



City of Coquitlam

**Contract Documents  
89037**

**Brunette, Coleman,  
Rochester Watermain  
Replacements**



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**Brunette, Coleman, Rochester Watermain Replacements**  
**Project Construction Documents**

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# ***Invitation to Tender***



## INVITATION TO TENDER

DATE OF ISSUE: **April 15, 2025**

*We acknowledge with gratitude and respect that the name Coquitlam was derived from the hən̓q̓əmi̓nə́m̓ word kw̓ikw̓ə́łəm̓ (kwee-kwuh-tlum) meaning "Red Fish Up the River". The City is honoured to be located on the kw̓ikw̓ə́łəm̓ (Kwikwetlem) traditional and ancestral lands, including those parts that were historically shared with the s̓q̓ə́ciyaʔt̓ təməx̓w̓ (Katzie), and other Coast Salish Peoples.*

### **Tender No. 89037**

### **Brunette, Coleman, Rochester Watermain Replacements**

The City of Coquitlam invites tenders for **Contract 89037 - Brunette, Coleman, Rochester Watermain Replacements**, generally consisting of the following, but not limited to:

- 150mm Diameter Watermain c/w Appurtenances : 78 Linear Meters
- 200mm Diameter Watermain c/w Appurtenances: 400 Linear Meters
- 250mm Diameter Watermain c/w Appurtenances: 704 Linear Meters
- 50mm Municipex Water Service c/w #10 AWG Tracer Wire: 384 Linear Meters
- Nelson Box c/w Curb-Stop and Meter Setter: 40 Each
- Air Valves: 2 Each
- Hydrants: 3 Each
- Watermain Tie-ins to Existing: 11 Each
- Other miscellaneous and incidental work contained in the Contract Documents.

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

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

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

**On or Before 2:00 pm local time**

**May 8, 2025**

("Closing Date and Time")

## **Addenda**

**Tenderers are required to check the City's website for any updated information, issued before the Closing Date at: [www.coquitlam.ca/BidOpportunities](http://www.coquitlam.ca/BidOpportunities). Where in its sole discretion it considers it to be necessary or desirable, the City may issue Addenda to amend any portion of the Contract Documents.**

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

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

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

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

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

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

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

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

M. Pain  
Manager Procurement



# ***Instructions to Tenderers***

**Tender 89037**

**Brunette, Coleman, Rochester Watermain Replacements**

**INSTRUCTIONS TO TENDERERS**

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## INSTRUCTIONS TO TENDERERS

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

### The City of Coquitlam

*Contract:* **Brunette, Coleman, Rochester Watermain Replacements**

*Reference No.* **89037**

- |            |                         |   |
|------------|-------------------------|---|
| <b>1.0</b> | <b>Introduction</b>     | <p>1.1 These Instructions apply to and govern the preparation of tenders for this <i>Contract</i>. The <i>Contract</i> is generally for the following work:</p> <ul style="list-style-type: none"><li>• 150mm Diameter Watermain c/w Appurtenances : 78 Linear Meters</li><li>• 200mm Diameter Watermain c/w Appurtenances: 400 Linear Meters</li><li>• 250mm Diameter Watermain c/w Appurtenances: 704 Linear Meters</li><li>• 50mm Municipex Water Service c/w #10 AWG Tracer Wire: 384 Linear Meters</li><li>• Nelson Box c/w Curb-Stop and Meter Setter: 40 Each</li><li>• Air Valves: 2 Each</li><li>• Hydrants: 3 Each</li><li>• Watermain Tie-ins to Existing: 11 Each</li><li>• Other miscellaneous and incidental work contained in the Contract Documents.</li></ul> <p>1.2 All inquiries regarding this Tender are to be submitted in writing referencing the <b>Tender Name and Number</b> sent to:</p> <p><b>E-mail</b>    <a href="mailto:bid@coquitlam.ca">bid@coquitlam.ca</a></p> <p>The deadline for inquiries is <b>2:00 PM</b> local time, <b>Monday, May 5, 2025</b>.<br/><b>INQUIRIES RECEIVED AFTER THIS DATE AND TIME MAY NOT RECEIVE A RESPONSE.</b></p> |
| <b>2.0</b> | <b>Tender Documents</b> | <p>2.1 The Tender Documents which a Tenderer should review to prepare a Tender consist of all of the <i>Contract Documents</i> listed in Schedule 1 entitled "Schedule of Contract Documents". Schedule 1 is attached to the Agreement which is included as part of the Tender Package. The <i>Contract Documents</i> include the drawings listed in Schedule 2 to the Agreement, entitled "<b>List of Contract Drawings</b>".</p> <p>2.2 <u>A portion of the Contract Documents are included by reference. Copies of these documents have not been included with the tender package.</u> These documents are the General Conditions, Specifications and Standard Detail Drawings. They are those</p>   |

contained in the publication entitled "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings". Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the Contract Documents.

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

**3.0 Submission of Tenders**

3.1 Tenders must be submitted on the Tender Form provided, accompanied by a copy of the original 10% Bid Bond quoting the Tender Name and Number, and be uploaded to the City's file transfer website.

Tenders must be received on or before:

***Tender Closing Time: 2:00 p.m. local time***

***Tender Closing Date: May 8, 2025***

For the purpose of the Tender submission, digital copies of original documents and signatures sent electronically are accepted. Original documents are required upon request by the City.

**Instructions for Tender Submission**

3.2 **Tender submissions are to be consolidated into one (1) PDF file and uploaded electronically through Qfile, the City's file transfer service accessed at website:**

<http://qfile.coquitlam.ca/bid>

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

**Tenderers are responsible to allow for ample time to complete the submission process. For assistance, phone 604-927-3037.**

3.3 Tenders submitted shall be deemed to be received when displayed as a new email in the in-box of the above email address. The City will not be responsible for any delay or for any Tenders not received for any reason, including technological delays or issues by either party's network or email program, and the City will not be liable for any damages associated with Tenders not received.

3.4 The City reserves the right to accept late Tenders to allow for technological delays. The City also reserves the right to accept Tenders by email: [bid@coquitlam.ca](mailto:bid@coquitlam.ca).

**BIDS RECEIVED IN-PERSON, BY COURIER, OR BY FAX WILL NOT BE ACCEPTED.**

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

3.6 Tender submissions are subject to the Freedom of Information and Protection of Privacy Act and contents may be disclosed if required to do so, pursuant to the Act.

**4.0 Additional Instructions to Tenderers**

4.1 Additional Instructions to Tenderers

**Obtaining Documents**

4.2 The following documents which are referred to and form part of the Contract Document package may be obtained as follows:

- Copies of the Master Municipal Construction Documents Volume II (2009), General Conditions, Specifications and Standard Detail Drawings are available separately from:

Support Services Unlimited  
Suite 102  
211 Columbia Street  
Vancouver, B.C. V6A 2R5  
Tel: 604-681-0295  
Fax: 604-305-0424

- Copies of the City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition are available for viewing and downloading off the City of Coquitlam website: [Supplementary Specifications and Detailed Drawings to MMCD](#)

**Test Excavations**

4.3 Prior to the excavation of test holes on road allowances or privately owned property the Tenderer shall obtain permission from the Municipality or Owner of the property and comply with their requirements for restoration of disturbed surfaces and utilities. Failure to comply with Municipal by-laws restricting this practice may result in prosecution of the offending party.

- Business License** 4.4 The successful Tenderer shall provide evidence of a City of Coquitlam Business License or Tri-Cities Inter-Municipal Business License prior to commencement of work or supply of materials. For more information, contact Business License Division Ph: 604-927-3085 or apply online at website: [City of Coquitlam Business License](#)
- No Claim** 4.5 Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderer shall have any claim for any compensation of any kind whatsoever, as a result of participating in this Tender, including accepting a non-compliant bid and by submitting a Tender, each Tenderer shall be deemed to have agreed that it has no claim.
- No Cost** 4.6 The City will not under any circumstances be responsible for any costs incurred by the Tenderer in preparing the Tender.
- Right to Accept or Reject any Tender** 4.7 The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. In its sole discretion, the City may reject or retain for its consideration, tenders which are nonconforming because they do not contain the content or form required by the instructions to tenderers or for failure to comply with the process for submission set out in these instructions to tenderers.
- The City specifically reserves the right to reject all Tenders if none is considered to be satisfactory and, in that event, at its option, to call for additional Tenders.
- Negotiation** 4.8 The City, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.
- Cancellation of Tender** 4.9 The City reserves the right to cancel any request for Tender at any time without recourse by the Tenderer. The City has the right to not award this work for any reason including choosing to complete the work with the City's own forces.
- Conflict of Interest** 4.10 Tenderers shall disclose any actual or potential conflicts of interest and existing business relationships it may have with the City, their elected or appointed officials or employees.
- Collusion** 4.11 Tenderers will not discuss or communicate with one another in regards to the preparation of their Tenders. Each Tenderer will ensure that its participation in the Tender process and that of its team members is conducted without collusion or fraud. Failure to comply with this requirement may lead to disqualification without further notice or warning.

- Instruction to Tenderers – Part II**
- 5.0 Tender Requirements**
- 4.12 Delete Instructions to Tenderers – Part II Contained in the Edition of the Publication “Master Municipal Construction Documents 2009” and replace with the following:
- 5.1 A tender should be on the Form of Tender as provided and be signed by the authorized signatory(s) as follows:
- 5.1.1 if the tenderer is a partnership or joint venture then the name of the partnership or joint venturer should be included, and each partner or joint venturer should sign personally; if a partner of joint venture is a corporation then such corporation should sign as indicated in paragraph 5.1.3 below; and
  - 5.1.2 if the tenderer is a corporation then the full name of the corporation should be included, together with the names and signatures of authorized signatories.
  - 5.1.3 For the purpose of the Tender submission, digital copies of original documents and electronic signatures are accepted. Original documents are required upon request by the City.
- 5.2 A tender must be accompanied by tender security (“*Bid Security*”) in the form of:
- 5.2.1 a copy (digital or Electronic copy is acceptable) of the original bid bond in an amount equal to 10% of the Tender Price, issued by a surety licensed to carry on the business of suretyship in British Columbia in a form reasonably satisfactory to the *Owner*;
- 5.3 Tenderer should be competent and capable of performing the various items of work. Tenderer shall complete the following statement sheets appended to the Form of Tender:
- 5.3.1 Appendix 1 – the Schedule of Quantities and Prices;
  - 5.3.2 Appendix 2 – a “*Preliminary Construction Schedule*”, generally in the form attached as Appendix 2 to the Form of Tender, and showing *Substantial Performance* by the date or within the duration, shown in paragraph 2.2 of the Form of Tender.
  - 5.3.3 Appendix 3 – name and brief description of the previous experience of the *Superintendent* the tenderer will use for the *Work*;

- 5.3.4 Appendix 4 – a list of previous comparable work, including a brief description of that work, approximate contract value, and references (with phone numbers);
- 5.3.5 Appendix 5 – a complete list of all subcontractors, if any, that the tenderer will use for the *Work* including full names.; and
- 5.3.6 Appendix 7 – is provided for information only, to indicate the Contract Insurance is to be submitted by the successful Tenderer upon Notice of Award.
- 5.4 The successful tenderer will, within 15 *Days* of receipt of the written *Notice of Award*, be required to deliver to the *Owner* the items listed in FT 5.1.1, including a Performance Bond and a Labour and Material Payment Bond as described in FT 5.1.1(a), failing which the provisions of FT 6.1 will apply.
- 6.0 Qualifications, Modifications, Alternative Tenders**
- 6.1 Tenders which contain qualifications, or omissions, so as to make comparison which other tenders difficult, may be rejected by the *Owner*.
- 6.2 A tenderer may, at the tenderer's election, submit an alternative tender ("*Alternative Tender*") which varies the materials, products, designs or equipment by the *Owner as Approved Equals* as the case may be, but an *Alternative Tender* must be in addition to, and not in substitution for a tender which conforms to the requirements of the *Contract Documents*.
- 6.3 The only *Alternative Tender* that the *Owner* may accept is an *Alternative Tender* submitted by that tenderer whose conforming tender, submitted as required by paragraph 6.2 of these Instructions to Tenderers, would have been accepted by the *Owners* in the preference to other conforming tenders, if no *Alternative Tenders* had been invited.
- 7.0 Approved Equals**
- 7.1 Prior to the *Tender Closing Time and Date*, a tenderer may request the *Owner* to approve materials, products, or equipment ("*Approved Equal*") to be included in a tender in substitution for items indicated in the Contract Documents.
- 7.2 Applications for an *Approved Equal* must be in writing, and supported by appropriate supporting information, data, specifications, and documentation.
- 7.3 If the *Owner* decides in its discretion to accept an *Approved Equal*, then the *Owner* will issue an addendum to all tenderers.
- 7.4 The *Owner* is not obligated to review or accept an application for an *Approved Equal*.



**8.0 Inspection of  
the *Place of the  
Work***

8.1 All tenderers, either personally or through a representative, are responsible to examine the *Place of the Work* before submitting a tender. A tenderer has full responsibility to be familiar with and make allowance in the tender for all conditions at the *Place of the Work* that might affect the tender, including any information regarding subsurface soil conditions made available by the *Owner*, the location of the *Work*, local conditions, topographical soil conditions, weather and access. Unless otherwise specified in the *Contract Documents*, a tenderer is not required to do subsurface investigations. By submitting a tender, a tenderer represents that the tenderer has examined the *Place of the Work*, or specifically elected not to. No additional payments or time extensions shall be claimable or due because of difficulties relating to conditions at the *Place of the Work* which were reasonably foreseeable by a contractor qualified to undertake the *Work*.

8.2 Tenderers are referred to GC 11.2.1 regarding **Concealed or Unknown Conditions**.

**9.0 Interpretation  
of *Contract  
Documents***

9.1 If a tenderer is in doubt as to the correct meaning of any provision of the *Contract Documents*, the tenderer may request clarification as instructed in paragraph 1.2 of the Instructions to Tenderers.

9.2 If a tenderer discovers any contradictions or inconsistencies in the *Contract Documents* or its provisions, or any discrepancies between a provision of the *Contract Documents* and conditions at the *Place of the Work as* observed in an examination under paragraph 8 of the person named in paragraph 1.2 of the Instructions to Tenderers.

9.3 If the *Owner* considers it necessary, the *Owner* may issue written addenda to provide clarification (s) of the *Contract Documents*.

9.4 No oral interpretation or representations from the *Owner* or any representative of the *Owner* will affect, alter, or amend any provision of the *Contract Documents*.

**10.0 Prices**

10.1 The Tendered Price will represent the entire cost excluding *GST* to the *Owner* of the complete *Work* based on the estimated quantities in the *Schedule of Quantities and Prices* of the Form of Tender. Notwithstanding the generalities of the above, tenderers shall include in the tendered prices (including unit prices, lump sum prices, or other forms of pricing) sufficient amounts to cover:

10.1.1 the costs of all labour, equipment and material included in or required for the *Work*, including all items which, whole not specifically listed in the *Schedule of Quantities and Prices*, are included in the *Work* specifically or by necessary inference from the *Contract Documents*;

10.1.2 all assessments payable with respect to labour as required by any statutory scheme such as unemployment insurance, holiday pay, insurance,

CPP and all employee benefits and the Workers Compensation Act;

10.1.3 all overhead costs, including head office and on-site overhead costs, and all amounts for the *Contractor's* profit.

10.2 The tendered prices and all subcontracts must allow for compliance with all applicable laws regarding trade or other qualifications of employees performing the *Work*, and payment of appropriate wages for labour included in or required for the *Work*.

**11.0 Taxes**

11.1 The tendered prices shall cover all taxes and assessments of any kind payable with respect to the *Work*, but shall not include *GST*. *GST* shall be listed as a separate line item as required by GC 19.3.

**12.0 Amendment of Tenders**

12.1 A tenderer may amend or revoke a tender by giving written notice, delivered by Email, to the office referred to in paragraph 3.4 of the Instructions to Tenderers at any time up until the *Tender Closing Date and Time*. An amendment or revocation that is received after the *Tender Closing Date and Time* shall not be considered and shall not affect a tender as submitted.

12.2 An amendment or revocation must be signed by an authorized signatory of the tenderer in the same manner as provided by paragraph 5.1 of these Instructions to Tenderers.

12.3 Any amendment that expressly or by inference discloses the tenderer's *Tender Price* or other material element of the tender such that, in the opinion of the *Owner*, the confidentiality of the tender is breached, will invalidate the entire tender.

12.4 An acceptable form of a tender amendment which tenderers may, but are not required to, use is as follows:

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

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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 (TENDERED PRICES AND/OR TENDER ITEMS IN THE TENDER THAT ARE TO BE AMENDED)

and substituting the following revised tendered prices or items:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 (REVISED TENDERED PRICES OR TENDER ITEMS)

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

Signed and delivered the \_\_\_ day of \_\_\_\_\_, 20\_\_.”

**13.0 Duration of Tenders**

13.1 After the *Tender Closing Time*, a tender shall remain valid and irrevocable as set out in paragraph 5.1 of the Form of Tender.

**14.0 Qualifications of Tenderers**

14.1 By submitting a tender, a tenderer is representing that it has the competence, qualifications and relevant experience required to do the *Work*.

**15.0 Award**

15.1 In exercising its discretion, the *Owner* will have regard to the information provided in the Appendices to the Form of Tender as described under IT 5.3 including the proven experience of the tenderer, and any listed subcontractors, to do the *Work*.

Tenders received will be evaluated to provide the City with greatest value based on quality, service, price and experience. Evaluation Criteria will include but is not limited to:

1. Ability to meet specifications and required completion date
2. Contractor's past experience, references, reputation and compliance to specifications
3. Demonstrated successful experience on similar projects and specific equipment installation
4. Price: purchase price, maintenance costs, availability of parts and service, warranty and compatibility with existing equipment and/or conditions
5. Any other criteria, the City deems, at its sole discretion, necessary to evaluate Tenders;
6. Lowest price will not necessarily be accepted.

The City may, in its absolute discretion, not award to a Tenderer if the Tenderer, or any officer or director of a corporate Tenderer, is or has been engaged, either directly or indirectly through another corporation or legal entity, in a legal action against the City and its elected and appointed officers and employees or any of them in relation to:

- a) any other contract or services; or
- b) any matter arising from the City's exercise of its powers, duties or functions under the *Local Government Act*, the *Community Charter* or any other enactments; within five years of this Tender Offer.

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

Without limiting the City's sole discretion, in determining whether or not to award to a Tenderer pursuant to this clause, the City will consider such factors as whether the legal action is likely to affect the Tenderer's ability to work with the City and its employees, agents, consultants and representatives or any of them and whether the City's past experience with the Tenderer in the matter that resulted in the legal action indicates that the City is likely to incur increased staff and legal costs or either of them in the administration of this contract if it is awarded to the Tenderer.

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

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

- 15.2 The *Owner* will notify the successful tenderer in writing.
- 15.3 If there are any discrepancies in the *Schedule of Quantities and Prices* between the unit prices and the extended totals then the unit prices shall be deemed correct, and corresponding corrections shall be made to the extended totals. If a unit price or extended total has been omitted, the following shall apply:
- a) If a unit price is given but the corresponding extended total has been omitted, then the extended total shall be calculated from unit price and the estimated quantity, and inserted as the extended total;
  - b) If an extended total is given but the corresponding unit price has been omitted, then the unit price shall be calculated from the extended total and estimated quantity, and inserted as the unit price;
  - c) If both the unit price and the corresponding extended total for a tender item have been omitted, then the following test shall be applied to determine whether the tender shall be rejected as incomplete:
    - (i) the highest of the unit prices tendered by other tenderers for that tender item shall be used as the test unit price, and the corresponding test extended total shall be calculated from the test unit price and the estimated quantity;
    - (ii) if the test extended total for the tender item exceeds 1% of the revised total *Tender Price*, including the test extended total, or if the revised total *Tender Price*, including the test extended total, alters the ranking of the tenderers according to the lowest *Tender Price*, then the omitted unit price for that tender item is deemed to materially affect the *Tender Price* relative to other tenders and the tender shall be rejected;
    - (iii) if the tender is not rejected under subparagraph (ii) of this IT 15.3 (c), then the unit price and the extended total for that tender item shall both be deemed to be, and the costs for that tender item shall be zero deemed to be included in other tender items prices;
  - d) In no event shall page totals in the *Schedule of Quantities and Prices* or the total *Tender Price* be used to calculate missing extended totals or unit prices.

- 16.0 Subcontractors**
- 16.1 The *Owner* reserves the right to object to any of the subcontractors listed in a tender. If the *Owner* objects to any of the subcontractor(s) then the *Owner* will permit a tenderer to, within 5 days, propose a substitute subcontractor(s) acceptable to the *Owner* provided that there is not resulting adjustment in the *Tender Price* or the completion date set out in paragraph 2.2 of the Form of Tender. A tenderer will not be required to make such substitution and, if the *Owner* objects to a listed *Subcontractor(s)*, the tenderer may, rather than propose a substitute subcontractor(s), consider its tender rejected by the *Owner* and by written notice withdraw its tender. The *Owner* shall, in the event, return the tenderer's bid security
- 17.0 Optional Work**
- 17.1 If the *Schedule of Quantities and Prices* includes any tender prices for *Optional or Provisional Work*, as defined in GC 7.4.1, the tenderers must complete all the unit prices for such *Optional or Provisional Work*. Such tender prices shall not include any general overhead costs, or other costs, or profit, not directly related to the *Optional or Provisional Work*.
- 17.2 Notwithstanding that the *Owner* may elect not to proceed with the *Optional or Provisional Work*, the tender prices for any *Optional or Provisional Work*, including the extended totals for *Optional or Provisional Work* unit prices, shall be included in the *Tender Price* for the purpose of any price comparisons between tenders.

# ***Form of Tender***



## Form of Tender

Tender No. 89037

### Brunette, Coleman, Rochester Watermain Replacements

#### Summary

Name of **Contractor**: \_\_\_\_\_

**Tender Price** (exclude GST): \$ \_\_\_\_\_

(FROM APPENDIX 1 OF FORM OF TENDER)

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

**On or before 2:00 pm (local time)  
Thursday, May 8, 2025**

#### Instructions for Tender Submission

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

- 1. In the "Subject Field" enter: Tender Number and Name**
- 2. Add consolidated Tender file in PDF format, and Appendix 1 in XLS format, and Send** (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete and was sent to the correct email address: [bid@coquitlam.ca](mailto:bid@coquitlam.ca) )

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

May 2025

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



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

**Contract Name: Brunette, Coleman, Rochester Watermain Replacements**

**Reference No.: 89037**

**TO OWNER:**

**1 WE, THE UNDERSIGNED:**

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_;

( ADDENDA, IF ANY )

- 1.2 shall fully disclose any actual or potential conflicts of interest and existing business relationships we may have with the City, their elected or appointed officials or employees:

\_\_\_\_\_

- 1.3 have full knowledge of the *Place of the Work*, and the *Work* required; and  
1.4 have complied with the Instructions to Tenderers; and

**2 ACCORDINGLY WE HEREBY OFFER:**

- 2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and  
2.2 to achieve *Substantial Performance* of the *Work* on or before **March 31, 2026**; and  
2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes *GST*.

**3 WE CONFIRM:**

- 3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.
- 3.2 that we understand and agree that the owner is in no way obliged to accept this Tender.

**4 WE CONFIRM:**

- 4.1 that the following Appendices are attached to and form a part of this tender:
  - 4.1.1 the Appendices as required by paragraph 5.3 of the Instructions to Tenderers - Part II; and
  - 4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers - Part II.
  - 4.1.3 the Certificate of Compliance on the form provided in Appendix 7 of this Form of Tender.

