



REQUEST FOR QUOTATIONS

Title: **VEGETATION MAINTENANCE SERVICES**

Reference No.: 1220-040-2016-020

FOR THE SUPPLY OF GOODS AND/OR SERVICES

(General Services)

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REQUEST FOR QUOTATIONS

1. INTRODUCTION

The City of Surrey (the "City") invites contractors to provide a quotation on the form attached as Schedule B to Attachment 1 (the "Quotation") for the supply of the goods (if any) and/or services described in Schedule A to Attachment 1 (the "Goods and/or Services"). The description of the Goods and/or Services sets out the minimum requirements of the City. 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, also include goods, services or terms that exceed the minimum requirements.

2. ADDRESS FOR DELIVERY

A Quotation should be labelled with the Contractor's name, RFQ title and number. A Quotation should be submitted in the form attached to this RFQ as Schedule B – Quotation.

The Contractor may submit a Quotation either by email or in a hard copy, as follows:

(a) Email

If the Contractor chooses to submit by email, the Contractor should submit the Quotation electronically in a single pdf file to the City by email at: purchasing@surrey.ca

PDF emailed Quotations are preferred and the City will confirm receipt of emails. Note that the maximum file size the City can receive is 10Mb. If sending large email attachments, Contractors should phone to confirm receipt. A Contractor bears all risk that the City's equipment functions properly so that the City receives the Quotation.

(b) Hard Copy

If the Contractor chooses NOT to submit by email, the Contractor should submit one original unbound Quotation and one (1) copy (two (2) in total) which should be delivered to the City at the office of:

Name: Richard D. Oppelt, Purchasing Manager
at the following location:

Address: Surrey City Hall
Finance & Technology Department – Purchasing Section
Reception Counter, 5th Floor West
13450 – 104 Avenue, Surrey, B.C., Canada, V3T 1V8

3. DATE

The City would prefer to receive Quotations on or before **April 4, 2016**. The City's office hours are 8:30 a.m. to 4:00 p.m., Monday to Friday, except statutory holidays.

4. INQUIRIES

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

Name: Richard D. Oppelt, Purchasing Manager
E-mail: purchasing@surrey.ca
Reference: 1220-040-2016-020

5. ADDENDA

If the City determines that an amendment is required to this RFQ, the City's Representative will issue a written addendum by posting it on the BC Bid Website at www.bcbid.gov.bc.ca (the “BC Bid Website”) and the City Website at www.surrey.ca (the “City Website”) that will form a part of this RFQ. It is the responsibility of Contractor to check the BC Bid Website and the City Website for addenda. The only way this RFQ may be added to, or amended in any way, is by a formal written addendum. No other communication, whether written or oral, from any person will affect or modify the terms of this RFQ or may be relied upon by any Contractor. By delivery of a Quotation, the Contractor is deemed to have received, accepted and understood the entire RFQ, including any and all addenda.

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. The City may negotiate changes to any terms of a Quotation, including terms in Attachment 1 and Schedules A and B and including prices, and may negotiate with one or more Contractors or may at any time invite or permit the submission of quotations (including prices and terms) from other parties who have not submitted Quotations.

7. ACCEPTANCE

A Quotation will be an offer to the City which the City 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 City unless and until both the authorized signatory and the purchasing representative have signed on behalf of the City. Delivery of the signed Quotation by the City may be by fax or pdf email.

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 City or its representatives and consultants, relating to or arising from the RFQ. The City 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 to supply the Goods and/or Services.

10. CONFLICT OF INTEREST

A Contractor must disclose in its Quotation any actual or potential conflicts of interest and existing business relationships it may have with the City, its elected or appointed officials or employees. The City 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 City and will not be returned to the Contractor. All Quotations will be held in confidence by the City unless otherwise required by law. Contractors should be aware the City 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 City 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. MULTIPLE CONTRACTORS

The City reserves the right and discretion to divide up the Goods and/or Services, either by scope, geographic area, or other basis as the City may decide, and to select one or more Contractors to enter into discussions with the City for one or more Contracts to perform a portion or portions of the Goods and/or Services. If the City exercises its discretion to divide up the Goods and/or Services, the City will do so reasonably having regard for the RFQ and the basis of Quotations.

In addition to any other provision of this RFQ, Quotations may be evaluated on the basis of advantages and disadvantages to the City that might result or be achieved from the City dividing up the Goods and/or Services and entering into one or more Contracts with one or more Contractors.

ATTACHMENT 1



DRAFT QUOTATION AGREEMENT

Title: **VEGETATION MAINTENANCE SERVICES**

Reference No.: 1220-040-2016-020

FOR THE SUPPLY OF GOODS AND/OR SERVICES

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DRAFT QUOTATION AGREEMENT

Reference RFQ Title: **VEGETATION MAINTENANCE SERVICES**

THIS AGREEMENT dated for reference this _____ day of _____, 201__.

AGREEMENT NO. 1220-040-2016-020

BETWEEN: **CITY OF SURREY**
13450 - 104 Avenue
Surrey, B.C., Canada, V3T 1V8
(the "**City**")

AND:

(*Insert Full Legal Name and Address of Contractor*)

(the "**Contractor**")

WHEREAS the City wishes to engage the Contractor to provide Goods and/or Services and the Contractor agrees to provide Goods and/or Services.

THEREFORE in consideration of the payment of one (\$1.00) dollar and other good and valuable consideration paid by each of the parties to the other (the receipt and sufficiency of which is hereby acknowledged) the City and the Contractor agree as follows:

1. DEFINITIONS AND INTERPRETATION

1.1 In these General Terms and Conditions:

- (a) "Agreement" means this agreement and all schedules attached hereto;
- (b) "City" means the City of Surrey;
- (c) "Contractor" means a contractor whose Quotation has been accepted by the City and who is providing the Goods and/or Services under this Agreement;
- (d) "Disbursements" means the actual out-of-pocket costs and expenses as identified in Section B-2, which the Contractor incurs in providing the Goods and/or Services;
- (e) "Fees" means the price set out in Section B-2 for the provision of the Goods and/or Services, unless otherwise agreed by the parties in writing, and includes all taxes;
- (f) "Goods" means the equipment or materials (if any) as described generally in Schedule A, to Attachment 1, including anything and everything required to be done for the fulfilment and completion of this Agreement;
- (g) "Indemnities" has the meaning described in Section 11.2;
- (h) "RFQ" means the Request for Quotations;
- (i) "Services" means the services as described generally in Schedule A, to Attachment 1 including anything and everything required to be done for the fulfilment and completion of this Agreement; and
- (j) "Term" has the meaning described in Section 3.1.

- 1.2 This Agreement may be modified only by express and specific written agreement. In the event of a conflict between the provisions of any documents listed below, then the documents shall govern and take precedence in the following order:
- (a) this Agreement;
 - (b) Addenda (if any);
 - (c) the RFQ; and
 - (d) other terms, if any, that are agreed to by the parties in writing.
- 1.3 The following attached Schedules are a part of this Agreement:
Schedule A – Specifications of Goods & Scope of Services;
Schedule A-1 – List of Sites and Maps; and
Schedule B – Quotation.

2. GOODS AND/OR SERVICES

- 2.1 The Contractor covenants and agrees with the City to provide the Goods and/or Services in accordance with this Agreement. The Goods and/or Services provided will meet the specifications and scope set out in Schedule A, to Attachment 1, and as described in Schedule B, to Attachment 1.
- 2.2 The City may from time to time, by written notice to the Contractor, make changes in the specifications of Goods and scope of Services. The Fees will be increased or decreased by written agreement of the City and the Contractor according to the rates set out in Schedule B, to Attachment 1.
- 2.3 The Contractor will, if required in writing by the City, provide additional goods or services. The terms of this Agreement will apply to any additional goods or services, and the fees for additional goods or services will generally correspond to the fees as described in Schedule B, to Attachment 1. The Contractor will not provide any additional goods or services in excess of the specification of Goods and scope of Services requested in writing by the City.
- 2.4 The Contractor will perform the Services with that degree of care, skill and diligence normally provided by a qualified and experienced practitioner performing services similar to the Services, and on the understanding that the City is relying on the Contractor's experience and expertise. The Contractor represents that it has the expertise, qualifications, resources, and relevant experience to supply the Goods and/or Services.
- 2.5 The Contractor will deliver the Goods free and clear of all liens and encumbrances in the manner and to the destination stipulated. In the event of the Contractor's failure to meet this condition, the Contractor will, on written notice from the City, forthwith return all monies paid by the City on account of the Goods and in addition the City may by written notice terminate this Agreement without liability, and in such event, in addition to the above, the Contractor will be liable for any and all expenses or losses incurred by the City resulting from such failure.

3. TERM

- 3.1 The Contractor will provide the Goods and/or Services for the period commencing on April 25, 2016 and terminating on April 24, 2017 (the "Term").

- 3.2 The City may at any time prior to 30 days before the end of the Term, by written notice to the Contractor, extend the Term for a period of time not to exceed two (2) additional one (1) year terms. If the City elects to extend the Term, the provisions of this Agreement will remain in force, including the Fees, except where amended in writing by the parties.

4. TIME

- 4.1 Time is of the essence.

5. FEES AND DISBURSEMENTS

- 5.1 The City will pay the Fees and Disbursements to the Contractor in accordance with this Agreement. Payment by the City of the Fees and Disbursements will be full payment for the Goods and Services and the Contractor will not be entitled to receive any additional payment from the City.
- 5.2 For greater certainty, costs of general management, non-technical supporting services and general overhead are deemed to be covered by the Fees and will not be subject to additional payment by the City. The Fees shall also include without limitation all costs of boxing, packing, crating, and loading and unloading the Goods at the prescribed destinations.

6. PAYMENT

- 6.1 Subject to any contrary provisions set out in Schedule B, to Attachment 1, the Contractor will submit a monthly invoice to the City requesting payment of the portion of the Fees relating to the Goods and/or Services provided in the previous month. Invoices must include the Contractor's name, address and telephone number, the City's purchase order number, the Contractor's invoice number, the names, charge-out rates and number of hours worked in the previous month of all employees of the Contractor that have performed Services during the previous month; the total budget for the Goods and/or Services and the amount of the budget expended to the date of the invoice; taxes (if any); and grand total of the invoice. The Contractor will provide the City copies of the packing slips and landscape supply company receipts as back-up to the invoice. The Contractor will on request of the City provide receipts and invoices for any additional disbursement items claimed on the invoices. In a spreadsheet format, the Contractor will also append copies of the daily field logs of the Crew to identify the dates, locations and the amount of time spent per location for each of the sites within the time period being invoiced for.
- 6.2 If the City reasonably determines that any portion of an invoice is not payable, then the City will so advise the Contractor.
- 6.3 The City will pay the portion of an invoice which the City determines is payable within 30 days of the receipt of the Invoice, except the City may hold back from payments 10% of the amount the City determines is payable to the Contractor until such time as the Contractor provides its final report to the City; and
- 6.4 If the Contractor offers the City a cash discount for early payment, then the City may, at the City's sole discretion, pay the portion of an Invoice which the City determines is payable at any time after receipt of the Invoice.

Invoices will be submitted by the Contractor by mail to:

Name: _____
Address: _____

- 6.5 Unless otherwise provided, all dollar amounts referred to in this Agreement are in lawful money of Canada.
- 6.6 If the Contractor is a non-resident of Canada and does not provide to the City a waiver of regulation letter, the City will withhold and remit to the appropriate governmental authority the greater of:
- (a) 15% of each payment due to the Contractor; or
 - (b) the amount required under applicable tax legislation.

7. USE OF WORK PRODUCT

- 7.1 The Contractor hereby sells, assigns and transfers to the City the right, title and interest required for the City to use and receive the benefit of all the reports, drawings, plans, designs, models, specifications, computer software, concepts, products, designs or processes or other such work product produced by or resulting from the Services rendered by the Contractor. This section does not give the City the right to sell any such work product to any third party and the City may sell the work product only with the prior approval of the Contractor. The Contractor may retain copies of the work product.

8. PERSONNEL AND SUBCONTRACTORS

- 8.1 The Contractor will provide only personnel who have the qualifications, experience and capabilities to provide the Goods and perform the Services.
- 8.2 The Contractor will provide the Goods and/or Services using the personnel and sub-contractors as may be listed in the Quotation, and the Contractor will not remove any such listed personnel or sub-contractors from the Services without the prior written approval of the City.
- 8.3 If the City reasonably objects to the performance, qualifications, experience or suitability of any of the Contractor's personnel or sub-contractors then the Contractor will, on written request from the City, replace such personnel or sub-contractors.
- 8.4 Except as provided for in Section 8.2, the Contractor will not engage any personnel or sub-contractors, or sub-contract or assign its obligations under this Agreement, in whole or in part, without the prior written approval of the City.
- 8.5 The Contractor will preserve and protect the rights of the City with respect to any Services performed under sub-contract and incorporate the conditions of this Agreement into all sub-contracts as necessary to preserve the rights of the City under this Agreement. The Contractor will be as fully responsible to the City for acts and omissions of sub-contractors and of persons directly or indirectly employed by them as for acts and omissions of persons directly employed by the Contractor.

9. LIMITED AUTHORITY

- 9.1 The Contractor is not and this Agreement does not render the Contractor an agent or employee of the City, and without limiting the above, the Contractor does not have authority to enter into any contract or reach any agreement on behalf of the City, except for the limited purposes as may be expressly set out in this Agreement, or as necessary in order to provide the Goods and/or Services. The Contractor will make such lack of authority clear to all persons with whom the Contractor deals in the course of providing the Goods and/or Services. Every vehicle used by the Contractor in the course of providing the Goods and/or Services shall identify the Contractor by name and telephone number.
- 9.2 The Contractor is an independent contractor. This Agreement does not create the relationship of employer and employee, a partnership, or a joint venture. The City will not control or direct the details, means or process by which the Contractor performs the Services. The Contractor will determine the number of days and hours of work required to properly and completely perform the Services. The Contractor is primarily responsible for performance of the Goods and/or Services and may not delegate or assign any Services to any other person except as provided for in section 8.4. The Contractor will be solely liable for the wages, fringe benefits, work schedules and work conditions of any partners, employees or sub-contractors.

10. CONFIDENTIALITY AND DISCLOSURE OF INFORMATION

- 10.1 Except as provided for by law or otherwise by this Agreement, the Contractor will keep strictly confidential any information supplied to, obtained by, or which comes to the knowledge of the Contractor as a result of the provision of the Goods or performance of the Services and this Agreement, and will not, without the prior express written consent of the City, publish, release, disclose or permit to be disclosed any such information to any person or corporation, either before, during or after termination of this Agreement, except as reasonably required to complete the Goods and/or Services.
- 10.2 The Contractor acknowledges that the City is subject to the *Freedom of Information and Protection of Privacy Act* of British Columbia and agrees to any disclosure of information by the City required by law.
- 10.3 The Contractor agrees to return to the City all of the City's property at the completion of this Agreement, including any and all copies or originals of reports provided by the City.

11. WARRANTIES

- 11.1 The Contractor warrants that the Goods shall be free from defects in design, materials, workmanship and title, shall conform in all respects to the terms of this Agreement, shall be fit and suitable and perform satisfactorily for the purposes and under the conditions made known to the Contractor by the City or which were reasonably inferable. The Goods shall be at least equal to the higher of national standards or codes (such as, by way of illustration, CSA or ASTM), or standards and codes customarily applicable at the place where the City will use the Goods. The Goods shall be of the best quality, if no quality is specified. This general warranty is independent of and without prejudice to any specific warranty or service guarantee offered by the Contractor or third party manufacturer or supplier of the Goods in connection with the purpose for which the Goods were purchased. The Contractor shall assign to the City any warranty or service guarantee

offered by a third party manufacturer or supplier of the Goods. Notwithstanding this assignment, if at any time up to one year from the date of delivery or installation (if applicable) the City determines the Goods or any part do not conform to these warranties, the City shall notify the Contractor within a reasonable time after such discovery, and the Contractor shall then promptly correct such nonconformity at the Contractor's expense. Goods used to correct a nonconformity shall be similarly warranted for one year from the date of installation. The Contractor's liability shall extend to all liabilities, losses, damages, claims and expenses incurred by the City caused by any breach of any of the above warranties.

- 11.2 The Contractor warrants and guarantees that Goods and/or Services delivered under this Agreement do not infringe any valid patent, copyright or trademark, foreign or domestic, owned or controlled by any other corporation, firm or person, and agrees to indemnify and save harmless the City and all of its elected and appointed officials, officers, employees, servants, representatives and agents (collectively the "Indemnitees"), from and against any and all claims, demands, causes of action, suits, losses, damages and costs, liabilities, expenses and judgments (including all actual legal costs) by reason of any claim, action or litigation arising out of any alleged or actual infringement of any patent, copyright or trademark, foreign or domestic, relating to the Goods and/or Services supplied under this Agreement.

12. INSURANCE AND DAMAGES

- 12.1 The Contractor will indemnify and save harmless the Indemnitees from and against all claims, demands, causes of action, suits, losses, damages and costs, liabilities, expenses and judgments (including all actual legal costs) for damage to or destruction or loss of property, including loss of use, and injury to or death of any person or persons which any of the Indemnitees incur, suffer or are put to arising out of or in connection with any failure, breach or non-performance by the Contractor of any obligation of this Agreement, or any wrongful or negligent act or omission of the Contractor or any employee or agent of the Contractor.
- 12.2 The indemnities described in Sections 11.2, 12.1 and 18.3 will survive the termination or completion of this Agreement and, notwithstanding such termination or completion, will continue in full force and effect for the benefit of the Indemnitees.
- 12.3 The Contractor will, without limiting its obligations or liabilities and at its own expense, provide and maintain throughout this Agreement the following insurances in forms and amounts acceptable to the City from insurers licensed to conduct business in Canada:
- (a) commercial general liability insurance on an occurrence basis, in an amount not less than five million (\$5,000,000) dollars inclusive per occurrence against death, bodily injury and property damage arising directly or indirectly out of the work or operations of the Contractor, its employees and agents. The insurance will include cross liability and severability of interests such that the coverage shall apply in the same manner and to the same extent as though a separate policy had been issued to each insured. The insurance will include, but not be limited to: premises and operators liability, broad form products and completed operations, owners and contractors protective liability, blanket contractual, employees as additional insureds, broad form property damage, non-owned automobile, contingent

employers liability, broad form loss of use, personal injury, and incidental medical malpractice. The City will be added as additional insured;

- (b) automobile liability insurance on all vehicles owned, operated or licensed in the name of the Contractor in an amount not less than three million (\$3,000,000) dollars per occurrence for bodily injury, death and damage to property; and
- (c) contractors' equipment insurance in an all risks form covering construction machinery and equipment used for the performance of the Services.

- 12.4 The Contractor will provide the City with evidence of the required insurance prior to the commencement of this Agreement. Such evidence will be in the form of a completed certificate of insurance acceptable to the City. The Contractor will, on request from the City, provide certified copies of all of the Contractor's insurance policies providing coverage relating to the Services, including without limitation any professional liability insurance policies. All required insurance will be endorsed to provide the City with thirty (30) days advance written notice of cancellation or material change restricting coverage. To the extent the City has an insurable interest, the builder's risk policy will have the City as first loss payee. The Contractor will be responsible for deductible amounts under the insurance policies. All of the Contractor's insurance policies will be primary and not require the sharing of any loss by the City or any insurer of the City.
- 12.5 The Contractor acknowledges that any requirement by the City as to the amount of coverage under any policy of insurance will not constitute a representation by the City that the amount required is adequate and the Contractor acknowledges and agrees that the Contractor is solely responsible for obtaining and maintaining policies of insurance in adequate amounts. The insurance policy coverage limits shall not be construed as relieving the Contractor from responsibility for any amounts which may exceed these limits, for which the Contractor may be legally liable.
- 12.6 The Contractor shall place and maintain, or cause any of its sub-contractors to place and maintain, such other insurance or amendments to the foregoing policies as the City may reasonably direct.
- 12.7 The Contractor hereby waives all rights of recourse against the City for loss or damage to the Contractor's property.

13. CITY RESPONSIBILITIES

- 13.1 The City will, in co-operation with the Contractor, make efforts to make available to the Contractor information, surveys, and reports which the City has in its files and records that relate to the Goods and/or Services. The Contractor will review any such material upon which the Contractor intends to rely and take reasonable steps to determine if that information is complete or accurate. The Contractor will assume all risks that the information is complete and accurate and the Contractor will advise the City in writing if in the Contractor's judgment the information is deficient or unreliable and undertake such new surveys and investigations as are necessary.
- 13.2 The City will in a timely manner make all decisions required under this Agreement, examine documents submitted by the Contractor and respond to all requests for approval made by the Contractor pursuant to this Agreement.

- 13.3 If the City observes or otherwise becomes aware of any fault or defect in the delivery of Goods or the provision of Services, it may notify the Contractor, but nothing in this Agreement will be interpreted as giving the City the obligation to inspect or review the Contractor's performance with regards to delivering Goods or the performance of the Services.

14. DEFICIENCIES

- 14.1 The City shall have a reasonable time to inspect and to accept the Goods and/or Services. The City may reject any Goods or Services not in accordance with this Agreement, whether due to damage resulting from improper packing, loading, unloading or otherwise. The City shall notify the Contractor of rejection of the Goods whereupon the Goods will be held subject to the disposition by the Contractor. Any costs or expenses incurred by the City as a result of the rejection of the Goods or Services are, immediately upon written demand by the City, payable by the Contractor, and may be set off against any payments owing by the City to the Contractor.
- 14.2 The City may hold back from payments otherwise due to the Contractor up to 150% of a reasonable estimate, as determined by the City, on account of deficient or defective Goods or Services. This holdback may be held, without interest, until replacement Goods are received or such deficiency or defect is remedied.

15. DEFAULT AND TERMINATION

- 15.1 In the event the Contractor does not deliver the Goods or perform the Services by the date specified in this Agreement, then:
- (a) the City reserves the right to terminate this Agreement, in whole or in part, and in the event of such termination no payment will be owing by the City on account of this Agreement and the Contractor will be liable for any and all expenses or loss resulting from such failure or delay and will return all monies paid by the City; or
 - (b) if the City does not terminate this Agreement for late delivery or performance, the City may deduct and setoff from any payments owing to the Contractor all additional costs the City reasonably incurs on account of the late delivery or performance.
- 15.2 The City may by written notice at any time cancel this Agreement with respect to Goods which, as of the date of cancellation, have not been shipped.
- 15.3 The City may at any time and for any reason by written notice to the Contractor terminate this Agreement before the completion of all the Goods and/or Services, such notice to be determined by the City at its sole discretion. Upon receipt of such notice, the Contractor will perform no further Goods and/or Services other than the work which is reasonably required to complete the Goods and/or Services. Despite any other provision of this Agreement, if the City terminates this Agreement before the completion of all the Goods and/or Services, the City will pay to the Contractor all amounts owing under this Agreement for Goods and/or Services provided by the Contractor up to and including the date of termination, plus reasonable termination costs in the amount as determined by the City in its sole discretion. Upon payment of such amounts no other or additional payment will be owed by the City to the Contractor, and, for certainty, no amount will be owing on account of lost profits relating to the portion of the Goods and/or Services not performed or other profit opportunities.

