maintain a safe work environment for employees and *Contractors* and insists upon the enforcement of safe practices and procedures in all premises and in all work activities. It is essential that all *Contractors* and their employees and sub-*contractor(s)* perform in the same manner. It is every employers and *Contractors* responsibility to ensure that staff and public are protected from workplace hazards.

As a *Contractor* to the City of Surrey, you are expected to conform to the requirements of the Workers' Compensation Act, the WCB Occupational Health and Safety Regulation and to all federal, provincial and local laws and regulations. The City of Surrey Building *Owner*, Project Manager, and the Manager, Occupational Health & Safety or designate have the authority to order an unsafe act to cease or to have an unsafe piece of equipment removed from the premises or, in extreme situations, to shut down a job entirely. Any City of Surrey Employee that observes a safety infraction by a *Contractor* performing work for the City of Surrey should bring it to the attention of a manager immediately or Occupational Health & Safety (604-591-4131).

The following information is provided as typical City of Surrey requirements, but does not relieve the *Contractor* from complying with all applicable local, provincial and federal laws, regulations and bylaws.

PERSONNEL

1. You are expected to inform your employees of any potential hazard in the workplace and advise of appropriate action to be taken should a hazard be found or a fire or accident occur.
2. *Contractors* will restrict persons invited on the premises to employees only. No families or friends are permitted.
3. The *Contractor* will advise the City of any on-site accidents involving the *Contractor's* employees, or injuries to others caused by the *Contractor's* business.

SAFETY MANAGEMENT SYSTEM

1. *Contractors* will ensure their employees utilize proper safety equipment and clothing as required for job site activities.
2. *Contractors* must follow and have on site proper written safe work procedures for hazardous work, e.g. Fall protection, confined space entry, hotwork, lockout, excavations and shoring, traffic management, etc.
3. *Contractor* must Identify workplace risk and implement suitable controls.
4. *Contractor* must provide safety training and education to staff and have training records available for review.
5. *Contractor* must have a health & safety program for its workers and sub-*contractors*
6. *Contractor* will provide appropriate First-Aid coverage for their workers and sub*contractors*.
7. *Contractor* must forward a weekly work task list prior to work commencement.
8. The qualified safety coordinator must participate in the City of Surrey OHS Orientation or attend the Prime *Contractor's* Orientation.

WORK AREAS –City Facilities

No work by *Contractors* shall occur in any area without prior consent of the City of Surrey Manager, Civic Facilities or his designated representative. Work during normal business hours of the City shall not create undue noise, smells or otherwise unduly disturb the work of City of Surrey staff or the public. If an activity requires that a disturbance is likely, the *Contractor* shall whenever possible only do that work outside normal business hours.

All activities that create a hazard (i.e. work from a ladder, removal of a floor tile, emission of VOC's, etc.) to persons outside the *Contractor's* supervision shall have warning devices, delineation or barriers, sealed spaces, etc. as would normally be required to protect any person from that hazard.

SAFETY ATTITUDE

Your safety record and attitude are important criteria used to judge your qualification for future bidding on solicitations with the City of Surrey.

You can help ensure employee safety and your eligibility for future business with the City if you exhibit and practice a "Safe Work - Safe City" attitude.

The City of Surrey is concerned about the health, safety and wellbeing of all employees and *Contractors*. It is essential we maintain a healthy, safe and productive work environment.

All Employees & Contractors:

It is everyone responsibility to:

- ❖ know and comply with WCB regulations and
- ❖ follow established safe work procedures
- ❖ immediately report any work related injury to his/her supervisor; and to the city representative
- ❖ not remain on the work site while his/her ability to work is in any way impaired
- ❖ report unsafe acts and conditions to their supervisor
- ❖ correct unsafe conditions immediately whenever it is possible to do so
- ❖ take reasonable care to protect your health & safety and the health and safety of other persons who may be affected by your act's or omissions at work

An employee must refuse to work if continuing to do so would endanger the health and safety of the employee, fellow employees or others. The worker must immediately report the circumstances of the unsafe condition to his or her supervisor or manager. If the unsafe condition is not remedied or the issue is not resolved the Manager, Occupational Health & Safety must be contacted.



A common sense approach usually resolves the issue.