**5 WE AGREE:**

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

**6 WE AGREE:**

6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:

6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or

6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*,

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

6.1.3 the face value of the *Bid Security*; and

6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

**7 OUR ADDRESS** is as follows:

---

---

---

Phone: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Email: \_\_\_\_\_

Attention: \_\_\_\_\_

This Tender is executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

*Contractor:*

\_\_\_\_\_  
**(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

\_\_\_\_\_  
**(AUTHORIZED SIGNATORY)**

\_\_\_\_\_  
**(AUTHORIZED SIGNATORY)**

**8 WE CONFIRM:**

8.1 our Goods and Services Tax (GST) registration status is as follows:

8.1.1 for information purposes, our GST Registration Number is:

\_\_\_\_\_  
**(GST REGISTRATION NUMBER)**

**or;**

8.1.2 by signature hereunder, we certify we are **not required** to provide a registration number:

\_\_\_\_\_  
**(AUTHORIZED SIGNATORY)**

\_\_\_\_\_  
**(AUTHORIZED SIGNATORY)**

**APPENDIX 1  
FORM OF TENDER**

**Contract 89037  
Brunette, Coleman, Rochester Watermain Replacements**

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

ITEM NO.	MMCD Ref. / (Supplementary Specifications)	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	EXTENDED AMOUNT
<b>GENERAL</b>						
<b>1.00</b>	<b>01 55 005</b>	<b>TRAFFIC CONTROL</b>				
1.01	(1.5.1)	Traffic Control and Management				Incidental to Contract
<b>2.00</b>	<b>01 58 015</b>	<b>PROJECT IDENTIFICATION</b>				
2.01	(1.3.1)	Construction Zone Information Signs	ea.	6		\$0.00
<b>BRUNETTE &amp; COLEMAN</b>						
<b>3.00</b>	<b>03 30 205</b>	<b>CONCRETE WALKS, CURBS AND GUTTERS</b>				
3.01	(1.4.3)	Remove and Replace Concrete Curb - (COQ-C6)	l.m	19		\$0.00
3.02	(1.4.5)	Remove and Replace Concrete Sidewalk (100mm)	sq.m	11		\$0.00
<b>4.00</b>	<b>31 23 015</b>	<b>EXCAVATING, TRENCHING AND BACKFILLING</b>				
4.01	1.10.3	Overexcavation (Provisional)	cu.m	40		\$0.00
4.02	(1.10.9)	Imported Trench Backfill (75mm Minus) (Provisional)	tonne	375		\$0.00
4.03	(1.10.10)	Hydro Excavation (Provisional)		Allowance		\$20,000.00
4.04	(1.10.11)	Remove and Replace Retaining Walls (All Types) (Provisional)		Allowance		\$8,000.00
<b>5.00</b>	<b>32 01 16.75</b>	<b>COLD MILLING</b>				
5.01	(1.5.1)	Surface Mill - 35mm	sq.m	718		\$0.00
<b>6.00</b>	<b>32 12 13.1</b>	<b>ASPHALT TACK COAT</b>				
6.01	1.5.1	Asphalt Tack Coat - Emulsified Asphalt	sq.m	718		\$0.00
<b>7.00</b>	<b>32 12 165</b>	<b>HOT-MIX ASPHALT CONCRETE PAVING</b>				
7.01	(1.5.1)	Hot Mix Asphalt - 35mm Surface Layer - MMCD Upper Course #2	sq.m	718		\$0.00
<b>8.00</b>	<b>33 11 015</b>	<b>WATERWORKS</b>				
8.01	(1.8.2)	200mm Class 50 DI Watermain (V-Bio Encased) (TR Flex or Tyton c/w Approved Joint Restraints)	l.m	371		\$0.00
8.02	(1.8.3.1)	150mm Gate Valves	ea.	1		\$0.00
8.03	(1.8.3.1)	200mm Gate Valves	ea.	4		\$0.00
8.04	(1.8.3.1)	Tee - 200mm x 200mm x 150mm DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	1		\$0.00
8.05	(1.8.3.1)	Tee - 200mm x 200mm x 200mm DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	2		\$0.00
8.06	(1.8.3.1)	Bend - 200mm 45° DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	6		\$0.00
8.07	(1.8.3.1)	Bend - 200mm 22.5° DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	2		\$0.00
8.08	(1.8.3.1)	Reducer - 200mm x 150mm DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	4		\$0.00
8.09	(1.8.3.2)	Remove Existing Valve Boxes & Risers Outside of Other Excavations	ea.	1		\$0.00
8.10	(1.8.3.3)	Removal of Existing Hydrants	ea.	1		\$0.00
8.11	(1.8.4.1)	50mm Water Service Connection (COQ-W2e) w/ Muncipex and #10 AWG Tracer Wire	m	140		\$0.00
8.12	(1.8.4.1)	Supply & Install Terminal City Nelson type valve box c/w lid marked "Water"; including precast concrete boxes and meter setter as per Coquitlam Water Meter Specifications detail drawing WM-3 c/w spool piece in place of meter. (do not provide or install meter)	ea.	14		\$0.00
8.13	(1.8.4.2)	Transfer 19mm Existing Water Service to new main (Coq-W2b-1 or Coq-W2b-2)	ea.	9		\$0.00
8.14	(1.8.14)	Blow-off Assembly and Chamber (COQ-W8)	ea.	1		\$0.00
8.15	(1.8.15)	New Fire Hydrant Assembly	ea.	1		\$0.00
8.16	(1.8.16)	Watermain tie-in including capping (to ex.150mm)	ea.	3		\$0.00
<b>ROCHESTER &amp; LEBLEU</b>						
<b>9.00</b>	<b>03 30 205</b>	<b>CONCRETE WALKS, CURBS AND GUTTERS</b>				
9.01	(1.4.3)	Remove and Replace Concrete Curb - (COQ-C6)	l.m	23		\$0.00
9.02	(1.4.5)	Remove and Replace Concrete Sidewalk (100mm)	sq.m	21		\$0.00
9.03	(1.4.5)	Remove and Replace Concrete Driveway (190mm thick) - Brushed Finish	sq.m	17		\$0.00
9.04	(1.4.5)	Remove and Replace Concrete Driveway (190mm thick) - All Other Finishes	sq.m	23		\$0.00

10.00	31 23 015	EXCAVATING, TRENCHING AND BACKFILLING				
10.01	1.10.3	Overexcavation (Provisional)	cu.m	40		\$0.00
10.02	(1.10.9)	Imported Trench Backfill (75mm Minus) (Provisional)	tonne	820		\$0.00
10.03	(1.10.10)	Hydro Excavation (Provisional)	Allowance			\$10,000.00
10.04	(1.10.11)	Remove and Replace Retaining Walls (All Types)	Allowance			\$8,000.00
11.00	32 01 16.75	COLD MILLING				
11.01	(1.5.1)	Surface Mill - 35mm	sq.m	1,509		\$0.00
12.00	32 12 13.1	ASPHALT TACK COAT				
12.01	1.5.1	Asphalt Tack Coat - Emulsified Asphalt	sq.m	1,509		\$0.00
13.00	32 12 165	HOT-MIX ASPHALT CONCRETE PAVING				
13.01	(1.5.1)	Hot Mix Asphalt - 35mm Surface Layer - MMCD Upper Course #2	sq.m	1,509		\$0.00
14.00	33 11 015	WATERWORKS				
14.01	(1.8.2)	150mm Class 50 DI Watermain (V-Bio Encased) (TR Flex or Tyton c/w Approved Joint Restraints)	l.m	78		\$0.00
14.02	(1.8.2)	200mm Class 50 DI Watermain (V-Bio Encased) (TR Flex or Tyton c/w Approved Joint Restraints)	l.m	29		\$0.00
14.03	(1.8.2)	250mm Class 50 DI Watermain (V-Bio Encased) (TR Flex or Tyton c/w Approved Joint Restraints)	l.m	704		\$0.00
14.04	(1.8.3.1)	150mm Gate Valves	ea.	5		\$0.00
14.05	(1.8.3.1)	200mm Gate Valves	ea.	1		\$0.00
14.06	(1.8.3.1)	250mm Gate Valves	ea.	2		\$0.00
14.07	(1.8.3.1)	Tee - 150mm x 150mm x 150mm DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	1		\$0.00
14.08	(1.8.3.1)	Tee - 250mm x 250mm x 150mm DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	4		\$0.00
14.09	(1.8.3.1)	Cross - 250mm x 250mm x 200mm x 200mm DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	1		\$0.00
14.10	(1.8.3.1)	Bend - 200mm 45° DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	4		\$0.00
14.11	(1.8.3.1)	Bend - 250mm 45° DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	4		\$0.00
14.12	(1.8.3.1)	Reducer - 250mm x 200mm DI (TR Flex or Tyton c/w Approved Joint Restraints)	ea.	2		\$0.00
14.13	(1.8.3.3)	Removal of Existing Hydrants	ea.	2		\$0.00
14.14	(1.8.4.1)	50mm Water Service Connection (COQ-W2e) w/ Municipex and #10 AWG Tracer Wire	m	244		\$0.00
14.15	(1.8.4.1)	Supply & Install Terminal City Nelson type valve box c/w lid marked "Water"; including precast concrete boxes and meter setter as per Coquitlam Water Meter Specifications detail drawing WM-3 c/w spool piece in place of meter. (do not provide or install meter)	ea.	26		\$0.00
14.16	(1.8.4.2)	Transfer 19mm Existing Water Service to new main (Coq-W2b-1 or Coq-W2b-2)	ea.	44		\$0.00
14.17	(1.8.5)	Air Valve Assembly, Chamber and Vent (COQ-W6)	ea.	2		\$0.00
14.18	(1.8.15)	New Fire Hydrant Assembly	ea.	2		\$0.00
14.19	(1.8.15)	New Fire Hydrant Lead DI (Re-Use Ex. Hydrant Body)	m	6		\$0.00
14.20	(1.8.16)	Watermain tie-in including capping (to ex. 150mm)	ea.	2		\$0.00
14.21	(1.8.16)	Watermain tie-in including capping (to ex. 200mm)	ea.	4		\$0.00
14.22	(1.8.16)	Watermain tie-in including capping (to ex. 250mm)	ea.	2		\$0.00
Name of Contractor: _____			<b>Total Tendered Price (exclude GST):</b>			
			(Transfer the amount to Form of Tender Summary Page 1)			



**APPENDIX 3**

**FORM OF TENDER**

**Contract 89037**

**Brunette, Coleman, Rochester Watermain Replacements**

**EXPERIENCE OF SUPERINTENDENT**

(See paragraph 5.3.3 of the Instructions to Tenderers)

Proposed Project Superintendent \_\_\_\_\_

**List of Project Experience**

<b>PROJECT:</b>		<b>Dates:</b>	
<b>Work Description:</b>			
<b>Responsibility:</b>			
<b>Owner/Reference:</b>		<b>Phone No.:</b>	

<b>PROJECT:</b>		<b>Dates:</b>	
<b>Work Description:</b>			
<b>Responsibility:</b>			
<b>Owner/Reference:</b>		<b>Phone No.:</b>	

<b>PROJECT:</b>		<b>Dates:</b>	
<b>Work Description:</b>			
<b>Responsibility:</b>			
<b>Owner/Reference:</b>		<b>Phone No.:</b>	



**APPENDIX 4**

**FORM OF TENDER**

**Contract 89037**

**Brunette, Coleman, Rochester Watermain Replacements**

**CONTRACTOR'S COMPARABLE WORK EXPERIENCE**

(See paragraph 5.3.4 of the Instructions to Tenderers)

<b>PROJECT:</b>		<b>VALUE (\$):</b>	
<b>OWNER:</b>		<b>Phone No.:</b>	
<b>Work Description:</b>			

<b>PROJECT:</b>		<b>VALUE (\$):</b>	
<b>OWNER:</b>		<b>Phone No.:</b>	
<b>Work Description:</b>			

<b>PROJECT:</b>		<b>VALUE (\$):</b>	
<b>OWNER:</b>		<b>Phone No.:</b>	
<b>Work Description:</b>			

<b>PROJECT:</b>		<b>VALUE (\$):</b>	
<b>OWNER:</b>		<b>Phone No.:</b>	
<b>Work Description:</b>			

**APPENDIX 5**

**FORM OF TENDER**

**Contract 89037**

**Brunette, Coleman, Rochester Watermain Replacements**

**SUBCONTRACTORS**

(See paragraph 5.3.5 of the Instructions to Tenderers)

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No.:</b>	

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No.:</b>	

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No.:</b>	

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No.:</b>	

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No.:</b>	

**APPENDIX 6**

**FORM OF TENDER**

**Contract 89037  
Brunette, Coleman, Rochester Watermain Replacements**

**Bid Bond**

NO. \_\_\_\_\_

\$ \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS THAT

\_\_\_\_\_  
As Principal, hereinafter called the Principal, and

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

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

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

WHEREAS, the Principal has submitted a written Tender to the Obligee, dated the \_\_\_\_\_ day of  
\_\_\_\_\_, 2025, for Contract \_\_\_\_\_.

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

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

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

IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused  
these presents to be sealed with its corporate seal duly attested by the signature of its Attorney-In-Fact,  
this \_\_\_\_\_ day of \_\_\_\_\_, 2025.

SIGNED, SEALED AND DELIVERED

In the presence of:

_____ )	_____
_____ )	PRINCIPAL
_____ )	
_____ )	_____
_____ )	SURETY

---

**APPENDIX 7**

**FORM OF TENDER**

**Contract 89037**

**Brunette, Coleman, Rochester Watermain Replacements**

**CERTIFICATE OF COMPLIANCE for CONTRACT INSURANCE**

---

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

**Contract Number:** 89037

**Contract Name:** Brunette, Coleman, Rochester Watermain Replacements

**Description of Work:**

- 150mm Diameter Watermain c/w Appurtenances : 78 Linear Meters
- 200mm Diameter Watermain c/w Appurtenances: 400 Linear Meters
- 250mm Diameter Watermain c/w Appurtenances: 704 Linear Meters
- 50mm Muncipex Water Service c/w #10 AWG Tracer Wire: 384 Linear Meters
- Nelson Box c/w Curb-Stop and Meter Setter: 40 Each
- Air Valves: 2 Each
- Hydrants: 3 Each
- Watermain Tie-ins to Existing: 11 Each
- Other miscellaneous and incidental work contained in the Contract Documents.

**Commercial General Liability:** \$5,000,000 limit

**Special Coverage Required:**

<b>YES</b>	<b>NO</b>	<b>Special Coverage Description</b>
( )	( X )	Shoring and Underpinning Hazard
( )	( X )	Pile Driving and Vibrations
( )	( X )	Excavation Hazard
( )	( X )	Demolition
( )	( X )	Blasting

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

---

Name of Tenderer (printed)

---

Authorized Signature

---

Date

# ***Agreement***

---

## AGREEMENT

### Between Owner and Contractor

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

**THIS AGREEMENT** made in duplicate this \_\_\_\_ day of \_\_\_\_\_ 2025.

**Contract:** Brunette, Coleman, Rochester Watermain Replacements

**Reference No.** 89037

**BETWEEN:**

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

(the "Owner")

**AND:**

(the "Contractor")

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

**1 THE WORK - START/COMPLETION DATES**

- 1.1 The *Contractor* will perform all *Work* and provide all labour, equipment and material and do all things strictly as required by the *Contract Documents*.
- 1.2 The *Contractor* will commence the *Work* in accordance with the *Notice to Proceed*. The *Contractor* will proceed with the *Work* diligently, will perform the *Work* generally in accordance with the construction schedules as required by the *Contract Documents* and will achieve *Substantial Performance* of the *Work* on or before **March 31, 2026**, subject to the provisions of the *Contract Documents* for adjustments to the *Contract Time*.
- 1.3 Time shall be the essence of the Contract.

## **2 CONTRACT DOCUMENTS**

- 2.1 The "*Contract Documents*" consist of the documents listed or referred to in Schedule 1, entitled "*Schedule of Contract Documents*", which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the *Contract Documents*. All of the *Contract Documents* shall constitute the entire *Contract* between the *Owner* and the *Contractor*.
- 2.2 The *Contract* supersedes all prior negotiations, representations or agreements, whether written or oral, and the *Contract* may be amended only in strict accordance with the provisions of the *Contract Documents*.

## **3 CONTRACT PRICE**

- 3.1 The price for the *Work* ("*Contract Price*") shall be the sum in Canadian dollars of the following:
- a) the product of the actual quantities of the items of *Work* listed in the *Schedule of Quantities and Prices* which are incorporated into or made necessary by the *Work* and the unit prices listed in the *Schedule of Quantities and Prices*; plus
  - b) all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus
  - c) any adjustments, including any payments owing on account of *Changes* and agreed to *Extra Work*, approved in accordance with the provisions of the *Contract Documents*.
- 3.2 The *Contract Price* shall be the entire compensation owing to the *Contractor* for the *Work* and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the *Work*.

## **4 PAYMENT**

- 4.1 Subject to applicable legislation and the provisions of the *Contract Documents*, the *Owner* shall make payments to the *Contractor*.
- 4.2 If the *Owner* fails to make payments to the *Contractor* as they become due in accordance with the terms of the *Contract Documents* then interest calculated at 2% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.

## **5 RIGHTS AND REMEDIES**

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

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

## 6 NOTICES

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

The *Owner*:

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

Tel: 604-927-3500

The *Contractor*:

Tel:  
Email:  
Attention:

The *Contract Administrator*:

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

Tel:  
Email:  
Attention:

6.2 A communication or notice that is addressed as above shall be considered to have been received:

- a) immediately upon delivery, if delivered by hand; or
- b) immediately upon transmission if sent or received by email; or
- c) after 5 days from date of posting if sent by registered mail.

6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly if the *Contract Administrator* changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.

## 7 GENERAL

7.1 This *Contract* shall be construed according to the laws of British Columbia.



- 7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.
- 7.3 The headings included in the *Contract Documents* are for convenience only and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.
- 7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.
- 7.5 This agreement shall enure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns

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

*Contractor:*

\_\_\_\_\_  
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

\_\_\_\_\_  
(AUTHORIZED SIGNATORY)

\_\_\_\_\_  
(AUTHORIZED SIGNATORY AND POSITION - PRINT)

*Owner:*

The City of Coquitlam

\_\_\_\_\_  
(MANAGER, CAPITAL PROJECTS AND INSPECTIONS)  
Representative as Per G.C. 17

\_\_\_\_\_  
(SENIOR MANAGER, DESIGN AND CONSTRUCTION)

## **Brunette, Coleman, Rochester Watermain Replacements**

**Reference No: 89037**

### **Schedule 1**

#### **Schedule of Contract Documents**

**(INCLUDE IN LIST ALL DOCUMENTS INCLUDING, IF ANY, SUPPLEMENTARY GENERAL CONDITIONS, SUPPLEMENTARY SPECIFICATIONS, SUPPLEMENTARY STANDARD DETAIL DRAWINGS)**

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

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

1. Agreement, including all Schedules;
2. The following Addenda:
  - As issued
3. Supplementary General Conditions, if any;
4. General Conditions\*;
5. Supplementary Specifications, if any;
6. Detail Specifications, if any;
7. Specifications\*;
8. Supplementary Detail Drawings, if any;
9. Standard Detail Drawings\*;
10. Executed Form of Tender, including all Appendices;
11. Drawings listed in Schedule 2 to the Agreement – "List of Drawings", if any;
12. Instructions to Tenderers;
13. COQUITLAM "Supplementary Specifications Master Municipal Construction Documents" March 2022

**Brunette, Coleman, Rochester Watermain Replacements**

**Reference No: 89037**

**Schedule 2**

**LIST OF DRAWINGS**

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

**Bound in this Document:**

**Appendix A: Traffic Management Detail Specifications**

**Appendix B: Contract Drawings**

TITLE	SHEET NO.	REVISION NO.	DATE
<b>COVER – WATERMAIN REPLACEMENTS BRUNETTE, COLEMAN, AND ROCHESTER</b>	-	-	<b>APRIL 2025</b>
<b>BRUNETTE AVENUE (SITE #1) - HILLSIDE AVE TO 20M SOUTH OF COLEMAN</b>	<b>W1 OF W7</b>	<b>4</b>	<b>11-APR-2025</b>
<b>COLEMAN AVE (SITE #2) – BRUNEETE AVENUE TO 50M NORTH OF LOUGHEED HWY</b>	<b>W2 OF W7</b>	<b>4</b>	<b>11-APR-2025</b>
<b>BRUNETTE AVE (SITE #1) &amp; COLEMAN AVE (SITE #2) - DETAILS</b>	<b>W3 OF W7</b>	<b>4</b>	<b>11-APR-2025</b>
<b>ROCHESTER AVENUE (SITE #3) BLUE MOUNTAIN ST TO LEBLEU ST – PLAN AND PROFILE</b>	<b>W4 OF W7</b>	<b>4</b>	<b>11-APR-2025</b>
<b>ROCHESTER AVENUE (SITE #3) LEBLEU ST TO MARMONT ST – PLAN &amp; PROFILE</b>	<b>W5 OF W7</b>	<b>4</b>	<b>11-APR-2025</b>
<b>LEBLEU STREET (SITE #3) ROCHESTER AVE TO WALLS AVE – PLAN &amp; PROFILE</b>	<b>W6 OF W7</b>	<b>4</b>	<b>11-APR-2025</b>
<b>ROCHESTER AVE (SITE #3) - DETAILS</b>	<b>W7 OF W7</b>	<b>4</b>	<b>11-APR-2025</b>

# ***Supplementary General Conditions***

## SUPPLEMENTARY GENERAL CONDITIONS

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**1.0 DEFINITIONS**

**1.1 Abnormal Weather** 1.1.1 **(Replace clause 1.1.1 as follows):**  
Abnormal Weather” means temperature, precipitation, wind or other weather conditions in which the monthly average, differs from the statistical average for that condition in that period by more than one standard deviation, calculated based on data available from Environment Canada. Coquitlam’s Burke Mountain Rain Gauge will be used to compare the rainfall summary versus the available data from Environment Canada.  
[City of Coquitlam Rainfall](#)

**2.0 DOCUMENTS**

**2.2 Interpretation** 2.2.4 (1) **(Replace clause 2.2.4 (1) as follows):**  
The Contract Documents shall govern and take precedence in the following order as listed in Schedule 1 of the Agreement, taking precedence over all Contract Documents.

**4.0 CONTRACTOR**

**4.1 Control of the Work** 4.1.1 **(Add to clause 4.1.1 as follows):**  
The *Contractor* is responsible for all survey layout for the construction of the Work to the design specifications and/or elevations as shown on the contract drawings or as amended on site by the Contract Administrator.

4.1.2 **(Add to clause 4.1.2 as follows):**  
The Contractor shall not deposit any material upon any street, sidewalk, boulevard or other property, without the Contract Administrator’s or the Owner’s permission, nor shall they allow the same to remain longer than necessary. All surplus spoil and rubbish and other waste material shall be removed from the site so that the area of work is cleaned up and restored to as clean a condition as it was before the Contract started, within four days of the Contract Administrator’s written request to do so, failing which the Owner may carry out the work or have the work carried out by others and recover the costs from the Contractor or may deduct the cost from any monies due or that may become due to the Contractor.

4.1.3 **(Add new clause 4.1.3 as follows):**  
Work can be performed during the normal weekday working hours of 0700h to 1900h, unless specified otherwise in Supplementary Specifications - Appendix A: Traffic Management Detail Specifications. Written

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

permission from the Contract Administrator will be required for any works to be performed outside of the normal working days of Monday to Friday.

No Sunday work will be permitted, except in case of emergency and then only with the written permission of the Contract Administrator and to such extent as he deems necessary.

In case the Contractor decides to work on a day which is a Statutory Holiday, they shall provide the Contract Administrator in writing at least (4) days in advance of such holiday, stating those places where said work is to be conducted. In case the Contractor fails to give such notice in advance of any Statutory Holiday, no work within the terms of the contract shall be done on such holiday.

**The cost of inspections on a Sunday or on a Statutory Holiday by City staff/s will be at Contractor's expense.**

**4.2 Safety**

4.2.2

***(Add new clause 4.2.2 as follows):***

*In an emergency, gas pipeline rupture or leak, Contact FortisBC's 24 Hour Emergency Line (1-800-663-9911) and Coquitlam Fire (911) immediately and then City of Coquitlam's Utility Control Centre (604-927-6287).*

**4.3 Protection of Work, Property and the Public**

4.3.1

***(Replace clause 4.3.1 as follows):***

In performing the Work, the Contractor shall protect the Work and the Owner's property and other person's property from damage. The Contractor shall at the Contractor's own expense make good any such damage which arises as the result of the Contractor's operations. If the Contractor causes damage to private property, the Contractor must obtain a written release from the owner of the damaged property.

4.3.5.1

***(Add clause 4.3.5.1 as follows):***

The Contractor shall notify the Contract Administrator immediately if damage occurs to any City or third party utility or structure.

4.3.7

***(Add new clause 4.3.7 as follows):***

Any lands other than those upon which the work is to be performed, which may be required for temporary facilities, storage purposes or access to the work site, other than those provided by the *Owner*, shall be provided by the *Contractor* at their own cost, with no liability to the *Owner*.



- |            |                                  |       |   |
|------------|----------------------------------|-------|---|
| <b>4.6</b> | <b>Construction<br/>Schedule</b> | 4.6.1 | <b><i>(Replace clause 4.6.1 as follows):</i></b><br>The Contractor shall within the time set out in the Form of Tender prepare and submit to the Contract Administrator for their approval a construction schedule (the Baseline Construction Schedule) indicating the planned start and completion dates of major activities of the Work. The Baseline Construction Schedule shall be in more detail than the Preliminary Construction Schedule and shall indicate completion of the Work in compliance with any specified Milestone Dates, including Substantial Performance. |
|            |                                  | 4.6.6 | <b><i>(Replace clause 4.6.6 as follows):</i></b><br>The time for the performance of the Work shall commence on the date specified in the Notice to Proceed, or if not so specified, on the date the Notice to Proceed is issued. The Notice to Proceed will not be issued until the documentation required under paragraph 5.1.1 of the Form of Tender has been submitted and the construction schedule has been approved.  |
|            |                                  | 4.6.8 | <b><i>(Add new clause 4.6.8 as follows):</i></b><br>Any requests to lengthen the work schedule shall be made in writing by the Contractor within five working days of knowledge of the reason for the extension. The Contract Administrator will adjust the schedule at their discretion upon receipt of a written request.   |
| <b>4.7</b> | <b>Superintendent</b>            | 4.7.4 | <b><i>(Add new clause 4.7.4 as follows):</i></b><br>The key personnel named in the Contractor's Tender response, shall remain in these key positions throughout the project. In the event that key personnel leave the Contractor's firm, or for any unknown reason are unable to continue fulfilling their role, the Contractor must propose a suitable replacement, and obtain written consent from the Owner. Acceptance of the proposed replacement is at the sole discretion of the Contract Administrator and the Owner.  |
| <b>4.8</b> | <b>Workers</b>                   | 4.8.2 | <b><i>(Add new clause 4.8.2 as follows):</i></b><br>The Contractor shall, upon the request of the Contract Administrator, remove any person employed by them for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted themselves improperly, and the Contractor shall not permit a person who has been removed to return to the Place of Work.   |

**4.9 Materials**

4.9.3

***(Add new clause 4.9.3 as follows):***

The Contractor shall, at their cost,

- a) Be responsible for storing all of the materials supplied for the Work either by themselves or the Owner, until it has been incorporated into the completed Work;
- b) Store all materials in a manner which will prevent damage from the weather, dirt, foreign matter, vandalism and theft;
- c) Arrange for and/or verify the time of delivery of all materials to be supplied by themselves or the Owner to ensure that delivery will coincide with their work schedules.
- d) Examine with the Contract Administrator the quantities and details of all materials supplied by the Owner at the time and place of delivery or those materials already at the Place of Work, and prepare and sign a Statement of Materials Acceptance, specifically noting and rejecting any defective material;
- e) Replace all materials supplied by themselves or the Owner which are found to be stolen, missing or damaged while under their care;
- f) Replace all materials found to be defective in manufacture which have been supplied by themselves.

**4.11 Subcontractors**

4.11.3

***(Replace clause 4.11.3 as follows):***

The Contractor shall, upon notice of the Contract Administrator, remove any Subcontractor employed by them for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted themselves improperly, and the Contractor shall not permit the Subcontractor who has been removed to return to the Place of Work. The removal of a Subcontractor under this clause shall not be considered a Change and the Contract Price and the Contract Time shall not be adjusted.

**4.12 Test and Inspections**

4.12.1

***(Replace clause 4.12.1 as follows):***

The Contractor shall perform or cause to be performed all tests, inspections and approvals of the Work as described in the Contract Documents or a required by the Contract Administrator as part of Quality Control. The Contractor shall complete all the necessary testing at the frequencies described in the Contract Document unless otherwise approved by the Contract Administrator.

Acceptable test and inspection results will not relieve the Contractor of its obligations under the Contract to correct defects or deficiencies in the Work.

4.12.11

***(Add clause 4.12.11 as follows):***

Failure to follow DFO/FLNRO BMPs and the approved permit for Instream Works or as instructed by Contract Administrator will result in shut-down of the work. The Contractor must take all steps to mitigate impacts to aquatic resources, environment and habitats before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.

**4.14 Final Clean-up**

4.14.1

***(Replace clause 4.14.1 as follows):***

Prior to applying for Substantial Performance, the Contractor shall remove all surplus products, tools, construction machinery and equipment relating to the Work that is not required for the performance of the remaining Work. The Contractor shall also remove waste, debris and waste products other than caused by the Owner or Other Contractors, and leave the Place of Work clean and suitable for occupancy by the Owner unless otherwise specified in the Contract Documents or directed by the Contract Administrator.

**4.16 Notice of Disruption**

4.16.2

***(Add new clause 4.16.2 as follows):***

Written notice must be provided to all properties which may be physically affected by the construction not less than one week and not more than two weeks prior to construction.

Notify occupants directly affected by the work 48 hours in advance of commencement of construction. Cost of notifying area occupants of ensuing construction and delivery of the notices is incidental to the Contract.

**7.0 CHANGES**

**7.1 Changes**

7.1.3

***(Replace clause 7.1.3 as follows):***

Additional work that the Owner may wished performed that does not satisfy the requirements of subparagraphs (a) and (b) of GC 7.1.1 is extra work (Extra Work) and is not a Change. Pursuant to GC 8, Extra Work may be declined by the Contractor or may, upon agreement between the parties, be undertaken as Extra Work.

**7.4 Optional Work**

7.4.2

***(Add new clause 7.4.2 as follows):***

If there are Optional items or Provisional items included in the *Schedule of Quantities and Prices*, those items shall be used only as directed and at the sole discretion of the Contract Administrator through the issue of a Change Order. These items will be paid at the contract unit price as part of regular progress payments. Only quantities used will be eligible for payment. No claim will be accepted for

unused Optional or Provisional quantities. Clause 9.4 Quantity Variations will not be applicable for these items.