- 15.4 The City may terminate this Agreement for cause as follows:
- (a) If the Contractor is adjudged bankrupt, or makes a general assignment for the benefit of creditors because of its insolvency, or if a receiver is appointed because of its insolvency, the City may, without prejudice to any other right or remedy the City may have, terminate this Agreement by giving the Contractor or receiver or trustee in bankruptcy written notice; or
 - (b) If the Contractor is in breach of any term or condition of this Agreement, and such breach is not remedied to the reasonable satisfaction of the City within 5 days after delivery of written notice from the City to the Contractor, then the City may, without prejudice to any other right or remedy the City may have, terminate this Agreement by giving the Contractor further written notice.
- 15.5 If the City terminates this Agreement as provided by Section 15.4 then the City may:
- (a) enter into contracts, as it in its sole discretion sees fit, with other persons to complete the Goods and/or Services;
 - (b) withhold payment of any amount owing to the Contractor under this Agreement for the performance of the Goods and/or Services;
 - (c) set-off the total cost of completing the Goods and/or Services incurred by the City against any amounts owing to the Contractor under this Agreement, and at the completion of the Goods and/or Services pay to the Contractor any balance remaining; and
 - (d) if the total cost to complete the Goods and/or Services exceeds the amount owing to the Contractor, charge the Contractor the balance, which amount the Contractor will forthwith pay.

16. CURING DEFAULTS

- 16.1 If the Contractor is in default of any of its obligations under this Agreement, then the City may without terminating this Agreement, upon 5 days written notice to the Contractor, remedy the default and set-off all costs and expenses of such remedy against any amounts owing to the Contractor. Nothing in this Agreement will be interpreted or construed to mean that the City has any duty or obligation to remedy any default of the Contractor.

17. DISPUTE RESOLUTION

- 17.1 The parties will make reasonable efforts to resolve any dispute, claim, or controversy arising out of this Agreement or related to this Agreement ("Dispute") using the dispute resolution procedures set out in this section.
- 17.2 Negotiation: The parties will make reasonable efforts to resolve any Dispute by amicable negotiations and will provide frank, candid and timely disclosure of all relevant facts, information and documents to facilitate negotiations.
- 17.3 Mediation: If all or any portion of a Dispute cannot be resolved by good faith negotiations within 30 days, either party may by notice to the other party refer the matter to mediation. Within 7 days of delivery of the notice, the parties will mutually appoint a mediator. If the parties fail to agree on the appointment of the mediator, then either party may apply to the British Columbia International Commercial Arbitration Centre for appointment of a mediator. The parties will continue to negotiate in good faith to resolve the Dispute with the assistance of the mediator. The place of mediation will be Surrey, British Columbia.

Each party will equally bear the costs of the mediator and other out-of-pocket costs, and each party will bear its own costs of participating in the mediation.

- 17.4 Litigation: If within 90 days of the request for mediation the Dispute is not settled, or if the mediator advises that there is no reasonable possibility of the parties reaching a negotiated resolution, then either party may without further notice commence litigation.

18. WCB AND OCCUPATIONAL HEALTH AND SAFETY

- 18.1 The Contractor agrees that it shall, at its own expense, procure and carry, or cause to be procured, carried and paid for, full Workers' Compensation Board coverage for itself and all workers, employees, servants and others engaged in or upon any work or service which is the subject of this Agreement. The Contractor agrees that the City has the unfettered right to set off the amount of the unpaid premiums and assessments for the Workers' Compensation Board coverage against any monies owing by the City to the Contractor. The City shall have the right to withhold payment under this Agreement until the Workers' Compensation Board premiums, assessments or penalties in respect of the work done or service performed in fulfilling this Agreement have been paid in full.
- 18.2 The Contractor shall provide the City with the Contractor's Workers' Compensation Board registration number and a letter from the Workers' Compensation Board confirming that the Contractor is registered in good standing with the Workers' Compensation Board and that all assessments have been paid to the date thereof prior to the City having any obligations to pay monies under this Agreement.
- 18.3 Without limiting the generality of any other indemnities granted by the Contractor in this Agreement, the Contractor shall indemnify and hold harmless the City, its elected and appointed officials, employees and agents, from all manner of claims, demands, costs, losses, penalties and proceedings (including all actual legal costs) arising out of or in any way related to unpaid Workers' Compensation Board assessments owing from any person or corporation engaged in the performance of this Agreement or arising out of or in any way related to the failure to observe safety rules, regulations and practices of the Workers' Compensation Board, including penalties levied by the Workers' Compensation Board.
- 18.4 The Contractor agrees that it is the "prime contractor" for the work as defined in the *Workers' Compensation Act*, R.S.B.C. 1996, c. 492 as amended and will ensure compliance with the *Workers Compensation Act* and Regulations in respect of the workplace. Without limiting its responsibilities under the legislation, the Contractor will coordinate the activities of employers, workers and other persons at the workplace relating to occupational health and safety. The Contractor shall have a safety program acceptable to the Workers' Compensation Board, shall provide first aid services, and shall ensure that all Workers' Compensation Board safety rules and regulations are observed during the performance of this Agreement, not only by the Contractor, but by all sub-contractors, workers, material personnel and others engaged by the Contractor in the performance of this Agreement. The prime contractor shall appoint a qualified coordinator for the purpose of ensuring the coordination of health and safety activities for the workplace. Prior to commencement of Construction, the Contractor shall complete and file a "Construction Notice of Project" with the Workers' Compensation Board and shall provide a copy of the same to the City confirming that the Contractor shall be the prime contractor responsible for coordination of safety and health under Part 3 of the *Workers' Compensation Act* and Part 20 of the WCB Occupational Health and Safety Regulations. That person will be the

person so identified in this Agreement, and the Contractor will advise the City immediately in writing if the name or contact number of the qualified coordinator changes.

- 18.5 The Contractor will ensure compliance with and conform to all health and safety laws, by-laws or regulations of the Province of British Columbia, including without limitation any regulations requiring installation or adoption of safety devices or appliances.
- 18.6 The Contractor shall fulfill all its duties, obligations, and responsibilities in such a manner that it ensures the safety of the public and in accordance with the safety regulations of the Workers' Compensation Board and shall install signs and barriers as required to ensure the safety of the public and of its employees in the use of the City facilities.
- 18.7 The Contractor understands and undertakes to comply with all the WCB Occupational Health and Safety Regulations for hazardous materials and substances, and in particular with the "Workplace Hazardous Materials Information System (WHMIS)" Regulations. All "Material Safety Data Sheets (MSDS)" shall be shipped along with the Goods, materials, products and any future MSDS updates will be forwarded.

19. BUSINESS LICENSE

- 19.1 The Contractor will obtain and maintain throughout the term of this Agreement a valid City of Surrey business license.

20. GENERAL PROVISIONS FOR GOODS

- 20.1 Documentation for shipments of Goods from outside Canada shall be provided by a Contractor by airmail and shall include all documents as required by law or customary practice. All packages shall be marked as follows:

"Upon arrival, please contact customs broker:
Livingston International Inc.
Telephone: +1-604-685-3555
Fax: +1-604-605-8231
Email: cst19@livingstonintl.com"

- 20.2 If this Agreement pertains to the fabrication, assembly or other processing of the Goods, representatives of the City shall be permitted free access at all reasonable times for the purpose of inspection, testing or obtaining information as to the progress of the fabrication, assembly or processing.
- 20.3 The City may require that shop drawings be submitted by the Contractor for review prior to the delivery of the Goods. The City may require that a qualified registered professional engineer stamp and approve a shop drawing prior to submission. Any review of shop drawings by the City will not relieve the Contractor from its obligation to deliver Goods in full compliance with all requirements of this Agreement.

21. COMPLIANCE

- 21.1 The Contractor will provide the Services in full compliance with all applicable laws, building codes and regulations.

- 21.2 The Contractor will, as a qualified and experienced practitioner, interpret applicable codes, laws and regulations applicable to the performance of the Services. If an authority having jurisdiction imposes an interpretation which the Contractor could not reasonably have verified or foreseen prior to entering into this Agreement, then the City will pay the additional costs, if any, of making alterations so as to conform to the required interpretation.

22. JURISDICTION OF COUNCIL AND NON-APPROPRIATION

- 22.1 Nothing in this Agreement limits or abrogates, or will be deemed to limit or abrogate, the jurisdiction of the Council of the City in the exercise of its powers, rights or obligations under any public or private statute, regulation or by-law or other enactment.
- 22.2 The Contractor recognizes and agrees that the City cannot make financial commitments beyond the City's current fiscal year. The City will annually make bonafide requests for appropriation of sufficient funds to cover all payments covered by this Agreement. If City Council does not appropriate funds, or appropriates insufficient funds, the City will notify the Contractor of its intention to terminate or reduce the services so affected within 30 days after the non-appropriation becomes final. Such termination shall take effect 30 days from the date of notification, shall not constitute an event of default and shall relieve the City, its officers and employees, from any responsibility or liability for the payment of any further amounts under this Agreement.

23. WAIVER

- 23.1 Any failure of the City at any time or from time to time to enforce or require the strict keeping or performance of any of the terms and conditions contained in this Agreement shall not constitute a waiver of the terms and conditions and shall not affect or impair the terms or conditions in any way or the City's right at any time to avail itself of any remedies as the City may have for any breach of the terms and conditions.

24. APPLICABLE LAW

- 24.1 This Agreement shall be governed by and construed in accordance with the laws of the Province of British Columbia. The City and the Contractor accept the jurisdiction of the courts of British Columbia and agree that any action under this Agreement shall be brought in such courts.

25. NOTICES

- 25.1 Any notice, report or other document that either party may be required or may wish to give to the other must be in writing, unless otherwise expressly provided for, and will be deemed to be validly given to and received by the addressee:
- (a) by hand, on delivery;
 - (b) by facsimile, on transmission; or
 - (c) by mail, five calendar days after posting.
- 25.2 The addresses for delivery will be as shown in the Quotation. In addition, the City may give notice to the Contractor by email at the Contractor's email address as shown in the

Quotation, which email will be deemed to be validly given and received by the Contractor on transmission. The Contractor may not give notice to the City by email.

26. MERGER AND SURVIVAL

- 26.1 The representations, agreements, covenants and obligations set out in this Agreement shall survive the delivery of the Goods and performance of the Services and payment of the Fees and Disbursements.

27. ENTIRE AGREEMENT

- 27.1 This Agreement, including the Schedules and any other documents expressly included by reference in this Agreement, contains the entire agreement of the parties regarding the provision of the Goods and/or Services, and no understandings or agreements, oral or otherwise, exist between the parties except as expressly set out in this Agreement. This Agreement supersedes and cancels all previous agreements between the parties relating to the Goods and/or Services.
- 27.2 In the event that the Contractor issues an invoice, packing slip, sales receipt, or any like document to the City, the City accepts the document on the express condition that any terms and conditions in it which constitute terms and conditions which are in addition to or which establish conflicting terms and conditions to those set out in this Agreement are expressly rejected by the City.

28. SIGNATURE

- 28.1 This Agreement shall be signed by a person authorized to sign on behalf of the Contractor.
- 28.2 This Agreement may be executed in or one or more counterparts all of which when taken together will constitute one and the same Agreement, and one or more of the counterparts may be delivered by fax transmission or as a PDF file.

29. FUEL EMISSIONS DATA

- 29.1 As of January 1, 2013, the City requires contractors to report the quantity of fuel used to operate vehicles, equipment and machinery as part of the delivery of operating (non-capital) services defined as "Traditional Services" in the Carbon Neutral Workbook.v2 as part of the BC Climate Action Charter. Typical data to be submitted would include the following for each calendar year:
- Type of vehicle/vehicle class used to deliver the contracted services;
 - Type of fuel consumed by each vehicle class; and
 - Litres of fossil fuels consumed in relation to the service delivered under the contract.
- 29.2 Fuel consumption associated with the provision of these services must be provided to the City within thirty (30) days of the end of the calendar year or the termination of the contract, whichever is earlier. An excel-based Fuel Use Reporting template will be provided by the City. The most current version of the workbook is located on the Climate Action Toolkit website for your reference at <http://toolkit.bc.ca/carbon-neutral-government>

30. NON ROAD DIESEL ENGINE EMISSION REGULATION

- 30.1 If you **own, operate, or hire** diesel powered equipment, Metro Vancouver's Non-Road Diesel Engine Emissions Regulation Bylaw No 1161, 2012 (the Bylaw) may impact your business. The Bylaw came into force on January 1, 2012 and requires owners or operators to register and label Tier 0 and Tier 1 non-road diesel engines that are 25 horsepower (19kW) or greater in order to operate within Metro Vancouver. Tier 0 engines must have **90 days** of registration purchased by **December 31, 2014** or the engine(s) will be **prohibited from ever operating** in Metro Vancouver. To be fully registered an owner/operator must:
- provide required information (machine/engine/company details),
 - pay fees, and
 - label machines with Metro Vancouver issued registration number.
- 30.2 Other important information:
- Non-road Tier 1 engines must be registered and pay fees to operate,
 - Failure to comply with the Bylaw may result in fines up to \$200,000, and
 - 80% of fees paid into the program can be recovered.
- 30.3 The City may, at its discretion, give preference to equipment that meets higher emission standards.
- 30.4 Contact Metro Vancouver staff at 604-451-6655, visit www.metrovancouver.org/nonroaddiesel or email nonroaddiesel@metrovancouver.org for more information about the Bylaw, the rebate program, and for assistance with the registration process.

31. ENUREMENT

31.1 This Agreement shall enure to the benefit of and be binding upon the respective successors and permitted assigns of the City and the Contractor.

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

CITY OF SURREY

by its authorized signatory:

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

CONTRACTOR

by its authorized signatories:

(Legal Name of Contractor)

(Signature of Authorized Signatory)

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

SCHEDULE A SPECIFICATIONS OF GOODS AND SCOPE OF SERVICES

1. PURPOSE

- 1.1 The City invites Quotations from experienced and qualified Contractors for the provision of everything required including all skilled labour, tools, materials, equipment to carry out designated work associated with vegetation maintenance in riparian areas. Specifically, the work will include four (4) separate tasks: (1) brushing and weeding; (2) mulching of newly planted areas; (3) installing new native plants; and (4) installing protective fencing/staking for plants. The work to be provided is mainly for maintenance purposes of previously constructed habitat zones within riparian areas but may also include other vegetation maintenance work and the development of new planting pockets, as required.

2. SCOPE OF SERVICES

2.1 General Information

- 2.1.1 The annual work program of sites under the Agreement will be provided by the City at the commencement of the Term and the Contractor will be required to develop a calendar of work to be scheduled throughout the Term. The City may add additional sites throughout the Term and the Fees will be generally be in accordance with the Fees in Schedule B. For 2016, the list of sites and Maps is provided in Schedule A-1.
- 2.1.2 The work must be done in accordance with:
- (a) British Columbia Landscape and Nursery Association Standards;
 - (b) City of Surrey Construction Standards;
 - (c) Ministry of Environment – Tree Replacement Criteria and Riparian Planting Criteria (links to documents provided below);
 - i. British Columbia Ministry of Environment. 2008. Riparian Restoration Guidelines. Restrictive Covenants.
http://www.env.gov.bc.ca/lower-mainland/ecosystems/restrictive_covenants/management_hazard_trees.htm
(accessed 13 Dec. 2013).
 - ii. British Columbia Ministry of Environment. 1996. Tree Replacement Criteria. Restrictive Covenants.
http://www.env.gov.bc.ca/lower-mainland/ecosystems/restrictive_covenants/management_hazard_trees.htm
(assessed 13 Dec. 2013).
 - (d) City of Surrey's Restoration Prescriptions for Municipal Detention Ponds and Riparian Ecosystems;
 - (e) Individual site prescriptions developed annually by the City's contracted environmental consultant overseeing riparian areas maintenance programs (if applicable); and
 - (f) Site photo protocol guidelines.

2.2 Methodology

2.2.1 General

- (a) At the direction of the City, the Contractor is to brush, weed, apply mulch, plant trees and/or shrubs, and install fencing/stakes in riparian areas.
- (b) At all sites where Services are being provided, the Contractor will at the start and end of each day take date-stamped digital photo documentation of the work area being completed with a minimum of four (4) images per site per day and a maximum of 12 images per site per day. The photos should clearly depict examples of the work being undertaken at the site. The photos will be uploaded onto an external hard-drive, provided by the City, and filed adequately by site ID #, date (DD/MM/YY), and status (before/after) (e.g. LTM7-140616-before).
- (c) The Contractor's program manager is responsible to train each of the its crew on the extent of all site works at each location at the start of the work program to ensure that no habitat polygon areas are missed and that the boundaries of work are well defined. The Contractor's program manager should confirm the proper information is being followed throughout the Term.

2.2.2 Brushing and Weeding

- (a) The Contractor is to brush and weed unwanted vegetation growth in around recently planted sites. This usually involves the use of weed-eaters or brush saws to mow the unwanted vegetation and the manual removal of unwanted plants including the roots. The City will provide dump sites for the vegetation cuttings.

2.2.3 Mulching

- (a) The Contractor will manually apply mulch, often by wheel-barrow, of organic material around each plant in recently planted areas.
- (b) The City will establish an agreement with a landscape supplier for mulch and other landscape material. The Contractor will deliver, from the landscape supplier, the landscape material required for each site.

2.2.4 Planting

- (a) The Contractor is to install nursery stock trees and shrubs within planting pockets in the riparian areas . Planting pockets may be previously established through another project or the Contractor may have to develop new planting pockets by eradicating invasive plant species from the area, and importing soil planting medium to a specified depth. New plant stock is installed in the ground by manually digging out holes and burying the new plant rootballs into the void as per industry standards, guidelines, and best practices. Newly planted stock must be watered immediately after installation to properly establish the plant in its new environment. Larger stock trees may need to be double staked to support the stability of the new plant.
- (b) The City will establish an agreement with a nursery supplier for plant stock. The Contractor will delivery, from the nursery supplier, the plant stock required for each site. Delivery from the nursery can be arranged for large sites, the Contractor should select the most-cost effective method of getting the plant stock to the sites.

2.2.5 Fencing/Staking

- (a) The Contractor is to install wood posts or stakes and affix wire mesh on the posts or stakes in a manner that will prevent predation from beavers as per industry standards, guidelines, and best practices. Fencing may be required around individual plants or be required around larger polygon areas of plants. The Contractor will also use wood stakes and strapping around newly establishing plants that are large enough to require support from toppling over due to wet ground conditions or wind effect. Staking is to be completed as per industry standards, guidelines, and best practices.
- (b) The Contractor will supply and deliver the fencing material required for each site. The Contractor will ensure that the wood post or stake is appropriate for riparian habitat locations with respect to the wood treatment on the material.

3. SCHEDULE OF WORK AND HOURS OF OPERATION

- 3.1 The Contractor is required to carry out and complete the majority of the brushing and weeding work from approximately April 25th to November 15th, as well as February 15th to March 31st.
- 3.2 The Contractor is required to carry out and complete the majority of the mulching work from approximately April 25th to June 15th, September 15th to November 15th, as well as March 15th to March 31st.
- 3.3 The Contractor is required to carry out and complete the majority of the planting work from approximately April 25th to May 15th, September 1st to December 1st, as well as March 15th to March 31st.
- 3.4 The general hours of operations will be 7:30 a.m. to 5:00 p.m. Days of operation will be Monday through Friday. No work will be performed on weekends or statutory holidays, except as otherwise agreed to in writing by the City.
- 3.5 In addition, the Contractor will contact the City's Environment Section of the Engineering Department via email to review the upcoming week's work plan, to receive special instructions on sites and to discuss any problems encountered on the job. It is anticipated that a monthly in-person meeting with the Contractor's program manager will be required to discuss the work program and ensure that the crew is meeting the requirements.

4. EQUIPMENT

- 4.1 The Contractor shall supply all necessary equipment. All equipment should be road worthy and suitable for working on City streets and within parks. The Contractor shall affix a City Surrey Contractor sign to each side of their vehicle(s), to be provided by the City.

5. CREW REQUIREMENTS

- 5.1 The Contractor shall review the package of sites in the work plan and supply the crew needed to satisfy all the services required. Additional sites may be added to the work program during the Term.

- 5.2 The Contractor is to ensure that all persons providing Services on City premises are clearly identified as a representative of the Contractor . All Contractor employees will wear high visibility vests and an identification badge while doing the work. High visibility vests and identification badges are be provided by the Contractor.
- 5.3 Work will vary seasonally from brushing/weeding to mulching and planting and the Contractor's crew should be competent in all the skills required under the contract.

6. PREFERRED QUALIFICATIONS

- 6.1 The Contractor should be experienced in vegetation management using an array of mechanical control methods to maintain vegetation in natural areas. The Contractor's management approach must be consistent with applicable local, provincial and federal regulatory requirements.
- 6.2 Contractor's crews should be able to demonstrate the following skills, and may be required to undertake a written test, administered by the City:
- (a) Strong skills in reading and understanding drawings and maps;
 - (b) Working knowledge on the use of a variety of equipment, power and hand tools;
 - (c) Understanding of B.C. Landscape Standards for natural area maintenance and construction; and
 - (d) Strong knowledge of native and invasive plant identification.
- 6.3 Contractor crew leads should meet the following preferred qualification and be able to provide documentation to the City upon request:
- (a) Completion of grade 12, supplemented by successful completion of five additional relevant courses from an approved post-secondary education institution in any of the following course areas:
 - i. Biology
 - ii. Urban land management
 - iii. Ecology
 - iv. Conservation
 - v. Wildlife management
 - vi. Fisheries resource management
 - (b) Plus a minimum of 2 years of recent experience in the management of natural areas.

OR

- (c) Completion of Grade 12 and a Technical Certificate Program (one year full-time) from an approved post-secondary institution, supplemented by 18 months of recent experience in the management of natural areas.

OR

- (d) Completion of a diploma program from an approved post-secondary institution, with a minimum of 6 months recent experience in the management of natural areas.

SCHEDULE A-1 - LIST OF SITES AND MAPS

Vegetation Services - Contractor List of Sites for 2016

Site ID	Water course / site location	Location	Site access	Calendar of Works												Notes
				April	May	June	July	August	September	October	November	December	January	February	March	
LTM2	Little Campbell River and Tributaries	Campbell Heights Industrial Lands 192 Street and 20 Avenue to 26 Avenue	Southside access driving east on 28 Avenue and 192 Street; Park at end of 24 or 22 Avenue	B	B	B	B	B	B	B; P = (500 trees)	-	-	-	-	-	notes: only a portion of the planting scheme to be accomplished in 2016. City will need to meet contractor onsite to discuss exact plant numbers to install
LTM6	Serpentine River	96 Avenue widening - 168 to 176 Street	Street parking on 96 Avenue	B	B	B	B	B	B	B	-	-	-	-	-	-
LTM8	Highway 15 multi-use pathway	Along 177A Street - Highway 15 multi-use pathway	Park on 177A Street near the cul-de-sac; access via jumping over the fence	B; P = 16 trees ; F	B	B	B	B	B	B	-	-	-	-	-	-
LTM10	Eugene Creek	Near 12191 Colebrook Road: Eugene Creek diversion phase	Gate near the train tracks south of Colebrook Road	B	B	B	B	B	B	B	-	-	-	-	-	-
LTM14	trib to Serpentine River	Fraser Hwy Widening LTM site: north side of Fraser Hwy between 170 Street and 176 Street	there is a small gap in the concrete roadside barrier on north side of Fraser Hwy just wide enough to park one truck. Busy road access - use extreme caution	B	B	B	B	B	B	B	-	-	-	-	-	notes: prescribed plantings on PDF details already completed in fall 2015
LTM19	trib to Serpentine River	Colebrook at 131	roadside habitats along new Colebrook road west of king George HWY. Nside of road.	B	B	B	B	B	B	B; P = (2000 plugs / 500 trees), F	-	-	-	-	B	notes: City to provide detailed planting prescription at the start of contract
LTM21	Cumming Creek - trib to Nicomekl River	189a and 52 ave.	roadside habitats around intersection of 189a St. and 52 ave.	B; P = 250 stakes	B	B	B	B	B	B, P = 300 plugs	-	-	-	-	-	notes: City to provide detailed planting prescription at the start of contract
LTM22	Anderson Creek	anderson creek bridge	Roadside habitats on King George Blvd around 33 avenue	P = (200 shrubs / 20 trees)	-	-	-	-	-	B	-	-	-	-	-	notes: City to provide detailed planting prescription at the start of contract
LTM26	Scott Creek	11941 River road	walk north from cul de sac at 11941 River Road	P = 12 trees / 434 shrubs	-	-	B	-	-	B	-	-	-	-	-	notes: Slight modification to plant locations required. City will need to meet contractor onsite to discuss
G24	Healy Creek	8851 and 8820 132 Street	Roadside access on 132 Street	-	-	-	-	B	B	-	-	-	-	-	-	notes: new site being established. Contractor to meet City on site before works to delineate boundaries of brushing work.