GENERAL RULES

1. For all secured worksites, contracted workers are required to sign in and sign out each day
2. (Access cards may be issued – a worker may need to provide an Identification document (i.e. Driver's License) in exchange).
3. Personal protective equipment, as determined by the City, through consultation with the *Contractors* Health and Safety Representatives must be worn when and where required. (Hard Hats, Safety Footwear, Safety Vests and Safety Glasses must be worn on active construction sites. Hearing Protection must be worn when noise levels are above 85dBA.)
4. Horseplay, gambling and the use of alcohol or narcotics will not be tolerated.
5. No Smoking within 7.5M of a City owned buildings door exits, windows and vents.
6. Report **ALL** injuries to your supervisor immediately and notify the City's site representative.

7. Report any unsafe conditions, including someone under the influence or hazards, which may allow an injury to occur to you, a fellow worker, or others on the worksite.
8. Report any property damage, regardless of how minor.
9. Restricted and controlled products will be labeled, used and stored in accordance with the associated regulations, e.g. WHMIS. Follow all procedural instructions when using or handling hazardous materials/controlled products and ensure that all containers of hazardous/controlled product materials are properly labelled and stored in designated areas.
10. Obey all posted signs and notices. Do not venture into areas that you are not authorized to enter.
11. Always use the correct posture when lifting and get assistance if the weight is excessive.
12. Do not work within the limits of approach to high voltage equipment.
13. If working at heights greater than 10 feet a Fall Protection system must be in place. The appropriate Fall Protection equipment must be worn at all times.
14. **Housekeeping** (Orderliness and good housekeeping are basic requirements and must be maintained at all times):
 - a) Aisles are to be kept clear at all times.
 - b) Individual work areas are to be kept clean and tidy.
 - c) All materials, tools, products and equipment are to be kept in their designated areas.
 - d) Liquid spills are to be cleaned up immediately to prevent slips and falls.
 - e) Accumulation of oily rags, combustible refuse or similar fire hazards will not be tolerated.
15. **Fire Prevention:**
 - a) Become familiar with Surroundings and emergency exit.
 - b) Ensure aisles and exits are not blocked at any time.
 - c) Anytime a fire extinguisher is used, report it immediately to your supervisor, so that it can be recharged.
16. **Equipment Operation** (Any equipment, which could create a hazard, must be maintained in good condition):
 - a) Equipment must not be repaired, adjusted or operated unless by a "competent person" who understand the safe operating procedures.
 - b) Always be aware of the use and location of the "EMERGENCY STOP" button, if equipment is so equipped, before using the equipment.
 - c) Loose clothing, jewelry and long hair must be secured to prevent becoming entangled with equipment.
 - d) The Operator must check all safety devices on equipment before operation.
 - e) All equipment must be turned off and the appropriate "lock-out" procedure followed, prior to repairs, cleaning, adjustment or lubrication.
 - f) Radio/Walkman/I-pod Head phones are not allowed to be worn during regular work operations.
 - g) All ladders must be of an approved type and length. Unacceptable ladders must be removed immediately from the premises.
 - h) All vehicles and equipment on City property must be kept in safe mechanical condition at all times, and be operated only by persons with a valid driver's license and/or proper training and qualifications.
 - i) *Contractors* will not operate any equipment, valves, switches, etc., which are part of the City's operation, unless specific permission is received from the Department Representative.

17. **Ground Disturbance** –Every time you dig in the ground, with a shovel or mechanized equipment, you run the risk of loss of life or damage to property if you hit any of the many buried cables, conduits, gas or oil pipelines and/or other underground facilities that serve our city, **BC One Call Must be called and a ticket obtained prior to commencing any ground disturbance activities.**

Issued By:	Occupational Health & Safety Section - <i>Contractor</i> Coordination Program
Date:	Revised: January 14, 2015 Original: August 15, 2014
Distributed:	Via Email & Posted on Intranet: January 16, 2015 :<u>August 15, 2014</u>

This document does not replace the Workers' Compensation Act or WorkSafeBC OH&S regulation. Each individual *Contractor* must have specific health and safety safe work rules and procedures that apply to their work tasks. Each *Contractor* must comply with the Workers' Compensation Act and WorkSafeBC Occupational Health & Safety Regulation and to all federal, provincial and local laws and regulations. If a *Contractor* is unable to comply they must bring this to the attention of their qualified safety representative and to the Prime *Contractor* safety representative immediately.