**9.0 VALUATION OF CHANGES AND EXTRA WORK**

**9.2 Valuation Method 9.2.4**

***(Replace clause 9.2.4 as follows):***

Once a quotation is accepted by the Contract Administrator, or other agreement reached between the Contract Administrator and the Contractor regarding adjustments to the Contract Price or Contract Time on account of a Change or Extra Work, the Contractor shall not be entitled to claim or receive additional payment, or adjustment to the Contract Time on account of a Change or Extra Work.

**9.4 Quantity Variation 9.4.1**

***(Replace clause 9.4.1 as follows):***

If for any reason, including an addition or deletion under GC 7.1.1(1) or 7.1.1(2) respectively, the actual quantity of a unit price item varies by more than plus or minus the Variance Threshold Percentage from the estimated quantity for that unit price item listed in the Schedule of Quantities and Prices (the "Tender Quantity") or as otherwise agreed to pursuant to these Contract Documents, then either the Owner or the Contractor may by written notice request the other party to agree to a revised unit price, considering the change in quantities. A party shall make a request for a revised unit price as soon as reasonably possible after the party concerned becomes aware of the quantity variation.

**9.4.2 *(Delete clause 9.4.2 (2))***

**10.0 FORCE ACCOUNTS**

**10.1 Force Account Costs 10.1.1(1)**

***(Add to clause 10.1.1(1) as follows):***

Costs for the Contractor's Superintendent, Project Managers, Health and Safety Personnel, and Office/Administration Staff are not eligible for labour costs as those costs are considered incidental to the mark up owing for overhead and labour.

**10.1.1(4) *(Replace clause 10.1.1(4) as follows):***

Force Account Work performed by a subcontractor shall be paid for in the lesser of: (i) the amount provided by subparagraphs (1), (2) and (3) of this GC, plus a mark-up of 5%, or (ii) the actual amount the Contractor pays the subcontractor including a mark-up of 10% on such actual costs to cover all overhead and profit.

**12.0 HAZARDOUS MATERIALS**

**12.2 Discovery of Hazardous Materials**

12.2.2

***(Replace clause 12.2.2 as follows):***

If the Contract Administrator observes any materials at the Place of Work that the Contract Administrator knows or suspects may be Hazardous Materials, then the Contract Administrator shall immediately give written notice to the Contractor and the Contractor shall immediately stop the Work or portion of the Work as required by GC 12.2.1(1).

**13.0 DELAYS**

**13.1 Delay by Owner or Contract Administrator**

13.1.2

***(Add new clause 13.1.2 as follows):***

The Owner may at any time suspend the work or any portion thereof provided they give the Contractor five (5) days' written notice of delay. The Contractor shall resume work upon written notice from the Owner. The Contractor shall be entitled to:

- a) An extension of the Contract time equivalent to the length of suspension of work.
- b) Reimbursement by the Owner for directly related out-of-pocket additional costs, reasonably and necessarily incurred by the Contractor as a result of such suspension. No additional payment will be made to the Contractor for any loss of profits or overhead.

**13.3 Unavoidable Delay**

13.3.1

***(Add to clause 13.3.1 as follows):***

Beyond the reasonable control of the Contractor also includes pandemic or community outbreak

**13.8 Direction to Stop or Delay**

13.8.3

***(Add new clause 13.8.3 as follows):***

The Contract Administrator may order the Contractor to stop work if at any time the Contract Administrator is of the opinion that there exists a danger to life or property.

**13.9 Liquidated Damages for Late Completion**

13.9.1

***(Replace clause 13.9.1 as follows):***

If the Contractor fails to meet the Milestone Date for Substantial Performance as set out in the Form of Tender, paragraph 2.2 as may be adjusted pursuant to the provisions of the Contract Documents, then the Owner may deduct from any monies owing to the Contractor for the Work:

- (1) An amount of \$1,000.00 for each calendar day the actual *Substantial Performance* is achieved after the Substantial Performance Milestone Date; plus

(2) All direct out of pocket costs, such as costs for safety, security or equipment rental, reasonably incurred by the Owner as a direct result of such delay.

If the monies owing to the Contractor are less than the total amount owing by the Contractor to the Owner under (1) and (2) then any shortfall shall immediately, upon written notice from the Owner, and upon Substantial Performance, be due and owing by the Contractor to the Owner.

**18.0 PAYMENT**

**18.1 Preparation of Payment Certificate**

18.1.1

***(Replace clause 18.1.1 as follows):***

The Contract Administrator shall prepare and issue a certificate for the period ending the last calendar day of the month.

**18.4 Holdbacks**

18.4.2

***(Add to clause 18.4.2 as follows):***

At the sole discretion of the Contract Administrator, an amount equivalent to 10% of the contract award value or 200% of a reasonable estimate, whichever is higher, may be held without interest until all deficiencies have been remedied and accepted by the Contract Administrator.

**18.6 Substantial Performance**

18.6.5

***(Replace clause 18.6.5 as follows):***

The Owner may release any builders lien holdback on the 56th day following the date of Substantial Performance, or other date as required by law, but the Owner may hold back the amounts for any deficiencies or filed builders liens as provided in GC 18.4.2, 18.4.3 and 18.4.4.

18.6.6

***(Replace clause 18.6.6 as follows):***

The *Contract Administrator*, as defined herein, shall be the *Payment Certifier* responsible under Section 7 of the *Builders Lien Act* for certifying *Substantial Performance* of the *Work* of the *Contractor*, but not the *Work* of *Subcontractors*. The *Contractor* shall cooperate with and assist the *Contract Administrator* by providing information and assistance in a timely manner as the *Contract Administrator* considers necessary to carry out the duties of the *Payment Certifier* for the *Contract*.

The *Contractor* shall be the *Payment Certifier* responsible under Section 7 of the *Builders Lien Act* for certifying *Substantial Performance* of the *Work* of each *Subcontractor*. Prior to certifying completion for a *Subcontractor*, the *Contractor* shall consult the *Contract Administrator* and obtain the *Contract Administrator's* comments on the status of completion by the *Subcontractor*, including any deficiencies or defects in the *Subcontractor's Work* noted by

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

the *Contract Administrator*. The *Contractor* will indemnify and save the *Owner* harmless from any and all liability the *Owner* may have to anyone arising out of the certification by the *Contractor* of *Substantial Performance* for that *Subcontractor*.

Notwithstanding any other provision of the *Contract*, no payments will be due or owing to the *Contractor* so long as a Lien filed by anyone claiming under or through the *Contractor* remains registered against the Project of any lands, or interest therein, on which *Work* for the project was performed. Failure of the *Contractor* to remove all Liens promptly will entitle the *Owner* to damages.

**21.0 WORKERS  
COMPENSATION  
REGULATIONS**

**21.2 Contractor is  
"Prime Contractor"**

21.2.1

***(Add to clause 21.2.1 as follows):***

Prior to the issuance of the "Notice to Proceed" the Contractor must provide a signed "Prime Contractor Designation" form as provided in Appendix IV of these Supplementary General Conditions.

**24.0 INSURANCE**

***(Replace section 24.0 as follows):***

**24.1 General**

24.1.1

**Importance of Prompt Attention to Insurance Requirements:**

The Contractor shall provide the Owner with satisfactory evidence that the insurance required to be provided under this GC is in full force and effect.

24.1.2

**Acceptable Insurance Carriers:**

The insurer issuing any policy, or other document which is evidence of insurance to the Contractor, shall be an insurer licensed by the Superintendent of Insurance in the Province of British Columbia and registered with the Department of Insurance for Canada in Ottawa, except the Insurance Corporation of British Columbia, which is not subject to this condition.

24.1.3

**Owner's Right to Change Terms:**

Notwithstanding anything contained in the Contract Documents, the Owner will have the right to request a change to the specified terms and conditions respecting insurance at the sole option of the Owner. The Contractor will be notified in writing of any changes required by the Owner and will provide a quotation for such work.

24.1.4 **Delivery of Insurance Documents:**

All insurance policies or other acceptable specified documents shall be delivered to, and accepted by, the Owner before the Contract Documents are signed. No work shall be commenced by the Contractor or by anyone acting on the instructions of the Contractor, until the required Insurance Documents have been accepted by the Owner and the Contract Documents have been duly signed by the Owner and the Contractor.

24.1.5 **Owner's Right to Insure:**

Should the Contractor for any reason not comply with the specified requirements with respect to the insurance, the Owner will, at the Owner's option, have the right to purchase all or any part of such insurance which, in the opinion of the Owner, may be required to provide the specified insurance, and, in the event of so doing, the Owner will have the right to pay the premiums for such insurance and to withhold the amount of premiums so paid from any amount due and payable to the Contractor under the Contract.

**24.2 Required Insurance**

24.2.1 **General**

Damage to work (excluding Building Contracts where Section 24.3, Paragraph 24.3.1, Further Responsibilities of Contractor, applies).

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

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

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



24.2.2 **Public Liability Insurance:**  
(Other than Automobile Third Party Liability Insurance):

**Evidence of Insurance:**

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

**Effective Dates and Terms:**

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

**Limits of Liability:**

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

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

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

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

24.3.1 **Responsibility for Placing Insurance:**

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

24.3.2 **Insurance Coverage Required:**

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

24.3.3 **Responsibility of Contractor – Limitations of cover and deductibles:**

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

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

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

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

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

24.3.6 **Contractor's Waiver of Liability to Coquitlam:**

The Contractor hereby releases the City of Coquitlam from any and all liability for damages to the extent that such

damages are covered by the course of construction insurance referred to in Section 24.3 of these specifications.

24.3.7 **Liability of Contractor:**

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

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

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

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

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

24.3.10 **Further responsibility of Contractor:**

Other than with respect to loss or damage arising out of insured risks and herein before specified, the Contractor shall be responsible for all loss or damage whatsoever which may occur on or to the works completed or otherwise, until such time as the entire works have been completed and the Notice of Acceptance has been issued by the Owner, except that loss or damage caused solely by an act of the Owner.

In the event of any loss or damage occurring, the Contractor shall on notice from the Owner immediately put the works into the condition it was immediately prior to such loss or damage, all at the Contractor's expense except as previously stated.

24.3.11 **Owner Not Responsible for Loss or Damage or Loss of Use of Property of Contractors and their Employees:**

The Owner will not be responsible for securing or paying for insurance of any kind other than as specified in Section 24.3 of these specifications nor will the Owner have any responsibility whatsoever for loss or damage from whatever cause occurring to property owned, leased, or otherwise in the possession of the Contractor, subcontractors or their employees including, without restricting the generality of the foregoing, machinery, equipment, tools, supplies, and clothing at the construction site or elsewhere including loss of use of same.

**24.4 Additional Insured** 24.4.1

**The Contractor shall ensure the following are named as "additional insured" on the liability policy for this contract:**

- The City of Coquitlam

The City may identify private properties that are directly affected by construction. If so, the Contractor shall include the legal owners of these properties named as "additional insured" on the liability policy for this contract.

**25.0 MAINTENANCE PERIOD**

**25.1 Correction of Defects** 25.1.4

***(Add new clause 25.1.4 as follows):***

The Owner is authorized to make repairs to defects or deficiencies if, ten days after giving written notice, the Contractor has failed to make or undertake with due diligence the required repairs. However, in the case of emergency where, in the opinion of the Owner, delay is not

reasonable, repairs may be made without notice being sent to the Contractor. All expenses incurred by the Owner in connection with repairs made pursuant to GC 25 shall be paid by the Contractor or may be deducted from the Maintenance Security, or other holdbacks. The Contractor shall promptly pay any shortfall.

**27.0 CONTRACTOR  
PERFORMANCE  
EVALUATION**

27.1

***(Add new clause 27.1 as follows):***

After the completion of the Contract, the Contractor will be evaluated on their performance of the Work. The evaluation will provide percentage scores on the following categories:

1. *Contract Administration*
2. *Construction Management*
3. *Schedule Management*
4. *Communications*
5. *Resource Management and Contractor Performance*
6. *Quality Management*

*An evaluation summary report may be issued to the Contractor with scores for each of these categories. Upon request, the Contractor may attend a meeting with the City to discuss the evaluation.*

*This internal evaluation may be reviewed for reference on subsequent tenders with the City. Evaluation scores can form part of the tender analysis and influence contract award decisions.*

*Evaluation Scores in categories that are below 50% may result in a suspension of tendering privileges with the City.*

**APPENDIX I**

**PERFORMANCE BOND**

NO. \_\_\_\_\_ \$ \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS THAT

\_\_\_\_\_  
As Principal, hereinafter called the Principal, and

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

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

\_\_\_\_\_ Dollars  
(\$ \_\_\_\_\_ )

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

WHEREAS, the Principal has entered into a written contract with the Obligee, dated the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_, for

\_\_\_\_\_  
\_\_\_\_\_

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

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

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

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

1. Complete the Contract in accordance with its terms and conditions, or
2. Obtain a bid or bids for submission to Obligee for completing the Contract in accordance with its terms and conditions, and upon determination by Obligee and Surety of the lowest responsible bidder, arrange for a contract between such bidder and Obligee and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term 'balance of the contract price', as used in this paragraph, shall mean the total amount payable by Obligee to Principal under the Contract less the amount properly paid by Obligee to Principal.

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

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

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

IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused these presents to be sealed with its corporate seal duly attested by the signature of its Attorney-in-fact, this \_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_.

SIGNED, SEALED and DELIVERED

In the presence of

)  
)  
)  
)  
)

\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
SURETY

\_\_\_\_\_

**APPENDIX II**

**LABOUR AND MATERIAL PAYMENT BOND**

(Private Contracts – Trustee Form)

NO. \_\_\_\_\_

\$ \_\_\_\_\_

Note: This Bond is issued simultaneously with another Bond in favour of the Obligee conditioned for the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS THAT

\_\_\_\_\_  
As Principal, hereinafter called the Principal, and

\_\_\_\_\_  
As Surety, hereinafter called the Surety, are, subject to the conditions hereinafter contained, held and firmly bound unto

\_\_\_\_\_  
As Trustee, hereinafter called the Obligee, for the use and benefit of the Claimants, their and each of their heirs, executors, administrators, successors and assigns in the amount of

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

SIGNED AND SEALED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

WHEREAS, the Principal has entered into a written contract with the Obligee dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, for

\_\_\_\_\_  
\_\_\_\_\_

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Principal shall make payment to all Claimants for all labour and material used or reasonably required for use in the performance of the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

\_\_\_\_\_  
These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009



1. A Claimant for the purpose of this Bond, is defined as one having a direct contract with the Principal for labour, material, or both, used or reasonably required for use in the performance of the Contract, labour and material being construed to include the part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment directly applicable to the Contract provided that a person, firm or corporation who rents equipment to the Principal to be used in the performance of the Contract under a contract which provides that all or any part of the rent is to be applied towards the purchase price thereof shall only be a Claimant to the extent of the prevailing industrial rental value of such equipment for the period during which the equipment was used in the performance of the Contract. The prevailing industrial rental value of equipment shall be determined, insofar as it is practical to do so, in accordance with and in the manner provided for in the latest revised edition of the publication of the Canadian Construction Association entitled "Rental Rates on Contractors' Equipment" published prior to the period during which the equipment was used in the performance of the Contract.
2. The Principal and the Surety hereby jointly and severally agree with the Oblige as Trustee that every Claimant who has not been paid as provided for under the terms of his contract with the Principal before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labour was done or performed or materials were furnished by such Claimant, may as a beneficiary of the trust herein provided for, sue on this Bond, prosecute the suite to final judgment for such sum or sums as may be justly due to such Claimant under the terms of his said contract with the Principal and have execution thereon. Provided that the Oblige is not obliged to do or take any act, action or proceeding against the Surety on behalf of the Claimants or any of them to enforce the provisions of this Bond. If any act, action or proceeding is taken either in the name of the Oblige or by joining the Oblige as a party to such proceedings then such act, action or proceeding shall be taken on the understanding and basis that the Claimants or any of them who take such act, action or proceeding shall indemnify and save harmless the Oblige against all costs, charges and expense or liabilities incurred thereon and any loss or damage resulting to the Oblige by reasons thereof. Provided still further that subject to the foregoing terms and conditions, the Claimants or any of them may use the name of the Oblige to sue on and enforce the provisions of this Bond.
3. No suit or action shall be commenced hereunder by any Claimant:
  - a) unless such Claimant shall have given written notice within the time limits hereinafter set forth to each of the Principal, Surety and Oblige, stating with substantial accuracy the amount claimed. Such notice shall be served by mailing the same by registered mail to the Principal, Surety and Oblige at any place where an office is regularly maintained for the transaction of business by such persons or served in any manner in which legal process may be served in the Province or other part of Canada in which the subject matter of the contract is located. Such notice shall be given (i) in respect of any claim for the amount or any portion thereof required to be held back from the Claimant by the Principal under either the terms of the Claimant's contract with the Principal or under the Mechanic's Liens Legislation applicable to the Claimant's contract with the Principal whichever is the greater within one hundred and twenty (120) days after such Claimant should have been paid in full under the Claimant's contract with the Principal; (ii) in respect of any claim other than for the holdback or portion thereof referred to above within one hundred and twenty (120) days after the date upon which such claimant did

or performed the last of the work or labour or furnished the last of the materials for which such claim is made under the Claimant's contract with the Principal.

- b) after the expiration of one (1) year following the date on which Principal ceased work on the Contract including work performed under guarantees provided in the Contract.
- c) Other than in a court of competent jurisdiction in the Province or District of Canada in which the subject matter of the Contract or any part thereof is situated and none elsewhere, and the parties hereto agree to submit to the jurisdiction of such court.

4. The amount of this Bond shall be reduced by and to the extent of any payments made in good further and in accordance with the provisions which may be filed of record against the subject matter of the Contract, whether or not claim for the amount of such lien be presented under and against this Bond.

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

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

SIGNED, SEALED and DELIVERED

In the presence of

)  
)  
)  
)  
)

\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
SURETY

\_\_\_\_\_

**APPENDIX III**

**CERTIFICATE OF INSURANCE**

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

A. This Certificate is issued to: Named Insured and Mailing Address:

**City of Coquitlam**  
**3000 Guildford Way**  
Coquitlam, BC V3B 7N2

B. CONTRACT NUMBER AND/OR NAME Description of the Work:

C. INSURANCE POLICY

Name of Insurer:  
Policy Number:  
Effective Date:

Liability Limit:  
Expiry Date:

D. INSURANCE COVERAGE

**COMMERCIAL GENERAL LIABILITY** coverage is required to insure against liability from the activities arising out of operations or work in connection with the above-described project, including liability arising out of the use of City property.

D.1 The minimum limit shall be \$5,000,000.00 inclusive per occurrence against bodily injury, personal injury and property damage.

D.2 The City of Coquitlam, its employees, officers, agents and volunteers are added as Additional Insureds, but only with respect to operations conducted by or on behalf of the Named Insured in connection with the above-described project, operations or work.

D.3 This insurance shall be primary as regards the City of Coquitlam, its employees, officers, agents and volunteers as Additional Insureds.

D.4 Any deductible or reimbursement clause contained in the policy shall not apply to the City of Coquitlam and shall be the sole responsibility of the Named Insured.

D.5 The insurance shall include the following coverages:

- D.5.1 Cross Liability Clause
- D.5.2 Non-Owned Automobile Liability
- D.5.3 Unlicensed Automobile Liability
- D.5.4 Blanket Contractual Liability
- D.5.5 Broad Form Property Damage Liability
- D.5.6 Owner's & Contractor's Protective Liability
- D.5.7 Products & Completed Operations Liability

D.6 Indicate provision of special coverage for this project as required by the City:

YES	NO	Special Coverage Description
-----	----	------------------------------

- |                          |                                     |                                 |
|--------------------------|-------------------------------------|---------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Shoring and Underpinning Hazard |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Pile Driving and Vibrations     |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Excavation Hazard               |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Demolition                      |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Blasting                        |

\_\_\_\_\_  
Authorized Signature and Stamp

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name and Title

\_\_\_\_\_  
City' broker to return to City Representative

\_\_\_\_\_  
Department

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009



**APPENDIX IV**

**PRIME CONTRACTOR DESIGNATION**

Owner: **CITY OF COQUITLAM**  
Contractor: \_\_\_\_\_  
Contract / Permit #: **89037**  
Project / Workplace: **Brunette, Coleman, Rochester Watermain Replacements (the "Project")**

By signing this Prime Contractor Designation form, the Contractor hereby:

1. agrees to be, and accepts designation as, the "prime contractor" for the purposes of the Workers Compensation Act, R.S.B.C. 2019, c. 1 (the "Act") and the Occupational Health and Safety Regulation, B.C. Reg. 223/2022 (the "Regulation") in respect of the Project and Workplace noted above;
2. represents and warrants that the Contractor is qualified and capable to perform the duties of prime contractor and that the undersigned signatory has the authority to accept designation as prime contractor and to bind the Contractor;
3. accepts the duty and responsibility for ensuring the activities of employers, workers and other persons at the Workplace relating to occupational health and safety are coordinated and agrees to do everything that is reasonably practicable to establish and maintain a system or process that will ensure compliance with the Act and the Regulation in respect of the Workplace;
4. covenants and agrees to comply with the occupational health and safety provisions of the Act, the Regulation, any other applicable regulations under the Act, and any applicable orders;
5. acknowledges and agrees that the Owner has provided the Contractor the information known to the Owner that is necessary to identify and eliminate or control hazards to the health or safety of persons at the Workplace; and
6. agrees that the designation as prime contractor hereunder may not be assigned or revoked without the prior written consent of the Owner.

**Prime Contractor Name:** \_\_\_\_\_

**Prime Contractor Address:** \_\_\_\_\_

\_\_\_\_\_  
**Prime Contractor Signature** **Date**

\_\_\_\_\_  
**Print Name**

*Please return a signed copy of this designation to the City of Coquitlam, 3000 Guildford Way, Coquitlam, BC, V3B 7N2. If you have any questions, please contact the City of Coquitlam Health & Safety Manager at 604-927-3070.*

# ***Supplementary Contract Specifications***

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These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings

File #: 11-5330-20/89037/1 Doc #: 5540859.v1

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**Supplementary Contract Specifications**

to the  
MASTER MUNICIPAL SPECIFICATIONS  
**Volume II – Platinum Book**

**Brunette, Coleman, Rochester Watermain Replacements**  
**CONTRACT 89037**

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CONTRACT SPECIFIC NOTATIONS

1.00 CONTRACT SPECIFIC INSTRUCTIONS

1.01 Coordination of Work with CMBC

Major Roads & Community Corridor Roads are bus routes; therefore the Contractor shall be responsible to consult with the Coast Mountain Bus Company (CMBC) regarding delays, detours, temporary bus stop closures and any other works affecting the transit service in the area.

1.02 Outside Agency Approval

In accordance with the Contract Documents, the Contractor at his own cost, is responsible to consult with and obtain any approval required to meet and comply with all the conditions required from outside agency such as, but not limited to, BC One Call, Metro Vancouver, School District, BC Hydro, Telus, Kinder Morgan, and Fortis BC in the area of the place of Work.

1.03 Waste Collection Coordination

1. Contractor is responsible to accommodate all waste collection vehicles and cart pick up schedules throughout construction. Collection schedule can be found in <https://www.coquitlam.ca/157/Collection-Calendar-Guidelines>.
2. If waste collection will be impacted the contractor is responsible to:
  - a. Provide advanced notification to:
    - i. The City's Solid Waste staff at 604-927-3500 or [wastereduction@coquitlam.ca](mailto:wastereduction@coquitlam.ca); and
    - ii. The City's Contract Administrator.
  - b. Provide access for collection trucks to closed streets due to road work; or
  - c. Move waste carts for collection:
    - i. The Contractor is required to ensure each cart is labelled with the property address and returned to the correct address after collection (each cart has its own individual cart identification code and is specifically assigned to each property). **Contractors will be responsible for the costs to replace missing carts.**
    - ii. The Contractor shall ensure that garbage brought out by residents is picked up by garbage collection company.
3. Contractor's Request for Change in Collection Time (e.g. PM to AM):
  - i. The Contractor must provide residents with as much notice as possible – minimum 5 working days.
  - ii. The contractor must follow all conditions of Clause 1.04 and is responsible to deal with any missed collections. For example, taking garbage to the United Boulevard Recycling and Waste Centre or covering the cost associated for any missed collection to be rescheduled.

Questions: [wastereduction@coquitlam.ca](mailto:wastereduction@coquitlam.ca)

1.04 Cooperation with Emergency and Maintenance Activities

The Contractor will be responsible to cooperate with regular maintenance or emergency vehicles and staff for access to the site when required including:

- Fire, Police, and Ambulance
- Waste Connections (garbage and green waste pick-up)
- GFL Environmental (recycling)
- City Utilities Maintenance (or representatives)

1.05 Lane Closure Restrictions

Refer to: **Appendix A: Traffic Management Detail Specifications.**

A copy of the approved Road and Sidewalk Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.

CONTRACT SPECIFIC NOTATIONS

Costs to complete the works taking the above restrictions into consideration shall be incidental to work described in other sections unless otherwise shown in the Schedule of Quantities and Prices.

**1.06 Location of Existing Utilities**

Before commencing any Work at the Place of the Work, the Contractor shall be responsible to locate in three dimensions all underground utilities and structures indicated on the Contract Documents as being the Place of the Work. The Contractor shall also be responsible to consult with all the utility corporations that provide electricity, communications, gas or other utility services in the area of the Place of Work, to locate all underground utilities for which they have records. The Contractor shall also locate in three dimensions any other utilities or underground structures that are reasonably apparent in an inspection of the Place of the Work. Cost to do the pre locating of all the utilities will be incidental.

The contractor is responsible to verify the depth and location of all utilities (watermains, storm mains, sanitary mains & etc.), including outside agency utilities (i.e. Fortis BC Mains, Kinder Morgan Pipeline, BC Hydro & Metro Vancouver.) and service connections (water, storm & sanitary services at the mains & property lines) by hand digging or by Hydro-Vac in the presence of the Inspector. Contact BC One for location of outside agency utilities.

The contractor will not receive any compensation or allowance for delays if work is halted due to utilities & services connections not located prior to commencing construction.

**City of Coquitlam does not guarantee water, sanitary and storm service connections are perpendicular to the mains or property lines. The City does not guarantee accuracy of the location and depth provided in the connection card.**

Payment for this work will be treated as incidental to payment for work described in other Sections.

**1.07 Manholes & Valves**

Access to manholes and valves must be maintained at all time for city utilities crews and external utility companies. In case of an emergency the cost for exposing any buried manhole or valve covers during construction will be paid by the contractor.

**1.08 Temporary Asphalt Pavement Restoration**

The Contractor will be required to backfill all trenches (in paved areas) and place a temporary patch (minimum 85mm thick or match existing), as per Coquitlam Standard Drawing COQ-G4, the same day excavation is made, unless otherwise approved by the Contract Administrator. The Contractor is to provide temporary asphalt patches that must be a smooth rideable surface without deflections.

**1.09 Precautions**

Protect areas under construction from damage caused by excessive erosion, flooding, heavy rains, etc. Repair or replacement of unprotected damaged areas and as directed by the Contract Administrator will be at no cost to the Owner.

**1.10 Service Disruptions**

Contractor shall contact all residences and/or businesses regarding service disruptions for tie-ins. Contractor is responsible for ensuring that any service disruptions will not affect the business operation in the area (if applicable) or Contractor may provide temporary alternative to the businesses affected. Payment is incidental to work described in other sections.