LEGEND
B = Brushing
P = Planting
M = Mulching
F = Fencing

Campbell Heights Riparian Restoration Plan

Background

In 2007, the City of Surrey (City) in partnership with various private developers undertook works to develop a former gravel pit into a light industrial business park (Campbell Heights Industrial Business Park); the site is generally bounded by 20 and 28 Avenues and 190 and 194 Streets in Surrey. The construction of fish habitat, wetlands and bio-ponds was undertaken in association with the development in an effort to enhance the Campbell Heights area and as a component of a comprehensive stormwater management plan for the park. A detention pond was constructed for stormwater management purposes. Construction of fish habitat was also required to compensate for the destruction of minor watercourses, ponds, and wetlands (all tributaries to the Little Campbell River).

Over the duration of the monitoring program and continuing forward into the future, the City has designated significant staff, resources and monies to the improvement of the total habitat area. An ongoing assessment of the total habitat area is conducted regularly, to ascertain the requirements needed to address deficiencies related to the overall effectiveness of the habitat program. The City’s Salmon Habitat Restoration Program (SHaRP) and various contractors are continually undertaking recommended habitat improvement tasks, such as invasive plant removal, native plant installation, construction activities, watering, etc., which are gradually addressing weaker areas of the site and providing viable habitat features.

The following restoration plan provides a plan for completion of restoration activities as well as a framework for measuring progress towards restoration goals and objectives. It is estimated that restoration plantings will be completed by 2020 and monitoring and maintenance activities completed by 2025.

Restoration Goal

Establish a native riparian plant community such that it is free of competition from invasive species. The desired future condition is a Coastal Douglas-fir forest with plant assemblages typical of moderately dry to fresh nutrient poor growing sites in the moist maritime subzone of the Coastal Douglas-fir biogeoclimatic zone.

Restoration efforts have been ongoing for 8 years with restoration complete in 52% of the restoration area which is approximately 109,000m² (Page 1). Areas where restoration remains incomplete are sites where past efforts to establish riparian plants have failed. These areas have very challenging growing conditions due to previous use as a gravel pit. Soils in these areas are a gravely-sand with no organic soil horizon. Restoration of these areas will require use of ecological succession processes and an adaptive management approach.

Restoration Objectives

Forest Cover - establish native trees at an average of 4 meter spacings such that they will provide a shaded understory environment within 20 years.

Native Riparian Understory Plants – establish a native understory plant community (ie. shrubs, herbs, grasses, or ferns) typical of moderately dry to fresh nutrient poor growing sites in the moist maritime subzone of the Coastal Douglas-fir biogeoclimatic zone. Portions of the restoration area with very poor growing conditions are not likely to support a shrub layer within the 5 year plan period. Natural recruitment will establish a shrub understory in these areas over time.

Invasive Plants – remove all non-native plant species from the restoration area which have the potential to out-compete native trees and shrubs for growing space.

Restoration Strategies

Ecological Succession Approach

- 1. Establish trees first to create beneficial micro-sites for shrub establishment.
- 2. Prioritize forest canopy closure and attendant shaded understory conditions. A shaded understory will improve growing conditions for native shrubs and herbs as well as inhibit the establishment of existing shade intolerant invasive species on site (Himalayan blackberry, Japanese knotweed, scotch broom, and common tansy).
- 3. Shrub establishment will proceed in a phased approach where planting areas are located in shaded microsites provided by tree development.
- 4. The riparian area is unlikely to host a well developed shrub layer until natural pedogenic processes have amended the soil through leaf litter inputs. Very poor growing sites will be planted with trees only and shrubs allowed to seed in naturally from adjacent planted areas when future soil conditions are appropriate.

Adaptive Management

- 1. Measure progress by an annual monitoring inspection which summarize recent restoration work as well as provides completion metrics such as the proportion of the restoration area where restoration is complete and % completion by restoration zone.
- 2. Select shrub species to be planted annually based on monitoring results. Observations of tree and shrub species performance for specific growing sites will be incorporated into planting prescriptions for future years.
- 3. Tree and shrub planting are likely to require combinations of initial soil amendment and ongoing fertilization and watering.
- 4. Restoration planting will proceed as fast as site conditions and plant performance permits.

Planting Plan

Tree Planting Plan

Trees which are well adapted to mineral soils and summer drought conditions in the Coastal Douglas-fir biogeoclimatic zone and moist maritime subzone are prescribed for all areas not fully stocked to the 4 meter tree spacing objective. A tree planting plan and stocking table is provided on page 3. Each year, a specific area of the tree planting plan will be planted. An annual monitoring report will assess progress by restoration zone (eg. BLK 2500 is 65% complete, BLK 2300 is 75% complete).

Understory Planting Plan

An adaptive management approach will be used to establish a native riparian understory in the restoration area. Experimental plots will be used to measure survivorship for selected understory plant and site preparation combinations. Experiment results will be used to inform annual planting plans. Candidate shrub species include *Holodiscus discolor*, *Mahonia nervosa*, *Rosa gymnocarpa*, *Symphoricarpos alba*, *Ribes sanguineum*, and *Dryas drummondii*.

Invasive Species Management

Efforts to limit the extent of Himalayan blackberry (*Rubus armeniacus*), Scotch broom (*Cytisus scoparius*), and Japanese knotweed (*Fallopia japonica*) in the restoration area have been moderately successful to date. Himalayan blackberry and Scotch broom have nearly been eliminated from the southern half of the restoration area (i.e. south of 24th Avenue). North of 24th Avenue, Scotch broom is present in many parts of the restoration area, whereas, blackberry is found only in isolated clusters. A 261m² area of Japanese knotweed is also present in the north-eastern corner of the restoration area. Common tansy (*Tanacetum vulgare*) is established to varying densities throughout the non-forested portions of the restoration area. The presence of Scotch broom, Himalayan blackberry, and Japanese knotweed is summarized by restoration zone on page 4.

Each year a specific restoration zone will be targeted for invasive species removal. All Japanese knotweed, and Scotch broom will be removed from the targeted restoration zone. The following year, an adjacent restoration zone will be targeted and previously treated zones be subject to maintenance invasive species removal only. Invasive species removal methods will be consistent with current methods and will include cutting of emergent broom as well as herbicide application to Himalayan blackberry, Japanese knotweed, and common tansy.



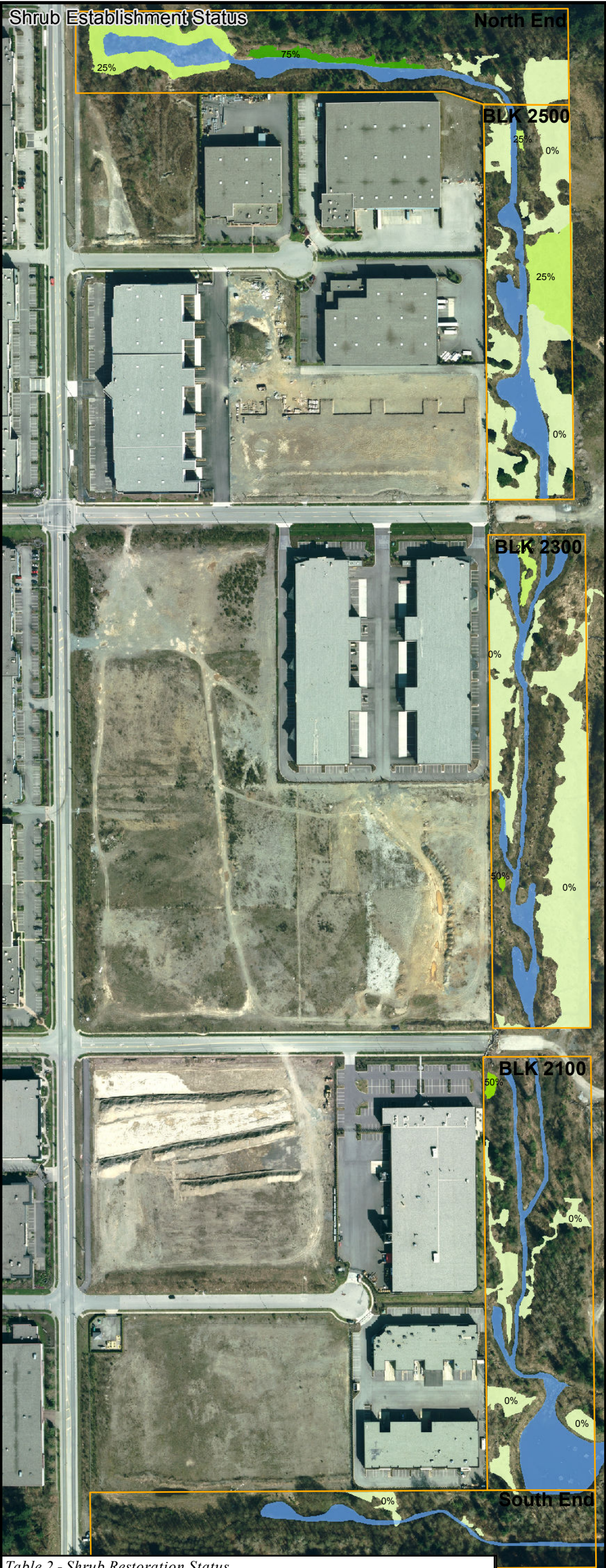


Table 2 - Shrub Restoration Status

Restoration Zone	Total area to be restored (m ²)	Area of restoration completed (m ²)	Percentage of restoration completed
North End	21,953	17,046	78%
BLK 2500	16,720	6,297	38%
BLK 2300	25,201	11,546	46%
BLK 2100	23,035	20,056	87%
South End	22,007	21,606	98%

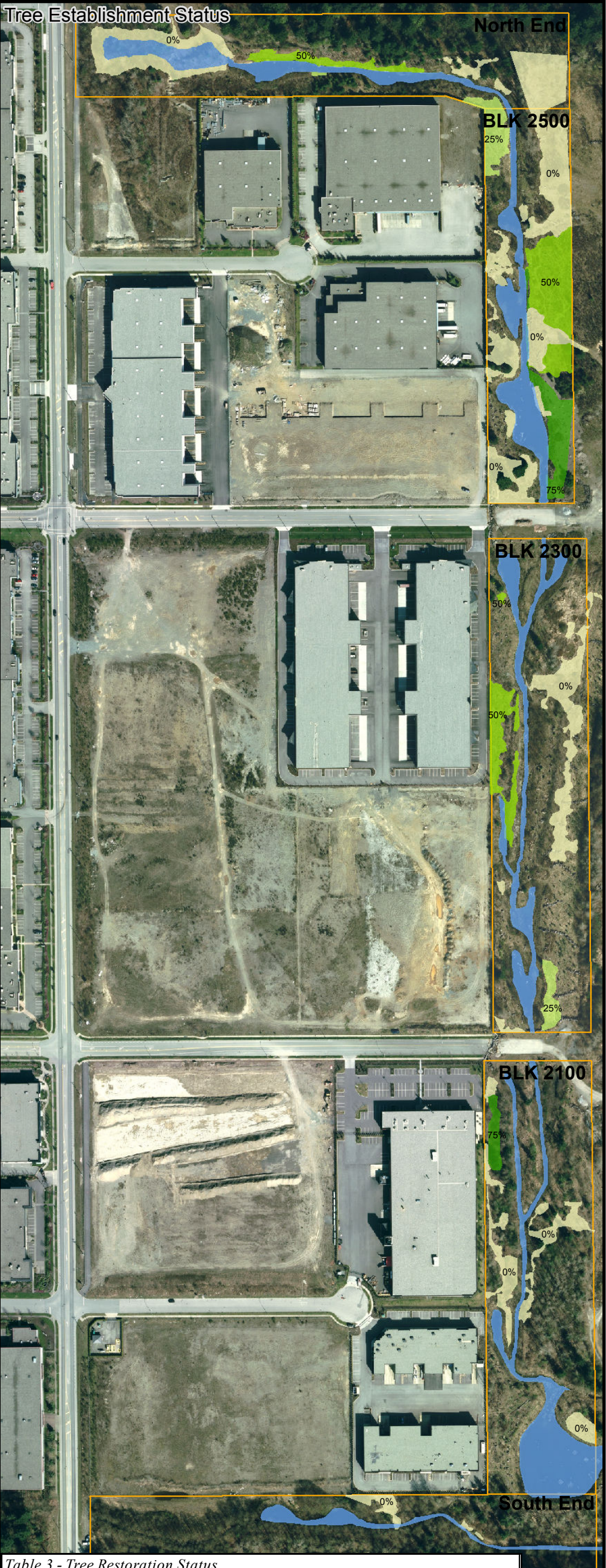
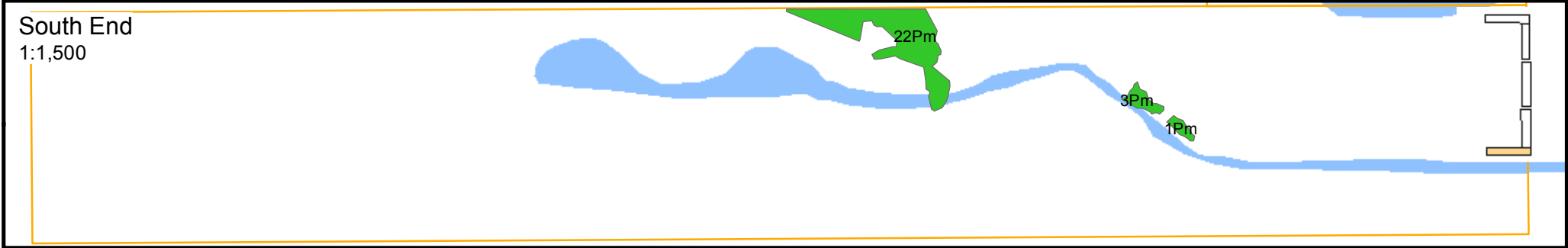
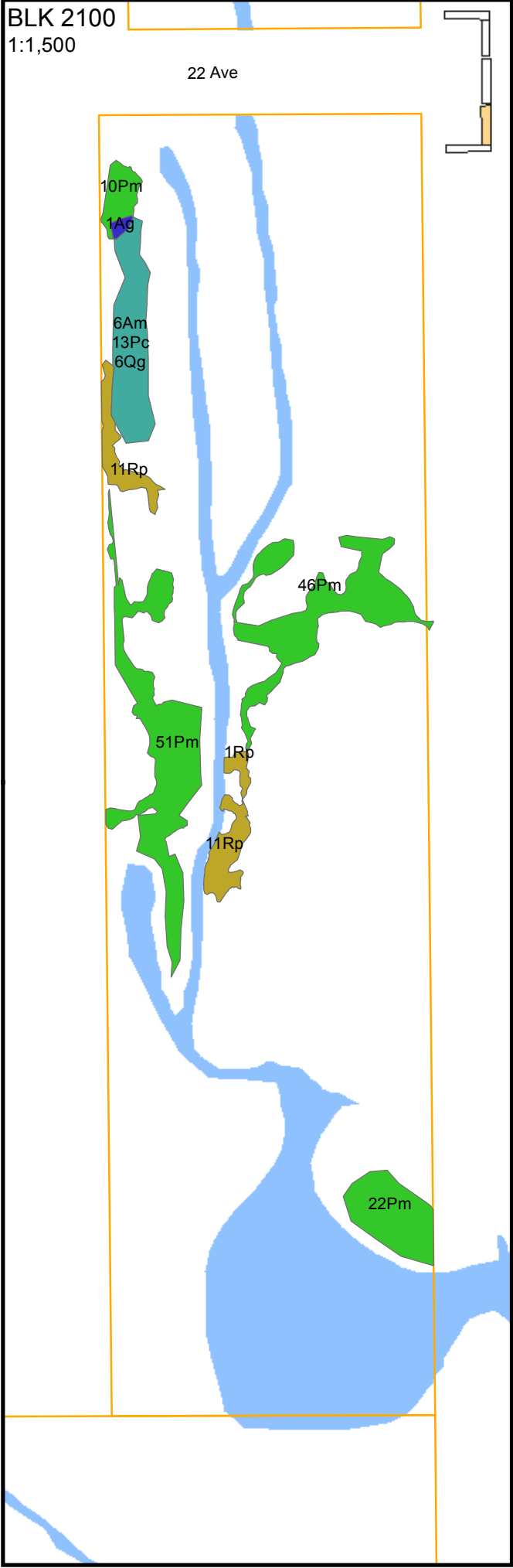
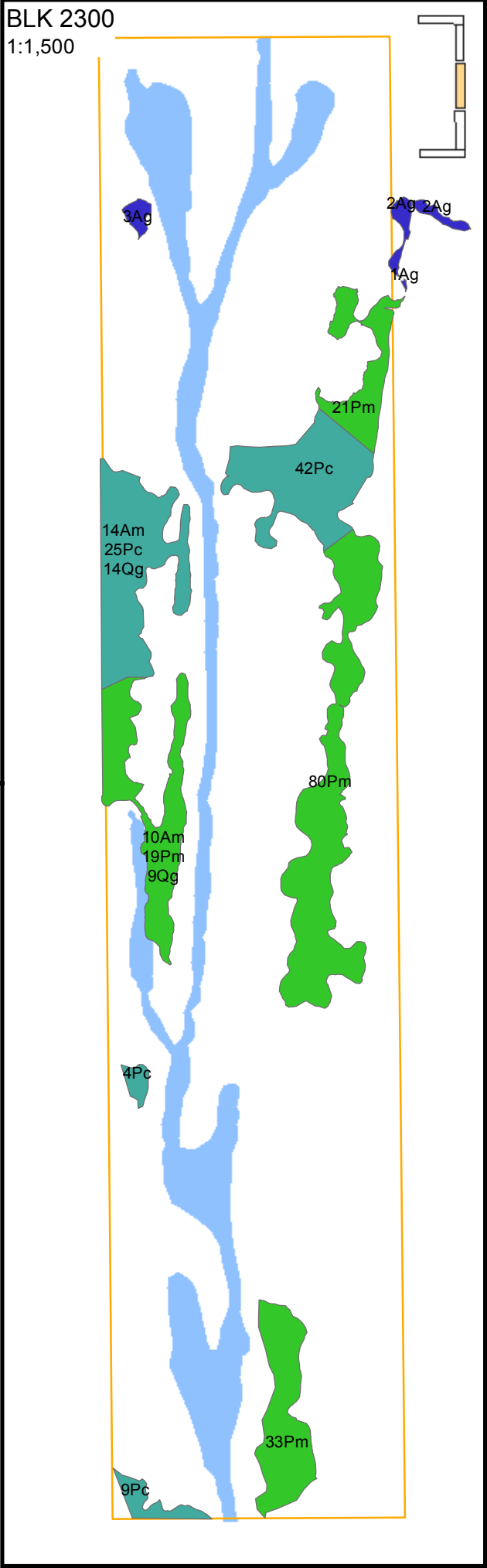
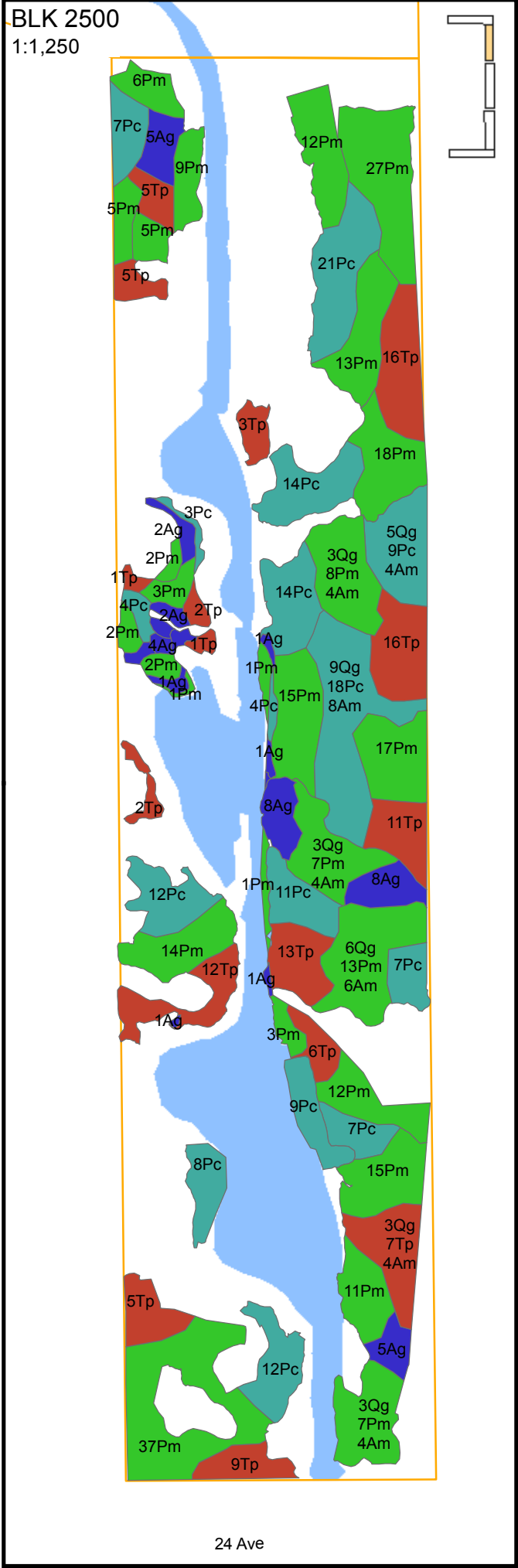
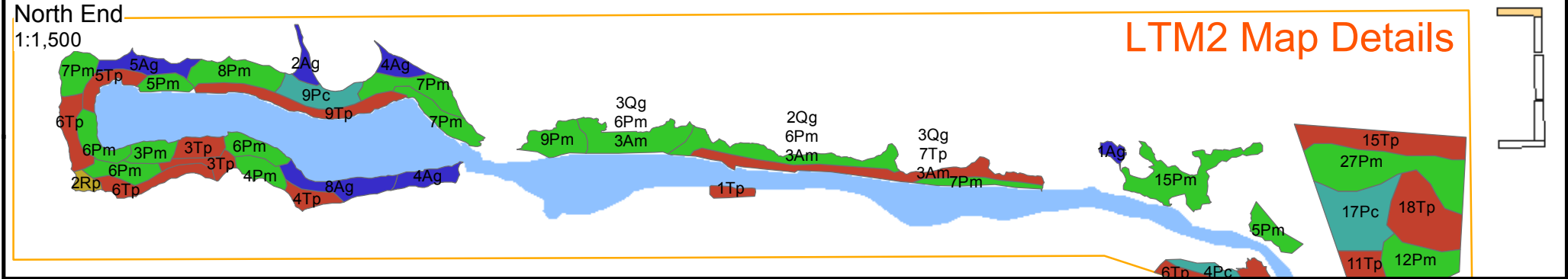


Table 3 - Tree Restoration Status

Restoration Zone	Total area to be restored (m ²)	Area of restoration completed (m ²)	Percentage of restoration completed
North End	21,953	17,184	78%
BLK 2500	16,720	5,309	32%
BLK 2300	25,201	20,701	82%
BLK 2100	23,035	20,205	88%
South End	22,007	21,605	98%



Planting Plan	Table 4 - Tree Stocking Table							
	Scientific Name	Common Name	Label	North End	BLK 2500	BLK 2300	BLK 2100	South End
	Abies grandis	Grand fir	Ag	24	40	8	1	0
	Pinus contorta	Bigleaf maple	Am	9	34	24	6	0
	Pseudotsuga menziesii	Shore pine	Pc	30	160	80	13	0
	Rhamnus purshiana	Douglas fir	Pm	146	266	153	129	26
	Thuja plicata	Gary oak	Qg	8	32	13	6	0
	Watercourse	Cascara	Rp	2	0	0	23	0
	Restoration area boundary	Western redcedar	Tp	100	114	0	0	0
		Total		319	646	278	178	26
Total				319	646	278	178	26

City of Surrey

North arrow pointing up.