Authorized Signature: _____

Name: _____
(Please Print)

Date: _____



ATTACHMENT 3 – COMPLIANCE TO SAFETY PROCEDURE ENTRY PROCEDURE FOR CONFINED SPACE

This procedure shall be used as a guideline only. The Contractor shall be responsible for familiarization with this and all WCB requirements.

- THERE MUST BE A MINIMUM OF TWO MEN
 - ONE MAN ALWAYS ON THE SURFACE, AND
 - ONE MAN IN THE WELL
 - MAN LIFT/RETRIEVAL DEVICES MUST BE USED
1. a) Open manhole lids, turn on blower/fan to ventilate wet well for approximately two to three minutes.
 - b) Leave fan fanning until job is completed.
 - c) Manhole must be circulated by a blower fan to allow fresh air into the confined space. Check levels on gas detector by lowering into well. If levels are not safe, portable fans MUST be used.
 2. Turn gas detector "ON":
 - Oxygen levels should read between 20.0 to 21.0
 - H2S levels should read 000
 - LEL levels should read 000

NOTE: - Readings shall be taken before entering well.
 - Record gas levels on "Confined Entry Space" forms and hand in daily.

3. a) Lower gas detector by rope/cord into lower portion of wet well where work shall be performed.
- b) Pull detector to surface and check gas levels. If levels are safe, entry into well is permitted.
4. Gas detector MUST be left "ON" and brought down into well with person(s) entering.
5. Check levels on gas detector when in well. Proceed with washing/repairing of station.
6. If at any time the gas detector goes "OFF" (ringing), EXIT WET WELL IMMEDIATELY and check levels.

Where work is to be carried out, in any confined space where harmful atmosphere may develop, the following procedures must be followed:

- a) The space must be ventilated continuously.
- b) Gas detection equipment must be calibrated in an atmosphere that is known to be safe.

Tests for harmful or explosive substances and oxygen deficiency shall be made and recorded immediately prior to entry, after any interruptions in the work procedure and at intervals to ensure the continuing safety of the worker in the confined space.

If a harmful atmosphere develops, the worker will immediately evacuate the space and will not re-enter until it has been tested and found to be safe to do so.

- c) A safety belt or harness of a type which will keep the worker in a position to permit rescue, will be worn.
- d) A life line will be attached to the belt or harness which is tended at all times by another person stationed outside the entrance to the confined space, who shall be equipped for and capable of effecting rescue.

I, the undersigned, acknowledge having read and understand the information above.

By signing this Agreement, I/We agree as a representative of the firm noted below, to accept all responsibilities and compliant to all the Workers' Compensation Board regulation requirements.

Project File No.: 1220-040-2022-018 Company: <<insert company name>>

Project Title: Storm Sewer Rapid Scan Inspection Program

Signed: _____ Date: _____
(Company Owner)

Witness: _____ Date: _____

ATTACHMENT 4 – COMPLIANCE TO SAFETY PROCEDURE WORKING IN CONFINED SPACE

Where work is to be carried out, in any confined space where harmful atmosphere may develop, the following procedures must be followed:

- a) The space must be ventilated continuously.
- b) Gas detection equipment must be calibrated in an atmosphere that is known to be safe.

Tests for harmful or explosive substances and oxygen deficiency shall be made and recorded immediately prior to entry, after any interruptions in the work procedure and at intervals to ensure the continuing safety of the worker in the confined space.

If a harmful atmosphere develops, the worker will immediately evacuate the space and will not re-enter until it has been tested and found to be safe to do so.

- c) A safety belt or harness of a type which will keep the worker in a position to permit rescue, will be worn.
- d) A life line will be attached to the belt or harness which is tended at all times by another person stationed outside the entrance to the confined space, who shall be equipped for and capable of effecting rescue.

I, the undersigned, acknowledge having read and understand the information above.

By signing this Agreement, I agree as a representative of the firm noted below, to accept all responsibilities and compliant to all the Worksafe BC regulation requirements.

Project File No.: 1220-040-2022-018

Company: _____.

Project Title: Storm Sewer Rapid Scan Inspection Program

Signed: _____
(Company Owner)

Date: _____

Witness: _____

Date: _____

ATTACHMENT 5 – NOTICE OF CERTIFICATION OF COMPLETION

Builders Lien Act

(Section 7 (4))

Notice: City of Surrey, Contract 1220-040-2022-018

General Contractor – Storm Sewer Rapid Scan Inspection Program.