**2.00 CONSTRUCTION ACTIVITY**

**2.01 Notice to Residents and Businesses**

Residents and businesses affected by the proposed construction must be notified by the Contractor at least 7 days prior to commencement of works and be provided with the construction schedule and Contractor's contact information.



CONTRACT SPECIFIC NOTATIONS

- 2.02 Site Clean-up During Construction and End of Construction**
- The Contractor will be responsible for the complete clean-up of the work site during construction & at the end of construction prior to de-mobilization from the street and to the satisfaction of the Contract Administrator. This work is considered incidental to the Contract.
- The work will include cleaning of all catch basins periodically or as directed by the Contract Administrator within the Work area, or nearby location as affected by the Work. All cleaning is to be performed by vacuum truck to the satisfaction of the Contract Administrator and will include off-site disposal of waste material.
- Payment for this work will be treated as incidental to payment for work described in other Sections.
- 2.03 Construction Material in Sewer manholes and Pipe**
- The Contractor is responsible to ensure that construction activities do not deposit construction materials (eg. gravels) into the storm sewer or sanitary sewer manholes or pipe. The City has a video record of the pipe before construction. Prior to Substantial Performance, the City may again video inspect the lines to ensure no problems exist due to construction activities under this contract. If problems are encountered, the Contractor will be responsible for the cost of the video and all costs associated with the cleaning of the pipe.
- 2.04 Order of Construction**
- Contractor must complete restoration prior to moving on to the next project site unless otherwise approved by the Contract Administrator.
- For Project Site #3, all waterworks and restorations must be completed on per street block basis. Contractor cannot proceed on the next street block unless otherwise approved by the Contract Administrator.
- 3.00 MANDATORY MEETINGS AND CONTRACTOR REPRESENTATIVES AND SUBCONTRACTORS**
- 3.01 Pre-Construction Meeting Requirements**
- After the Award of the Contract, the Contractor (Project Manager & Superintendent) will be required to attend a Pre-Construction Meeting with the Contract Administrator and provide all necessary information required by the Contract Administrator prior to provision of a Notice to Proceed. Items required to be provided at the meeting include:
1. A Detailed Construction Schedule showing the start date & completion date and the durations of major work components showing how all work will be completed within the Contract Duration.
  2. Proof of insurance
  3. Performance Bond and Labour and Materials Payment Bond
  4. WCB Clearance Letter and copy of Notice of Project
  5. City of Coquitlam Business License
  6. A copy of portions of your Health and Safety Plan including the Title Page, Table of Contents, and portion showing latest revision date.
  7. Signed Prime Contractor Designation letter
- 3.02 Contract Schedule, Contract Duration, and Charges**
- A detailed, realistic construction schedule for this project will be required to be presented at the pre-construction meeting. The schedule must show major components and durations.
- 3.03 Contract Superintendent and Subcontractors**
- In compliance with the **MMCD General Conditions, Section 4.7, Superintendent**, the Contractor shall have a competent senior representative, (the "Superintendent") in **FULL TIME attendance** at the Place of Work while work is being performed for the duration of the contract. **This (FULL TIME) attendance is also required when work is being performed by Subcontractors.**

**CONTRACT SPECIFIC NOTATIONS**

Work done by Subcontractors is to be directed by the Superintendent and monitored on site ensuring conformance to the Contract Documents and other particular direction to the Superintendent by the Contract Administrator. The Owner is not responsible for the direction of Subcontractors.

**3.04 Changes of Contractor  
Representatives &  
Subcontractors**

The Superintendent and Subcontractors indicated in the Form of Tender shall not be changed unless:

1. The Owner requests a replacement
2. The Contractor submits an application for a change, in writing, to the Contract Administrator with the change being approved in writing.

**3.05 Mobilization and  
Demobilization**

Payment for mobilization and demobilization of all equipment, labour and materials (both from the Contractor and all sub-contractors) shall be incidental.

**END OF SECTION**

**1.0 GENERAL**

**1.3 Submission**

Delete 1.3.2 and  
replace with the  
following

Submit one copy of an accurate project record document in final form prior to applying for Substantial Performance including any video report, test reports and Operation & Maintenance manual. Record documents to include changes in the Issued for Construction Drawings, new elevation, offsets & location of all utilities, manhole rim, catchbasin rim, vaults, valve boxes, inverts walkways/sidewalks, and any unknown/new utilities found on site. Legal holdbacks will not be released until complete record documents, including reports and manuals, have been submitted and accepted by the Contract Administrator.

Contractor to get sign off letter duly signed by the property owners when private side side is affected by the work. Properties that require the sign off letters will be at the sole discretion of the Contract Administrator.

Payment for all work performed under this section will be incidental to work in other Sections, unless otherwise described in Schedule of Quantities and Prices.

**END OF SECTION**

QUALITY CONTROL

- 1.0 QUALITY**
- The Contractor shall provide a final product conforming to the Contract Documents and the intent of the work. The work is to be accurate to the dimensional and tolerance requirements of the contract.
- Payment will be subject to adjustments based on quality assurance tests performed by the Contract Administrator.
- 1.1 Quality Control (QC) by Contractor**
- The MMCD (2009) definition of “Quality Control” is the process by which the Contractor checks specific materials, products, and workmanship to ensure strict conformance with the Contract Documents.**
- The Contractor is fully responsible for quality control of the materials, production, and construction processes. Quality control tests shall be performed by the Contractor, at their own expense, to ensure that products meet the contract specifications.
- Failure by the Contractor to conduct adequate quality control testing during production and construction will negate the Contractor’s ability to appeal the quality assurance tests used for acceptance/rejection of the work.
- Under no circumstances will QC test results produced after completion of the Quality Assurance (QA) results be considered for appeal purposes
- Any changes in the Work with respect to the location, grade, or line shall be approved in advance by the Contract Administrator. Failure to notify the Contract Administrator of changes in writing may result in rejection of Work.
- 1.2 Inspection of Work, Quality Assurance, and Material Testing, by the Owner**
- The MMCD (2009) definition of “Quality Assurance” means the process by which the Owner evaluates if the work is being constructed in accordance with the Contract Documents. This definition will be used for this contract**
- The *Contract Administrator* will provide construction review through spot inspections and spot materials testing for Quality Assurance.
- Any materials testing results indicating a non-conformance to the Contract Documents will require construction corrective action by the Contractor. The Contractor shall have no claim for delays, interruptions, double-handling of materials, rejection of materials, or any other cause brought about by such tests, including awaiting the outcome of such tests.
- Costs for all subsequent testing to corrective action to verify conformance to the Contract Documents will be the full responsibility of the Contractor.** Inspection review by the Owner will not relieve the Contractor from providing a product that meets or exceeds the requirements of the Contract Documents.
- 1.3 Inspection**
- Materials testing shall be as described in MMCD General Conditions, Section 4.12 with the following change:
- Delete Section 4.12.2(a) and insert the following:
- Where the MMCD specification clauses for Inspection and Testing indicate the Contract Administrator will arrange for all testing for work described in this section will be amended to read The Contractor will arrange for and pay for all testing for work described in this section. The testing shall take place at the following prescribed rates and as directed by the contract administrator. The contract administrator has the authority to call for testing, up to the rates and frequencies specified, at the Contractors cost.
- All testing covered under this item shall be performed by a CSA/CCIL certified laboratory and technicians with copies of all test results to be sent directly to the Contract Administrator. Re-testing resulting from failed first tests shall be at the Contractors expense.

- 1.4 Testing** Contractor shall carry out inspection and testing (QC) to ensure compliance with Contract Documents. Contractor shall submit test results within one week of testing to the Contract Administrator.
- The Contractor shall provide test results prior to the preparation of the payment certificate.
- 1.5 Contractors Responsibilities** Furnish labour and facilities to:
1. Provide access to work to be inspected
  2. Facilitate inspections and tests
  3. Make good work disturbed by inspection and tests
- 1.6 Access to Work** Allow inspection testing agencies access to Work.
- 1.7 Tests** Test rates and frequencies (excluding failed tests), when not defined in the MMCD, Contract Drawings or Detail Specifications Sections shall be at the following frequencies or as directed by Contract Administrator:
1. Trench Backfilling and Compaction
    - 1.1 Compaction: 1 test / 20 lm / 300mm lift
    - 1.2 Sieve: 1 test / placed material / 50 m<sup>3</sup>
  2. Granular Base
    - 2.1 Compaction: 1 test / 500m<sup>2</sup> / 100mm depth of granular base
    - 2.2 Sieve: 1 test / placed material / 100 m<sup>3</sup>
  3. Granular Subbase
    - 3.1 Compaction: 1 test/500m<sup>2</sup> / 0.15m depth of granular subbase
    - 3.2 Sieve: 1 test / placed material / 100 m<sup>3</sup>
  4. Embankment (Subgrade)
    - 4.1 Compaction: 1 test/ 50m<sup>2</sup> / 0.15m depth of fill
    - 4.2 Sieve: 1 test / placed material / 100 TONNES
  5. Asphalt
    - 5.1 Marshall test: 1 test per 250 TONNES placed, min. 1 test / day  
ASTM D1559, D3203, C117, C136
    - 5.2 Superpave: 1 test per 250 TONNES placed, min. 1 test / day  
CAI-SP2, ASTM D3203, C117, C136
    - 5.3 Cores: 1 per 500 m<sup>2</sup>/lift
    - 5.4 Continuous asphalt density testing during paving.
  6. Subgrade Preparation
    - 6.1 Compaction & Moisture: 1 test / 500 m<sup>2</sup>
  7. Concrete Tests
    - 7.1 Air, Slump & 1 Set Cylinders: 1 test / 10 m<sup>3</sup>, min. 1 set / day
  8. Reclaimed Materials
    - 8.1 Compaction: 1 test/500m<sup>2</sup> / 0.15m depth of reclaimed materials
- 1.8 Measurement for Payment** Payment for all work performed under this section will be incidental to payment for work described in other Sections.

END OF SECTION

**1.0 GENERAL**

**1.6 Payment**

Delete 1.6.1 and  
replace with the  
following

Payment for all work described in this section will be incidental to  
payment for work described in other Sections unless otherwise  
shown in Schedule of Quantities and Prices.

**END OF SECTION**

1.0	GENERAL	Add 1.0.6	<p>The <i>Contractor</i> is responsible for all temporary traffic control on the streets required for completion of the work. The <i>Contractor</i> will be responsible to provide a Traffic Management Plan (TMP) for approval (5) five working days prior to any lane closures taking place. TMP is to be prepared by a professional certified by the American Traffic Safety Services Association.</p> <p>The TMP shall outline the approach to traffic management, show recognition and minimization of risks indicates signing locations, identify Traffic Control Persons (TCP) stations, show lane shifting and proposed closures.</p>
		Add 1.0.7	<p>Road and Sidewalk Closure Permit is required from Coquitlam for all work affecting pedestrian and traffic flow related to construction. A permit is required for each specific construction interference with pedestrian and traffic flow. The road and sidewalk closure permit form can be obtained for use from the City's website at <a href="https://www.coquitlam.ca">https://www.coquitlam.ca</a>. The Contractor must follow the approved TMP. Any changes to this TMP must be submitted to City's Traffic Operations for approval.</p>
		Add 1.0.8	<p>Refer to Appendix A – Traffic Management Detail Specifications</p>
1.4	Traffic Control	Delete 1.4.1 and replace with the following	<p>The Contractor shall conduct their operations so as to cause the minimum obstruction and inconvenience to traffic and to places of business and residences adjacent to the Place of Work. No greater quantity of work shall be undertaken at any one time than can be properly conducted with due regard to the rights and interests of the public as may be determined by the Contract Administrator.</p> <p>The Contractor is to provide at all times safe and convenient means of approach and entrance to adjoining lanes, driveways, buildings and property both for vehicles and pedestrians to the satisfaction of the Contract Administrator. For this purpose, the shall construct and maintain suitable and safe platforms, approaches, structures, bridges, diversions or other works.</p> <p>Where traffic must cross open trenches, the Contractor shall provide suitable bridges. Where trenches have been backfilled or where road improvements are incomplete the Contractor shall take any steps necessary to prevent potholes or other traffic hazards. Where the Contract Administrator so instructs or where Contract Specifications so require, the Contractor shall provide temporary asphalt patching of such hazards.</p>
		Add 1.4.9.3.1	<p>The <i>Contractor</i>, as required by the <i>Contract Administrator</i> and the City, is to supply Construction Zone information signs (stationary), refer to MMCD 01 58 01 for the required identification signage.</p> <p>The <i>Contractor</i> is responsible for the removal of the signs at the completion of the work.</p>
		Delete 1.4.10.1.3 and replace with the following	<p>When workmen or equipment are employed over travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.</p>
1.5	Measurement for Payment	Delete 1.5.1 and replace with the following	<p>Payment for all work performed under this section including submission of Traffic Management Plan (TMP), Traffic Control Persons (TCP) &amp; all temporary traffic signs, devices as required for</p>

traffic & pedestrian safety; and all other items described in the Traffic Regulation Section, and all labor, material, equipment and work described under ***Appendix A: Traffic Management Detail Specifications*** shall be treated as incidental to payment for work described in other Sections unless shown otherwise in the Schedule of Quantities and Prices.

**END OF SECTION**



1.0 GENERAL

1.0.3 Erosion and Sediment Control Supervisor

Add 1.0.3

The Erosion and Sediment Control (ESC) Supervisor is the Qualified Professional who is experienced in implementing ESC Plans and who is responsible for the inspection and monitoring of ESC Facilities to ensure these are installed and maintained during construction to ensure compliance with the Stream and Drainage System Protection Bylaw No. 4403, 2013.

1.2 Temporary Erosion and Sediment Controls

Delete 1.2.1 and replace with the following

Properly drain all portions of the site. Protect the site and the watercourses to which it drains, directly or indirectly, against erosion and siltation in accordance with City of Coquitlam Stream and Drainage System Protection Bylaw No. 4403, 2013 during construction and until the maintenance period is completed. Ensure no silt, gravel, debris or other deleterious substance resulting from construction activity discharges into existing drainage systems or watercourses or onto highways or adjacent property. The *Contractor* is responsible for all damage that may be caused by water backing up or flowing over, through, from or along any part of the work or otherwise resulting from his operations.

Keep existing culverts, drains, ditches and watercourses affected by the work clear of excavated material at all times. When it is necessary to remove or alter any existing drainage structure, provide suitable alternative measures for handling the drainage. Adequately support culverts and drainpipes across trenches to prevent displacement and interference with the proper flow of water due to trench settlement.

Provisions must be made to allow safe conveyance of flow during non-working hours. The Contractor is solely responsible for any repairs that may be required following such an event.

Sweep streets, and clean catch basins, manhole sumps, detention tanks, and maintain siltation controls as often as the *Contract Administrator* and the City deems necessary.

Follow all Federal and Provincial regulations and guidelines respecting protection of fish, fish habitat, and watercourses.

Delete 1.2.2.2 and replace with the following

Do not operate construction equipment in watercourses.

Add 1.2.2.9

In any Watercourse, or In-Stream Works:

- .1 Prior to any work, Erosion and Sediment control measures should be in placed; and
- .2 Fish salvage completed by Environmental Monitor; and
- .3 Temporary water passages or other approved means of handling waterflow in creeks installed to prevent or minimize any impact to fish and aquatic habitat as approved by Contract Administrator.

Failure of the Contractor to properly address concerns relating to this Section will result in shut-down of the work. No claim will be accepted by the Owner for costs associated with this work shut-down.

1.4 Environmental Protection

Add 1.4.3.5

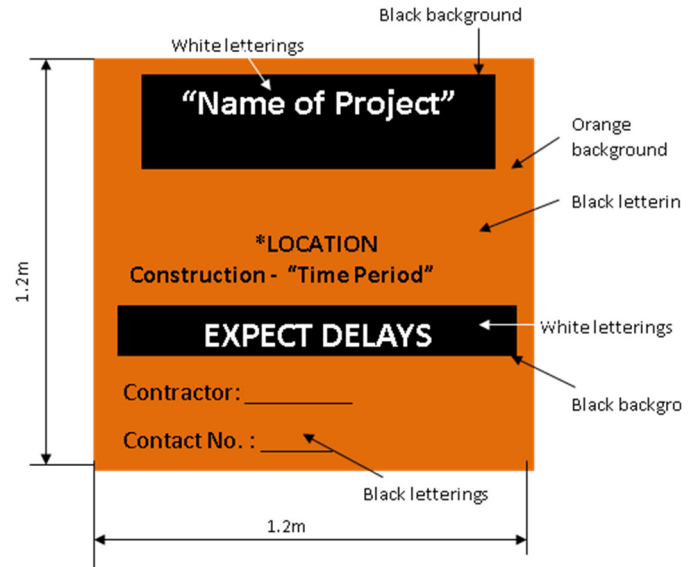
Immediately contain and clean up any leaks and spills of prohibited materials at the *Place of Work*.

ENVIRONMENTAL PROTECTION

	Add 1.4.3.6	Ensure that a well-stocked spill kit is on-site at all times and that the <i>Contractor's</i> employees are familiar with appropriate spill response techniques.
	Add 1.4.3.7	Immediately notify the <i>Contract Administrator</i> and the City of any leaks or spills of prohibited materials that occur at the <i>Place of Work</i> .
	Add 1.4.3.8	Ensure that any fuel stored on-site is located at least 30 metres from the nearest stream, and is placed within a bermed and lined area, in order to prevent leaks or spills into the environment.
	Add 1.4.3.9	Ensure that no equipment fueling or servicing is conducted within 30 metres of a stream.
1.9	<b>Archaeological / Historical Resources</b>	Add 1.9 Immediately cease work and inform the <i>Contract Administrator</i> and the City, if any archaeological or historical resources are encountered during construction. Leave these resources in place and do not disturb them in any way.

END OF SECTION

- |                                      |   |  |
|--------------------------------------|---|--|
| <b>1.1 Section 01 58 01 includes</b> | Add 1.1.3                                   | Work described in Appendix A – Traffic Management Detail Specifications.   |
| <b>1.3 Measurement and Payment</b>   | Delete 1.3.1 and replace with the following | Payment for the installation of 1.2m x 1.2m static construction notification signs (shown below) with all the details as described in Appendix A – Traffic Management Detail Specifications, includes supply, placement & removal and will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices. |



END OF SECTION

<b>1.4</b>	<b>Measurement and Payment</b>	Delete 1.4.3 and replace with the following	<p>Payment for machine or hand placed concrete curb &amp; gutter or concrete curb, includes supply and placing of the concrete curb and gutter or concrete curb with all associated joints and finishing work and will cover all straight and curved sections.</p> <p>Payment includes saw-cutting, removal, and off-site disposal of all existing materials necessary to complete the work as described in the Contract Documents.</p> <p>Payment for granular subbase and granular base under curb and gutter in this section will be incidental to payment for work described in other Sections.</p>
		Delete 1.4.5 and replace with the following	<p>Payment for concrete sidewalks, monolithic sidewalks and driveway crossings, letdowns, driveways, driveway crossings, walkways, stamped concrete, infills, concrete exposed aggregate and all concrete ramps includes supply and installation of concrete and all associated joints and trowel work and will cover all straight and curved sections.</p> <p>Payment includes saw-cutting, removal, and off-site disposal of all existing materials necessary to complete the work as described in the Contract Documents.</p> <p>Payment will be made separately for each specified thickness and finish as shown on the Schedule of Quantities.</p> <p>Payment for granular subbase and granular base under the sidewalk, letdowns, and driveways in this section will be incidental to payment for work described in other Sections.</p>
<b>2.1</b>	<b>Materials</b>	Delete 2.1.5.1 and replace with the following	<p>Hand-formed and hand-placed concrete:</p> <p>Slump: 80 mm Air entrainment: 5 to 8%. Maximum aggregate size: 20 mm. Minimum cement content: 335 kg/m<sup>3</sup>. Minimum 28 day compressive strength: 32 MPa.</p>
		Add 2.1.7	<p>Tactile warning surface tile shall be replaceable cast-in-place style. Truncated domes shall be in square grid pattern with a 5 mm nominal raised height, base diameter of 23 mm and top diameter of 11.5 mm. Dome spacing range shall be between 40 mm – 60 mm.</p> <p>Color of the panel shall be Federal Yellow (Y) per US Federal Standard 595B Table IV, Color No. 335.</p> <p>Minimum size of the panel shall be 600 mm by 1200 mm.</p>
<b>3.0</b>	<b>EXECUTION</b>		
<b>3.5</b>	<b>Concrete Placement</b>	Delete 3.5.9 and replace with the following	<p>The <i>Contractor</i> is responsible for adjusting all utility manhole frames and valve boxes, belonging to Coquitlam and/or other agencies that are affected by the road works. All adjustments to utilities must be completed to the satisfaction of the utility owner. Riser rings will not be accepted.</p> <p>The <i>Contractor</i> should note that certain utility owners may decide to complete their own adjustments. The <i>Contractor</i> will be required to</p>

cooperate with any utility company providing their own adjustments.

The *Contractor* shall be responsible to contact the appropriate utility company within a minimum of seventy two (72) hours of the work. No adjustment shall be made without the written approval of the utility company. All manholes must be vertically adjusted a minimum of twenty four (24) hours prior to concrete placement.

**3.9 Expansion Joints**

Delete 3.9.1 and replace with the following

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

**END OF SECTION**

AGGREGATES AND GRANULAR MATERIALS

1.0 GENERAL

1.4 Measurement and Payment

Delete 1.4.1 and replace with the following

Payment for all work performed under this section will be incidental to payment for work described in other Sections.

2.0 PRODUCTS

2.7 Granular Pipe Bedding and Surround Material

Add to 2.7.1

All recycled or other extraneous materials shall be approved by *Contract Administrator* and the City prior to use.

2.10 Granular Base

Delete 2.10.2

Add 2.10.3

All 25 mm minus granular base is to conform to the following gradation specifications:

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

Add 2.10.4

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

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

2.11 Recycled Aggregate Material

Delete 2.11.1 and replace with the following

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

2.13 Low Permeability Mineral Soil

Add 2.13

Approved low permeability mineral soil shall consist of either high fines (15 to 30% passing 75µm sieve) silty sand or medium to low plasticity clay, free of organics and other deleterious materials and/or debris.

END OF SECTION

CLEARING AND GRUBBING

<b>1.2</b>	<b>Definitions</b>	Add 1.2.5	<p>Trimming of trees, hedges and shrubs, and snag cutting of trees, removal of hedges, shrubs and tree stumps, is included with Clearing and Grubbing. Co-ordinate with property owners and use the services of a certified arborist when necessary. Generally trees, bushes and shrubs shall be cleared for the full width of the work, within the construction limits, with the extent of clearing minimized.</p> <p>Final height of the snag cut will be per approval of the Contract Administrator.</p> <p>It is the Contractor's responsibility to obtain permission from the property owners.</p>
		Add 1.2.6	<p>Clearing and grubbing does not include removal of grass, topsoil and ditch vegetation as these items are deemed part of trench excavation.</p>
<b>1.4</b>	<b>Measurement and Payment</b>	Delete 1.4 and replace with the following	<p>Payment for all work performed under this section will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices; and</p> <p>Includes removal and disposal of all branches, stumps, trees, timbers and vegetation to complete the work as shown on the Contract Drawings or as directed by the Contract Administrator. Works include cutting of branches &amp; trees as required to create the necessary clearance to accommodate the construction; and</p> <p>Includes removal and offsite disposal of all trees, roots, vegetation, organic matter, invasive species, stumps, including stumps for trees removed by others, and topsoil stripping and disposal that are located within the work area(s).</p>

**END OF SECTION**

<b>1.3</b>	<b>Measurement and Payment</b>	Add 1.3.2	<p>Payment by allowance for Hydro Excavation around existing trees includes all labor, material, equipment, removal and disposal to complete the work as shown on the Contract Drawings or as directed by the <i>Contract Administrator</i>. Payment includes coordinating the work of all locations requiring hydro excavation to maximize the use of the hydro excavation machine and coordination with the Site Arborist.</p> <p>Payment shall be made for the actual cost on a Force Account basis as defined in GC 10.0.</p>
<b>2.0 PRODUCTS</b>			
<b>2.1</b>	<b>Materials</b>	Add 2.1.10	<p>Protective Fencing: Posts - Pressure treated wood 100 mm dia.; Post to be 1.8 m to 2.0m in height at 2.0 m O.C. Snow fence as per Coquitlam Approved Products List; Flagging Tape - 4" Orange glow - 'Tree Retention Area'.</p>
<b>3.0 EXECUTION</b>			
<b>3.1</b>	<b>Existing Trees</b>	Add 3.1.7	<p>The <i>Contractor</i> is responsible to minimize damage to all trees which are to remain.</p>
		Add 3.1.8	<p>The <i>Contractor</i> will be responsible for all claims and costs including the cost of examination by an Arborist, repair, removal and replacement of trees, as required by the Arborist, the <i>Contract Administrator</i> and the City for tree damage where proper notification was not received from the <i>Contractor</i>. Damage will be assessed based on the International Society of Arboriculture Guidelines. The term shall be for a period of one year following the date of Substantial Performance of the <i>Work</i>.</p>
		Add 3.1.9	<p>Place protective fencing/barricades as detailed on Coquitlam Standard Detail Drawings COQ-R26 where specified by the <i>Contract Administrator</i>. <i>Contractor</i> shall maintain fence in good condition during construction.</p>
		Add 3.1.10	<p>When work is to be performed inside fenced areas, <i>Contractor</i> shall take care to avoid damage to existing vegetation. Work to be done inside areas of existing vegetation to be retained includes:</p> <ol style="list-style-type: none"> <li>.1 Removal of isolated trees as directed by the <i>Contract Administrator</i> and the City.</li> <li>.2 Selective pruning and tree removal at edges to create tidy and well-shaped forest edge.</li> <li>.3 Placing planting soil and planting of trees.</li> </ol>
		Add 3.1.11	<p>Do not park, service or fuel vehicles within the vegetation retention areas.</p>
<b>3.4</b>	<b>Pruning</b>	Add 3.4.2	<p>Do not cut roots or branches of retained trees without approval of the <i>Contract Administrator</i> and the City.</p>

**END OF SECTION**



1.0 GENERAL

1.8 Limitations of Open  
Trench

1.8.1  
Replace last sentence  
with the following

If circumstances do not permit complete backfilling of all trenches, and where permitted by the *Contract Administrator* and the City, adequately protect all open trenches or excavations with approved fencing or barricades and, where required, with flashing lights.

Add 1.8.2

The use of road plates to cover excavations and restore travel lanes is not permitted in late Fall, Winter or if forecast indicates temperature equal or below 2 degrees Celsius, unless otherwise permitted by the Contract Administrator.

Where construction necessitates the use of road plates, the Contractor is responsible for properly securing them (either pinned or recessed into the pavement) and feathered a minimum of 300mm with existing road asphalt on all four sides. The Contractor is responsible for repairing any pavement damage related to the plate installation.

1.10 Measurement and  
Payment

Add to 1.10.9

Payment for imported trench backfill, 75mm minus pit run gravel (in accordance to Clause 2.3 Pit Run Gravel in Section 31 05 17 – Aggregates and Granular Materials), includes supply, transport, placement, adjustment of moisture content and compaction to 95% modified proctor density. Payment includes the offsite disposal of the unsuitable native material.