Page 3

Campbell Heights
Restoration Plan
Tree Planting Plan

ENKON Environmental Ltd.

Map Created: April 2015
Revision 1: June 6, 2015
Projection:
NAD 83, Zone 10N



Fall 2014 Monitoring Results

InvasiveSpecies

- Himalayan blackberry
- Japanese knotweed
- Scotch broom
- Watercourse
- Restoration area boundary

LTM2 Map Details

REQ #1220-040-2016-020 for Vegetation Maintenance Services

Restoration Zone	Invasive Species (m²)
North End	751
BLK 2500	8,712
BLK 2300	173
BLK 2100	1,387
South End	179

**Campbell Heights
Restoration Plan
Invasive Species
Management**

City of Surrey

Page 4

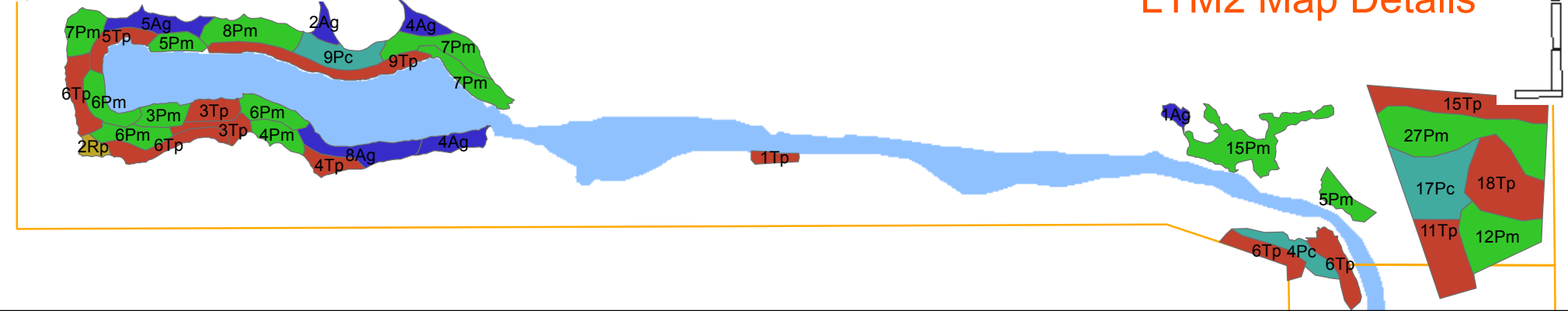
Prepared by:
ENKON
Environmental Ltd.

Map Created:
April 2015
Projection:
NAD 83, Zone 10N

Page 32 of 62

Tree Planting Plan - North End

1:1,450

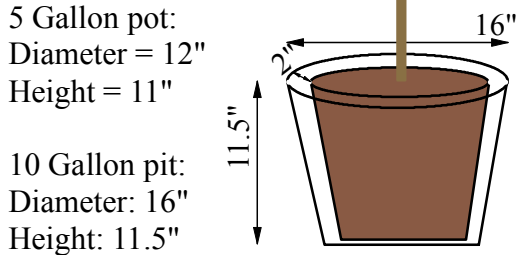


LTM2 Map Details

Specification and Notes:

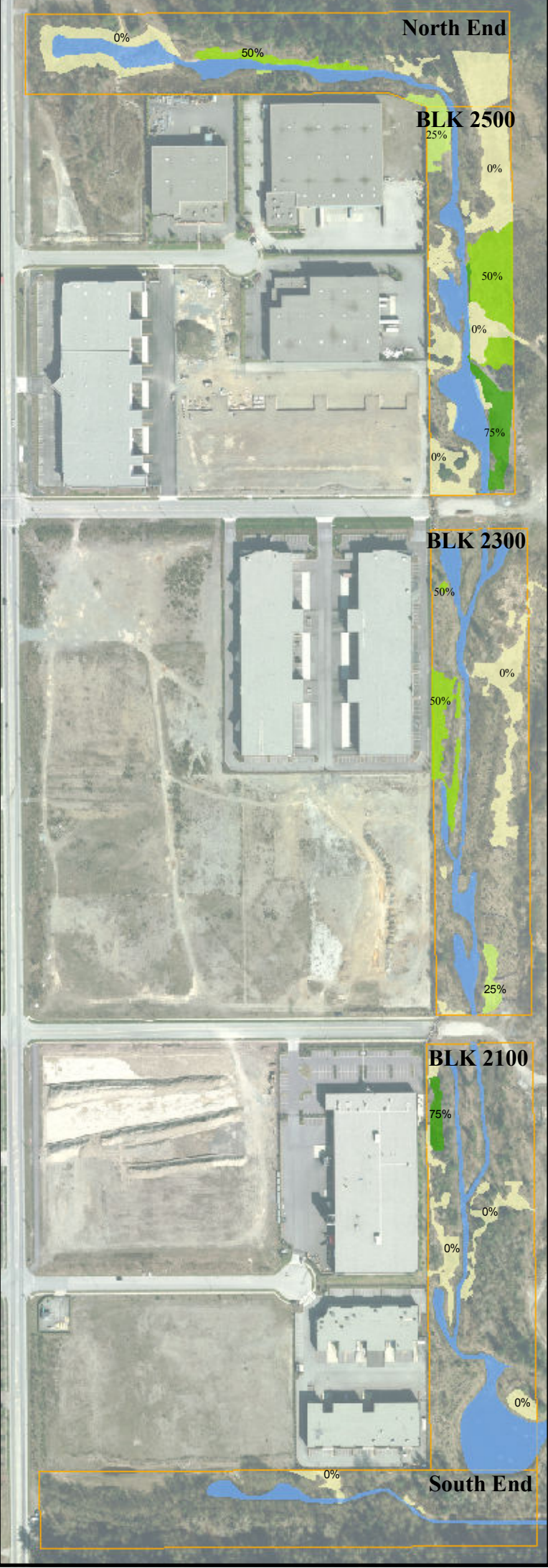
- 1.) Year 1 tree planting is limited to the North End and BLK 2500 planting areas. Trees to be planted within areas where the existing tree establishment status is between 0% and 25%.
- 2.) Trees to be pocket planted. Garden mix top soil (BCLNA P1 Standard) to be used for pocket planting soil augmentation. See Pocket Planting Detail for pocket planting specifications.
- 3.) All planted stock shall be guaranteed nursery stock. Stock shall be inspected and approved by ENKON prior to installation.
- 4.) Packing slips shall be retained and provided to ENKON to assess compliance with the planting plan.
- 5.) Planted stock spacing shall be adjusted to accomodate existing vegetation or coarse woody debris structures (i.e. tree and native shrub retention).
- 6.) All works shall be conducted in accordance with sediment control porivisions of the "Land Development Guidelines for the Protection of Aquatic Habitat" (DFO/MoE).
- 7.) Planted stock shall be inspected by the Owner or Owner's Representative to the end of the warranty period to assess requirements for watering and maintenance/weeding of non-native invasive plant species.
- 8.) Trees to be staked in accordance with BCLNA standard.

Pocket Planting Detail:



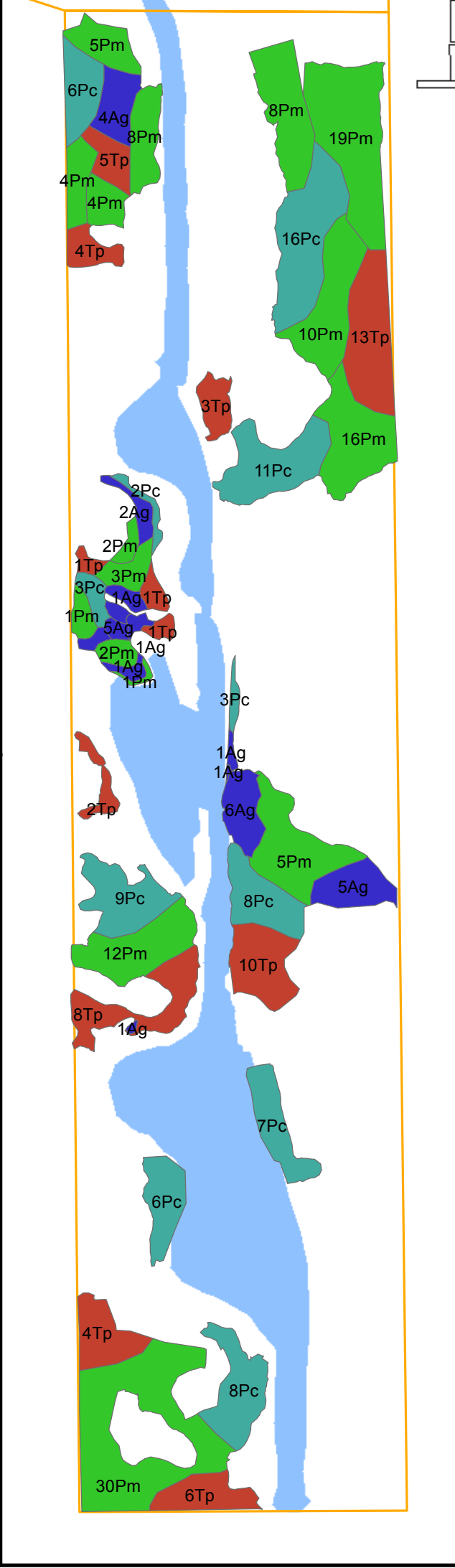
Tree Establishment Status

1:4,250



Tree Planting Plan - BLK 2500

1:1,000



Legend

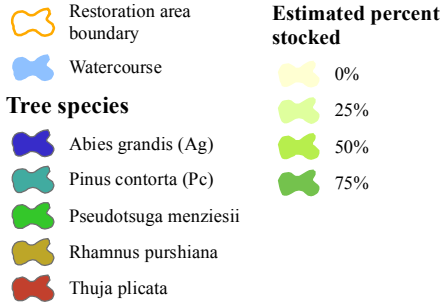


Table 4 - Tree Stocking Table

Scientific Name	Common Name	Label	Pot Size	North End Count	BLK 2500 Count	Total Count
<i>Abies grandis</i>	Grand fir	Ag	#5	17	27	44
<i>Pinus contorta</i>	Shore pine	Pc	#5	25	79	104
<i>Pseudotsuga menziesii</i>	Douglas fir	Pm	#3	91	130	221
<i>Rhamnus purshiana</i>	Cascara	Rp	#5	2	0	2
<i>Thuja plicata</i>	Western redcedar	Tp	#5	71	58	129
Total				206	294	500

City of Surrey

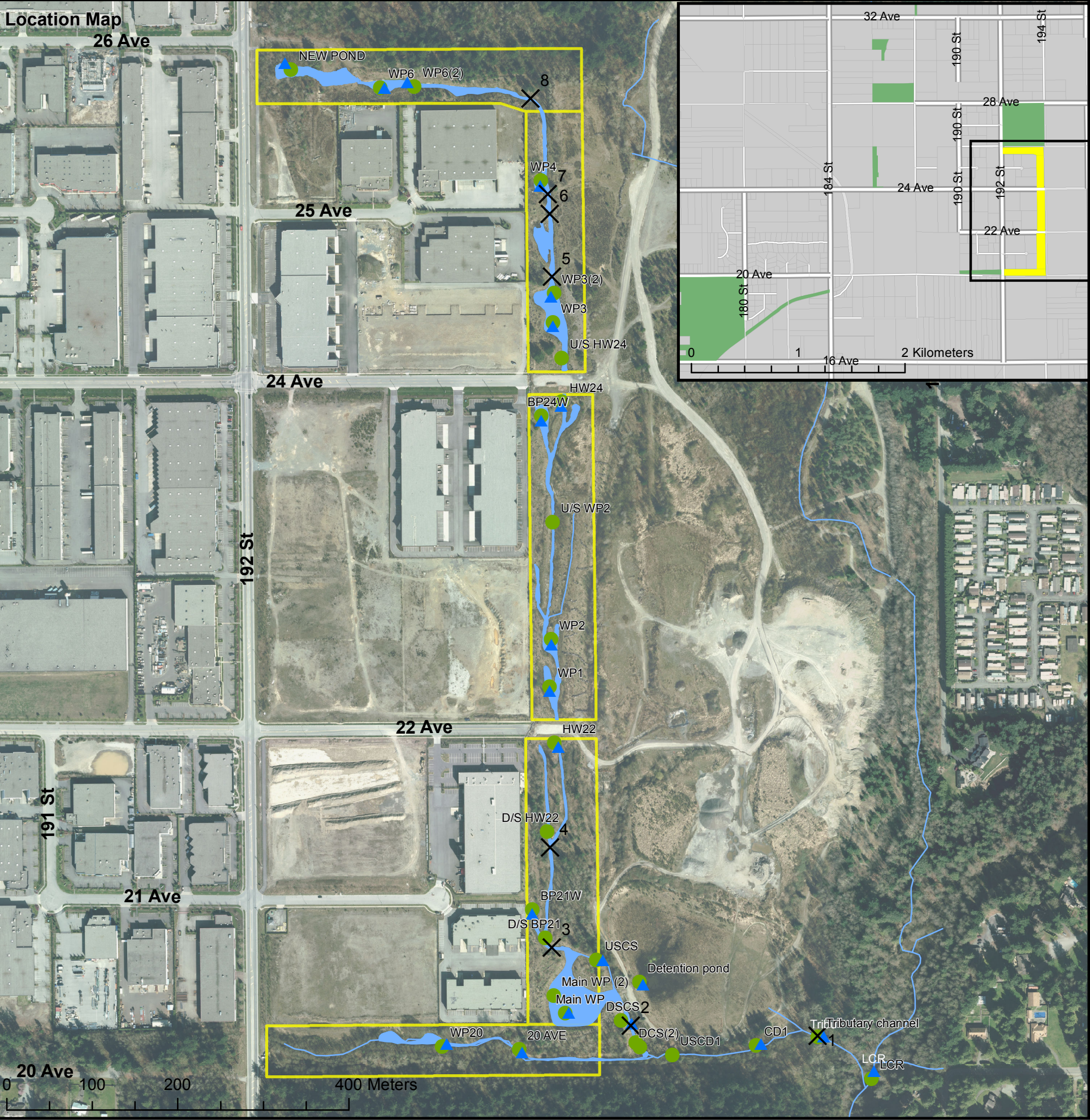


Figure 1

Campbell Heights
Year 1 Restoration
Tree Planting Plan



Map Created:
June 9, 2015
Projection:
NAD 83, Zone 10N

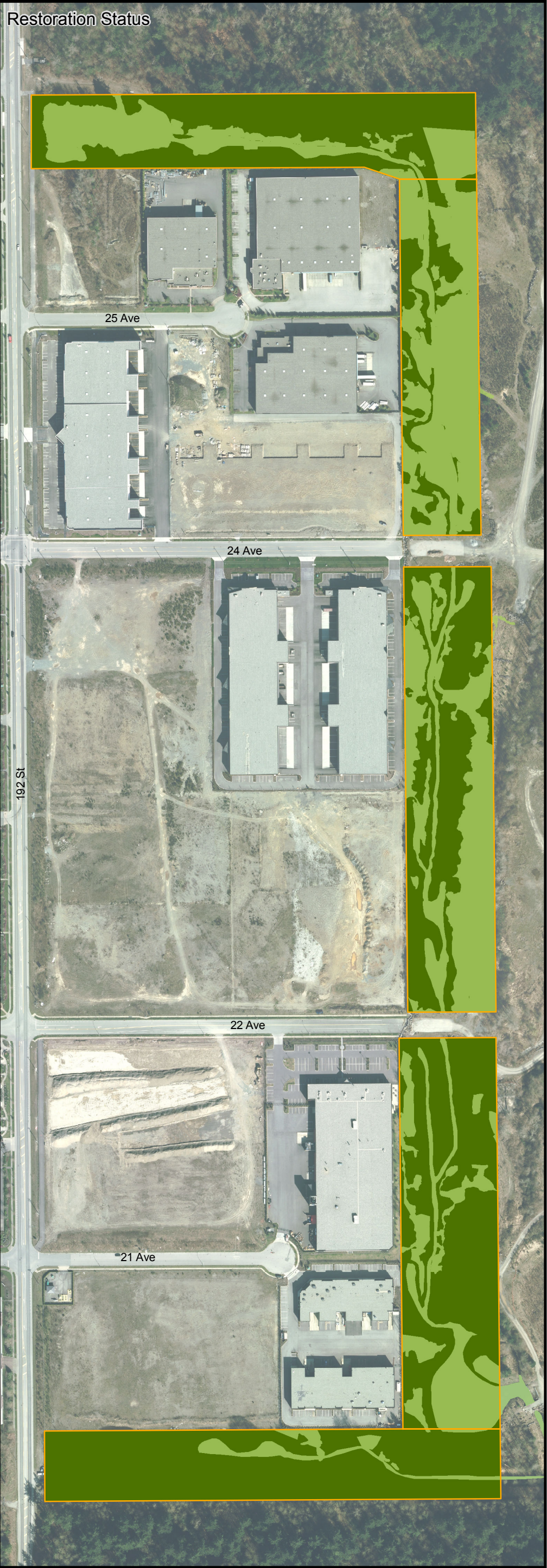


Maintenance Summary
Summer and Fall:
1. Watering requirements are summarized in Table 1.
2. 2016 maintenance will be in accordance with the 5 year restoration plan. A 2016 maintenance plan will be developed in early 2016.

Table 1 – Watering prescription summary
Watering Prescription
All stock planted in 2016 to be watered twice weekly during dry weather periods from May 1 st to October 1 st .

LTM2 Map Details

Legend X Beaver Dams ▲ WQ Monitoring Locations ● Fish Sampling Locations High water mark Approximate restoration area		
Campbell Heights Location and Aquatic Monitoring Map		
City of Surrey	Map Created: December 2015 Projection: NAD 83, UTM Zone 10	
Figure 1		



<p>Legend</p> <ul style="list-style-type: none"> Himalayan blackberry Japanese knotweed Scotch broom Restoration area boundary Restoration complete Restoration incomplete Watercourse	<p> Campbell Heights 2015 Monitoring Results</p>		<p> Prepared by: ENKON Environmental Ltd.</p>	
	<p>City of Surrey</p>			<p>Map Created: December 2015</p>
	<p>Figure 2</p>			<p>Projection: NAD 83, Zone 10N</p>

REQ #1220-040-2016-020 for Vegetation Maintenance Services

LTM2 Map Details

1:3,500

Page 35 of 62

Shrub Establishment Status



Tree Establishment Status



Legend

Estimated percent stocked

- 0%
- 25%
- 50%
- 75%

Tree mortality (count labeled)

Restoration area boundary

Watercourse

REQ #1220-040-2016-020 for Vegetation Maintenance Services

Please note areas not delineated within the restoration boundary above are 100% vegetated with planted stock or pre-existing native vegetation

LTM2 Map Details 1:3,500



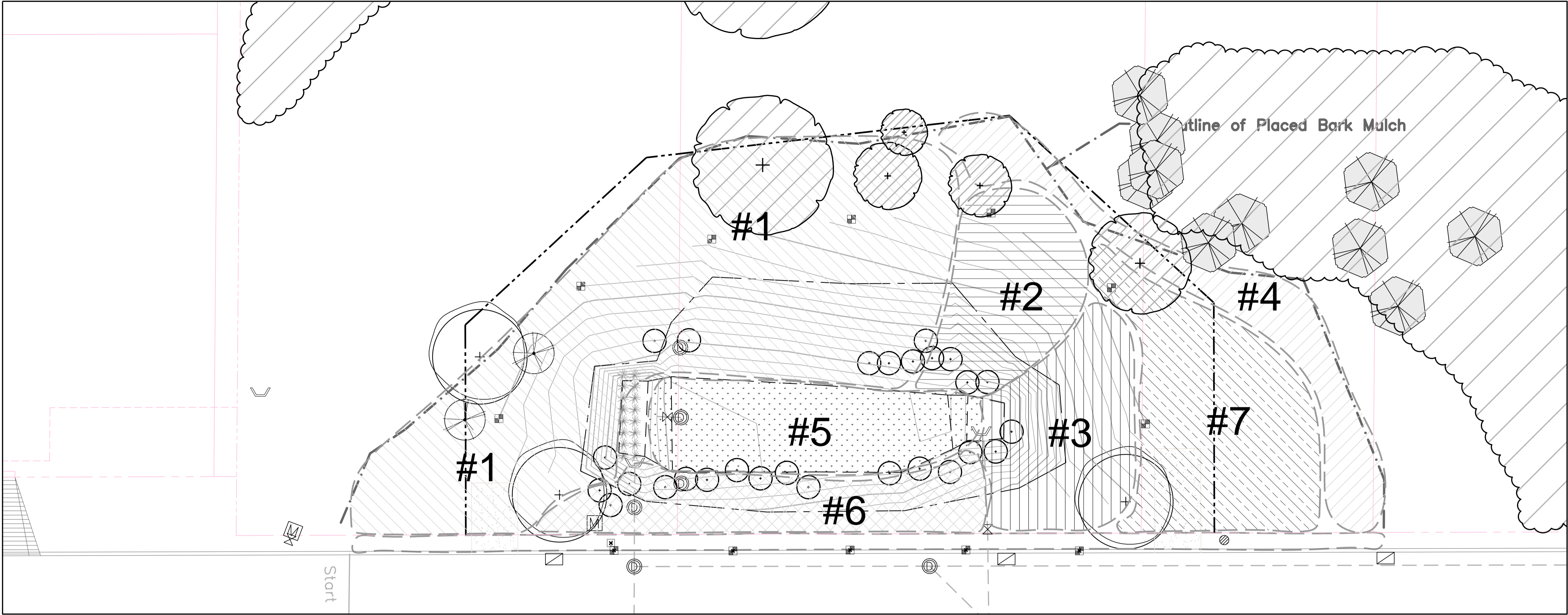
Campbell Heights
2015 Monitoring
Results

City of Surrey

Figure 3



Map Created:
December 2015
Projection:
NAD 83, Zone 10N
Page 36 of 62



BIO-POND NO. 1
1:200

Polygon 1 - 900m2- 100% cover

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Rosa nutkana</i>	Nootka rose	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive (control difficult*) Exotic invasive - not dominant here
<i>Lotus corniculatus</i>	bird's-foot trefoil	Introduced, non-invasive
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	panniced bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover, including grasses (not keyed) clovers and lupines – See Schedule		

* <http://www.kingcounty.gov/environment/animalsAndPlants/noxious-weeds/weed-identification/creeping-buttercup.aspx>

Polygon 2 - 180m2- 100% cover Alder and cottonwood co-dominant

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Picea sitchensis</i>	Sitka spruce	
<i>Salix sitchensis</i>	Sitka willow	
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Lotus corniculatus</i>	bird's-foot trefoil	Introduced, non-invasive
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	panniced bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover, including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 3 - 200m2 – 60% cover - patches of exposed (deep) mulch