Take notice that on _____ [date] a certificate of completion, or court order to that effect, was issued with respect to a contract (or subcontract) between:

CITY OF SURREY

13450 – 104 Avenue
Surrey, BC V3T 1V8, Canada

(the "**OWNER**")

and

(the "**CONTRACTOR**")

in connection with an improvement on land described as follows:

Storm Sewer Rapid Scan Inspection Program

All persons entitled to claim a lien under the *Builders Lien Act* and who performed work or supplied material in connection with or under the contract are warned that the time to file a claim of lien may be abridged and section 20 of the Act should be consulted.

ATTACHMENT 6 – CERTIFICATION OF COMPLETION

Builders Lien Act

(Section 7 (10))

Certification of Completion

I _____ [name of payment certifier], of _____
[address], British Columbia, certify that, for the purposes of the *Builders' Lien Act*, the following
contract or subcontract was completed on _____ [month, day,
year]:

Street address or other description of the land affected by the improvement:

Brief description of the improvement: _____

Brief description of the contract or subcontract, including the date of the contract and the names
of the parties to it:

Signed: _____ [signature of payment certifier]

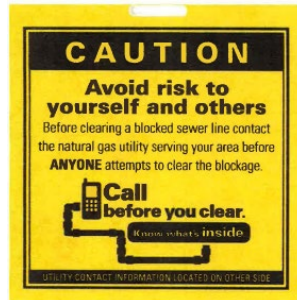
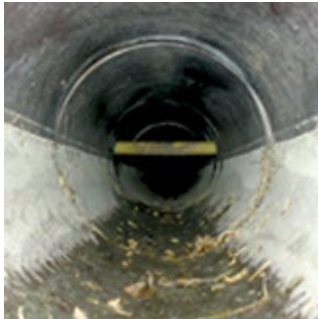
Dated: _____ [month, day, year]

ATTACHMENT 7 – “BACKED UP SEWERS - CALL BEFORE YOU CLEAR” – PROCEDURES

Stay safe. Don't risk hitting a natural gas line inside a sewer line. Call Before You Clear.

It's important that you know what's inside the pipe before using equipment to clear it. Some natural gas lines were installed in a way that may have caused the gas line to cross through a sewer service line. Also called cross-bores, these intersecting lines can go undetected until clearing a blocked sewer service line damages the natural gas line.

If rotating equipment or water jets rupture the cross bore, a natural gas leak could result. That's why it's vitally important to find out if natural gas lines may be intersecting the sewer line before beginning work to clear a blocked sewer.



To protect yourself, co-workers, and the public, follow these steps when you receive a call regarding a backed up sewer and before anyone attempts to clear the sewer pipe.

1. Call **(604) 257-1940** or **1-800-474-6886** (BC One Call - Call Before You Clear).
2. Inform the agent you are calling about a “**sewer service line blockage.**”
3. Provide the agent with your name and who you work for.
4. Provide the agent with **your cell phone number** so they can contact you directly.
5. Provide them with the location (i.e. address of the house) of the blocked sewer service or sewer main.
6. Answer any other questions and provide as much information as possible to the agent.
7. The agent will provide you with a ticket number. Record the ticket number.
8. Record the time you called the agent
9. Record the time Fortis BC arrives.

Once off the phone with the agent, wait for Fortis BC to call you. The agent will notify Fortis BC immediately and Fortis BC will make every effort to respond in two hours or less to locate gas lines. They treat the call as an emergency. It's a free service available 24 hours a day.

When Fortis BC calls you, they may ask for further details and information. They will examine their records to determine if any potential conflicts exist between their natural gas pipes and whether an in-sewer camera inspection may be needed. They will inform you a crew has been sent out to perform an inspection and locate. The Fortis BC crew should be on site within an hour of the call. Fortis BC works with professionally trained sewer camera contractors who can be sent to your location to complete an inspection. The contractor uses a special camera that goes inside the sewer pipe to identify any conflicts or “cross bores” with underground natural gas lines.

Once the Fortis BC crew has performed the inspection, locate and assessed the situation, they will provide you with instructions on when you can proceed with the work (i.e. to clear the line).

OHS 2014