Payment for imported backfill will be made by measurement of volume confirmed by the tonne delivered to the Place of Work based on truck weigh slips. Weigh slips must be submitted to the Contract Administrator on a daily basis. Weigh slips which are not submitted daily will not be accepted for payment.

Add to 1.10.10

Payment by allowance for Hydro excavation and additional Prelocate Works Adjacent To Existing Retaining Walls includes all labor, material, equipment, removal and disposal, geotechnical engineer review to complete the water service replacements and meter setter installations as shown on the Contract Drawings or as directed by the Contract Administrator. Payment includes coordinating the work of all locations requiring hydro excavation to maximize the use of the hydro excavation machine.

Payment shall be made for the actual cost on a Force Account basis as defined in GC 10.0.

Add to 1.10.11

Payment by allowance for Removal and Replacement of Retaining Walls includes all labour, material, equipment, removal and disposal of existing material to complete the work as directed by the Contract Administrator. Includes new retaining wall materials, 19mm Clear Crush Drain Rock backfill, and drain pipe with re-connection to existing system.

Payment shall be made for the actual cost on a Force Account basis as defined in GC 10.0.

Add to 1.10.12

Payment by allowance for abandoning/decommissioning the existing PRV station including all labour, material, equipment, saw-cutting, removal and disposal of existing material, draining/pumping of abandoned water mains, capping and surface restoration to complete the work as directed by the Contract Administrator.

Note: The City will be moving some mechanical items from within the chamber.

Payment shall be made for the actual cost on a Force Account basis as defined in GC 10.0.

**2.0 PRODUCTS**

**2.2 Use of Specified Materials**

Delete 2.2.1.2

Delete Pit Run Sand

Delete 2.2.3.3

Delete Pit Run Sand

**3.0 EXECUTION**

**3.3 Excavation**

Delete 3.3.1.2 and replace with the following

Connections to existing waterworks systems are to be made by the *Contractor* under the inspection / supervision of the *Contract Administrator* and the City.

**3.6 Surface Restoration**

Delete 3.6.2.4 and replace with the following

Restore lawns with approved topsoil and sod to match existing lawn.

Delete 3.6.3.1 and replace with the following

Restore surface with a minimum 100 mm of 19 mm granular road base material.

Delete 3.6.7.5 and replace with the following

Restore Pavement with 85mm thick temporary patch. Mill with 200mm wide key on both sides of trench and overlay with permanent 35mm thick patch.

**END OF SECTION**

COLD MILLING

1.5 Measurement and  
Payment

Delete 1.5.1 and  
Replace with:

Payment for this item will be made for the depth specified in the Schedule of Quantities in the Form of Tender and is for the surface removal of existing/temporary asphalt to the depth specified, as detailed in the Contract Documents, in order to complete the permanent pavement restoration along trenches.

Payment will be made for each square metre of asphalt removed, to the depths indicated in the Form of Tender, and includes the off-site disposal of all milled material. Payment includes mobilization, demobilization, demonstration milling test section, the cost of transport & disposal off-site, saw cutting, milled key, street sweeping or cleaning to allow for the placement of required thickness of asphaltic concrete.

**MILLING OF EXTENSIVE AREAS THAT CANNOT BE PAVED WITHIN 48 HOURS PERIOD (2 DAYS) WILL NOT BE PERMITTED.**

No additional payment will be made for multiple passes or remobilization, as required, to mill to the depth(s) specified in the Schedule of Quantities in the Form of Tender.

END OF SECTION

GRANULAR SUBBASE

1.4 Measurement and  
Payment

Delete Clause 1.4 and  
replace with

.1 Payment for all work performed under this section will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices.

.2 Payment for Subsection 1 above includes supply, placement and compaction of granular subbase material, adjustment of moisture content, and boning to establish the road cross-section.

.3 Payment includes removal of unsuitable subgrade including disposal off-site prior to direct placement of granular.

Payment includes supply, placement and compaction of granular subbase material and adjustment of moisture content.

2.0 PRODUCTS

2.1 Specified Materials

Delete

2.1.1.1 Select Granular Subbase

2.1.1.2: 75 mm Pit Run Gravel

2.1.1.4: Pit Run Sand

2.1.1.5: Approved Native Material

2.1.1.7: River Sand

END OF SECTION

**GRANULAR BASE**

- 1.4 Measurement and Payment** Delete Clause 1.4 and replace with
- .1 Payment for all work performed under this section will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices.
  - .2 Payment for Subsection 1 above includes supply, placement and compaction of granular base material, adjustment of moisture content, and boning to establish the road cross-section.
  - .3 Payment includes removal of unsuitable subgrade including disposal off-site prior to direct placement of granular.
- 2.0 PRODUCTS**
- 2.1 Granular Base** Add 2.1.1.3
- 25 mm minus crushed gravel conforming to the gradation specifications under Section 31 05 17S – 2.10.3.

**END OF SECTION**

**HOT-MIX ASPHALT CONCRETE PAVING**

<b>1.4</b>	<b>Related Work</b>	Add 1.1.8	Roadway Excavation, Embankment & Compaction...Section 31 24 13
		Add 1.1.9	Manholes and Catch Basins.....Section 33 44 01
<b>1.5</b>	<b>Measurement and Payment</b>	Delete Clause 1.5.1 and replace with	Payment for asphaltic concrete paving includes all construction joint preparation, supply and placing of the asphaltic concrete, compaction and cleaning frames, covers and lids of castings affected, taped temporary pavement markings, and thermoplastic infills and will be made at the unit price bid per square meter of surface layer of asphalt lift placed.  The contractor will not receive any additional compensation above the respective unit prices bid in the Schedule of Quantities and Prices for Hand Work, Special Equipment & Machinery to complete the Hot Mix Asphaltic Paving Work as shown on the Contract Drawings or as directed by the Contract Administrator.
<b>2.2</b>	<b>Mix Design</b>	2.2.3.2	Change Marshall Stability for both lower and upper course to "10 kN min"
<b>3.7</b>	<b>Joints</b>	Delete Clause 3.7.5 and replace with	Construct butt joints as directed in the field by the Contract Administrator.

**END OF SECTION**

**PAINTED PAVEMENT MARKINGS**

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- |            |                                    |                                       |  |
|------------|------------------------------------|---------------------------------------|--|
| <b>1.5</b> | <b>Measurement and<br/>Payment</b> | Delete Clause 1.5 and<br>replace with | Payment for all work performed under this section will be<br>incidental to work described in other sections. |
|------------|------------------------------------|---------------------------------------|--|

**END OF SECTION**

**1.0 GENERAL**

**1.1 Related Work** Add 1.1.6 Shrubs & Tree Preservation .....Section 31 11 41

**1.4 Measurement and Payment** Delete 1.4.1 and replace with Payment for growing medium and imported topsoil is incidental to work described in other sections. Payment shall include supply of materials, on-site handling, and placement to 150mm thickness for sod, compaction, watering, application of fertilizers, finish grading and swales.

**3.0 EXECUTION**

**3.4 Placing Growing Medium** Add 3.4.6 Scarify soil, feather grades and remove noxious weeds from the edge of tree preservation areas.

**END OF SECTION**



**SODDING**

<b>1.0</b>	<b>GENERAL</b>	Delete 1.0.2 and replace with the following	This section is based on the "British Columbia Landscape Standards and the B.C. Nursery Trades Association. This standard is intended to set a level of quality which is equaled or bettered in the construction documents.
<b>1.4</b>	<b>Handling and Storage</b>	Delete 1.4.3 and replace with the following  Delete 1.4.4 and replace with the following	Schedule sod deliveries such that sod installation occurs within twenty-four (24) hours of being lifted from the source sod farm.  Sod shall be neatly stacked or rolled at the source sod farm, delivered and unloaded on sturdy pallets which are no more than 3 pallets high.
<b>1.5</b>	<b>Drainage Control</b>	Delete 1.5.1 and replace with the following	Provide for proper water management and drainage of site during work of this section. Water management shall include silt traps, erosion control measures, temporary water collection ditches, as well as their adequate maintenance to ensure that storm water which may become laden with soil, growing medium or hydraulic seed is detained and cleaned prior to discharge from <i>Place of Work</i> .
<b>1.6</b>	<b>Samples</b>	Add 1.6.2  Add 1.6.3  Add 1.6.4	Submit one (1) square meter of sod to the <i>Contract Administrator</i> and the City for review. Ensure sample is complete with name of sod farm, base soil type, seed mix percentage.  <i>Contract Administrator</i> and the City shall review sod sample for approval prior to installation. The sample accepted by the review will form the standard by which the project will be supplied.  Should the <i>Contractor</i> require the source of sod supply to change during the construction a written request must be provided to the <i>Contract Administrator</i> and the City 48 hours in advance. The request shall be followed up by submission of proposed sod substitution sample and include the name of sod farm, base soil type, seed mix percentage for <i>Contract Administrator</i> and the City review prior to the delivery.
<b>1.8</b>	<b>Measurement and Payment</b>	Delete 1.8.1 and replace with the following	Payment for nursery sod includes supply and placing of sod as shown on the Contract Drawings or as directed by the Contract Administrator and grass maintenance to meet Conditions of Total Performance. Payment includes protection from damage caused by any living creature. Payment for all work under this section will be incidental to work described in other sections.
<b>2.0</b>	<b>PRODUCTS</b>		
<b>2.1</b>	<b>Sod</b>	Delete 2.1.1 and replace with the following  Add 2.1.1.1  Add 2.1.1.2	Sod to be approved by the <i>Contract Administrator</i> and the City and to be nursery grown, true to type, conforming to standards of nursery Sod Growers' Association and their Nursery Sod Specifications. Sod to be quality, cultured turf grass grown from seed approved by Canada Department of Agriculture, free of disease, clovers, stones, pests and debris.  Nursery sod: <ol style="list-style-type: none"> <li>.1 Shall be No. 1 Premium grade and contain only species of grass indicated on the supplier's certificate.</li> <li>.2 Sod shall be 'non-netted'</li> </ol> Table Guideline of Approved Sod Mix Ratios

<b>Supreme Soil Base Sod</b>	
(Elka II) Perennial Ryegrass	40%
(Shamrock) Kentucky Bluegrass	30%

**SODDING**

(Cindy) Chewing Red Fescue	30%
<b>Seed Rate:</b> 50g per square metre	

		Add 2.1.8	All sod shall be completely free of invasive and/or noxious broadleaf weeds, grasses including but not limited to poa annua, disease, fungi, detrimental nematodes and detrimental insects.
<b>2.2</b>	<b>Water</b>	Delete 2.2.1 and replace with the following	Potable, free of impurities that would inhibit seed germination. <i>Contractor</i> to ensure adequate water is available to maintain seeded areas during germination and in a vigorously growing, healthy state until <i>Total Performance</i> of work of this section.
<b>2.3</b>	<b>Fertilizer</b>	Add 2.3.2	Fertilizer shall be complete synthetic slow release fertilizer. Type and application shall be as required by the growing medium analysis report.
<b>2.4</b>	<b>Wooden Pegs</b>	Add 2.4	.1 Wooden Pegs shall be 19 mm x 19 mm x 150 mm long No. 1 grade or better Hem/fir.
<b>2.5</b>	<b>Binder Twine</b>	Add 2.5	.1 Binder Twine shall be hemp based multiple strand string.
<b>2.6</b>	<b>Flagging Tape</b>	Add 2.6	.1 Flagging Tape shall be 30 mm wide, biodegradable ribbon tape made of non-woven cellulosic material, and red color, or an approved equivalent.
<b>3.0</b>	<b>EXECUTION</b>		
<b>3.1</b>	<b>Finish Grade Preparation</b>	Delete 3.1.2 and replace with the following	Prior to the placement of sod <i>Contract Administrator</i> and the City to review and direct minor adjustments and refinements of finish grades prior to the <i>Contractor</i> proceeding. Review includes grades, growing medium depth and condition of finished surface. Subsequent to the <i>Contract Administrator</i> and the City review the <i>Contractor</i> shall re-grade, add growing medium and make adjustments as directed by <i>Contract Administrator</i> and the City.
		Delete 3.1.5 and replace with the following	Fine grade growing medium to lines and levels shown on Contract Drawings. Ensure that all low spots, humps and irregularities are eliminated prior to review by <i>Contract Administrator</i> and the City.
<b>3.2</b>	<b>Sodding</b>	Delete 3.2 and replace with the following	.1 Sod shall not be placed during hot dry summer periods, at freezing temperatures, or over frozen growing medium. .2 Allow sod to dry sufficiently during wet weather to prevent tearing during lifting and handling. .3 Handle sod carefully to minimize tearing and dropping of soil. .4 Placement of Sod: .1 Lay sod in rows smooth and flush to adjoining grass areas and paving and top surfaces of curbs unless shown otherwise on <i>Contract Drawing</i> . Ensure there is a full roll width between the new sod and any adjoining surfaces. Small cut pieces from a full roll will not be accepted. .2 Stagger joints and ensure that sod sections are butted closely together without overlapping or leaving gaps between sections. .3 Cut out irregular or thin sections with a sharp knife. .4 Cut sod to fit tight around landscape elements. .5 Cut sod to create clean, smooth lines along all plant beds. .5 Placement of Sod on Slopes:

SODDING

- .1 Lay sod with the length of each sod section parallel to slope taking extra care to ensure that sod sections are butt tight and each sod section is set in a staggered formation.
  - .2 On slopes exceeding 3:1 gradient ensure sod is secured with wooden pegs at intervals of not more than 450 mm along the center of each section. Ensure wooden pegs are driven flush with the sod.
  - .3 Prior to acceptance of sod areas that have been secured with wooden pegs either remove the wooden pegs or drive each wooden peg at least 50 mm below finished grade.
  - .4 Where required, place erosion control mesh or netting and secure with stakes or staples sunk firmly into ground to a minimum depth of 150 mm at maximum intervals of 4 meters along pitch of slope. Place stakes or staples horizontally across slope at intervals equal to width of mesh or netting minus 150 mm and drive flush with top of sod.
  - .6 Use a light roller to ensure that there is full, close contact between sod and growing medium. Use of a heavy roller to correct irregularities in grade is not permitted.
  - .7 Ensure all sodded areas are watered immediately after installation. Verify that water applied to has penetrated through sod into top 100 mm of growing medium. Continue watering operations as needed to ensure that adequate moisture content is maintained to encourage deep root growth and healthy, vigorous leaf growth.
  - .8 Protect newly placed sod from heavy foot traffic during installation and until acceptance by the *Contract Administrator* and the City. Protection shall include but is not limited to placement of wood planks or plywood of sufficient thickness to bear the imposed weight and prevent damage to sod or displacement and/or compaction of sod/growing medium.
  - .9 Sod that has been damaged by construction operation, construction / site personnel or construction traffic shall be replaced at no cost to the *Owner*. Replacement shall include removal of growing medium, regrading of sub grade, replacing growing medium and sod as required.
  - .10 Water sod area immediately with sufficient amounts to saturate sod and upper 100 mm of growing medium. Do not allow the sod to dry out so that the joints become visible.
- 3.4 Grass Maintenance** Delete 3.4 and replace with the following
- .1 Maintenance of sodded areas shall begin immediately after sodded operation and shall continue until all deficiencies noted in the *Substantial Performance* review have been rectified to the satisfaction of the *Contract Administrator* and the City and conditions for *Total Performance* have been achieved. The *Contractor* is to notify the *Contract Administrator* and the City in writing forty eight hours (48) prior to stopping maintenance operations.
  - .2 Sod Cutting: After the 'first' cut of sodded lawn areas cutting operations shall be carried out on a weekly (seven day) basis until *Total Performance* by *Contract Administrator* and the City:
    - .1 First cut of sodded lawn areas shall occur when a uniform grass height of 75 mm has been attained. First cut shall be to a height of 65 mm.
    - .2 Continue regular weekly cutting at a height of 65 mm until *Total Performance*.

SODDING

- .3 Cutting operations shall be such that each cut is at right angles to the previous cut.
- .4 Contractor to remove grass clippings after each cut and dispose of offsite.
- .5 Roll when required to remove any minor depressions or irregularities.
- .6 Immediately repair seeded areas that show deterioration or bare spots. Top-dress all areas showing shrinkage due to lack of watering and seed with seed mix that matches the original seed mix.
- .3 Fertilizer analysis shall conform to recommendations provided with growing medium analysis. Application of fertilizer shall follow manufacturers' recommendations noting that after October 1 lawn areas shall not be fertilized until April 15th of the following spring.
- .4 Sodded lawn areas shall be kept free of invasive and/or noxious broadleaf weeds, grasses including but not limited to poa annua, disease, fungi, detrimental nematodes and detrimental insects.
- .5 All maintenance equipment and practices are to conform to the BC Landscape Standard Level 2 'Groomed'.
- .6 Protect all sodded areas against trespassing and from damage at all times clearly marked, staked, string and flagging tape.
  - .1 Perimeter Protection: Where directed by the *Contract Administrator* and the City, sodded areas shall be surrounded by a 900 mm high barrier made up of the following components:
    - .1 Wood posts placed at 1.8 meters on centre.
    - .2 Wood Posts to be driven to a depth of 300mm.
    - .3 String two (2) strands of hemp based binder twine (or equal product) between posts. Insure one full wrap of twine around each post.
    - .4 Tie 300 mm strands of 'red' flagging tape at 450 mm intervals along the entire length of both strands of twine.
    - .5 Maintain perimeter protection until *Total Performance* issued. Upon acceptance by *Contract Administrator* and the City, remove perimeter fence and dispose of off site.

**3.5 Condition for Total Performance**

Delete 3.5.1 and replace with the following

Add 3.5.2

Conditions for *Total Performance* of Sodded areas:

- .1 Sodded areas exhibit fully established root systems.
- .2 No seams are visible between sod sections.
- .3 Sod areas are smooth and evenly graded. No depressions, foot marks or vehicle tracks.
- .4 Sod is free of bare and dead spots and does not have any broadleaf weeds, noxious grasses including but not limited to poa annua.
- .5 No surface growing medium is visible when grass has been cut to height of 65 mm.
- .6 Sodded areas have been cut a minimum of two (2) times, at seven (7) day intervals.
- .7 Sodded areas are a uniform green colour with no discoloured sections or patches.
- .8 Sodded areas exhibit a thick, dense, uniform and healthy appearance.

Lawns sodded after September 30<sup>th</sup> will be not be reviewed for *Total Performance* until April 30<sup>th</sup> the next year.

**SODDING**

**3.6 Guarantee /  
Maintenance**

Delete 3.6.1 and  
replace with the  
following

The *Contractor* hereby guarantees that the sod will remain free of weeds and defects for a period of one (1) year from the date of *Substantial Performance*. The *Contractor* shall make all corrections, adjustments and replacements required as a result of failure of all products in this section. During the *Maintenance Period*, the *Contractor* will replace sodded areas, determined by *Contract Administrator* and the City, to be dead or failing at the end of the *Maintenance Period*. Replacements to be made at next appropriate season and, conditions of guarantee will apply to all replacement seeding for one full growing season.

Delete 3.6.2 and  
replace with the  
following

The Owner reserves the right to extend the *Contractor's Maintenance Period* and responsibilities for one (1) additional year if, at end of the initial guarantee period, the development and growth of the sod is not sufficient to ensure future survival.

**END OF SECTION**

WATERWORKS

<b>1.8</b>	<b>Measurement and Payment</b>	Delete 1.8.2 and replace with the following	<p>Payment for watermain and service connection will include location and exposure of existing utilities, sawcutting and disposal of existing pavement, trench excavation, offsite disposal of surplus/displaced excavated material, dewatering, bedding, supply and installation of TR Flex Restrained Joint pipe, V-Bio encasement, bolts, gaskets, thrust blocks where indicated on contract drawings, restraints and tie rods where applicable, placement and compaction of approved native excavated backfill material, cleaning, pressure and leakage testing, flushing, disinfection where required, granular base, 85mm temporary asphalt patch, 50mm minimum asphalt driveway patch, asphalt curb, grass restoration using sod, and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section.</p> <p>Measurement for watermain will be made along the centerline of the main, through the valves and fittings, with no deduction for length of valve or fittings, over surface after work has been completed.</p> <p>Native excavated material approved for re-use as trench backfill shall have all cobbles greater than 150 mm diameter removed and disposed off-site and shall be granular in nature and free from organic materials. Native excavated material shall not be used as trench backfill where moisture content does not permit compaction to specified density. Where native excavated material is unacceptable for use as trench backfill, imported trench backfill shall be supplied, placed, and compacted to specified density under separate unit item. The Contractor Administrator must provide prior approval before imported backfill can be used.</p> <p>Payment for imported trench backfill will be made under separate unit item per section 31 23 01S – Sub-section 1.10.9.</p> <p>Pressure and leakage testing cannot be performed against live valves.</p> <p>Reinstatement of thermosplastic painted lines to be incidental to contract.</p>
		Delete 1.8.3 and add 1.8.3.1	<p>Payment for inline gate valves including risers and valve boxes; and for fittings (crosses, tees, bends, reducers, blind flanges, caps, etc.) will be made for items identified on Contract Drawings and installed as part of watermain as described under 1.8.2 in this Section.</p> <p>Payment for fittings, unless specified in the Schedule of Quantities and Prices, performed under this section will be incidental to payment for work described in other Sections.</p> <p>Measurement will be for each respective item installed without deduction of length of valves and fittings from length of pipe measured for payment under 1.8.1 and 1.8.2 in this Section.</p>
		Add 1.8.3.2	<p>Payment for removal of gate valve boxes and risers which fall outside of excavations related to other items in the Schedule of Quantities will include all excavation, backfilling, compaction, surface restoration other than asphalt or concrete, and offsite disposal.</p>
		Add 1.8.3.3	<p>Payment for abandoning and removal of Hydrants will include all excavation, removal of entire hydrant assembly, backfilling,</p>

	<p>compaction, capping of the lead, surface restoration other than asphalt or concrete, and offsite disposal of hydrant assembly.</p> <p>Payment includes all applicable work described in 1.8.2 of this section.</p>
<p>Delete 1.8.4 and add 1.8.4.1</p>	<p>Payment for service connection includes mainline saddles, corporation stops, curb stops, #10 AWG tracer wire, municipex service pipes, all valve boxes c/w Terminal City Nelson Type style valve box with lid marked "WATER", meter setter, lowering or raising down stream pipe to connect to meter setter, 50mm spool piece in place of meter, and all related fittings and appurtenances specified and/or shown on Coquitlam Water Meter Specification Drawing WM-3 and Coquitlam Standard Detail Drawing COQ-W2e. Payment includes all applicable work described in 1.8.2 of this section.</p>
<p>Delete 1.8.4 and add 1.8.4.2</p>	<p>Payment for transfer of existing copper or polyethylene service includes mainline saddles, corporation stops, cutting of existing pipe, and all related fittings and appurtenances specified and/or shown on Standard Detail Drawing Coq-W2b-1 and Coq-W2b-2. Payment includes all applicable work described in 1.8.2 of this section.</p>
<p>Delete 1.8.5 and replace with:</p>	<p>Payment for air-release and combination air valves and apparatus includes all materials, works, and appurtenances shown on Coquitlam Standard Detail Drawing COQ-W6 including manhole barrels, frames, and covers marked with "Coquitlam Water".</p> <p>Payment includes all applicable work described in 1.8.2 of this section.</p>
<p>Add 1.8.14</p>	<p>Payment for blow-off assemblies includes all materials, works, and appurtenances shown on Coquitlam Standard Detail Drawing COQ-W8 including manhole barrels, frames, covers marked with "Coquitlam Water".</p> <p>Payment includes all applicable work described in 1.8.2 of this section.</p>
<p>Add 1.8.15</p>	<p>Payment for new hydrants installed on the new main includes the hydrant body, c/w Storz "quick connect" pump nozzle, lateral connections from mainline tee off watermain to hydrants, all new pipe, isolation gate valve, valve box &amp; cover, valve stem riser pipe, bends, couplings (Robar 1506), any necessary pipe extensions to achieve the required hydrant height, concrete thrust block, tie rods, bedding material, testing and disinfection, surface restoration as indicated in the requirements in 1.8.2 of this Section and all other incidental work as shown on Standard Detail Drawing W4.</p> <p>Payment will be made at the unit price bid for each hydrant assembly installed.</p>
<p>Add 1.8.16</p>	<p>Payment for all tie-ins and wet taps to existing watermains will include all pipe materials, fittings, tapping tee c/w valve, mechanical couplings, test points, temporary blow off assembly, excavation to expose the existing main to confirm location, grade, size, material and condition, cutting and capping of existing watermain. Payment will be made per for each complete connection described in the schedule of quantities.</p>

WATERWORKS

Pressure and leakage testing cannot be performed against live gate valve.

Add 1.8.17

Payment for capping existing watermains outside excavation limits of new pipe installations to be done per COQ-W2i and includes, tie-rods, bell/riser clamp when ears or flange is not present, mechanical caps if necessary, thrust blocks and all other materials and labour necessary to complete permanent capping.

Payment includes all applicable work described in 1.8.2 of this section.

**2.0 PRODUCTS**

**2.2 Mainline Pipes,  
Joints and Fittings**

Add to 2.2.1.1

Pipe: to AWWA C151, and shall meet the following Pressure Class or Thickness Class:

- .1 100 mm – 350 mm – Thickness Class 50
- .2 400 mm & greater – PC 350

Delete 2.2.2.2 and replace with the following

Joints: It is mandatory that the push-on integrally thickened bell and spigot type conform to ASTM D3139 Clause 6.2 with single elastomeric gasket to ASTM F477.

Delete 2.2.4.13 and replace with the following

Joint Restrain Devices: General Requirements:

- .1 Ductil iron castings to ASTM A536.
- .2 Anti-corrosion coating of ductile iron castings to AWWA C219, AWWA C210, AWWA C213 or AWWA C550.
- .3 Bolts and nuts high strength low alloy steel to AWWA C111 or as specified in Contract Documents, stainless steel to ASTM F593 or ASTM F738 for bolts and ASTM F594 or ASTM F836 for heavy hex nuts. Rolled threads, fit and dimensions to AWWA C111.
- .4 Tie rods to 2.2.3.8 of this Section
- .5 Restrainers for ductile iron pipe shall be mechanical joint fittings or push-on joint fittings with tie rod.
- .6 Restrainers for PVC pipe shall be mechanical joint fittings or push-on joint fittings with tie rod lugs.
- .7 Restrained harnesses or integral restrain systems manufactures as part of the pipe joint.
- .8 All joint restraint systems for PVC pipe be approved by the specific PVC pipe manufacturer, and that they do not derate the pipe manufacturer's recommended working pressures.
- .9 Restrainers for PVCO pipe shall be mechanical joint fittings or push-on joint fittings with tie rod lugs.
- .10 All joint restraint systems for PVCO pipe be approved by the specific PVCO pipe manufacturer, and that they do not derate the pipe manufacturer's recommended working pressures.

Add 2.2.7

Oriented Polyvinyl (PVC) Pressure Pipe:

- .1 Pipe:
  - .1 Pipe to be manufactured to specifications for pipe size ranges as follows:
    - .1 Pipes 100 to 600 mm diameter – AWWA C909.