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	some root fragment regeneration
<i>Acer circinatum</i>	vine maple	
<i>Picea sitchensis</i>	Sitka spruce	
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Corylus cornuta californica</i>	beaked hazel	
<i>Physocarpus opulifolius</i>	Pacific ninebark	
<i>Juncus effusus</i>	common rush	
Herbaceous ground cover, including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 4 - 200m2 – 100% cover – Alder regeneration dominated

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	strong root fragment regeneration
Herbaceous ground cover, including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 5 – 200m2 – 85% cover – standing water

Botanical name	Common Name	Comments
<i>Juncus effusus</i>	common rush	dominant
<i>Typha latifolia</i>	cattail	

Polygon 6 – 190m2 – 100% cover – Alder regeneration dominated

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	strong root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
Herbaceous ground cover, including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 7 – 300m2 – 100% cover

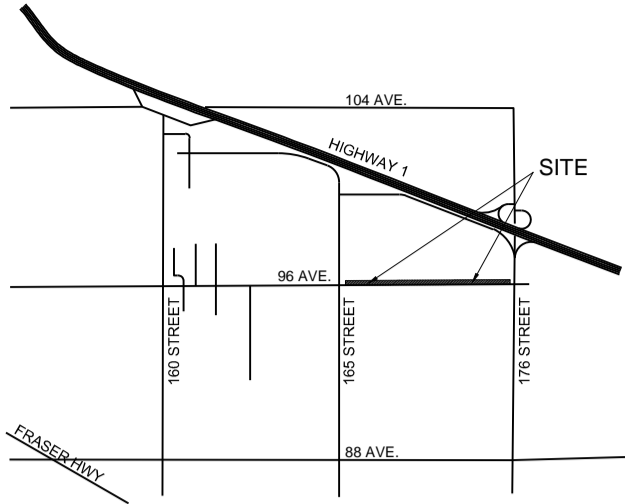
Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	some root fragment regeneration
<i>Chamaecyparis nootkatensis</i>	yellow cedar	Planted in Error
<i>Oemleria cerasiformis</i>	Indian plum	
<i>Corylus cornuta californica</i>	beaked hazel	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
Herbaceous ground cover, including grasses (not keyed) clovers and lupines – See Schedule		

Herbaceous Ground Cover

<i>Agrostis gigantea</i>	Red Top
<i>Festuca rubra 'arenaria'</i>	Creeping Red Fescue
<i>Festuca trachyphylla</i>	Hard Fescue
<i>Lolium perenne</i>	Low Growing Perennial Ryegrass
<i>Lupinus polyphyllus</i>	Russell Lupine
<i>Poa compressa</i>	Canada Bluegrass
<i>Trifolium hybridum</i>	Native Red Fescue
<i>Trifolium pratense</i>	S.C. Red Clover

General Notes:

- Field work completed June 28, 2012
- Original planting completed Fall/Winter 2010-2011. Woody planting density provided at 1 plant per 2.25m2 together with small caliper tree planting over-storey where shown. Seeding mixture application on underlying soils prior to provision of 70mm shredded mulch and re-applied following planting and mulch.
- Remedial planting in Spring 2011 and Fall 2011. Deficient *Cornus nuttallii* replaced with *Acer circinatum*.
- Polygon plant lists arranged from the highest plant occurrences to the least.
- 84% planted area has 100% coverage over mulch/grade.
- 16% (balance of area) planted area has greater than 60% coverage over mulch/pebble drainage surface material/grade.
- Alder and Cottonwood co-dominant areas have woody planted density of 1 plant per 1m2.
- Other areas have woody planted density meeting or exceeding original planted density.



Key Plan

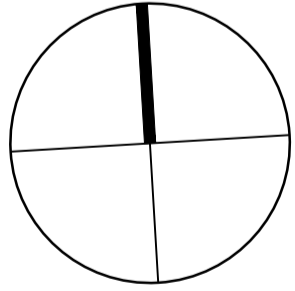
General Notes

LEGEND

- EXISTING VEGETATION TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING DECIDUOUS TREE TO REMAIN
- RESTORATION PLANTING PLANT POLYGON KEY
- RESTORATION PLANTING B&B / POTTED WOODY MATERIAL
- RESTORATION PLANTING PLANTED POLYGONS
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2	2012-09-07	AS-BUILT PLANTED POLYGONS	FB
1	2011-03-28	OUTLINE OF PLANTED AREAS	FB
Rev.	Date	Description	Initial

frank basciano landscape architect
LANDSCAPE ARCHITECTURE - PARK PLANNING & DESIGN
URBAN DESIGN - PROJECT MANAGEMENT
PHONE (250) 739 9160 - FAX (250) 933 5562



NOT FOR CONSTRUCTION UNLESS SIGNED
Professional Certification

As-Built	Issued for	Scale	1 : 200
July 09, 2012	Issue date	FLB	WJM
10-270	Project no.	Drawn by	Checked by

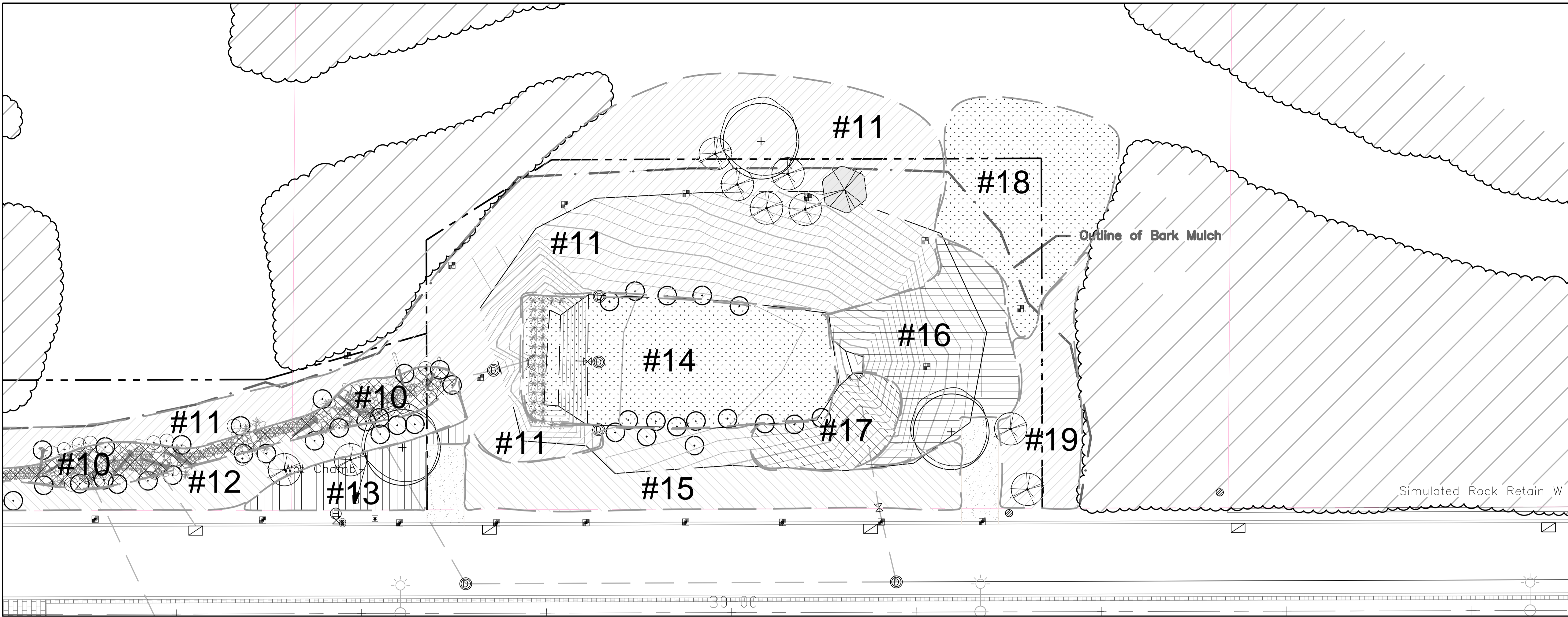
Tynehead Regional Park
96th Avenue Bio-Pond No 1

Surrey, British Columbia
Project

As-Built Planting Plan

Drawing #
AB-L5.1
Sheet no.

LTM 6 Map Details



Polygon 10 - 245m2 – 80% cover – Ditch – Grass dominated

Botanical name	Common Name	Comments
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	Exotic, not invasive here
<i>Rumex crispus</i>	curly dock	
Herbaceous ground cover including grasses (not keyed) – See Schedule		

Polygon 11 - 1550m2 – 100% cover Alder dominant

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Picea sitchensis</i>	Sitka spruce	
<i>Corylus cornuta</i>	beaked hazel	
<i>Oemalaria cerasifloris</i>	Indian plum	
<i>Physocarpus capitatus</i>	Pacific ninebark	
<i>Rosa spp</i>	native rose	<i>gymnocarpa</i> or <i>nutkana</i>
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Rubus discolor</i>	Himalayan blackberry	Beginning to invade from off-site
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	pannicked bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 12 – 340m2 – 100% cover Alder dominant

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Picea sitchensis</i>	Sitka spruce	
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	pannicked bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Herbaceous Ground Cover

<i>Agrostis gigantea</i>	Red Top
<i>Festuca rubra 'arenaria'</i>	Creeping Red Fescue
<i>Festuca trachyphylla</i>	Hard Fescue
<i>Lolium perenne</i>	Low Growing Perennial Ryegrass
<i>Lupinus polyphyllus</i>	Russell Lupine
<i>Poa compressa</i>	Canada Bluegrass
<i>Trifolium hybridum</i>	Native Red Fescue
<i>Trifolium pratense</i>	S.C. Red Clover

Polygon 13 - 110m2– 65% cover

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Rosa gymnocarpa</i>	bald-hip rose	
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Corylus cornuta</i>	beaked hazel	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	pannicked bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 14 - 25m2– 100% cover – small pond - standing water - algae dominated

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	margins
<i>algae</i>		

Polygon 14(A) - 425m2 – 100% cover – standing water - cattail dominated

Botanical name	Common Name	Comments
<i>Juncus effusus</i>	common rush	
<i>Typha latifolia</i>	cattail	dominant

Polygon 15 - 340m2 – 100% cover

Botanical name	Common Name	Comments
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Rosa gymnocarpa</i>	bald-hip rose	
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Lonicera involucrata</i>	Twin-berry	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	pannicked bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 16 - 275m2– 100% cover

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Picea sitchensis</i>	Sitka spruce	
<i>Ramnus purshiana</i>	cascara	
<i>Rubus discolor</i>	Himalayan blackberry	Starting to invade from off-site
<i>Lonicera involucrata</i>	Twin-berry	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Epilobium palustre</i>	marsh willowherb	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive – high density
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 17 - 105m2 – 100% cover

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Acer circinatum</i>	Vine maple	
<i>Ramnus purshiana</i>	cascara	
<i>Rubus discolor</i>	Himalayan blackberry	Starting to invade from off-site
<i>Rosa nutkana</i>	Nootka rose	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

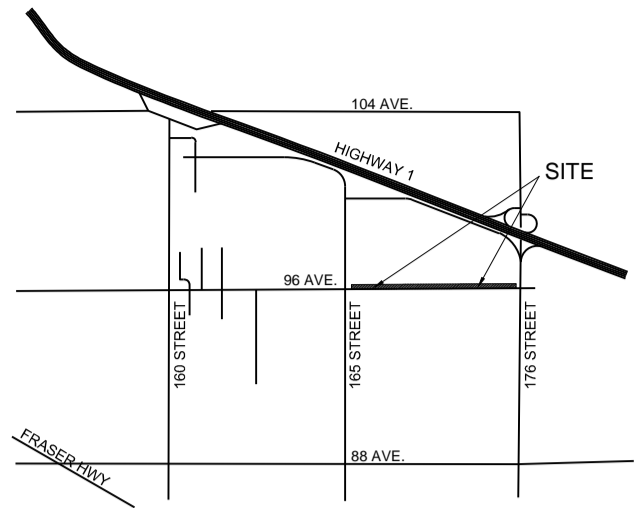
Polygon 18 - 330m2 – 100% cover Grass- and rush-dominated

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Picea sitchensis</i>	Sitka spruce	
<i>Rubus discolor</i>	Himalayan blackberry	Starting to invade from off-site
<i>Juncus effusus</i>	common rush	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive high density
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 19 - 170m2 – 100% cover Grass- and rush-dominated

Botanical name	Common Name	Comments
<i>Ainus rubra</i>	red alder	Planted and root fragment regeneration
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Physocarpus capitatus</i>	Pacific ninebark	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

- General Notes:
- Field work completed June 28, 2012
 - Original planting completed Fall/Winter 2010-2011. Woody planting density provided at 1 plant per 2.25m2 together with small caliper tree planting over-storey where shown. Seeding mixture application on underlying soils prior to provision of 70mm shredded mulch and re-applied following planting and mulch.
 - Remedial planting in Spring 2011 and Fall 2011. Deficient *Cornus nuttalli* replaced with *Acer circinatum*.
 - Polygon plant lists arranged from the highest plant occurrences to the least.
 - 84% planted area has 100% coverage over mulch/grade.
 - 16% (balance of area) planted area has greater than 60% coverage over mulch/pebble drainage surface material/grade.
 - Alder and Cottonwood co-dominant areas have woody planted density of 1 plant per 1m2.
 - Other areas have woody planted density meeting or exceeding original planted density.



Key Plan

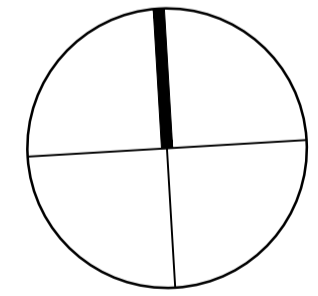
General Notes

LEGEND

- EXISTING VEGETATION TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING DECIDUOUS TREE TO REMAIN
- RESTORATION PLANTING PLANT POLYGON KEY
- RESTORATION PLANTING B&B / POTTED WOODY MATERIAL
- RESTORATION PLANTING PLANTED POLYGONS
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2	2012-09-07	AS-BUILT PLANTED POLYGONS	FB
1	2011-03-28	OUTLINE OF PLANTED AREAS	FB
Rev.	Date	Description	Initial

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Issued for	1 : 250
July 09 2012	Scale
10-269	FLB WJM
Project no.	Drawn by Checked by

Tynehead Regional Park
96th Avenue Bio-Pond No. 2

Surrey, British Columbia
Project

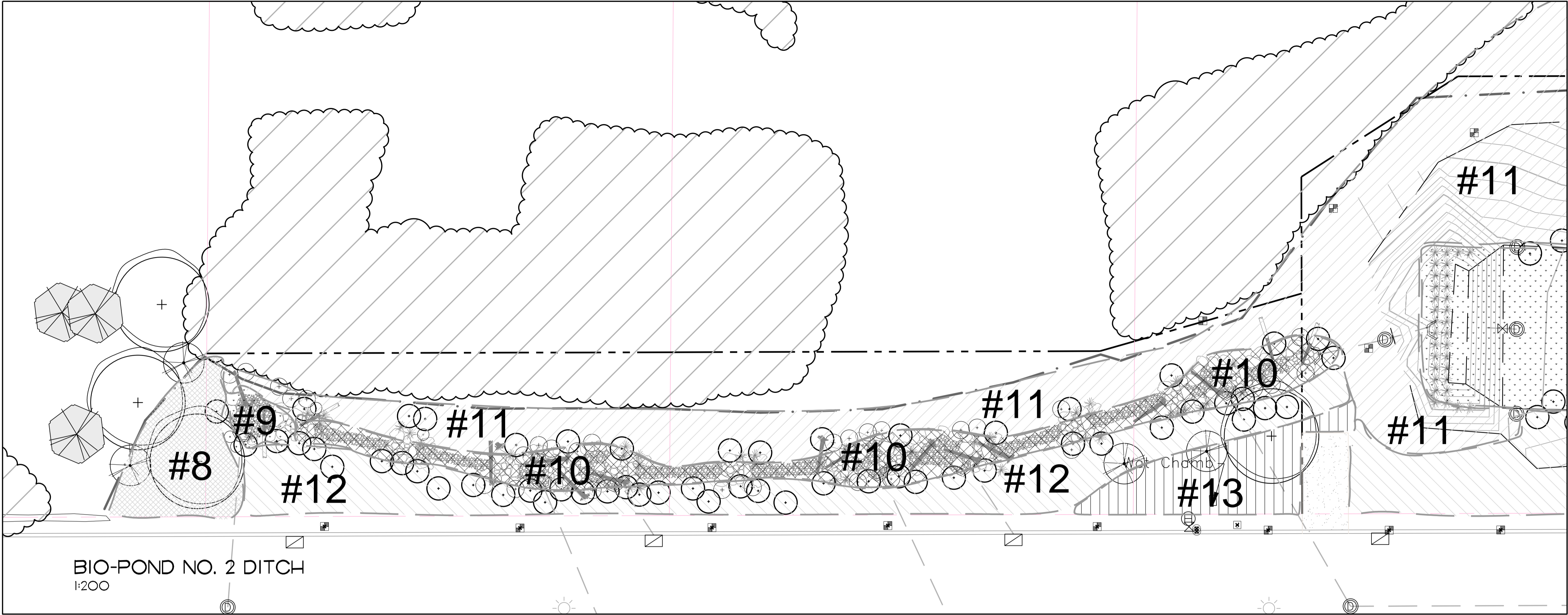
As-Built Planting Plan

Drawing #

AB-L5.2

2

LTM 6 Map Details



Polygon 8 - 105m2 – 70% cover - patches of exposed mulch Alder dominant

Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	Planted and root fragment regeneration
<i>Cornus X 'E. White Wonder'</i>	EWV dogwood	Hybrid: mistaken/subbed for <i>C. nuttallii</i> ?
<i>Picea sitchensis</i>	Sitka spruce	
<i>Acer circinatum</i>	vine maple	
<i>Rubus discolor</i>	Himalayan blackberry	Beginning to invade from off-site
<i>Rubus spectabilis</i>	salmonberry	
<i>Symphoricarpos albus</i>	snowberry	
<i>Physocarpus capiatatus</i>	Pacific ninebark	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Athyrium filix-femina</i>	lady fern	
<i>Polygonum cuspidatum</i>	Japanese knotweed	Invasive exotic – smaller clump
<i>Digitalis purpurea</i>	foxglove	Exotic, not invasive
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 9 - 20m2 – 100% cover – Pond 2 Ditch – Cattail dominated

Botanical name	Common Name	Comments
<i>Typha latifolia</i>	cattail	dominant
<i>Juncus effusus</i>	common rush	
<i>Epilobium palustre</i>	marsh willowherb	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
Herbaceous ground cover including grasses (not keyed) clovers and lupines		

Polygon 10 - 245m2 – 80% cover – Ditch – Grass dominated

Botanical name	Common Name	Comments
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Rumex crispus</i>	curly dock	Exotic, not invasive here
Herbaceous ground cover including grasses (not keyed) – See Schedule		

Polygon 11 - 1550m2 – 100% cover Alder dominant

Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	Planted and root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Picea sitchensis</i>	Sitka spruce	
<i>Corylus cornuta</i>	beaked hazel	
<i>Oemalaria cerasifloris</i>	Indian plum	
<i>Physocarpus capitatus</i>	Pacific ninebark	
<i>Rosa spp</i>	native rose	<i>gymnocarpa</i> or <i>nuttkana</i>
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Rubus discolor</i>	Himalayan blackberry	Beginning to invade from off-site
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	panniced bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 12 - 340m2 – 100% cover Alder dominant

Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	Planted and root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Picea sitchensis</i>	Sitka spruce	
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	panniced bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 13 - 110m2 – 65% cover Exposed mulch – service area compaction?

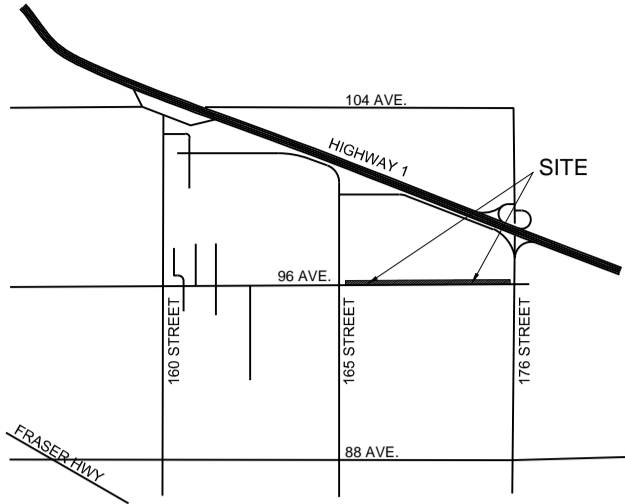
Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	Planted and root fragment regeneration
<i>Rosa gymnocarpa</i>	bald-hip rose	
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Corylus cornuta</i>	beaked hazel	
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive - not dominant here
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
<i>Juncus effusus</i>	common rush	
<i>Scirpus microcarpus</i>	panniced bulrush	
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Herbaceous Ground Cover

<i>Agrostis gigantea</i>	Red Top
<i>Festuca rubra 'arenaria'</i>	Creeping Red Fescue
<i>Festuca trachyphylla</i>	Hard Fescue
<i>Lolium perenne</i>	Low Growing Perennial Ryegrass
<i>Lupinus polyphyllus</i>	Russell Lupine
<i>Poa compressa</i>	Canada Bluegrass
<i>Trifolium hybridum</i>	Native Red Fescue
<i>Trifolium pratense</i>	S.C. Red Clover

General Notes:

- Field work completed June 28, 2012
- Original planting completed Fall/Winter 2010-2011. Woody planting density provided at 1 plant per 2.25m2 together with small caliper tree planting over-storey where shown. Seeding mixture application on underlying soils prior to provision of 70mm shredded mulch and re-applied following planting and mulch.
- Remedial planting in Spring 2011 and Fall 2011. Deficient *Cornus nuttallii* replaced with *Acer circinatum*.
- Polygon plant lists arranged from the highest plant occurrences to the least.
- 84% planted area has 100% coverage over mulch/grade.
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- Alder and Cottonwood co-dominant areas have woody planted density of 1 plant per 1m2.
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Key Plan

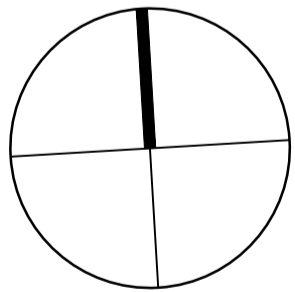
General Notes

LEGEND

- EXISTING VEGETATION TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING DECIDUOUS TREE TO REMAIN
- RESTORATION PLANTING PLANT POLYGON KEY
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2	2012-09-07	AS-BUILT PLANTED POLYGONS	FB
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Issued for:
July 09, 2012
Scale: 1 : 200