			.2 Pipes to be certified by Canadian Standards Association for pipe size ranges 100 mm to 600 mm dia. – CSA B137.3.1.
			.2 Cast iron pipe equivalent outside diameter.
			.3 To be compatible with specified mechanical joint and push-on joint fittings and valves without use of special adapters.
			.2 Joints: Push-on integrally thickened bell and spigot type to AWWA C909 Clause 4.3.3.2 (a.) with single elastomeric gasket to ASTM F477.
<b>2.3</b>	<b>Valves and Valve Boxes</b>	Delete 2.3.1.3 and replace with the following	Valves 400 mm and larger shall be butterfly valves.
		Delete 2.3.1.4	
		Delete 2.3.4 and replace with the following	Blow-Down or Blow-Off Valves: 50 mm to 300 mm as specified for mainline gate valves.
		Delete 2.3.6.1.1	
		Delete 2.3.6.1.2 and replace with the following	Circular type valve box shall be Nelson style cast iron.
		Delete 2.3.7.1 and replace with the following	Curb stop valve boxes on 19 mm dia. to 38 mm dia. shall be as shown on Coquitlam Standard Detail Drawings COQ-W2b, COQ-W2j.
		Delete 2.3.7.2	
		Delete 2.3.7.3 and replace with the following	Curb stop valve boxes (300 mm from property line) alternative on 19 mm dia. to 38 mm dia. services without operating rods to be assembled as specified for Mainline Valve Boxes 2.3.6.1.2, and shown on Coquitlam Standard Detail Drawings COQ-W2b, COQ-W2j. Service boxes may be Nelson style PVC, except when located in driveways.
		Delete 2.3.7.5 and replace with the following	Corporation stop valve boxes (at mainline tees or tapings) on services 50 mm dia. and larger as specified for Mainline Valve Boxes per Coquitlam Standard Detail Drawings COQ-W2e, COQ-W2f.
<b>2.6</b>	<b>Hydrants</b>	Delete 2.6.1.6 and replace with the following	Pump nozzle shall be “quick connect” STORZ type. STORZ type nozzle must be painted gloss black.
		Delete 2.6.2 and replace with the following	Colour: Tremclad Rust Paint Body – Fire Red Hose Caps and Bonnet – Bright Yellow
<b>2.8</b>	<b>Granular Pipe Bedding and Surround Material</b>	Add 2.8.3	Bedding and pipe surround to be MMCD Pit Run Sand 31 05 17 (2.4). Sechelt Sand is acceptable.
<b>3.0</b>	<b>EXECUTION</b>		
<b>3.6</b>	<b>Pipe Installation</b>	Add 3.6.15	When the watermain crosses a storm or sanitary sewer, the watermain shall be installed a minimum 0.5 m clear above the sewer.

WATERWORKS

Where this is not possible, the watermain shall have a minimum 0.3 m clearance under the sewer with all joints within a 3.0 m horizontal distance from the sewer wrapped with heat shrink plastic or packed and wrapped with petrolatum tape in accordance to the following standards:

- .1 ANSI/AWWA C214 (factory applied)
- .2 ANSI/AWWA C209 (field applied)
- .3 ANSI/AWWA C217-90 (petrolatum tape)
- .4 All materials used are to have zero health hazard

Installation shall be in accordance with the requirements of the Regional Health Engineer under the Health Act.

**3.10 Service Connection Installation**

Delete 3.10.4

Delete 3.10.5 and replace with the following  
Add 3.10.13

Tappings in cast iron or ductile iron mains to AWWA CISI pipe to be made using double strap saddles specified in 2.5.3 of this Section.

Water service connections (19 mm and 25 mm) must be installed as one continuous length of pipe.

**3.23 Connection to Existing Mains**

Delete 3.23.1 and replace with the following

Connections to existing waterworks systems will be made by the Contractor under the supervision of the Contract Administrator. Make all necessary arrangements with the Contract Administrator and the City to schedule work to prevent construction delays.

Add 3.23.2

Provide written notification to all affected residents a minimum 48 hours prior to service interruption.

Add 3.23.3

Arrange shutdown of the existing valves by the City. *Contractor* shall not operate any valves without prior approval of the *Contract Administrator* and the City.

Add 3.23.4

Provide temporary water service while existing service is interrupted as detailed in *Contract Drawing* or Project Specific Specifications.

Add 3.23.5

Fittings used for tie ins should be cleaned of all foreign material and sprayed with a 1% hypochlorite solution prior to assembly. Disinfect all pipes and fittings installed at the connection.

Add 3.23.6

*Contractor* shall be responsible for the costs for the City to flush and purge all air from existing mains and services in the area affected by the water service interruption.

Add 3.23.7

Procedures for Bacteriological Tests shall be as described in AWWA C651-99. No connection to existing watermains will be authorized until final results of coliform bacterial testing have been received and reviewed by the Water Superintendent.

All samples shall be taken by the City Water Utility.

All valve operation shall be handled by the City Water crews.

The *Contractor* shall provide sampling points, one every 366m plus the end of each main segment. The *Contractor* shall provide all labour to temporarily connect and disconnect the new main in order to properly acquire test samples.

Initial flushing, testing and chlorination will be undertaken by the *Contractor* from a water source approved by the Water Superintendent.

Coordination for the bacterial testing and tie in shall be coordinated by the project Engineering Inspector and the Water *Superintendent* prior to final flushing.

The *Contract Administrator* shall review with the Water *Superintendent* and the *Contractor* sampling locations and appurtenances.

The *Contract Administrator* shall check and record chlorine residual prior to final flushing.

After final flushing the City Water crew will collect two sets of samples 24 hours apart. Samples will be taken at least every 366m of the new main as well as the terminus and all branches.

Test results will be delivered to the Water Superintendent who will provide a copy to the Contract Administrator.

The Water *Superintendent* will judge the adequacy of the test results and issue an authorization to connect.

City Water crews will provide shutdown and flushing as required.

**END OF SECTION**

**1.0 GENERAL**

**1.1 Related Work**

Add 1.1.6

Hot Mix Asphalt Concrete  
Pavement

Section 32 12 16

Add 1.1.7

Portland Cement Concrete  
Paving

Section 32 13 13

**1.5 Measurement and  
Payment**

Delete 1.5.1.1 and  
replace with the  
following

Payment for all manholes will be incidental to other works specified in the Schedule of Quantities and Prices. Includes supply & placement of imported backfill, dewatering, granular subbase and base supply, preparation and compaction, manhole base, risers, benching, lid, slab, frame & lid, cover, ladders & setting frame & lid to the finished grade.

**2.0 PRODUCTS**

**2.1 Materials**

Add 2.1.7.3

Any frame and cover assembly creating a point load on the concrete riser rings will not be permitted.

Delete 2.1.12 and  
replace with the  
following

Catchbasin lids manufactured to ASTM C478M

Delete 2.1.16.2

Delete 2.1.17

**3.0 EXECUTION**

**3.1 Excavation and  
Backfill**

Add 3.1.2

For manholes, when base gravels are complete, excavate for grade rings and manhole frame assembly. Do not disturb the compacted road base beyond the excavation requirement.

**3.3 Manhole Installation**

Delete 3.3.12.2 and  
replace with the  
following

Allowable products are precast concrete risers and cast-in-place form system. Individual riser heights shall be 50mm, 75mm, or 100mm.

Delete 3.3.12.5 and  
replace with the  
following

Proper layer of grout between the spacers, covering the entire surface of the rings, should be utilized.

Delete 3.3.15 and  
replace with the  
following

Install drop structures as shown on the contract drawings to Coquitlam Standard Detail Drawing COQ-S4 and Standard Detail Drawing S3. Maximum allowable inside ramp shall be 250 mm invert to invert.

Delete 3.3.17 and  
replace with the  
following

Ensure frames conform to design contour of pavement or existing surface. Manhole lids left raised in preparation for overlay paving shall have a rubberized protector ring or asphalt ramp. The use of riser rings for adjusting manhole frames will not be permitted.

**END OF SECTION**

# ***Appendix A - Traffic Management Detail Specifications***

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

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**1.0 GENERAL**

- .1 This Traffic Management detail specification refers to the Contractor's specific plans to identify project traffic risks affecting the *Work*, provide Traffic Control Plans, and to implement the traffic control for the safe passage of vehicles and pedestrian through the work zone.
- 1.1 Related Works
  - .1 Traffic Regulation MMCD Section 01 55 00S.
- 1.2 References
  - .1 WorkSafe BC, Occupational Health and Safety (OHS) Regulation, Section 18 – Traffic Control.
  - .2 B.C. Ministry of Transportation and Transit (MOTT) Traffic Control Manual for Work on Roadways.
- 1.3 Project Requirements
  - .1 A Road and Sidewalk Closure Permit is required by Coquitlam for all work affecting traffic flow related to construction. A permit is required for each specific construction interference with traffic flow. A digital copy of the Road and Sidewalk Closure Permit form can be obtained for use during the contract from the City's website at [www.coquitlam.ca/closure](http://www.coquitlam.ca/closure).
  - .2 A Road and Sidewalk Closure Permit form application must be submitted to the City's Traffic Operation Division 10 working days prior to start of work.
- 1.4 Measurement and Payment
  - .1 For this Contract, payment for all work performed under this section, unless included in the Schedule of Quantities and Prices shall be treated as incidental work, including a Traffic Management Plan (TMP), Traffic Control Persons (TMP), traffic markings & all temporary traffic signs, devices as required for traffic & pedestrian safety; and all other items described in the Section 01 55 00S.

**2.0 PRODUCTS**

- 2.1 Traffic Management Plan
  - .1 The Contractor is required to assign a Traffic Manager for the Contract with the responsibility of preparing the Traffic Management Plan and the Traffic Control Plans, as well as the responsibility for continuing implementation of traffic control for the Work.
  - .2 The Traffic Management Plan (TMP) will consist of the following components:

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- .1 Category identification through risks and project category assessment as per MOTI Traffic Management Manual for Work on Roadways;
- .2 Traffic Control Plans for individual stages of the construction;
- .3 Incident Management Plan for the response to an unplanned event and recording of incident information;
- .4 Category 3 TMP must be signed and sealed by a qualified Professional Engineer.
- .3 Submission of the TMP is to be made to the *Contract Administrator* within five (5) days of the *Notice of Award* of the *Contract*, and must be approved by the *Contract Administrator* prior to start of the *Work*.
- .4 Review of the TMP will be performed by the Contract Administrator. Comments for revisions to the TMP will be returned to the *Traffic Manager* for implementations.
- .5 The Contractor shall comply with all the requirements of applicable laws, rules, regulations, codes and orders of the municipal and other appropriate authorities concerned with work on streets or highways and shall post proper notices and/or signals, and provide necessary barriers, guards, lights, flagmen or watchmen as may be necessary for proper maintenance of traffic and protection of persons and property from injury or damage. All costs involved in respect to the above requirements will be deemed to be included in the Contract Price.
- .6 The Contractor shall give due notice to local police and fire departments prior to beginning construction and shall comply in all respects with their requirements.
- .7 The Contractor, during the progress of the work, shall make adequate provision to accommodate the normal traffic along streets and highways immediately adjacent to or crossing the work so as to cause the minimum of inconvenience to the general public.
- .8 The Contractor is required to maintain local traffic and driveway access during all stages of construction. This includes maintaining a 1.5m width walkway or pathway through the construction site for pedestrians.

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- .9 Where existing streets or roads are not available as detours, all traffic shall be permitted to pass through the work with as little inconvenience and delay as possible unless otherwise provided or authorized by the Contract Administrator. If half the street only is under improvement, the other half shall be conditioned and maintained as detour.
- 2.2 Incident Management and Reporting
- .1 The Contractor shall facilitate incident response vehicles and staff and move traffic safely and expeditiously through or around an incident on site and provide assistance to emergency response personnel as required. An incident includes, but is not limited to, motor vehicle accidents, emergency road repairs, disabled vehicles, and debris on the road. The immediate response to an emergency shall by necessity make use of available devices and equipment.
- .2 If an incident occurs on site, the Contractor will be required to submit a report to the Contract Administrator documenting details of the incident including event, location, date, time, action taken, duration and restoration of site.
- 2.3 Traffic Control Plans
- .1 The Contractor shall designate a qualified Traffic Control Supervisor for the works, per the requirements of WCB regulations Section 18.
- The designated Traffic Control Supervisor may be the same individual that is designated as the Traffic Manager, or may be a separate individual qualified for the responsibilities of this function.
- .2 The Contractor shall prepare weekly the anticipated traffic control activities, locations, and durations for the upcoming week.
- .3 Permissible delays shall only be considered outside Peak Hours. Permissible delays are categorized as follows:
- a) Minor Delays - Less than two (2) minutes in duration; for occasional interruption due to construction activities. These delays shall be coordinated with available breaks in the traffic flow.
  - b) Major Delays - Maximum five (5) minutes in duration; for occasional interruption of traffic for construction activities if traffic volumes permit. These delays shall be coordinated with available breaks in the traffic flow.

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- .4 The Contractor is responsible for ensuring that the flow of traffic is unimpeded by construction-related activities.

### 3.0 EXECUTION

- 3.1 Traffic Control Plan
  - .1 A copy of the approved current Traffic Plan must be held on site by both the Site Superintendent as well as the person/company responsible for the traffic control implementation.
  - .2 Failure to produce a valid approved Traffic Plan on site, or having work not follow the Traffic Control Plan will result in immediate shut-down of the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire an approved Traffic Control Plan before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.
- 3.2 Road and Sidewalk Closure Permits
  - .1 The Contractor must have, on-site, a copy of an approved Road and Sidewalk Closure Permit valid for the work being done. Failure to produce a valid Road and Sidewalk Closure Permit on-site will result in shut-down of the work. Failure to comply on what is stated on the approved permit will result in shut-down of the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire a Road and Sidewalk Closure Permit before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.
- 3.3 Traffic Control Personnel & Equipment
  - .1 The Contractor shall supply all necessary traffic control devices required to perform traffic control services for the project. Signs and traffic control devices not applying to existing conditions shall be removed. Where operations are carried out in stages, only those traffic control devices that apply to the current stage are to be left in place.
  - .2 There must be sufficient Traffic Control Persons (TCPs) on site to appropriately and safely direct traffic in all sections of the Work.
- 3.4 Signage
  - .1 Supply, installation, maintenance and removal of all works-related signs shall be the responsibility of the Contractor. The location and type of each sign shall be indicated on the approved Traffic Control Plan, for each stage of the works.

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Traffic control signs and devices must be positioned and used as specified in the Traffic Control Plan and signs and devices must be located so as to allow traffic to move by or through the work area in a controlled manner and, if necessary, to come to a controlled stop with due regard for the prevailing weather and road conditions.

Signs shall be checked daily for legibility, damage, suitability and location. Signs and delineators shall be cleaned as frequently as necessary to ensure full legibility and reflectance.

3.5 Detours .1 Any proposed detours must be approved by the Contract Administrator and conducted in accordance with the approved Traffic Plan and the Traffic Control Manual for Work on Roadways.

3.6 Abrupt Changes in Surface Elevations .1 The Contractor shall minimize any abrupt changes in roadway elevation left exposed to traffic during both working and non-working hours.

A wedge of asphalt must be used as a transition to vertical differences in travelled areas and have a slope of 4:1 or less.

3.7 Cyclist and Pedestrian Access .1 The Contractor shall make provision for pedestrians, wheel chairs and bicycles to have safe access across the work zone at all times. If this cannot be readily accommodated, then acceptable detours and appropriate signs shall be provided.

3.8 Temporary Pavement Markings .1 The Contractor shall be responsible for the application and removal of all temporary pavement markings and reflective devices.

All temporary markings must be removed after installation of permanent markings.

#### **4.0 TRAFFIC RESTRICTIONS**

4.1 Road and Sidewalk Closure Permits .1 Minimum of Single Lane Alternating Traffic (SLAT) in each direction and all local traffic must be accommodated at all times.

.2 A City of Coquitlam Road and Sidewalk Closure Permit is required for each instance of closure and will be valid for a maximum period of one (1) week and, if still necessary, re-submittal of a Road and Sidewalk Closure Request is required

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A copy of the approved Road and Sidewalk Closure and Lane Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.

**.3 Total Road Closure is Not Permitted**

.4 Detours will only be permitted as approved by the Contract Administrator and must have a complete Traffic Control Plan indicating detour route, signing, and duration. Detours will not be allowed without sufficient lead time for commercial and retail operation to react appropriately to detour information provided to them.

4.2 Lane Closure Restrictions

**.1 For each of the road sections affected:**

- Road and Sidewalk Closures will be reviewed for appropriateness during the allowable hours of work.
- Access to properties to be maintained
- Sufficient Traffic Control Persons are required for each Road and Sidewalk Closure (or any work activities), including side street intersections, to safely guide traffic through the work site.

**5.0 HOURS OF WORK**

**.1 The hours of work shall be from 0700h to 1900h inclusive Monday to Friday and 0900h to 1800h inclusive Saturdays , unless noted otherwise.**

.2 Some allowances may be made for paving operations, depending on a proposal acceptable to the Contract Administrator.

.3 Line Marking work may be performed at night, (21:00 to 05:00).

No work is allowed on Sundays without specific written permission from Contract Administrator.

**6.0 CONSTRUCTION OPERATIONS**

6.1 Truck Routes

.1 The Contractor is restricted to the City's designated Truck Routes. The current Truck Route Map is available on the City's website at [www.coquitlam.ca](http://www.coquitlam.ca) and can be found under Residents, Transit & Transportation, Trucking Routes.

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Traffic Management Detail

Specifications

Contract No. 89037

TRAFFIC MANAGEMENT

TMP 7

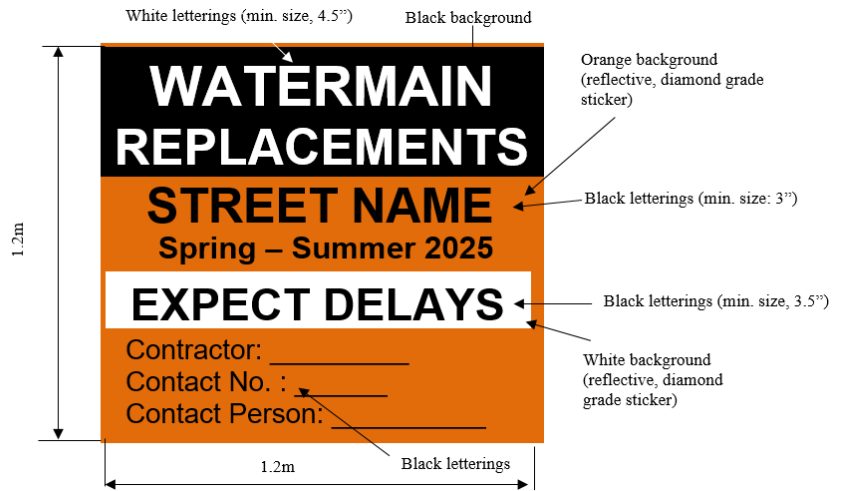
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- |     |                                     |  |
|-----|-------------------------------------|--|
| 6.2 | Road Specific Considerations        | .1 Ensure that Traffic Management Plan accommodates businesses and residences during construction activities.<br><br>.2 Contractor shall not schedule paving during garbage pick up day.   |
| 6.3 | Work Stoppage Due to Traffic        | .1 The City will not control or direct traffic control activities of the Contractor, but may require an immediate stop to any work where, in the sole opinion of the Contract Administrator, the provided traffic management plan is ineffective or creating unreasonable delays.  |
| 6.4 | Construction Activity and Signage   | .1 The Contractor will be responsible to place other construction information signs as required to inform the public of construction activities, and ensure safe travel through the work site.<br><br><b>The Contractor is responsible to provide signage including No Parking signs with specific time frames and dates noted. Signs to be bagged when not applicable.</b>  |
| 6.5 | Construction Zone Information Signs | .1 The Contractor is required to provide, one week prior to start of work, six stationary signs at intersections, one in each direction, to inform traffic of existing and anticipated conditions at entry points of the lane to be worked on, locations for these signs will be provided by the Contract Administrator. Signs to be re-used and transferred to the next location once lane is completed.<br><br>Ensure that signs and locations are addressed in the Traffic Management Plan. All signs are to be removed at the end of the construction period.<br><br>Exact locations to be determined on site by Contract Administrator. |

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APPENDIX 1



City of Coquitlam  
**Road and Sidewalk  
Closure Permit Request**

Traffic and Street Use Management Section  
3000 Guildford Way, Coquitlam BC V3B 7N2

Phone: [604-927-6250](tel:604-927-6250) Email: [StreetPermits@coquitlam.ca](mailto:StreetPermits@coquitlam.ca)

~~Initial Permit: \$450~~ ~~Renewal Permit: \$75~~

89037

Application Date: \_\_\_\_\_ City Project or Film Permit Number (if applicable): \_\_\_\_\_

- An Initial Permit is required for all new applications and when the location, type of work, or the type of traffic controls change from what was approved for the Initial Permit. The application needs to be received a minimum of 10 business days prior to the intended closure date.
- A Renewal Permit extends the rights and privileges of the approved Initial Permit and is required when the timeline needs to be extended. The application must be received a minimum of 5 business days prior to the intended extension date.

Development Site Address (if applicable): \_\_\_\_\_

Work location (street name, block number, to/from, at, etc.) \_\_\_\_\_

**Contact Information**

Applicant Company Name: \_\_\_\_\_

Applicant (person completing application form)

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Applicant's Signature: \_\_\_\_\_

Company Name (Prime Contractor): \_\_\_\_\_

Site Superintendent

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Mobile: \_\_\_\_\_ Email: \_\_\_\_\_

**Permit Information**

Start Date: \_\_\_\_\_ End Date: \_\_\_\_\_

Day(s) and Time(s):  Monday  Tuesday  Wednesday  Thursday  Friday From: 00:00 To: 00:00  
 Saturday From: 00:00 To: 00:00  Sunday From: 00:00 To: 00:00

Specific Lanes:  Curb  Inside/Centre Lane  Left Turn Lane  Right Turn Lane  Parking Lane  
 All Lanes  Sidewalk/MUP  Bicycle Lane

Direction:  Northbound  Southbound  Westbound  Eastbound

Purpose of Work:  Concrete Pour  Utility Installation  Curb Installation  Other \_\_\_\_\_

This permit is related to:  City Design and Construction  City Parks  External Environmental  
 Development  External/Utilities

City Contact (if applicable): \_\_\_\_\_

**Office Use Only**

Permit Conditions/Comments:

\_\_\_\_\_

Approved by

Date

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

### Application Checklist



The following information must be provided. Incomplete applications will not be reviewed.

1.  Traffic Management Plan (TMP); **OR**  
 Traffic Management Manual for Work on Roadways Figure Number: \_\_\_\_\_
2.  **Project Category Determination** (per [2020 Traffic Manual for Work on Roadways](#)).  
 Initial Project Category Assessment  
 Project Risk Analysis  
 Category 1  Category 2  Category 3
3.  **Prime Contractor Designation Letter**
4.  **City of Coquitlam Certificate of Insurance**
5.  **Notification Letter and Map** (required for all full road closures). A Notification Letter must be provided to all affected residents and businesses.  
 Yes  No  Not Applicable
6.  **Traffic Control Persons** (flag persons) **required?** All operations within the road right-of-way must comply with WorkSafe BC regulations and BC Ministry of Transportation standards for work on roadways.  
 Yes  No If yes, how many? \_\_\_\_\_
7.  **Bus routes/stops impacted?** Applicant is to contact Coast Mountain Bus Company (with a minimum of 3 days' notice) [Temporary Transit Changes Request Form](#). General information can be found by visiting [Temporary Transit Changes](#).
8.  **City of Coquitlam Solid Waste has been contacted?** Coquitlam Environmental Services contacted regarding impact to garbage/recycling routes and pick up Phone: [604-927-4300](tel:604-927-4300) Email: [wastereduction@coquitlam.ca](mailto:wastereduction@coquitlam.ca)  
 Yes  No  
Are operations impacted?  Yes  No  
If Yes:
  - a plan to ensure continuous collection has been provided:  Yes  No
  - Day(s) of the week impacted: \_\_\_\_\_
  - Time(s) of the day impacted:  a.m.  p.m.
9.  **Pedestrian / Bike Lanes impacted?** Please describe sidewalks and/or bicycle facilities that will be impacted by the proposed work.  
\_\_\_\_\_  
\_\_\_\_\_
10.  **Is the work on, or will it impact a road along our [Major Road Network](#)?**  
 Yes  No

### Additional information

- Only vehicles actively engaged in the performance of cleaning, clearing, maintenance, repair, construction or other work are permitted within work zones. Vehicles being used by Superintendents, Traffic Control Persons, and other construction personnel that are not actively engaged in work described above are not permitted within the work zone and are not permitted parking /stopping prohibitions.
- Closures of sidewalks, cycling facilities, lanes, and full road closures are only permitted during the time periods indicated on the approved permit. Traffic controls are not permitted outside of these approved permit hours.