10-269	FLB	WJM
Project no.	Drawn by	Checked by

Tynehead Regional Park
96th Avenue Bio-Pond No. 2 Ditch

Surrey, British Columbia
Project

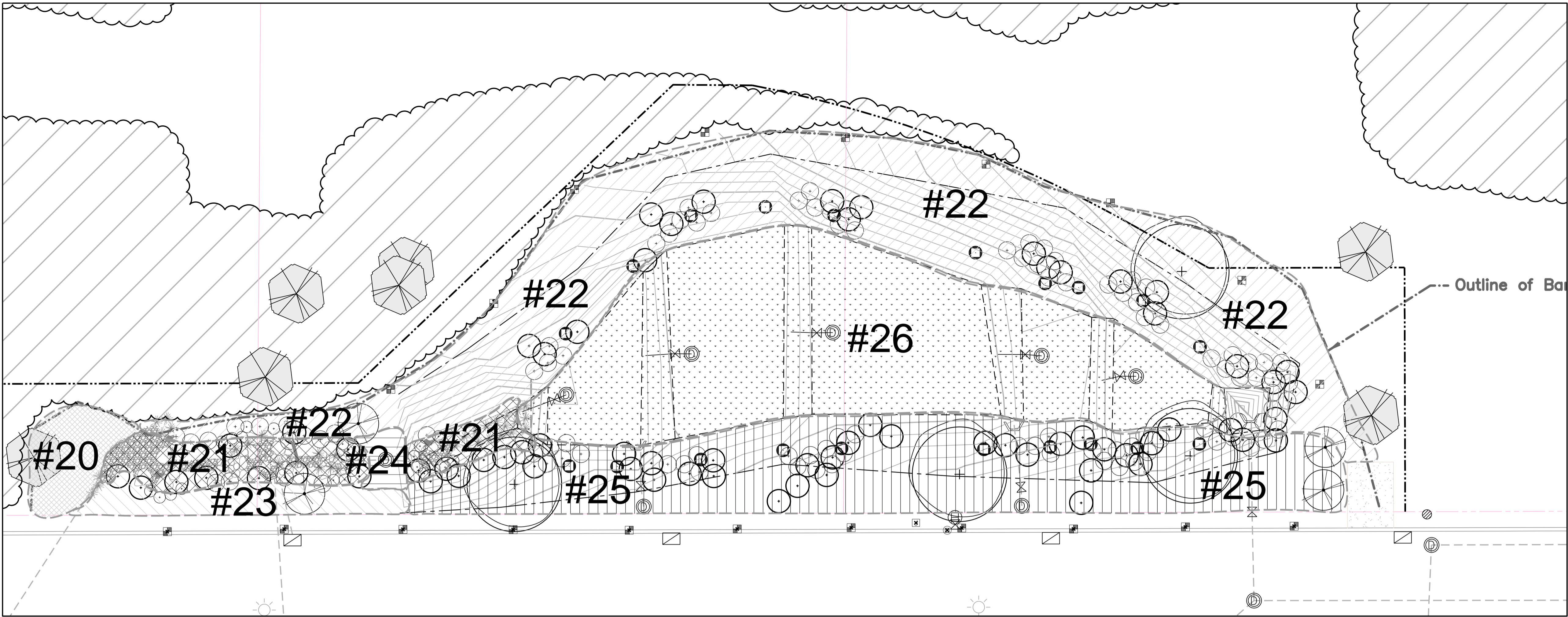
As-Built Planting Plan

Drawing #

AB-L5.3

2

LTM 6 Map Details



Polygon 20 - 60m2 – 65% cover – some exposed mulch		
Botanical name	Common Name	Comments
<i>Symphoricarpos albus</i>	snowberry	
<i>Rosa gymnocarpa</i>	bald-hip rose	
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Lonicera involucrata</i>	Twin-berry	
<i>Physocarpus capitatum</i>	Pacific ninebark	
<i>Rubus discolor</i>	Himalayan blackberry	Starting to invade
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 21 - 90m2 – 80% cover – Ditch – Grass dominated		
Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	root fragment regeneration
<i>Salix sitchensis</i>	Sitka willow	
<i>Carex spp (stipata?)</i>	common fox sedge	
<i>Typha latifolia</i>	cattail	
Herbaceous ground cover including grasses (not keyed) – See Schedule		

Polygon 22 - 900m2 – 100% cover		
Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Thuja plicata</i>	Western redcedar	
<i>Corylus cornuta</i>	beaked hazel	
<i>Rubus parviflorus</i>	thimbleberry	
<i>Symphoricarpos albus</i>	snowberry	
<i>Lonicera involucrata</i>	Twin-berry	
<i>Physocarpus capitatum</i>	Pacific ninebark	
<i>Rubus discolor</i>	Himalayan blackberry	Significant invasion
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 23 - 70m2 – 100% cover		
Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	Planted and root fragment regeneration
<i>Acer circinatum</i>	Vine maple	
<i>Thuja plicata</i>	Western redcedar	
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Scirpus microcarpus</i>	panniced bulrush	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

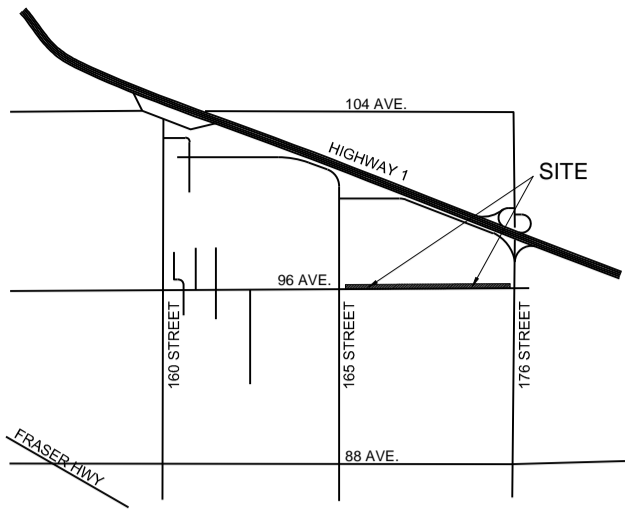
Polygon 24 - 20m2 – 100% cover		
Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	Planted and root fragment regeneration
<i>Rhamnus purshiana</i>	casacara	
<i>Ribes bracteosum</i>	stink currant	
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 25 - 560m2 – 100% cover – Alder dominated		
Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	root fragment regeneration
<i>Acer circinatum</i>	Vine maple	
<i>Cornus X 'E. White Wonder'</i>	EWWDogwood	
<i>Ribes bracteosum</i>	stink currant	
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Physocarpus capitatum</i>	Pacific ninebark	
<i>Scirpus microcarpus</i>	panniced bulrush	
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 26 - 900m2 – 100% cover – standing water - cattail dominated		
Botanical name	Common Name	Comments
<i>Juncus effusus</i>	common rush	
<i>Typha latifolia</i>	cattail	dominant
<i>Stachys colleyae</i>	Cooley's hedge nettle	

Herbaceous Ground Cover	
<i>Agrostis gigantea</i>	Red Top
<i>Festuca rubra 'arenaria'</i>	Creeping Red Fescue
<i>Festuca trachyphylla</i>	Hard Fescue
<i>Lolium perenne</i>	Low Growing Perennial Ryegrass
<i>Lupinus polyphyllus</i>	Russell Lupine
<i>Poa compressa</i>	Canada Bluegrass
<i>Trifolium hybridum</i>	Native Red Fescue
<i>Trifolium pratense</i>	S.C. Red Clover

- General Notes:
- Field work completed June 28, 2012
 - Original planting completed Fall/Winter 2010-2011. Woody planting density provided at 1 plant per 2.25m2 together with small caliper tree planting over-storey where shown. Seeding mixture application on underlying soils prior to provision of 70mm shredded mulch and re-applied following planting and mulch.
 - Remedial planting in Spring 2011 and Fall 2011. Deficient *Cornus nuttallii* replaced with *Acer circinatum*.
 - Polygon plant lists arranged from the highest plant occurrences to the least.
 - 84% planted area has 100% coverage over mulch/grade.
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 - Alder and Cottonwood co-dominant areas have woody planted density of 1 plant per 1m2.
 - Other areas have woody planted density meeting or exceeding original planted density.



Key Plan

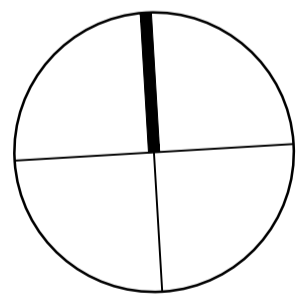
General Notes

LEGEND

- EXISTING VEGETATION TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING DECIDUOUS TREE TO REMAIN
- RESTORATION PLANTING PLANT POLYGON KEY
- RESTORATION PLANTING B&B / POTTED WOODY MATERIAL
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Professional Certification

As-Built	
Issued for	July 09, 2012
Issue date	10-269
Project no.	FLB
Drawn by	WJM
Checked by	

Tynehead Regional Park
96th Avenue Bio-Pond No 3

Surrey, British Columbia

Project

As-Built Planting Plan

Drawing #

AB-L5.4

Sheet no.

2

LTM 6 Map Details



Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Thuja plicata</i>	Western redcedar	
<i>Oemleria cerasiformis</i>	Indian plum	
<i>Picea sitchensis</i>	Sitka spruce	
<i>Cornus sericea (stolonifera)</i>	red-osier dogwood	
<i>Physocarpus capitatum</i>	Pacific ninebark	
<i>Ribes bracteosum</i>	stink currant	
<i>Scirpus microcarpus</i>	pannicled bulrush	
<i>Polygonum cuspidatum</i>	Japanese knotweed	
<i>Rumex crispus</i>	curly dock	Exotic, not invasive here
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

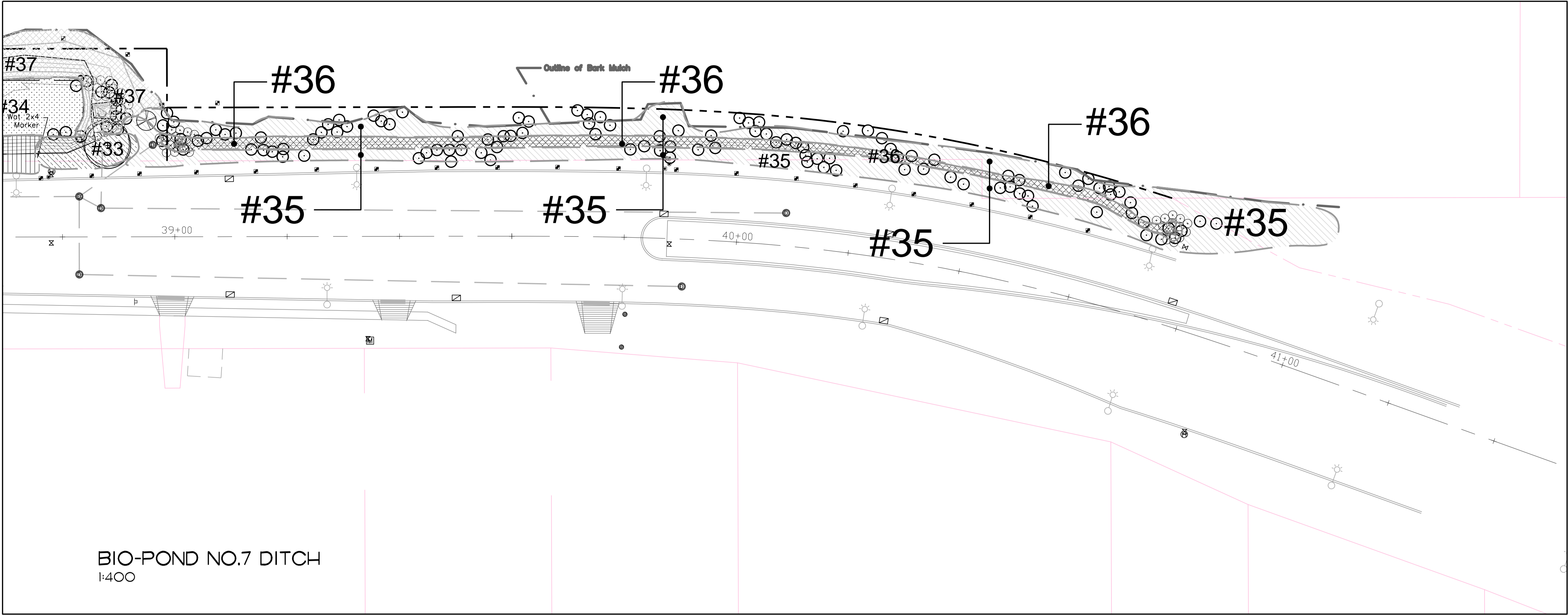
Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	Planted and root fragment regeneration
<i>Populus balsamifera trichocarpa</i>	cottonwood	
<i>Thuja plicata</i>	Western redcedar	
<i>Lonicera involucrata</i>	Twin-berry	
<i>Lotus corniculatus</i>	bird's-foot trefoil	
<i>Ribes bracteosum</i>	stink currant	
<i>Scirpus microcarpus</i>	panmicked bulrush	
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
<i>Carex spp (stipata?)</i>	common fox sedge	
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Botanical name	Common Name	Comments
<i>Juncus effusus</i>	common rush	
<i>Typha latifolia</i>	cattail	dominant

<i>Agrostis gigantea</i>	Red Top
<i>Festuca rubra</i> 'arenaria'	Creeping Red Fescue
<i>Festuca trachyphylla</i>	Hard Fescue
<i>Lolium perenne</i>	Low Growing Perennial Ryegrass
<i>Lupinus polyphyllus</i>	Russell Lupine
<i>Poa compressa</i>	Canada Bluegrass
<i>Trifolium hybridum</i>	Native Red Fescue
<i>Trifolium pratense</i>	S.C. Red Clover

1. Field work completed June 28, 2012
2. Original planting completed Fall/Winter 2010-2011. Woody planting density provided at 1 plant per 2.25m² together with small caliper tree planting over-storey where shown. Seeding mixture application on underlying soils prior to provision of 70mm shredded mulch and re-applied following planting and mulch.
3. Remedial planting in Spring 2011 and Fall 2011. Deficient *Cornus nuttallii* replaced with *Acer circinatum*.
4. Polygon plant lists arranged from the highest plant occurrences to the least.
5. 84% planted area has 100% coverage over mulch/grade.
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7. Alder and Cottonwood co-dominant areas have woody planted density of 1 plant per 1m².
8. Other areas have woody planted density meeting or exceeding original planted density.

 $\triangle 2$



Polygon 35 - 1350m2 – 100% cover

Botanical name	Common Name	Comments
<i>Alnus rubra</i>	red alder	Planted and root fragment regeneration
<i>Salix sitchensis</i>	Sitka willow	
<i>Salix hookeriana</i>	Hooker's willow	
<i>Equisetum arvense</i>	common horsetail	Native, appropriate in context
<i>Cirsium arvense</i>	Canada thistle	Exotic invasive
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Polygon 36 - 315m2 – 80% cover – ditch

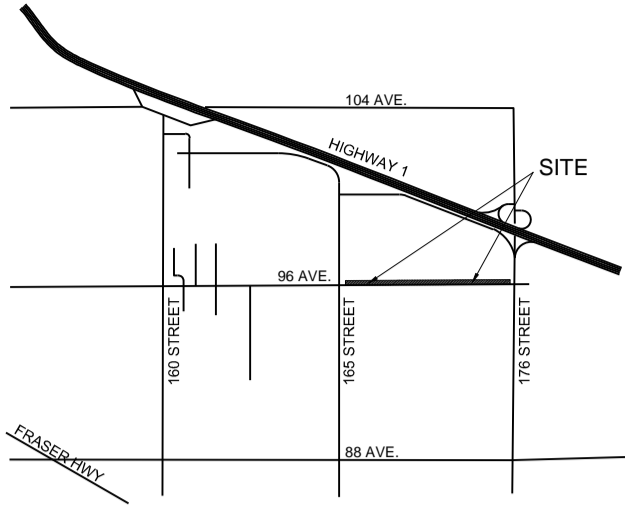
Botanical name	Common Name	Comments
<i>Ranaunculus repens</i>	creeping buttercup	Exotic invasive
Herbaceous ground cover including grasses (not keyed) clovers and lupines – See Schedule		

Herbaceous Ground Cover

<i>Agrostis gigantea</i>	Red Top
<i>Festuca rubra</i> 'arenaria'	Creeping Red Fescue
<i>Festuca trachyphylla</i>	Hard Fescue
<i>Lolium perenne</i>	Low Growing Perennial Ryegrass
<i>Lupinus polyphyllus</i>	Russell Lupine
<i>Poa compressa</i>	Canada Bluegrass
<i>Trifolium hybridum</i>	Native Red Fescue
<i>Trifolium pratense</i>	S.C. Red Clover

General Notes:

- Field work completed June 28, 2012
- Original planting completed Fall/Winter 2010-2011. Woody planting density provided at 1 plant per 2.25m2 together with small caliper tree planting over-storey where shown. Seeding mixture application on underlying soils prior to provision of 70mm shredded mulch and re-applied following planting and mulch.
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Key Plan

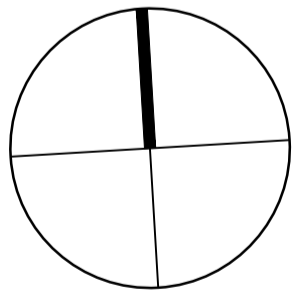
General Notes

LEGEND

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- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING DECIDUOUS TREE TO REMAIN
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2	2012-09-07	AS-BUILT PLANTED POLYGONS	FB
1	2011-03-28	OUTLINE OF PLANTED AREAS	FB
Rev.	Date	Description	Initial

frank basciano landscape architect
LANDSCAPE ARCHITECTURE • PARK PLANNING & DESIGN
URBAN DESIGN • PROJECT MANAGEMENT
PHONE (250) 739 9160 • FAX (250) 933 5562



NOT FOR CONSTRUCTION UNLESS SHOWN

Professional Certification

As-Built

Issued for

July 09, 2012

Issue date

10-269

Project no.

Scale

1 : 200

FLB

WJM

Drawn by

Checked by

Tynehead Regional Park
96th Avenue Bio-Pond No 7 Ditch

Surrey, British Columbia

Project

As-Built Planting Plan

Drawing file

AB-L5.7

Sheet no.

2

LTM 6 Map Details

Location Map



Maintenance Summary

- Summer:**
- 1. No invasive species treatments required.
 - 2. Install beaver guards on all red-osier dogwoods, willows, and trees <20cm diameter at base within planting areas. The majority of trees already have guards.
 - 3. No watering requirements.
- Fall:**
- 1. Trees to be planted at locations shown in figure. Tree layout is to achieve an average of 4 meter spacing between all trees in the planting area. Planting stock is displayed in Table 1.
 - 2. Watering requirements are summarized in Table 2.


Table 1 – Stocking table (prescribed April 2015)			
Common Name	Scientific Name	Count	Size
Sitka spruce	Picea sitchensis	16	#5 pot

Table 2 – Watering prescription summary		
Location	Watering Prescription	# of Plants
2015 plantings	Soak initial plantings and water plants two times a week thereafter during dry weather periods May 1 st to October 1 st .	16
Total		314

Legend

- ✕ Beaver dam locations
- ▲ Water quality monitoring locations
- Fish sampling locations
- Access route (very faint trail)



Highway 15 Location and Aquatic Monitoring Map	Map Created: December 2015	
City of Surrey	Projection: NAD 83, UTM Zone 10	
Figure 1		



<p>Legend</p> <ul style="list-style-type: none">Tree planting locationAccess route (very faint trail) <p>0 25 50 100 Meters</p> <p>LTM8 Map Details</p> <p>Map Created April 16, 2015 by: M. Tutsch NAD 83, Zone 10N</p>	<p>Prepared by: ENKON Environmental Ltd.</p>	<p>LTM Maintenance Recommendations</p> <p>Figure 2</p> <p>City of Surrey</p>
---	---	---

Location Map



Maintenance Summary

- Summer:**
- 1. Invasive species treatments are summarized in Table 2.
 - 2. Watering requirements are summarized in Table 3.
- Fall:**
- 1. Invasive species treatments are summarized in Table 2.
 - 2. Plant as per planting prescription provided in the Year 5 monitoring and maintenance report.
 - 4. Watering requirements are summarized in Table 3.



Table 1 – Stocking table
Follow planting prescription provided in the Year 5 monitoring and maintenance report.

Table 2 – Invasive species maintenance summary					
Location	Species	Area (m ²)	Density	Cane length	Prescription
Treatment A	Himalayan blackberry	200	Recently brushed	0-0.3m	Remove roots and shoots monthly during growing season (Apr.1 – Oct.15).
Treatment A	Himalayan blackberry	28	Medium	0.4-4m	Remove roots and shoots monthly during growing season (Apr.1 – Oct.15).
Treatment A	evergreen blackberry	37	Medium	0.4-4m	Remove roots and shoots monthly during growing season (Apr.1 – Oct.15).
Treatments A and B	reed canarygrass	~	Variable		No treatment
Total		265			

Table 3 – Watering prescription summary		
Location	Watering Prescription	# of Plants (estimate)
2014 plantings	Water plants three times a week during dry weather periods May 1 st to October 1 st .	50
2015 plantings	Soak initial plantings and water plants three times a week thereafter during dry weather periods May 1 st to October 1 st .	264
Total		314

Legend

- ×

 Beaver dam locations
- ▲

 Water quality monitoring locations
- Fish sampling locations
- Restoration area

LTM10 Map Details


Eugene Creek Location and Aquatic Monitoring Map

City of Surrey

Figure 1

Map Created:
September 2015

Projection:
NAD 83, UTM Zone 10



Prepared by:
ENKON
Environmental Ltd.



Eugene Creek
Treatment A and B
Habitat Compensation Area
Monitoring and
Maintenance
2015 Results

City of Surrey

Legend

Restoration area boundary

2014 planting prescription

2015 Monitoring Results

100% stocked

2015 Maintenance

Invasive Removal

Blackberry removal

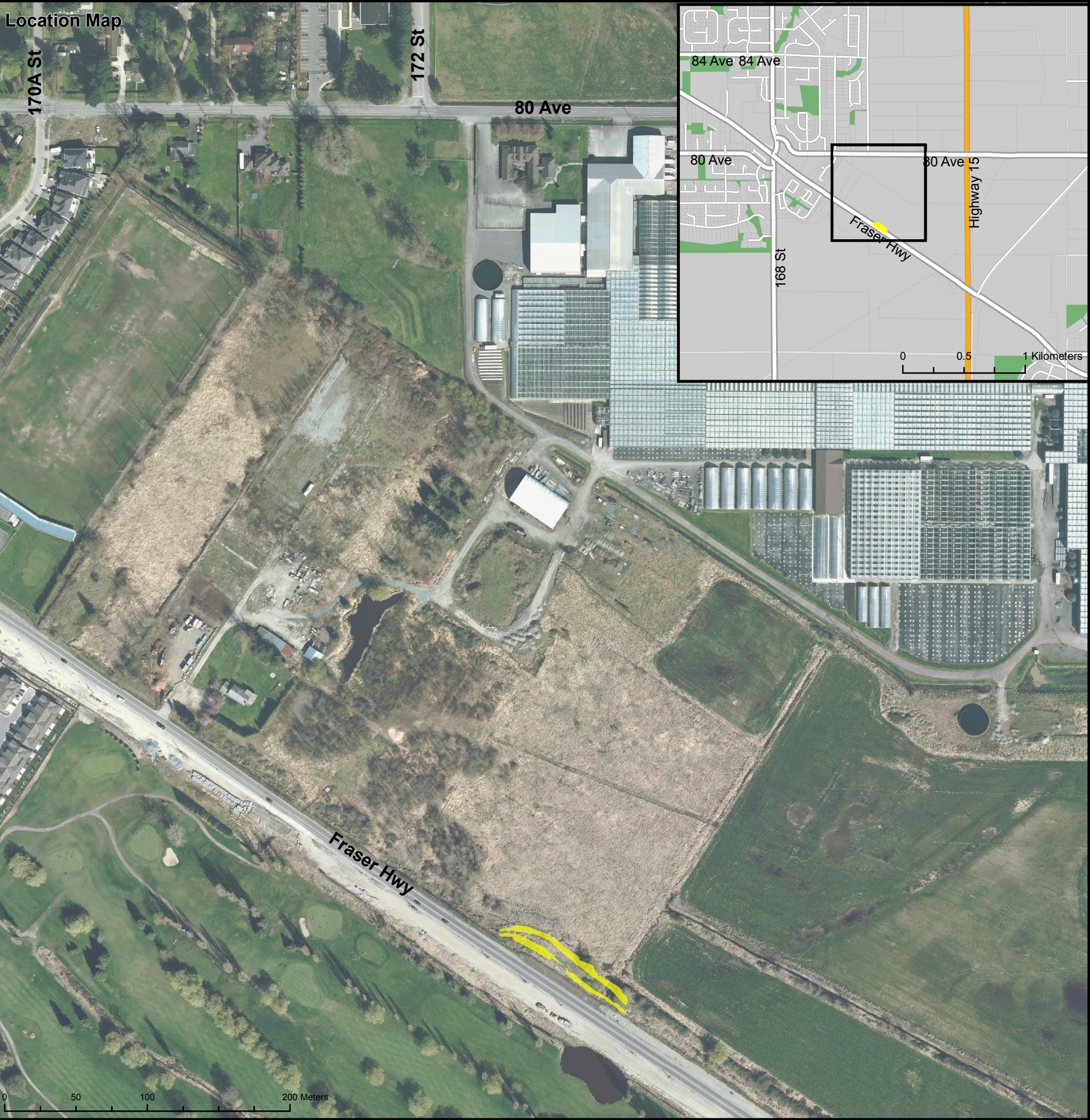


1:1,000

Figure 2

Map Created:
September 2015
Projection:
NAD 83, UTM Zone 10

Location Map



Maintenance Summary

- Summer:**
- 1. Invasive species treatments are summarized in Table 2.
 - 2. Watering requirements are summarized in Table 3.
- Fall:**
- 1. Plant shrubs at 1 metre spacings as necessary to meet the target density of one plant per square metre. Shrubs and trees to be planted as displayed in Figure 2.
 - 2. Invasive species treatments are summarized in Table 2.
 - 3. Watering requirements are summarized in Table 3.