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***Appendix B -  
Contract Drawings***



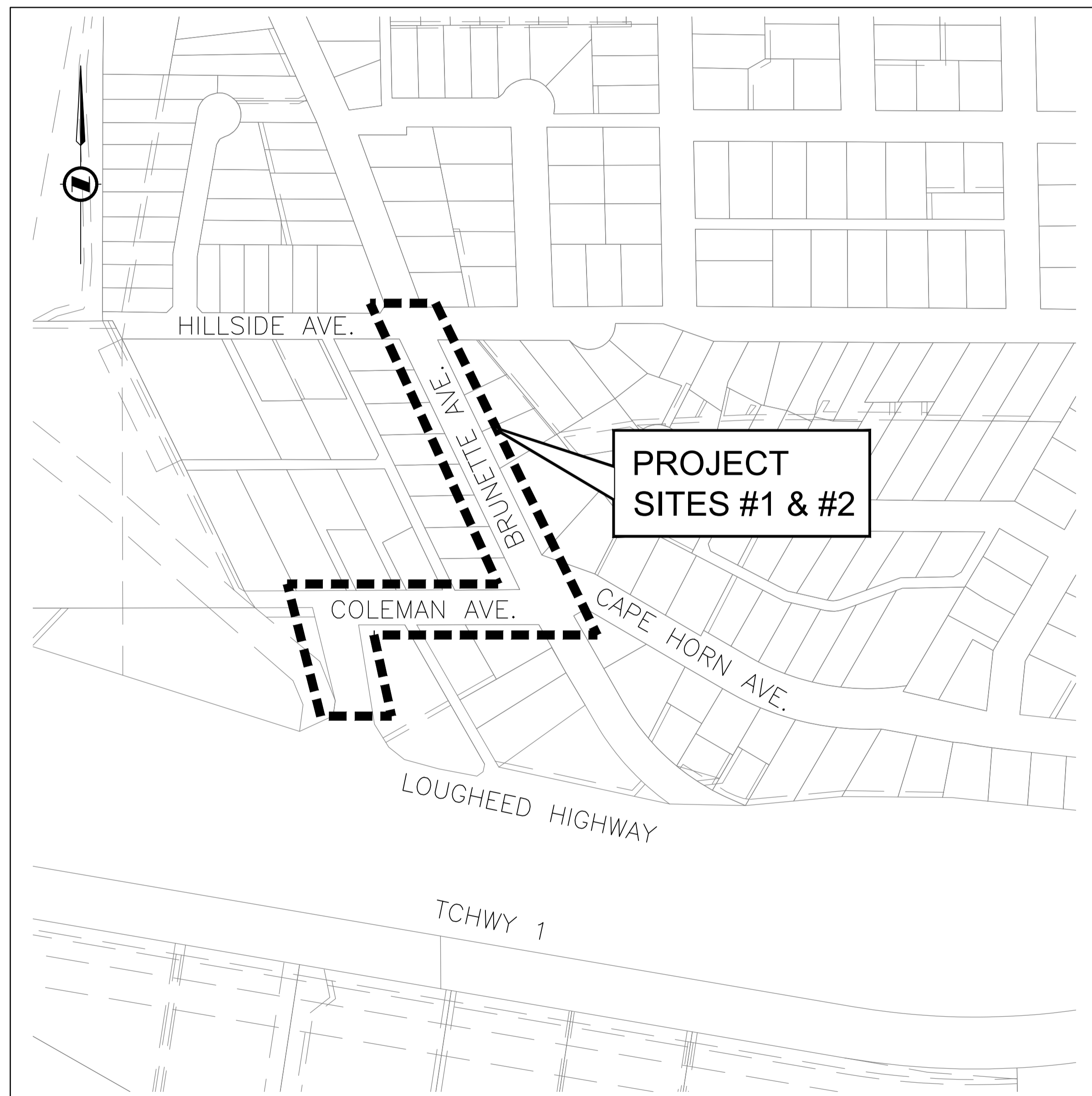
# Coquitlam

Engineering & Public Works

## WATERMAIN REPLACEMENTS

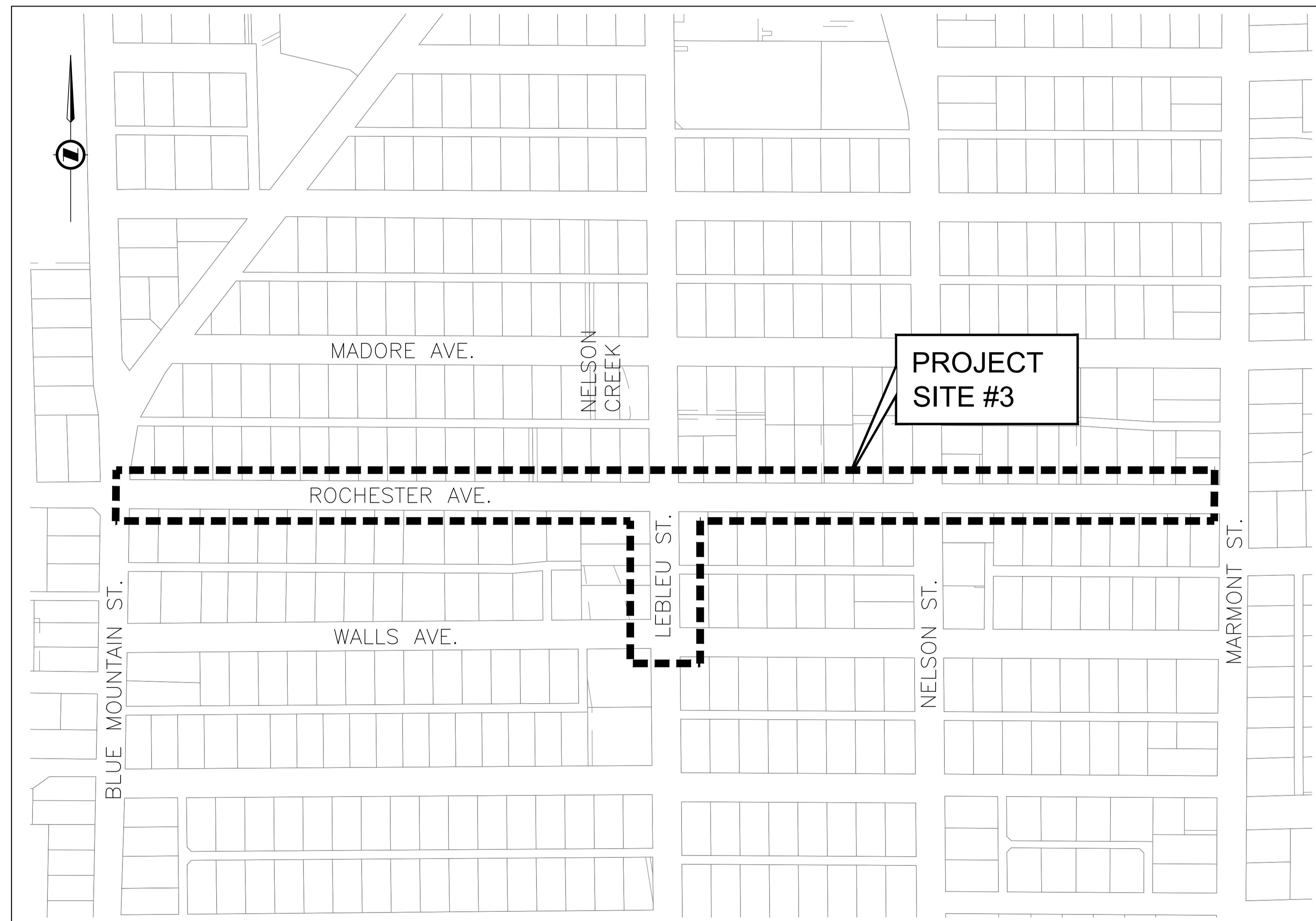
BRUNETTE, COLEMAN, AND ROCHESTER

DRAWING INDEX	
SHEET No.	TITLE
--	COVER SHEET
W1 OF W7	BRUNETTE AVENUE (SITE #1) - HILLSIDE AVE TO 20m SOUTH OF COLEMAN AVE - PLAN & PROFILE
W2 OF W7	COLEMAN AVENUE (SITE #2) - BRUNETTE AVE TO 50m NORTH OF LOUGHEED HWY - PLAN & PROFILE
W3 OF W7	BRUNETTE AVENUE (SITE #1) & COLEMAN AVENUE (SITE #2) - DETAILS
W4 OF W7	ROCHESTER AVENUE (SITE #3) - BLUE MOUNTAIN ST TO LEBLEU ST - PLAN & PROFILE
W5 OF W7	ROCHESTER AVENUE (SITE #3) - LEBLEU ST TO MARMONT ST - PLAN & PROFILE
W6 OF W7	LEBLEU STREET (SITE #3) - ROCHESTER AVE TO WALLS AVE - PLAN & PROFILE
W7 OF W7	ROCHESTER AVENUE & LEBLEU STREET (SITE #3) - DETAILS



LOCATION PLAN

N.T.S.



LOCATION PLAN

N.T.S.

**ISSUED FOR  
TENDER**

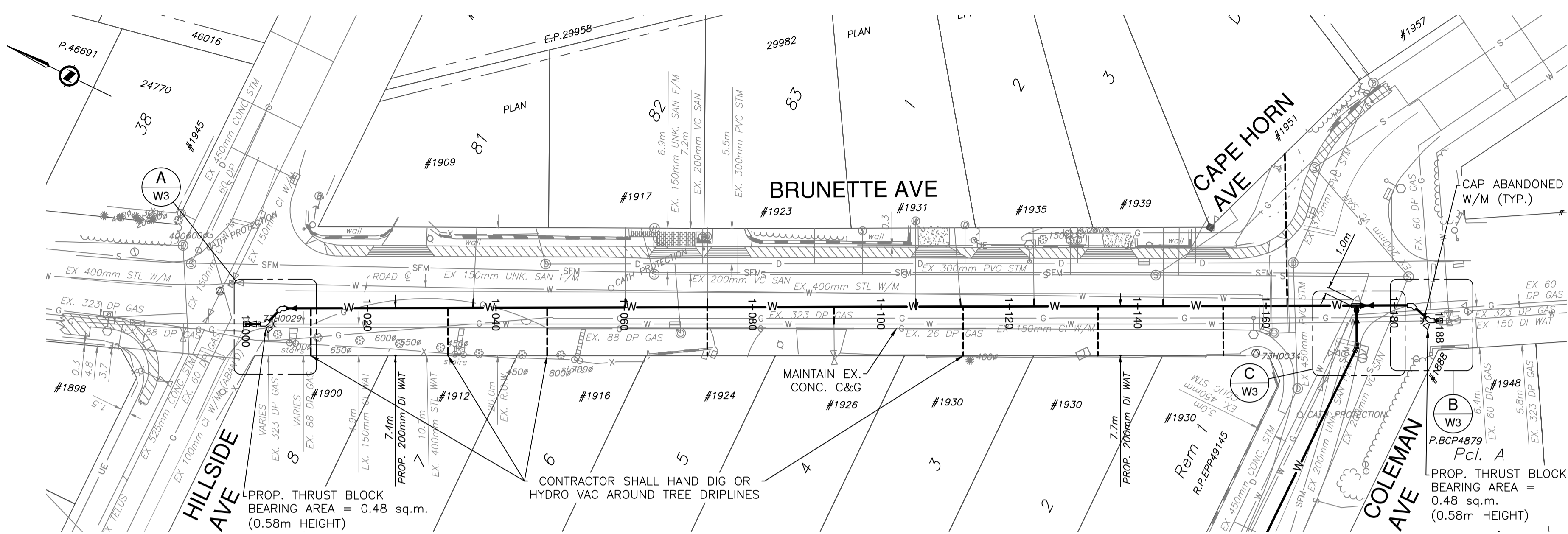
PROJECT: 479289

April 2025



METROTOWER 1, SUITE 2200, 4710 KINGSWAY  
BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2  
TEL: 604-438-5300 FAX: 604-438-5350  
WWW.PARSONS.COM  
EGBC PERMIT TO PRACTICE: 1002020

C:\USERS\p2081616\WORKSPACE - PARSONS\CORP\ENGINEERING & DESIGN - 479289 COQUITLAM - BRUNETTE, COLEMAN, AND ROCHESTER WATERMAIN REPLACEMENTS\DRAWINGS\PLOTTED ON 2025/04/11 2:28pm BY P2081616

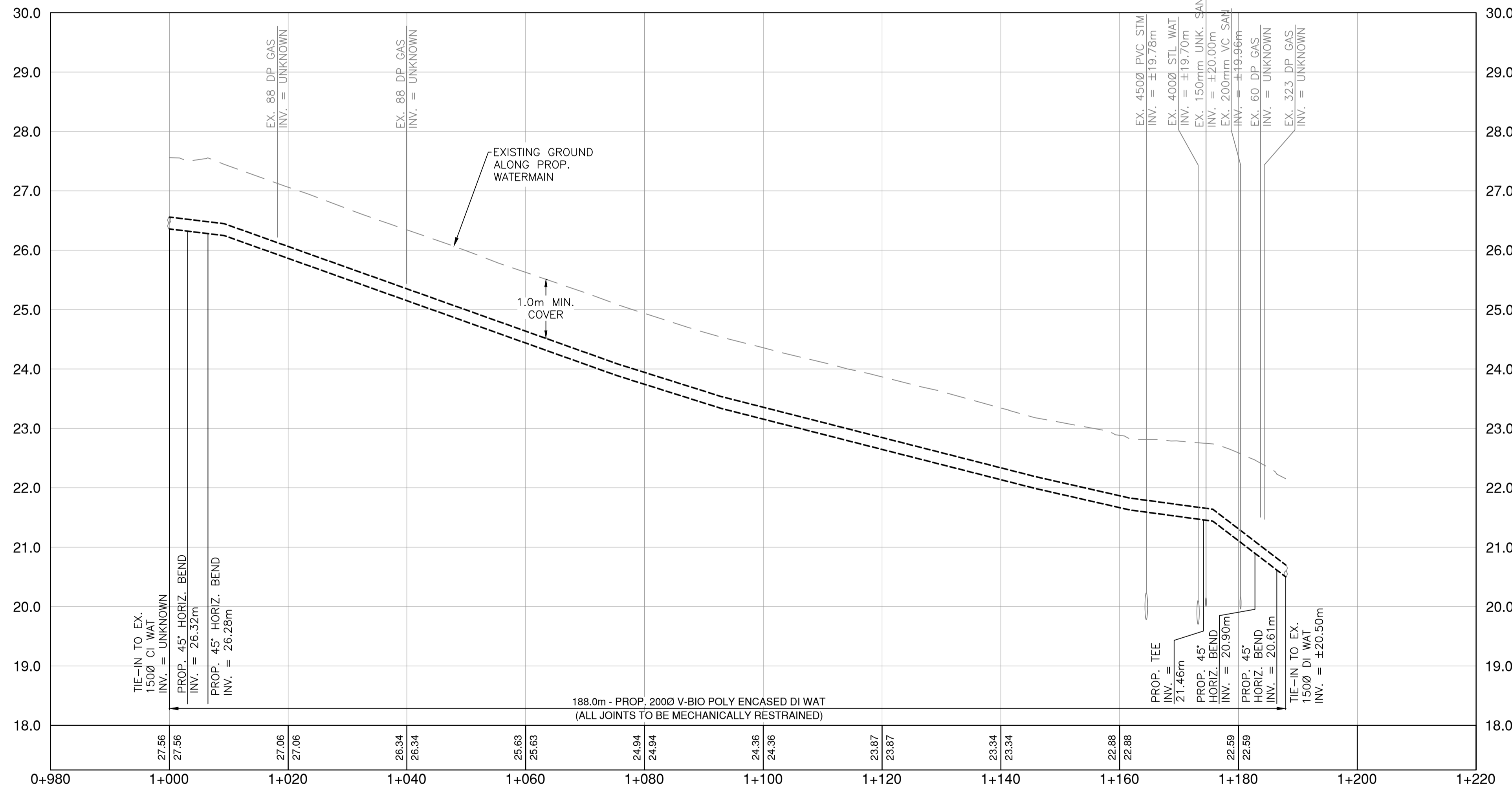


- WATERWORKS NOTES:**
- ALL WATERWORKS CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE SPECIFICATIONS DETAILED UNDER THE CITY OF COQUITLAM ENGINEERING STANDARDS BYLAW 3558, 2003 AS AMENDED, SUPPLEMENTARY SPECIFICATIONS TO THE MMCD, 2022 AS AMENDED, AND MMCD 2009 PLATINUM EDITION SPECIFICATIONS AND DETAILS.
  - LOCATION OF EXISTING UNDERGROUND UTILITIES ARE INDICATED IN THE PUBLIC ROAD ALLOWANCE ONLY AND ARE SHOWN APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. BC-ONE-CALL PROVIDES UNDERGROUND UTILITY LOCATIONS (1-800-474-6886).
  - WATERMANS SHALL BE DUCTILE IRON (DI) CLASS 50 CEMENT LINED TO AWWA C104 AND MAINTAIN A MINIMUM OF 1.0m COVER.
  - V-BIO ENCASE ALL WATERMANS, VALVES, FITTINGS, AND HYDRANT ASSEMBLY (INCLUDING LATERALS, VALVES AND STANDPIPES). INSTALLATION SHALL FOLLOW METHOD A (POLYETHYLENE TUBES) UNDER AWWA C105/A21.5.
  - FOR TYPICAL PIPE TRENCH SECTION, REFER TO DETAIL ON DWG. W6.
  - ALL NEW SERVICE CONNECTIONS SHALL HAVE DOUBLE STRAP SADDLES AT MAIN, AND INSTALLED AS PER CITY OF COQUITLAM STD. DWG. COQ-W2e.
  - FOR CONCRETE THRUST BLOCK DETAILS SEE MMCD STD. DWG. W1.
  - FOR BLOW-OFF DETAILS SEE CITY OF COQUITLAM STD. DWG. COQ-W8.
  - FOR TYPICAL GATE VALVE INSTALLATION SEE MMCD STD. DWG. W3.
  - ALL TESTING AND CHLORINATION OF WATERLINES SHALL BE COMPLETED BY THE CONTRACTOR AND WITNESSED BY CITY OF COQUITLAM.
  - VERTICAL BENDS SHALL BE CONSTRUCTED WITH DEFLECTED JOINTS (NO FITTINGS).
  - PRESSURE AND LEAK TESTING ARE NOT ALLOWED AGAINST LIVE VALVES.
  - CLOSE ALL ABANDONED VALVES AND REMOVE RISERS AND VALVE BOXES.
  - ALL RESTORATION OF BOULEVARD GRASS TO BE DONE WITH SOD UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR.
  - SERVICES INDICATED AS REPLACEMENT SHALL BE 50mm SERVICE PER COQ-W2e. MUNICIPEX WITH #10 TRACER WIRE IS AN ACCEPTABLE SUBSTITUTE FOR TYPE K COPPER. RETAIN AND REINSTALL EXISTING METERS IF ANY.
  - SERVICES INDICATED AS TRANSFER SHALL RETAIN THE EXISTING SETTER, METER BOX AND CURB STOP. EXTEND EXISTING SERVICE WITH MATERIAL TO MATCH EXISTING, AND INSTALL NEW CORPORATION STOP.
  - TRENCH RESTORATION SHALL BE PERMANENT. LOCAL ROADS SHALL BE MINIMUM 50mm LOWER COURSE ASPHALT AND 35mm UPPER COURSE. COLLECTOR ROADS SHALL BE MINIMUM 60mm LOWER COURSE AND 40mm UPPER COURSE. ASPHALT MIX SHALL BE AS SPECIFIED FOR EACH ROAD CLASSIFICATION.
  - TRENCH PATCH: TEMPORARY TRENCH REPAIR SHALL MATCH EXISTING OR 75mm MINIMUM; PERMANENT PATCH SHALL BE 35mm MILL AND OVERLAY WITH 200mm KEY.
  - ABANDON EXISTING WATERMANS IN PLACE. CAP OR PLUG ENDS. REMOVE EX. VALVE BOXES.
  - CONTRACTOR SHALL FOLLOW SECTION 3.23 OF CoQ SUPPLEMENTARY SPECIFICATIONS DIVISION 33 WATERWORKS FOR CONNECTION TO EXISTING MAINS AND COMMISSIONING AND TESTING OF NEW MAINS.

- SURVEY NOTES (FOR SITES #1 & #2 - BRUNETTE & COLEMAN):**
- GEODEIC ELEVATIONS ARE DERIVED FROM TIES TO INTEGRATED SURVEY CONTROL MONUMENT 73H0029. LOCATED IN THE INTERSECTION OF BRUNETTE AVENUE AND HILLSIDE AVENUE, PUBLISHED ELEVATION=27.568m, DATUM IS [CGVD28 (GVRD 2018)].
  - THIS PLAN SHOWS HORIZONTAL GROUND LEVEL MEASURED DISTANCES. PRIOR TO COMPUTATION OF NAD83 UTM COORDINATES MULTIPLY BY THE COMBINED FACTOR 0.9995887. DATE OF SURVEY COMPLETION IS DECEMBER 19, 2023.
  - BASEMAP WAS IMPORTED FROM CITY OF COQUITLAM GIS COORDINATE GEOMETRY. ACCURACY IS ESTIMATED AT ±0.1m.

PRE-LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

**FORTISBC GAS NOTE:**  
IF WORKING WITHIN TWO (2) METRES ADJACENT TO, OVER, OR CROSSING A DISTRIBUTION PRESSURE (DP) GAS PIPELINE 273mm (10 INCHES) OR LARGER DIAMETER, CONTACT ENRIQUE.LINERO@FORTISBC.COM (604-576-7212) TO ARRANGE FOR AN INSPECTOR.



**SYMBOLS LEGEND:**

- |                                     |                         |
|-------------------------------------|-------------------------|
| #100 House Number (Civic Address)   | Wall                    |
| Gas Valve                           | Embankment Bottoms      |
| Catch Basin Round                   | Embankment Tops         |
| Hydro Kiosk                         | Bush outline            |
| Water Manhole                       | Fence                   |
| Hydro Manhole                       | Garden line             |
| Stump (diameter mm)                 | Lock Block Wall         |
| Vegetation Coniferous (diameter mm) | Concrete                |
| Vegetation Deciduous (diameter mm)  | Sidewalk Concrete       |
| Fence Post                          | Brick                   |
| Lawn Drain                          | Sign                    |
| Sump                                |                         |
| Irr Control Valve                   |                         |
| Cable Manhole                       |                         |
| Edge of pavement                    | Hydrant                 |
| Watermain and valve                 | Water air valve         |
| Drainage sewer, MH                  | Water blowoff           |
| Drainage ditch                      | Water service           |
| Sanitary sewer, MH                  | Catch basin, top inlet  |
| Sanitary forcemain                  | Catch basin, side inlet |
| Gasmain and valve                   | Catch basin, round      |
| Hydro duct, MH                      | Drainage service        |
| Telephone duct, MH                  | Drainage cleanout       |
| Sanitary service                    | Sanitary cleanout       |
| Utility pole (joint pole)           | Utility pole with light |
| Streetlight, davit                  | Streetlight, post top   |
| Comb signal pole                    | Traffic signal pole     |
| Junction box                        |                         |
| Hydro Guy Wire                      | Hydro Kiosk             |
| Vegetation Conifer                  | Vegetation Deciduous    |
| Vegetation Shrub                    | Survey Traverse Hub     |
| Survey Traverse Pin                 | Survey Iron Pin         |
| Survey Lead Plug                    | Survey Monument         |

Benchmark: SEE SURVEY NOTES ON THIS SHEET.

Note: Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

Plot Date: April 11, 2025

**PARSONS**

METROTOWER I, SUITE 2200, 4710 KINGSWAY  
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TEL: 604-438-5300 FAX: 604-438-5350  
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No.	Date	By	Revisions
4	11-APR-2025	HH	ISSUED FOR TENDER
3	04-APR-2025	HH	100% DESIGN REVIEW
2	24-FEB-2025	HH	90% DESIGN REVIEW
1	20-DEC-2024	HH	PRELIMINARY DESIGN REVIEW

**Coquitlam**

Engineering & Public Works

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

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Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**PERMIT NUMBER:** \_\_\_\_\_

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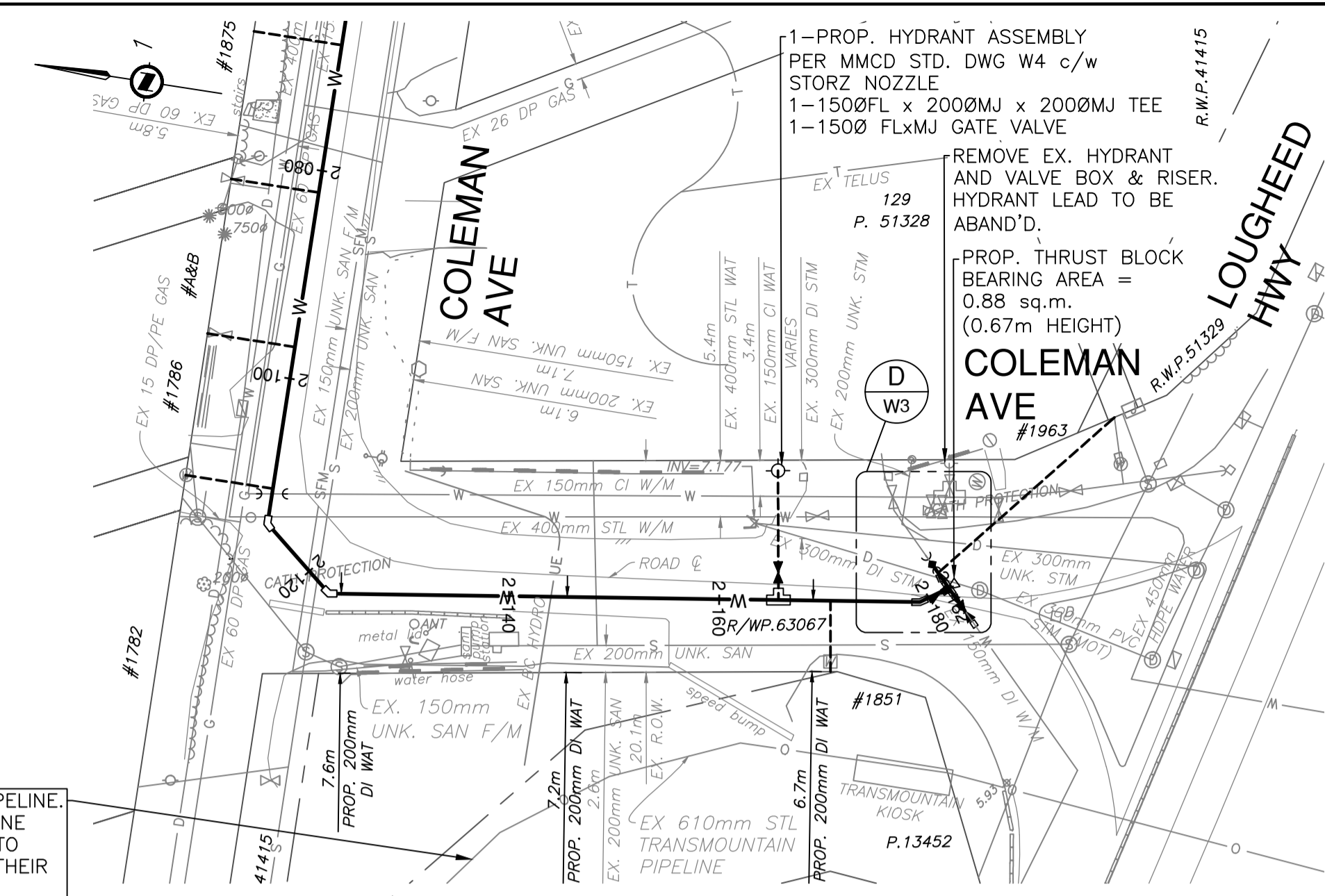
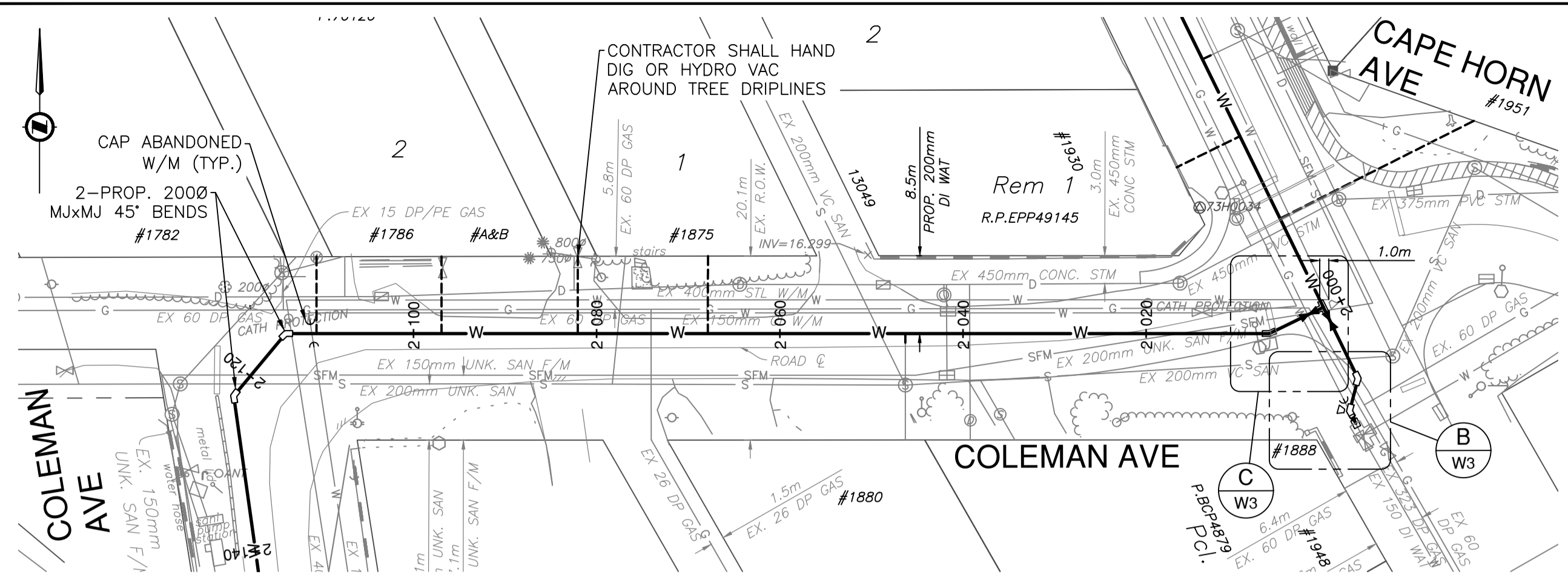
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Drawn by	KD	Date	13-DEC-2024
Checked by	PL	Date	13-DEC-2024
Approved by	AC	Date	13-DEC-2024