Table 1 – Stocking table

Common Name	Scientific Name	Count	Size
Thimbleberry	<i>Rubus parviflorus</i>	50	#2 pot
Salmonberry	<i>Rubus spectabilis</i>	50	#2 pot
Pacific ninebark	<i>Physocarpus capitatus</i>	198	#2 pot
Sitka willow	<i>Salix sitchensis</i>	100	#2 pot
Black cottonwood	<i>Populus trichocarpa</i>	14	#2 pot
Sitka spruce	<i>Picea sitchensis</i>	7	#5 pot
Western redcedar	<i>Thuja plicata</i>	7	Minimum 2m tall


Table 2 – Invasive species maintenance summary

Location	Species	Area (m²)	Density	Cane length	Prescription
-	Himalayan blackberry	252	High	>4m	Remove roots and shoots monthly during growing season (April 1 – October 15).
-	reed canarygrass	~	Variable		No treatment
Total		154			


Table 3 – Watering prescription summary

Location	Watering Prescription	# of Plants (estimate)
	Soak initial plantings and water three times per week thereafter during dry weather periods between May 1 and October 1.	28 #5 pot trees; 398 #2 pot shrubs

Legend

 Approximate restoration area

LTM14 Map Details

Fraser Highway Widening Location Map	Map Created: September 2015 Projection: NAD 83, UTM Zone 10	
City of Surrey		
Figure 1		



Fraser Highway Widening Monitoring and Maintenance 2015 Results

City of Surrey

Legend

2015 Maintenance

- Blackberry removal
- Planting prescription
- Restoration area

2015 Monitoring Results

Survivorship (%)

100

Notes:

- Plant trees at raised locations
- Plant willow adjacent to watercourse

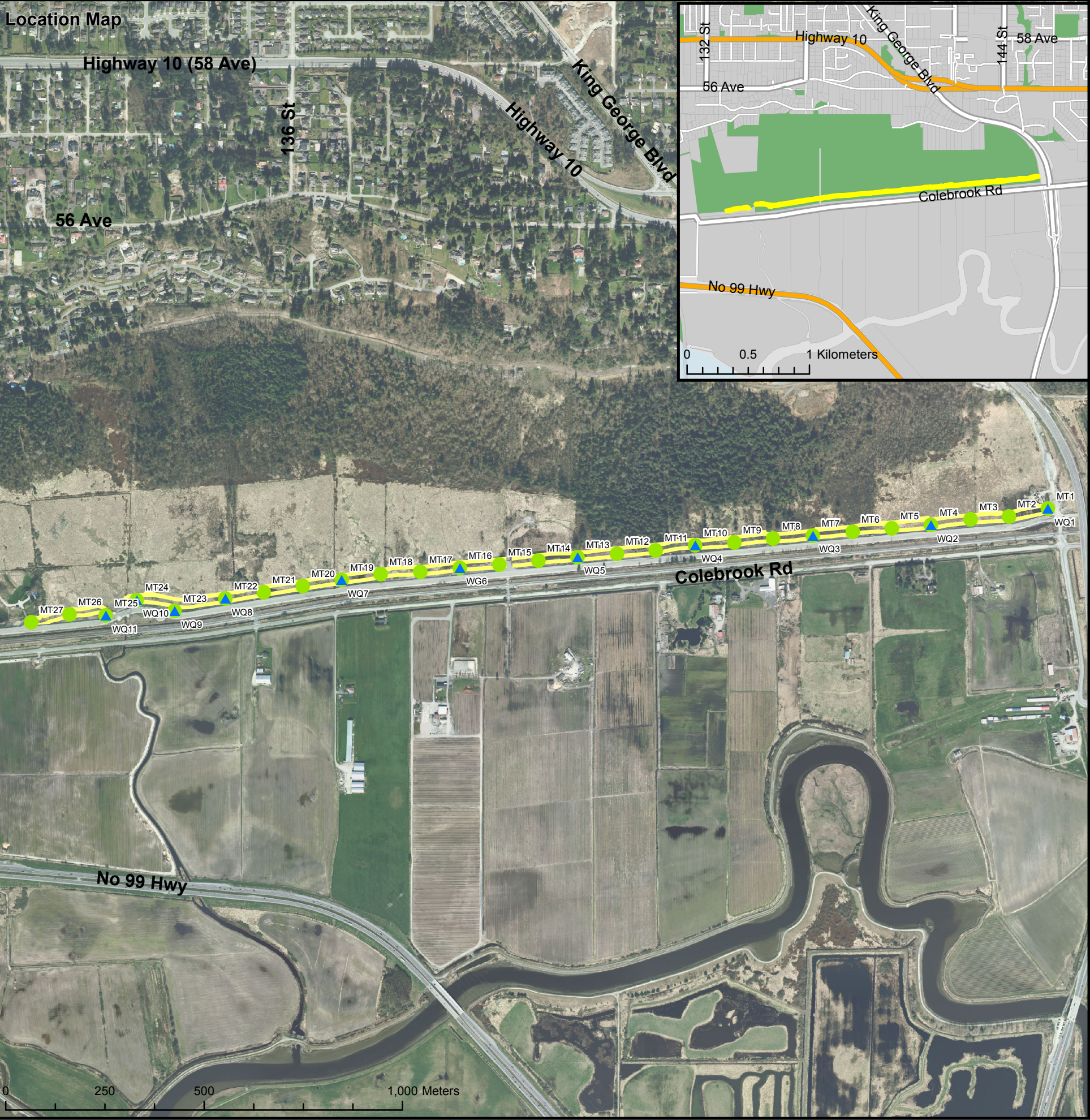
1:400

Figure 2

Date:
September 2015
Projection:
NAD 83, UTM Zone 10



LTM14 Map Details



Maintenance Summary

Summer and Fall:

1. ENKON to develop a plan for 2016 maintenance activities including planting and invasive removal in early 2016.
2. Watering prescription is summarized on Table 1.

Table 1 – Watering prescription summary

All 2016 plantings will require watering twice weekly during dry weather periods. Water existing planted stock as necessary to maintain health and vigor. Areas on drier sites such as the tree islands and the south riparian margin will benefit from watering during dry weather periods.

Legend

- ▲ WQ Monitoring Locations
- Fish Sampling Locations
- ✂ Restoration area boundary



LTM19 Map Details

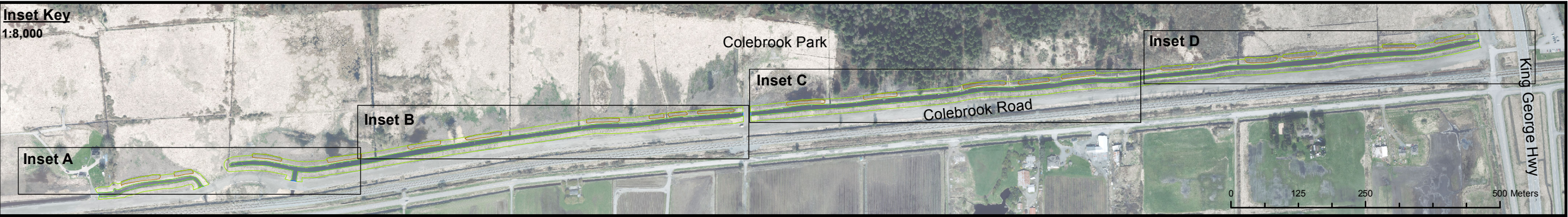
**Colbrook Road
Location Map**

City of Surrey

Figure 1

Map Created:
December 2015
Projection:
NAD 83, UTM Zone 10





Colebrook Road Monitoring and Maintenance 2015 Results

City of Surrey

Legend

- Restoration area boundary
- Tree islands

2015 Monitoring Results

Density plot survivorship (# = plot number; % = % survivorship)

Unplanted area

Invasive Species

- Himalayan blackberry
- Note: Density labeled
- H = High
- M = Medium
- L = Low

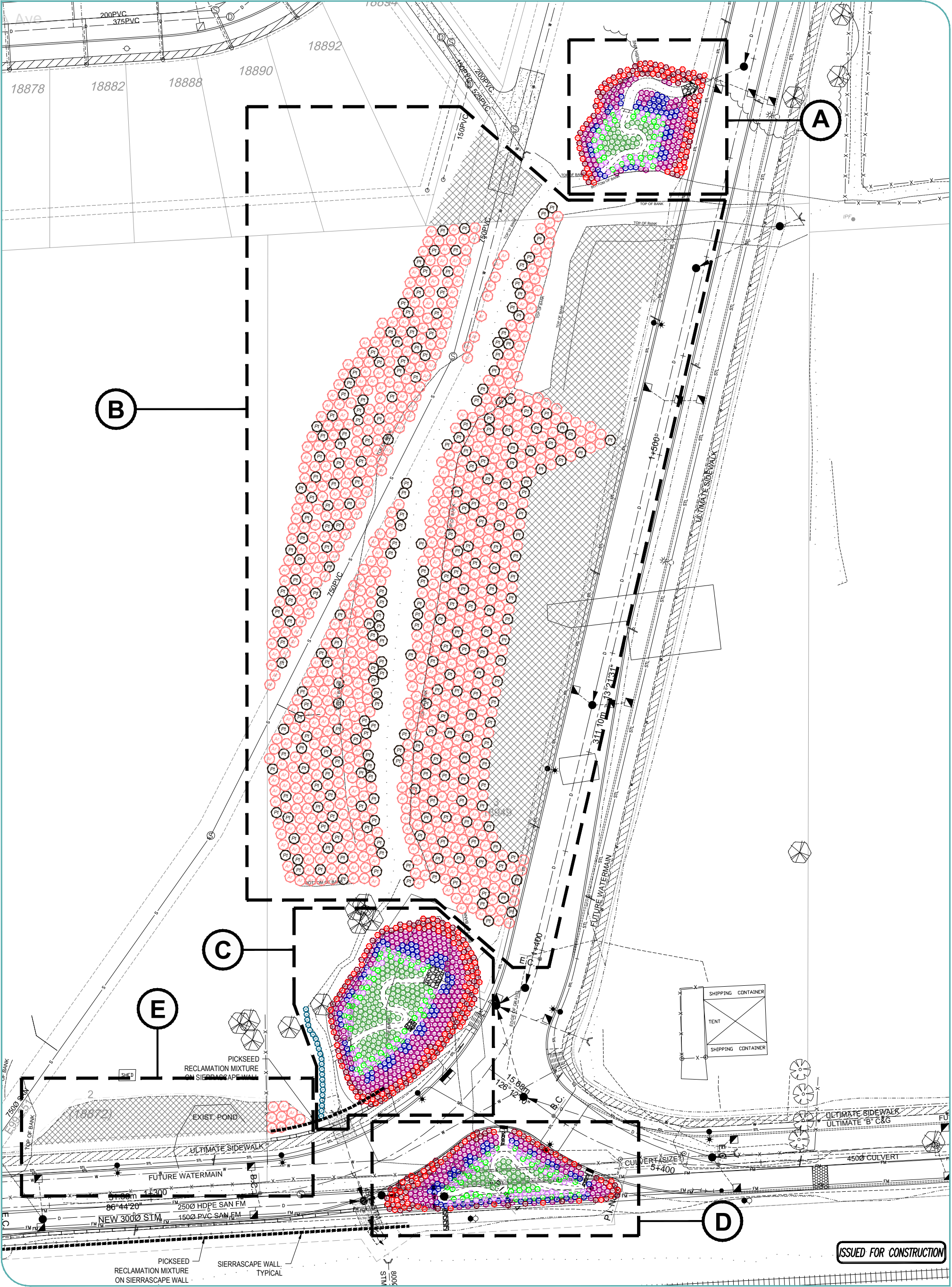


Figure 2

Date:
December 2015
Projection:
NAD 83, UTM Zone 10



LTM19 Map Details



City of Surrey
Widening 52 Ave Surrey

52 Ave Revegetation Plan
FIGURE 1

LTM 21 Map Detail



RFQ #1220-040-2016-020 for Vegetation Maintenance Services

PLANTING SCHEDULE					
SYMBOL	NAME	LATIN NAME	QUANTITY	SIZE	COMMENTS
Ar	RED ALDER	<i>Alnus rubra</i>	820	No 2 Pot	Interperse throughout planting area
Pt	BLACK COTTONWOOD	<i>Populus trichocarpa</i>	272	No 2 Pot	Cottonwood to have greater density on lower slope of creek channel
Sh	HOOKE'S WILLOW	<i>Salix hookeriana</i>	171	Stakes, each 1m long	Plant on lower slope of ponds
Sd	HARDHACK	<i>Spiraea douglasii</i>	396	No 2 Pot	Plant on low to mid-slope of ponds
Rp	THIMBLEBERRY	<i>Rubus parviflorus</i>	197	No 2 Pot	Plant on top of slope of ponds
Ro	BALDIP ROSE	<i>Rosa gymnocarpa</i>	184	No 2 Pot	Plant on top of slope ponds
Ty	CATTAIL	<i>Typha latifolia</i>	202	30cm Tuber	Plant on invert of ponds; density of 1 plant per m ²
Sc	SMALL-FLOWERED BULRUSH	<i>Scirpus microcarpus</i>	127	No 1 Pot	Plant at water level of ponds
Je	COMMON RUSH	<i>Juncus effusus</i>	124	No 1 Pot	Plant at water level of ponds
Jc	COMMON RUSH	<i>Juncus effusus</i>	22	No 1 Pot	1 plant per linear meter
	PICKSEED RECLAMATION MIXTURE *	n/a	7176m ²		Planting not required. Use Pickseed Reclamation Mixture on Sierrascape walls and other areas if disturbed.

* NOTE: ALSO APPLY PICKSEED RECLAMATION MIXTURE WITHIN REVEGETATION AREAS AS REQUIRED (EXCLUDING POND INVERTS)

MAP/DRAWING INFORMATION
Base drawing provided by Web Engineering Ltd.

CREATED BY: MZO
CHECKED BY: NRG
DESIGNED BY: NRG

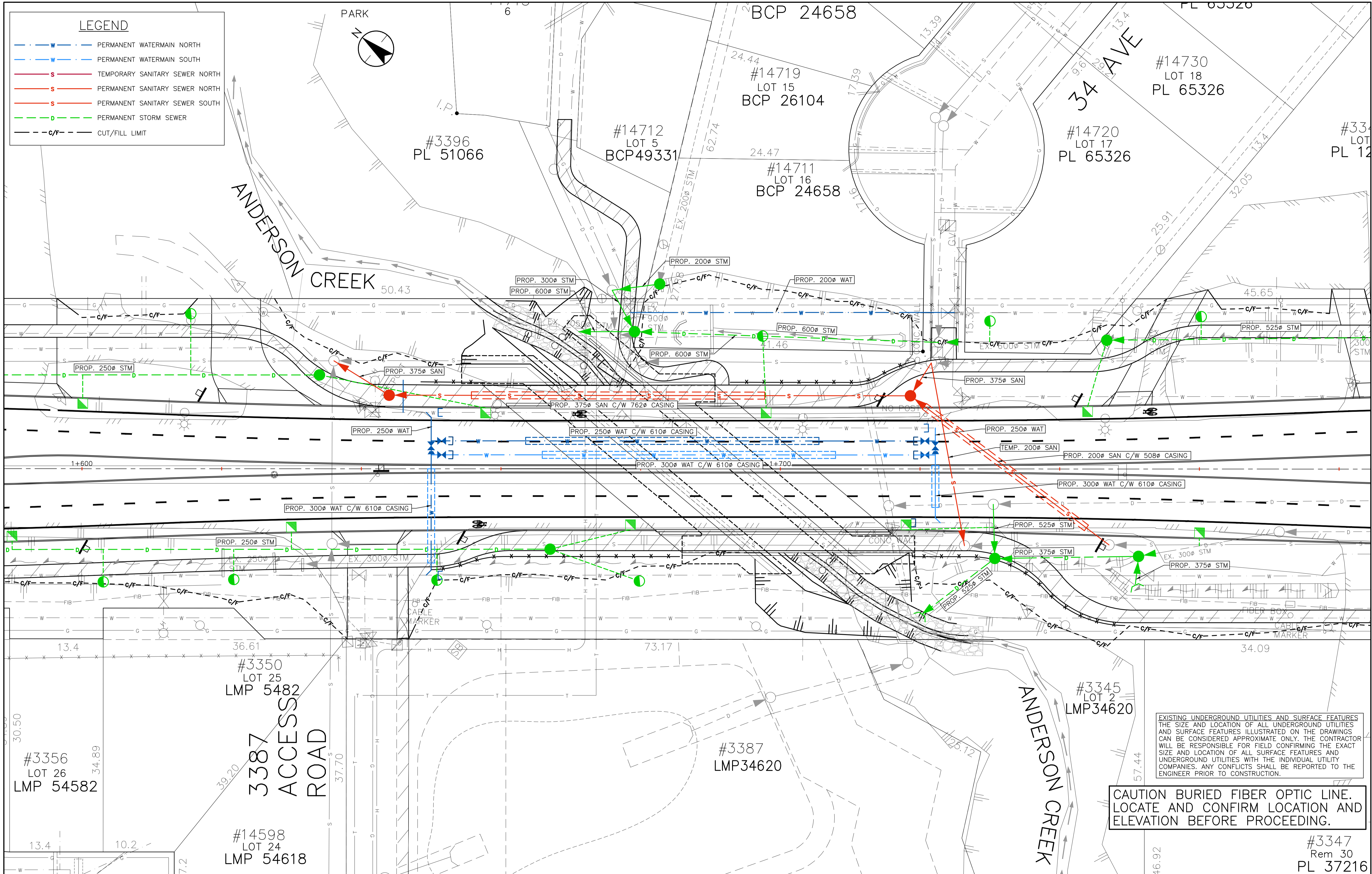
File Location:
g:\cad\103459 widening 52 ave surrey ph1 esa\52nd ave widening_planting plan_issued for construction.dwg May, 21, 2014 7:54 AM

0 3.75 7.5 15m

SCALE 1:700



PROJECT #: 10-3459 STATUS: FINAL DATE: MARCH 2014
Page 52 of 62



EXISTING	PROPOSED	DESCRIPTION
		SANITARY SEWER
		STORM SEWER
		WATERMAIN
		CATCH BASIN
		GATE VALVE
		AIR VALVE
		STANDPIPE OR HYDRANT
		SIDEWALK
		UTILITY POLE
		GAS MAIN
		HYDRO/TEL UNDERGROUND
		FENCE
		CULVERT
		SURVEY MONUMENT
		TREE

BENCH MARK No. SURREY MON #5632 ELEV: 6.734 ALL ELEVATIONS ARE METRIC & GEODETIC AND REFER TO MUN. MON. #5632 AT THE INTERSECTION OF K.G. BLVD. & CRESCENT RD.			
No.	DATE	DESCRIPTION	BY APP.
REVISIONS			

No.	DATE	DESCRIPTION	DATE	APP.
6		MICROFILMED		
5		AS CONSTRUCTED		
4		CONSTRUCTION APPROVAL		
3	14.12.12	FOR TENDER	GKR	
2	14.11.14	FOR APPROVAL	GKR	
1		PRELIMINARY		
DRAWING STATUS				

SEAL:



10th Floor 13401 - 108th Avenue
Surrey BC Canada V3T 5T3
Tel: (604) 587-8400
www.stantec.com

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing
any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use
for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY:	BN
DRAWN BY:	AS
APPROVED BY:	GKR
CHECKED BY:	GKR

TITLE:
ANDERSON CREEK BRIDGE
AND KING GEORGE BLVD.
ARTERIAL WIDENING
FROM 3328 TO 34TH AVE.

UTILITY OVERVIEW

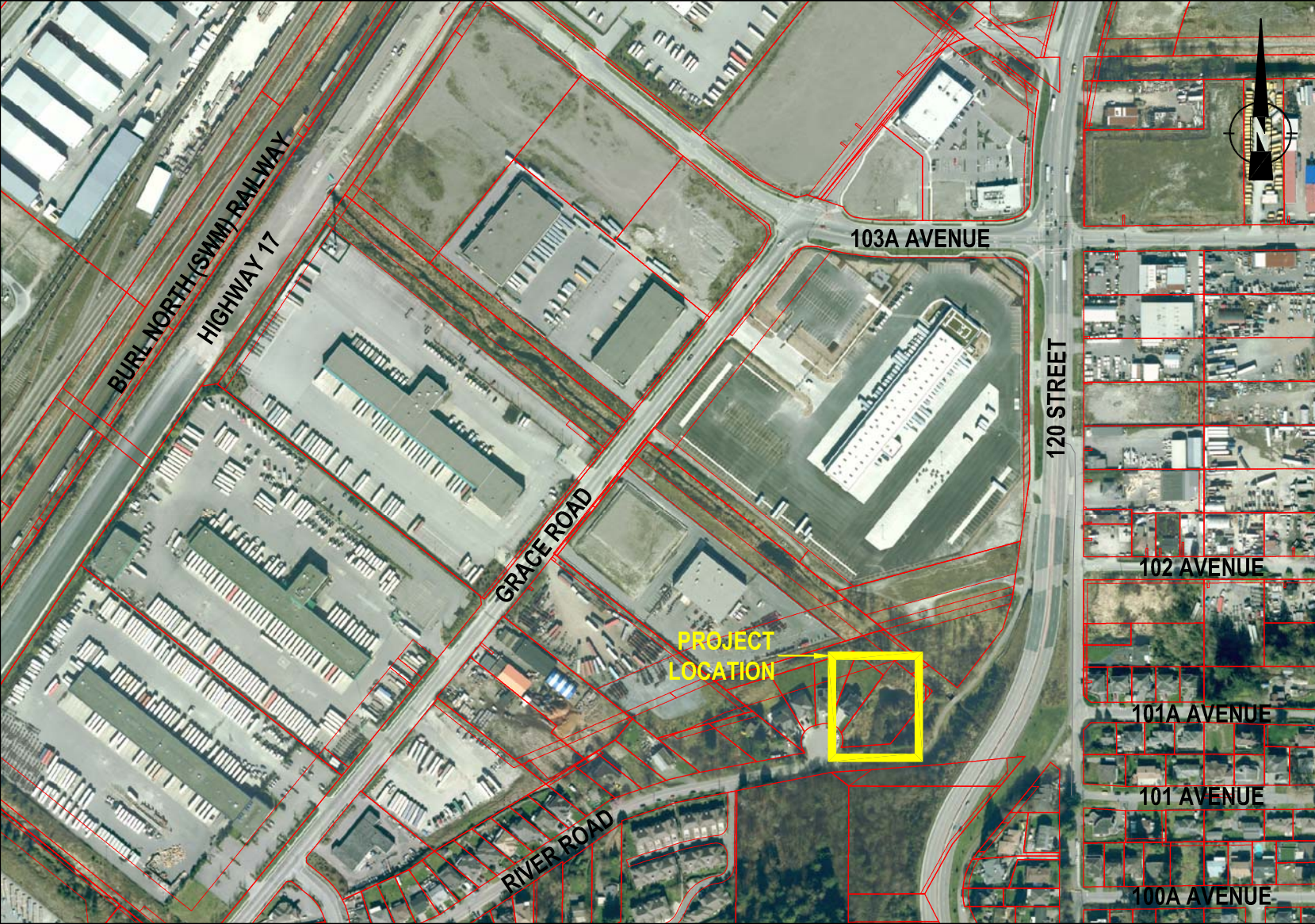
CITY OF SURREY	
TITLE: DESIGN PACKAGE R58/14	
SCALE: 1:250	SURREY PROJECT No. -
CHECKED: P.W. P.U.	SURREY DRAWING No. -

DATE: OCTOBER 2014	SHEET: JOB No. 111700481
REVISION: 3	DRAWING: N03
STATUS:	

X:\446\VR\PROFILES\WATER.DWG, VR_BRIDGE_DECK.DWG, VR_BRIDGE_FGCS.DWG, VR_BINNIE_DESIGN.DWG, VR_DESIGN.DWG, VR_EXBASE.DWG,
Drawing: U:\117\111700481\10_DRAWINGS\02_SHEETS\00_GENERAL\111700481_N03.DWG
December 12, 2014 11:25 a.m.

LOCATION

SCALE 1:5000



PLANT SPECIES LIST AND SPECIFICATIONS

SYMBOL	COMMON NAME	LATIN NAME	NUMBER	COMMENTS
	Sitka spruce	<i>Picea sitchensis</i>	7	2.0m container grown (min. no. 7 pot); densely branched; well established
	western redcedar	<i>Thuja plicata</i>	5	2.0m container grown (min. no. 7 pot); densely branched; well established
	black twinberry	<i>Lonicera involucrata</i>	31	no. 2 pot; densely branched; well established
	cascara	<i>Rhamnus purshiana</i>	8	no. 2 pot; densely branched; well established
	Indian plum	<i>Osmaronia cerasiformis</i>	23	no. 2 pot; densely branched; well established
	Nootka rose	<i>Rosa nutkana</i>	46	no. 2 pot; multi-stemmed; densely branched; well established
	Pacific ninebark	<i>Physocarpus capitatus</i>	68	no. 2 pot; densely branched; well established
	Pacific ninebark	<i>Physocarpus capitatus</i>	19	no. 1 pot; densely branched; well established
	salmonberry	<i>Rubus spectabilis</i>	103	no. 2 pot; multi-stemmed; densely branched; well established
	snowberry	<i>Symphoricarpos albus</i>	92	no. 2 pot; densely branched; well established
	thimbleberry	<i>Rubus parviflorus</i>	44	no. 2 pot; multi-stemmed; densely branched; well established

GENERAL LANDSCAPE SPECIFICATIONS

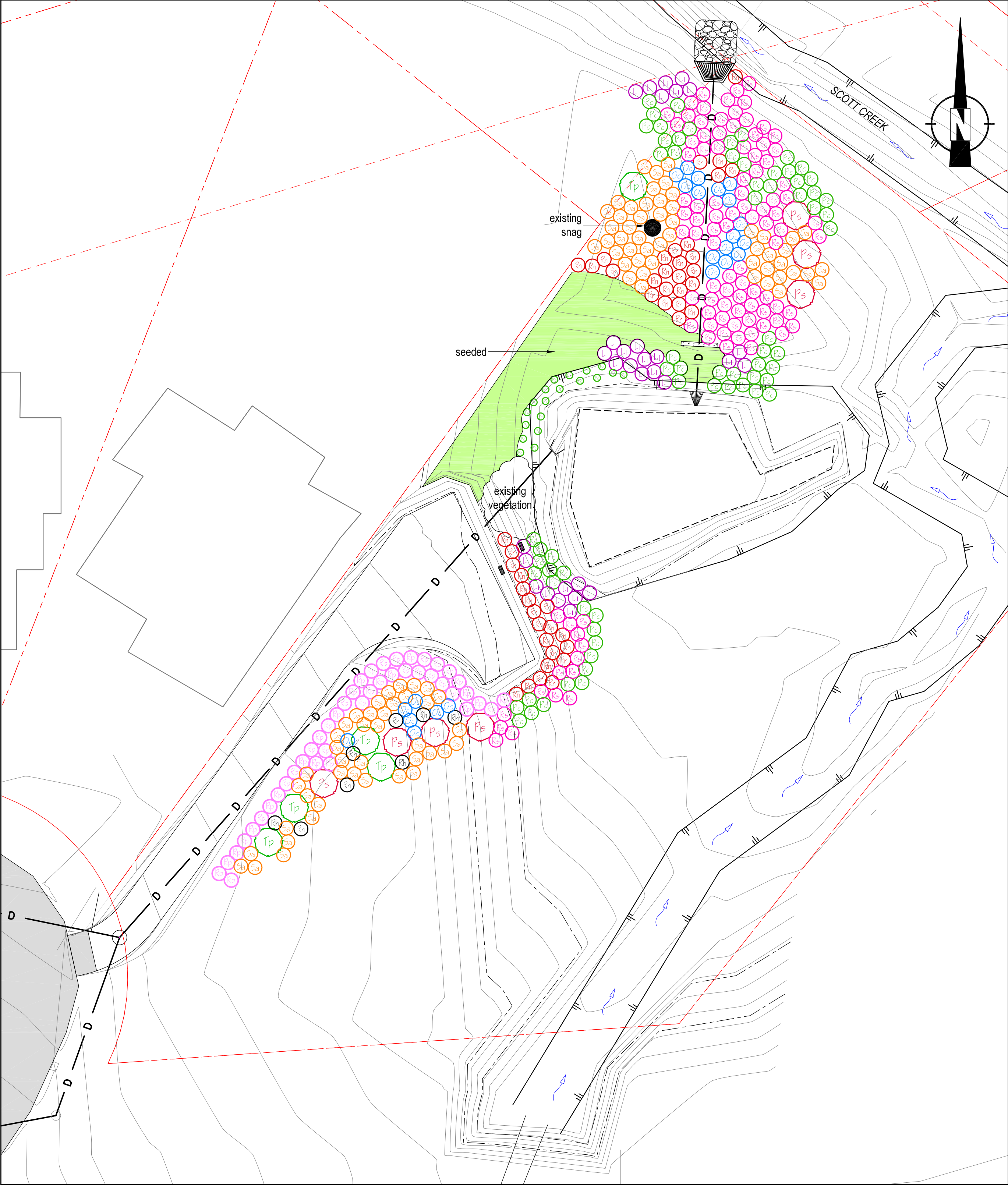
- Plant material and the planting of such material are to be in accordance with the current British Columbia Landscape Standard jointly published by the British Columbia Society of Landscape Architects and the British Columbia Landscape Nursery Association.
- All works are to be conducted in accordance with the Standards and Best Practices for Instream Works (March 2004) prepared by the Province of British Columbia.
- Works is to be inspected by a qualified Environmental Professional.
- Work is to conform to the City of Surrey Parks Standard Construction Documents (2011) available at http://www.surrey.ca/files/City_of_Surrey_Spec_2011.pdf.
- All plant material is to be inspected and approved by Envirowest and/or City of Surrey prior to installation.
- Growing medium is to be free of any subsoils, roots, noxious grass, weeds, toxic materials, stone over 30 mm diameter, foreign objects, and possess an acidity range (pH) of 5.5 to 7.5. Growing medium is to be inspected by Envirowest prior to placement.
- All debris and/or excess material from landscape operations are to be collected and disposed offsite in accordance with all regulatory requirements.
- Disturbed areas to be seeded with specified seed mixture (see detail).
- City of Surrey Parks Development Inspector to be contacted for onsite preconstruction meeting and upon completion of the construction of the works at (604) 501 5166.
- The contractor is to provide one (1) year of plant maintenance. Plant maintenance is to include watering, selective pruning and clearing of blackberry. Species survivorship is to equal one-hundred (100) percent one (1) year from planting. Replacement of dead stock may be required to fulfill this specification. Replacement stock is also subject survivorship one (1) year from planting.

REFERENCE DRAWINGS

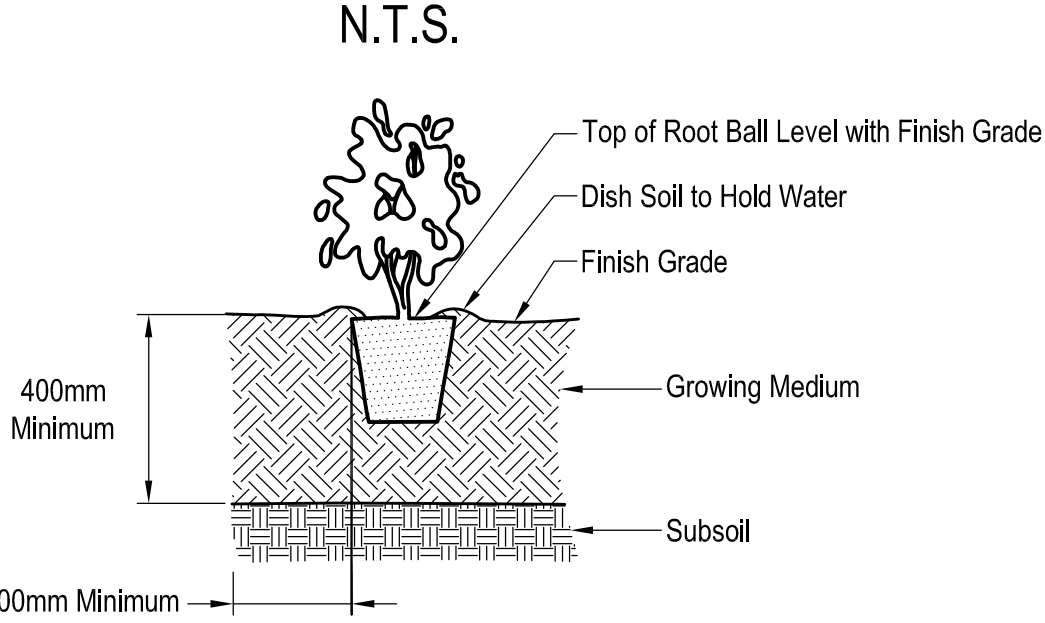
- Email: Site 4.dwg. Received May 29, 2015; AECOM.
- Email: Site 4.dwg. Received May 15, 2015; AECOM.
- Email: -001-S4-002 - Plan-Details.dwg. Received May 05, 2015; AECOM.
- 2013 Ortho Photograph From City of Surrey.

PLAN

SCALE 1:200

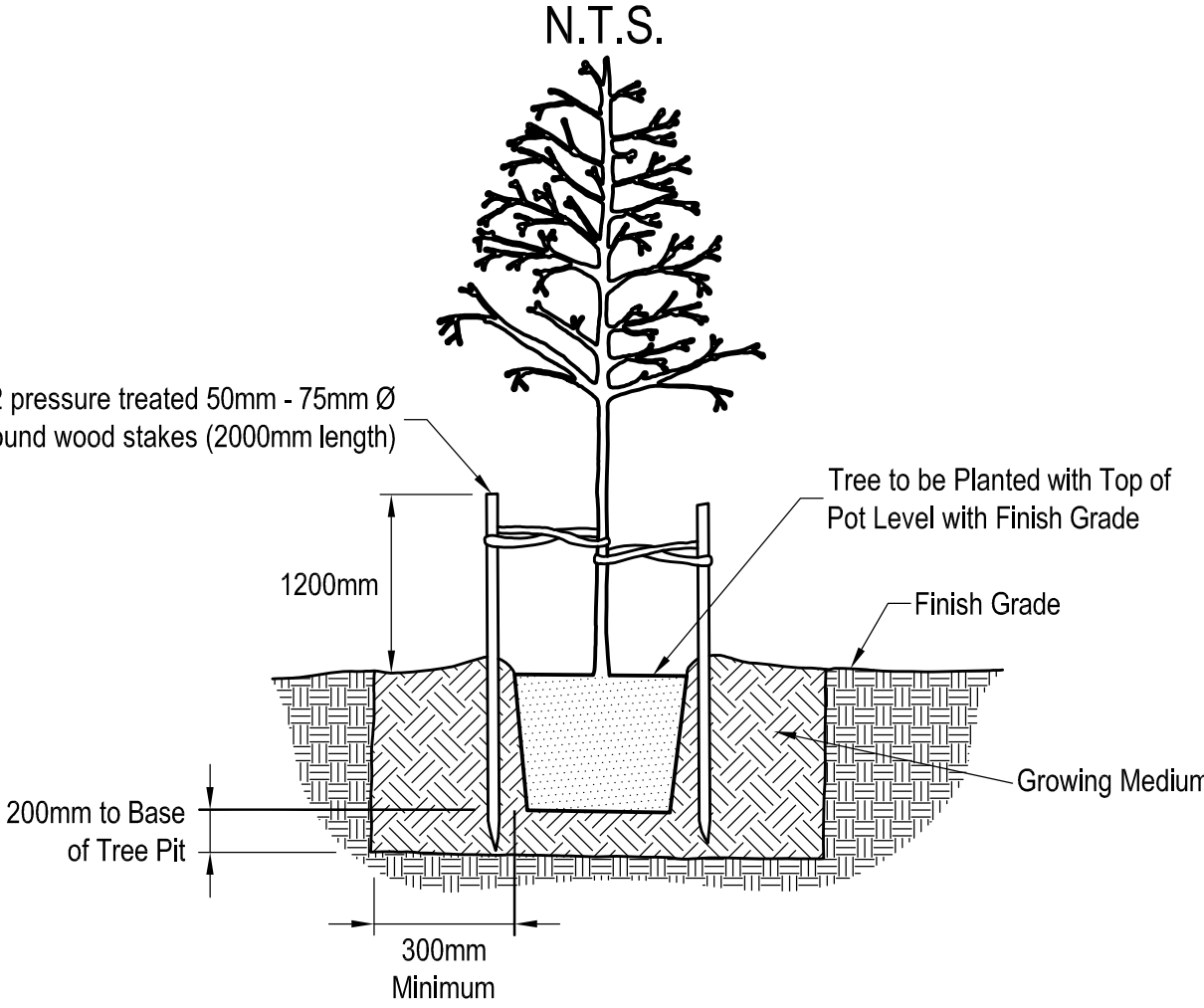


TYPICAL CONTAINER SHRUB AND No. 1 AND 2 POT TREE PLANTING DETAIL



RECLAMATION MIX		
Seed Type	% by Seed Weight	% by Seed Count
Tall Fescue	20	10.5
Italian Ryegrass	20	10.5
Perennial Ryegrass	10	6
Creeping Red Fescue	10	14.5
Orchardgrass	6	9
Timothy	3	9
Red Top	1	11.5
S.C. Red Clover	20	13
Alsike Clover	10	16

TYPICAL TREE PLANTING DETAIL



NOTE:
The contractor will be required to complete a pre-construction site meeting with the City of Surrey and representatives to identify the allowable construction limits and trees requiring removal and/or protection.

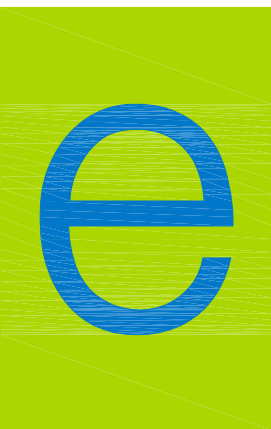
CITY OF SURREY PROJECT NO. 4814-911

DRAFT
RIPARIAN PLANTINGS

DESIGN: RWS	DRAWN: CEV	CHECKED:	REVISION: 03	REVISION DATE: September 17, 2015
SCALE: As Shown			DRAWING NUMBER:	111-337-03
DATE: May 05, 2015				

CITY OF SURREY

MINOR DRAINAGE WORKS
Surrey, BC



envirowest consultants inc.

Suite 101 - 1515 Broadway Street
Port Coquitlam, British Columbia
Canada V3C 6M2
office: 604-944-0502
facsimile: 604-944-0507

www.envirowest.ca



SCHEDULE B - QUOTATION

RFQ Title: **VEGETATION MAINTENANCE SERVICES**

RFQ No: 1220-040-2016-020

CONTRACTOR

Legal Name: _____

Address: _____

Phone: _____

Fax: _____

Email: _____

CITY OF SURREY

City Representative: Richard D. Oppelt, Purchasing Manager

Address: Surrey City Hall
Finance & Technology Department – Purchasing Section
Reception Counter – 5th Floor West
13450 - 104 Avenue, Surrey, B.C., Canada, V3T 1V8

E-mail for PDF Files: purchasing@surrey.ca

1. If this Quotation is accepted by the City, 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.
2. 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.

3. I/We have reviewed the RFQ Attachment 1 – Draft Agreement. If requested by the City, I/we would be prepared to enter into that Agreement, amended by the following departures (list, if any):

Section

Requested Departure(s) / Alternative(s)

4. The City requires that the successful Contractor have the following in place **before providing the Goods and/or Services**:

- (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 City as additional insured and generally in compliance with the City's sample insurance certificate form available on the City's Website [Standard Certificate of Insurance](#);
- (d) City of Surrey or Intermunicipal Business License: Number _____;
- (e) If the Contractor's Goods and/or 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):

Requested Departure(s) / Alternative(s)

5. The Contractor acknowledges that the departures it has requested in Sections 3 and 4 of this Quotation will not form part of the Agreement unless and until the City agrees to them in writing by initialing or otherwise specifically consenting in writing to be bound by any of them.

SECTION B-1

Changes and Additions to Specifications:

6. In addition to the warranties provided in the Agreement, this Quotation includes the following warranties:

7. I/We have reviewed the RFQ Attachment 1, Schedule A – Specifications of Goods and Scope of Services, to Attachment 1. If requested by the City, 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)

SECTION B-2 Fees and Payments:

8. The Contractor offers to supply to the City of Surrey the Goods and/or Services for the prices plus applicable taxes as follows:

F.O.B. Destination, Freight Prepaid		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:
The Contractor will provide all labour, plant, materials, tools and equipment necessary for vegetation maintenance in riparian areas.						
Site ID	Services	Crew Details	Crew Hourly Rate	Estimated Hours	Site Materials/ Disbursement Estimate	Total Site Cost
LTM2	Brushing	One (1) truck and four (4) crew	\$		\$	\$
	Planting	Two (2) trucks and eight (8) crew	\$		\$	\$
LTM6	Brushing	One (1) truck and four (4) crew	\$		\$	\$
LTM8	Brushing	One (1) truck and four (4) crew	\$		\$	\$
	Planting	Two (2) trucks and eight (8) crew	\$		\$	\$
	Fencing	One (1) truck and four (4) crew	\$		\$	\$
LTM10	Brushing	One (1) truck and four (4) crew	\$		\$	\$
LTM14	Brushing	One (1) truck and four (4) crew	\$		\$	\$
LTM19	Brushing	One (1) truck and four (4) crew	\$		\$	\$
	Planting	Two (2) trucks and eight (8) crew	\$		\$	\$
LTM21	Brushing	One (1) truck and four (4) crew	\$		\$	\$
	Planting	Two (2) trucks and eight (8) crew	\$		\$	\$
LTM22	Brushing	One (1) truck and four (4) crew	\$		\$	\$
	Planting	Two (2) trucks and eight (8) crew	\$		\$	\$
LTM26	Brushing	One (1) truck and four (4) crew	\$		\$	\$
	Planting	Two (2) trucks and eight (8) crew	\$		\$	\$
G24	Brushing	One (1) truck and four (4) crew	\$		\$	\$
Note: Overheads, General Conditions and Profit are to be included in the above amounts. GST is not to be included in the hourly rate and will be extra. Site Material / Disbursement estimate should include all landscaping supplies required for the site and mileage estimates.						
CURRENCY: Canadian			Subtotal:			\$
			GST 5%:			\$
			TOTAL QUOTATION PRICE:			\$

9. The Contractor offers to supply to the City of Surrey additional Goods and/or Services for the prices plus applicable taxes as follows:

Services	Crew Details	Crew Hourly Rate
Brushing	One (1) truck and four (4) crew	\$
Planting	Two (2) trucks and eight (8) crew	\$
Fencing	One (1) truck and four (4) crew	\$
Mulching	(specify)	\$
Other (specify)		\$

SECTION B-3

Time Schedule:

10. Contractors should provide an estimated schedule, with major item descriptions and times indicating a commitment to provide the Goods and perform the Services within the time specified (use the spaces provided and/or attach additional pages, if necessary).

MILESTONE DATES _____

ACTIVITY	SCHEDULE									
	1	2	3	4	5	6	7	8	9	10

SECTION B-4

Key Personnel & Sub-Contractors:

11. Contractor should provide information on the background and experience of all key personnel proposed to provide the Goods and/or Services (use the spaces provided and/or attach additional pages, if necessary):

Key Personnel

Name: _____

Experience: _____

Dates: _____

Project Name: _____

Responsibility: _____

12. Contractor should provide the following information on the background and experience of all sub-contractors and material suppliers proposed to undertake a portion of the Goods and/or Services (use the spaces provided and/or attach additional pages, if necessary):

<i>Description Of Goods & Services</i>	<i>Sub-Contractors & Material Suppliers Names</i>	<i>Years Of Working With Contractor</i>	<i>Telephone Number And Email</i>

SECTION B-5

Experience and References:

13. Contractor's relevant experience and qualifications in delivering Goods and/or Services similar to those required by the Agreement (use the spaces provided and/or attach additional pages, if necessary):

14. Contractor's relevant references (name and telephone number) (use the spaces provided and/or attach additional pages, if necessary). The City's preference is to have a minimum of three references. Previous clients of the Contractor may be contacted at the City's discretion.

15. Contractor to describe their sustainability initiatives relating to the environmental impacts. The environmental attributes (green) of their Goods and/or Services. Anticipated objectives (e.g. carbon neutral by 2015). Information pertaining to their environmental policies, programs and practices. Confirm that the Contractor complies with any applicable objective.

Metro Vancouver's Non-Road Diesel Engine Emissions Regulation By-law:

16. 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	
3		<input type="checkbox"/> Tier 0 or <input type="checkbox"/> Tier 1	
4		<input type="checkbox"/> Tier 0 or <input type="checkbox"/> Tier 1	
5		<input type="checkbox"/> Tier 0 or <input type="checkbox"/> Tier 1	

17. 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 offered by the Contractor this _____ day of _____, 201__.

CONTRACTOR

I/We have the authority to bind the Contractor

(Legal Name of Contractor)

(Signature of Authorized Signatory)

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

(Print Name and Position of Authorized Signatory)