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Sheet of	W1 OF W7
Eng. Project No.	---

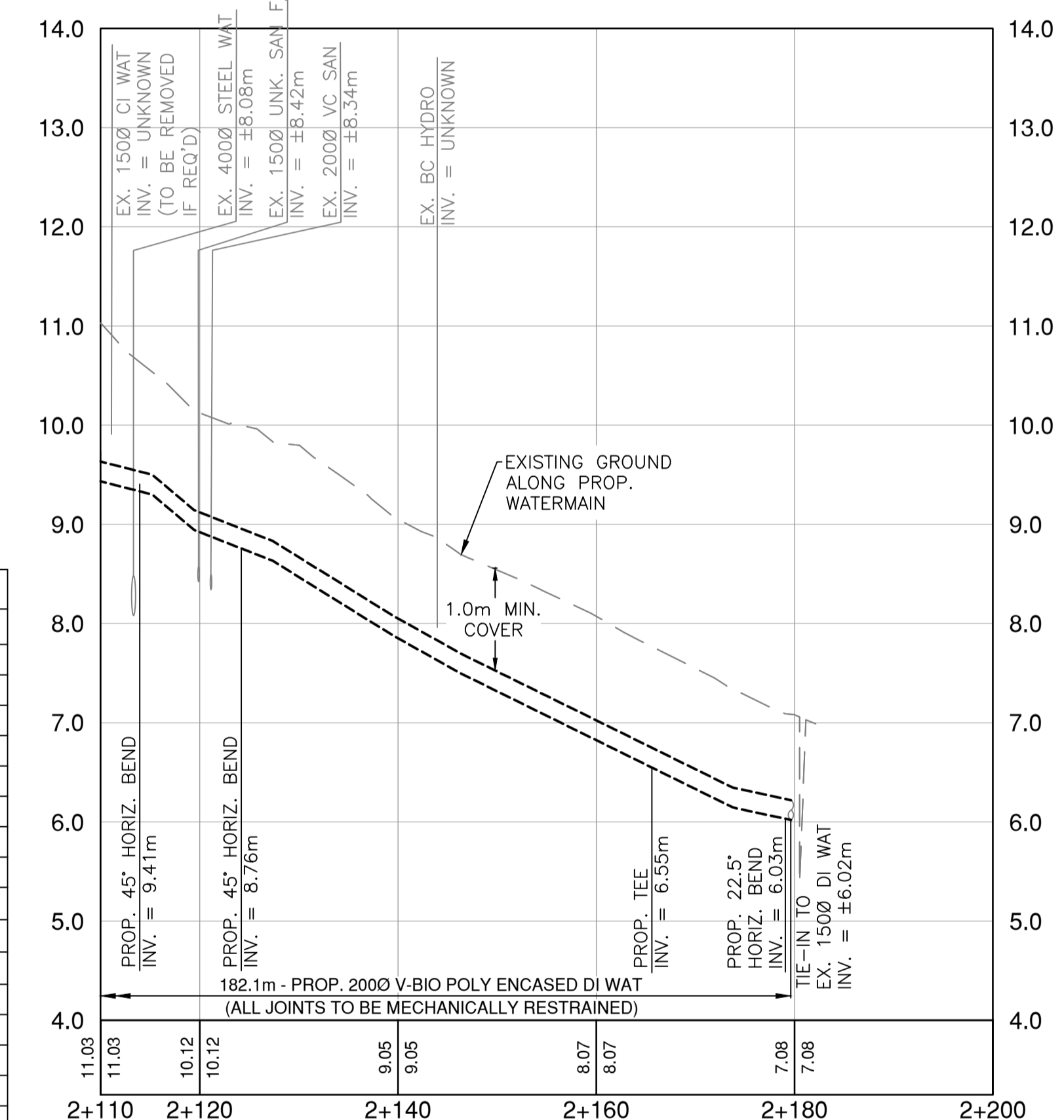
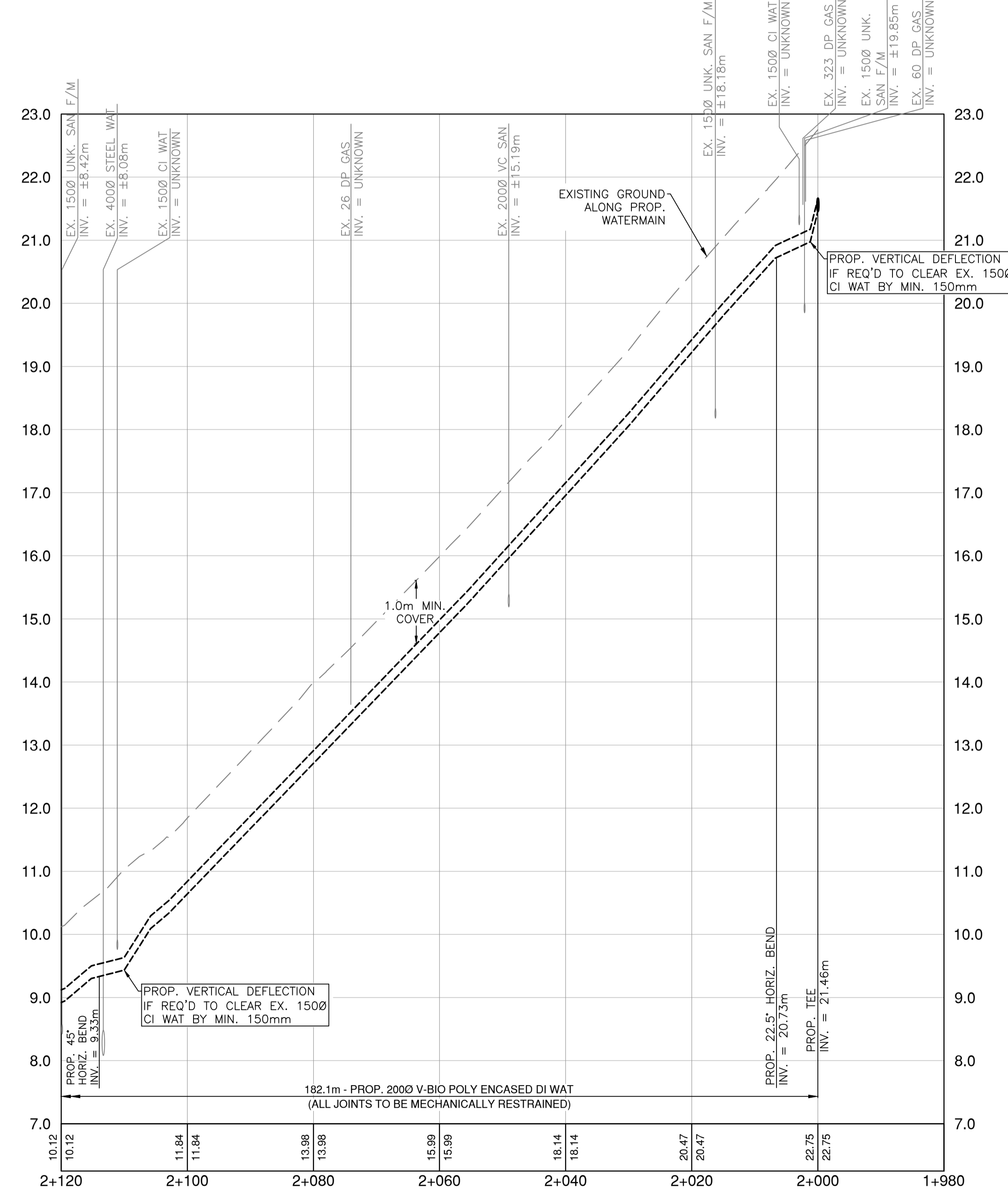
Project **BRUNETTE, COLEMAN, & ROCHESTER WATERMAIN REPLACEMENTS**

Description **BRUNETTE AVENUE (SITE #1) HILLSIDE AVE TO 20m SOUTH OF COLEMAN AVE**

File: 24Coleman01142232T1-

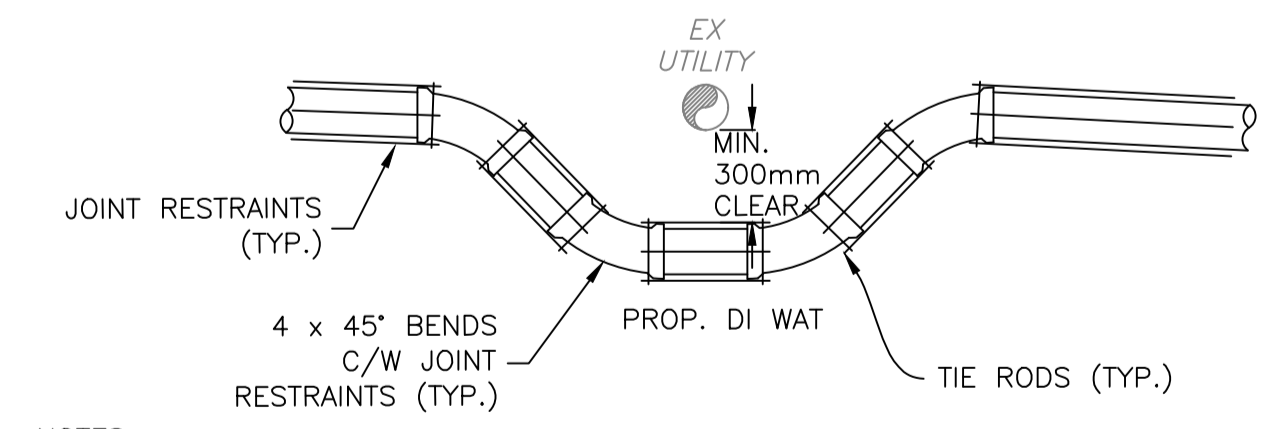


TRANS MOUNTAIN OIL PIPELINE. CONTRACTOR TO MAKE ONE CALL. TRANS MOUNTAIN TO PROVIDE INSPECTOR AT THEIR COST AND DISCRETION.



WATER SERVICE CONNECTIONS (FOR SITES #1 & #2 - BRUNETTE & COLEMAN)					
PROPERTY NO.	OFFSET	EX. SIZE (mm)	EX. MATERIAL	YEAR BUILT	INSTALLATION TYPE
1900 BRUNETTE AVE	8.7 m S OF N PL	19	CU	UNKNOWN*	REPLACE
1909 BRUNETTE AVE	11.2 m N OF S PL	19	CU	2008	TRANSFER**
1912 BRUNETTE AVE	9.4 m S OF N PL	19	CU	1965	REPLACE
1916 BRUNETTE AVE	4.7 m S OF N PL	19	CU	1965	REPLACE
1917 BRUNETTE AVE	11.9 m S OF N PL	19	CU	2008	TRANSFER**
1923 BRUNETTE AVE	0.5 m S OF N PL	19	CU	2006	TRANSFER**
1924 BRUNETTE AVE	9.5 m S OF N PL	19	CU	1965	REPLACE
1926 BRUNETTE AVE	9.2 m S OF N PL	19	CU	2014	TRANSFER**
1930 (Lot 1) BRUNETTE AVE	9.5 m S OF N PL	19	CU	1958	REPLACE
1930 (Lot 2) BRUNETTE AVE	10.0 m S OF N PL	19	CU	1958	REPLACE
1930 (Lot 3) BRUNETTE AVE	9.2 m S OF N PL	19	CU	1958	REPLACE
1931 BRUNETTE AVE***	3.3 m N OF S PL	19	CU	2003	TRANSFER**
	9.3 m N OF S PL	19	POLYETHYLENE	2013	TRANSFER**
1935 BRUNETTE AVE	9.0 m S OF N PL	19	POLYETHYLENE	2013	TRANSFER**
1939 BRUNETTE AVE	7.3 m N OF S PL	19	POLYETHYLENE	2013	TRANSFER**
1951 CAPE HORN AVE	16.3 m SE OF NW PL	19	CU	UNKNOWN*	REPLACE
1784 COLEMAN AVE	1.7 m W OF E PL	19	CU	UNKNOWN*	REPLACE
1786 COLEMAN AVE	11.9 m W OF E PL	19	CU	UNKNOWN*	REPLACE
1871 COLEMAN AVE	2.1 m W OF E PL	19	CU	UNKNOWN*	REPLACE
1875 COLEMAN AVE	11.9 m W OF E PL	19	CU	UNKNOWN*	REPLACE
1880 COLEMAN AVE	2.1 m W OF E PL	19	CU	2006	TRANSFER**
1851 LOUGHEED HWY	54.1 m S OF N PL	19	CU	UNKNOWN*	REPLACE
1963 LOUGHEED HWY	68.7 m S OF N PL	38	CU	UNKNOWN*	REPLACE

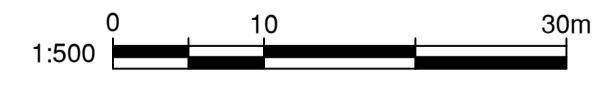
- \* ASSUMED REPLACEMENT FOR WATER SERVICE CONNECTIONS WITH UNKNOWN INSTALLATION DATES
  - \*\* TRANSFERS SHALL MATCH EXISTING MATERIAL SIZE
  - \*\*\* CONTRACTOR TO CONFIRM IF MORE THAN ONE LIVE WATER SERVICE CONNECTION EXIST AT #1931 BRUNETTE AVE
- NOTES:
- FOR SERVICES NOTED AS REPLACEMENT, REFER TO NOTE #15 ON DWG. W1.
  - FOR SERVICES NOTED AS TRANSFER, REFER TO NOTE #16 ON DWG. W1.
  - CONTRACTOR TO CONFIRM IF MORE THAN ONE LIVE WATER SERVICE CONNECTION EXIST AT #1888 COLEMAN AVE/ #1948 BRUNETTE AVE.



- NOTES:
- WATER MAINS SHALL BE DEFLECTED UNDER CROSSING UTILITIES WHERE FEASIBLE INSTEAD OF USING THIS CROSSING DETAIL. CONSULT WITH ENGINEER PRIOR TO CONSTRUCTING EACH UTILITY CROSSING.
  - ALL JOINTS WITHIN A 3m HORIZONTAL DISTANCE FROM THE SEWER SHALL BE WRAPPED WHERE CROSSING UNDER STORM OR SANITARY SEWER. WRAP WITH HEAT SHRINK PLASTIC, OR PACKED WITH COMPOUND AND WRAP WITH PETROLATUM TAPE IN ACCORDANCE WITH LATEST VERSION OF AWWA STANDARD C217-90, C214 AND C209.

TYPICAL UTILITY CROSSING DETAIL  
N.T.S.

PRE-LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION



Benchmark:  
SEE SURVEY NOTES ON SHEET W1.

Note:  
Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

Plot Date: April 11, 2025

**PARSONS**

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4	11-APR-2025	HH	ISSUED FOR TENDER
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**Coquitlam**

Engineering & Public Works  
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

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Design by: HH Date: 13-DEC-2024  
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Sheet of: W2 OF W7

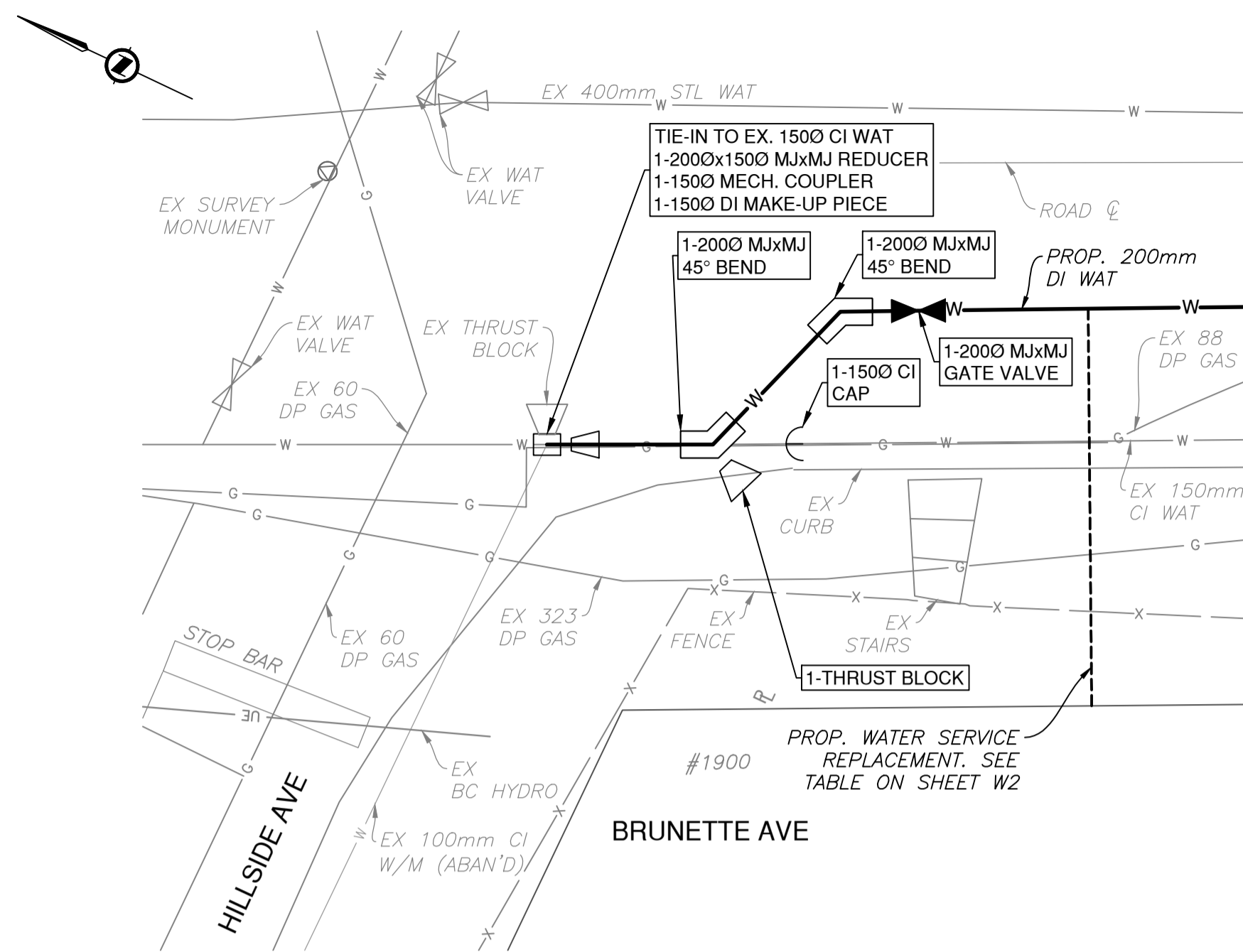
Checked by: PL Date: 13-DEC-2024  
Eng. Project No: ---

Approved by: AC Date: 13-DEC-2024

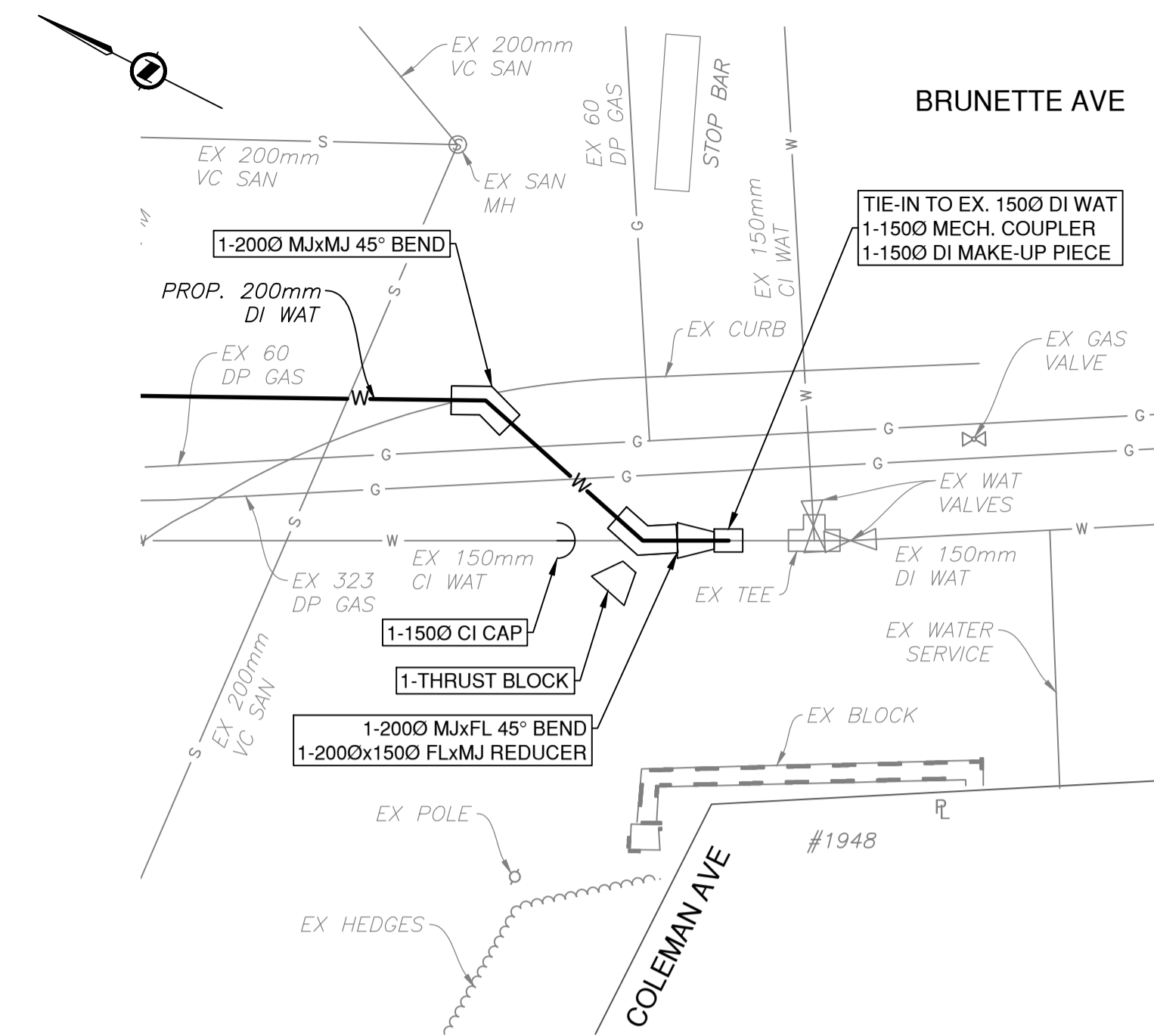
Project: BRUNETTE, COLEMAN, & ROCHESTER WATERMAIN REPLACEMENTS

Description: COLEMAN AVENUE (SITE #2) BRUNETTE AVE TO 50m NORTH OF LOUGHEED HWY

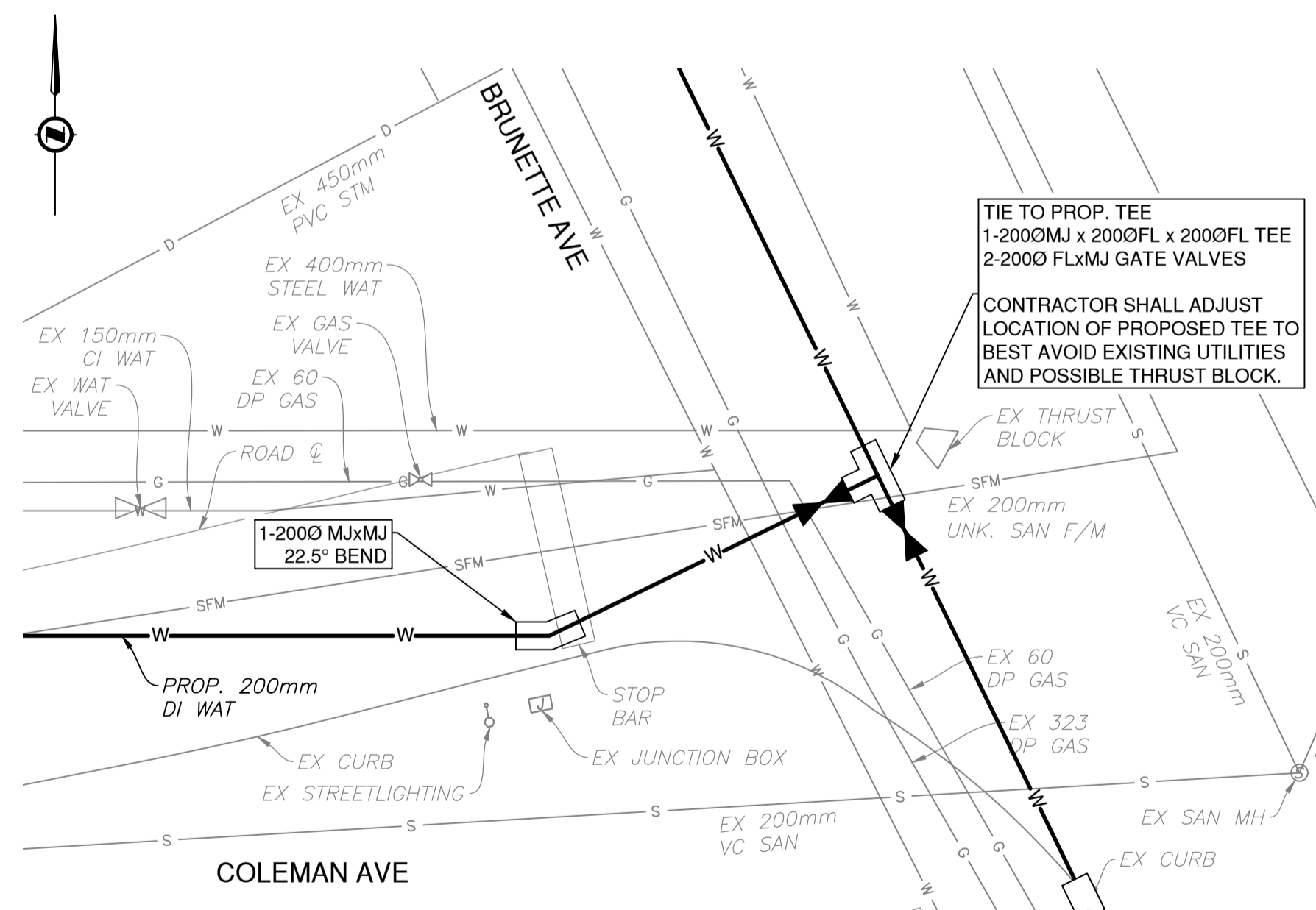
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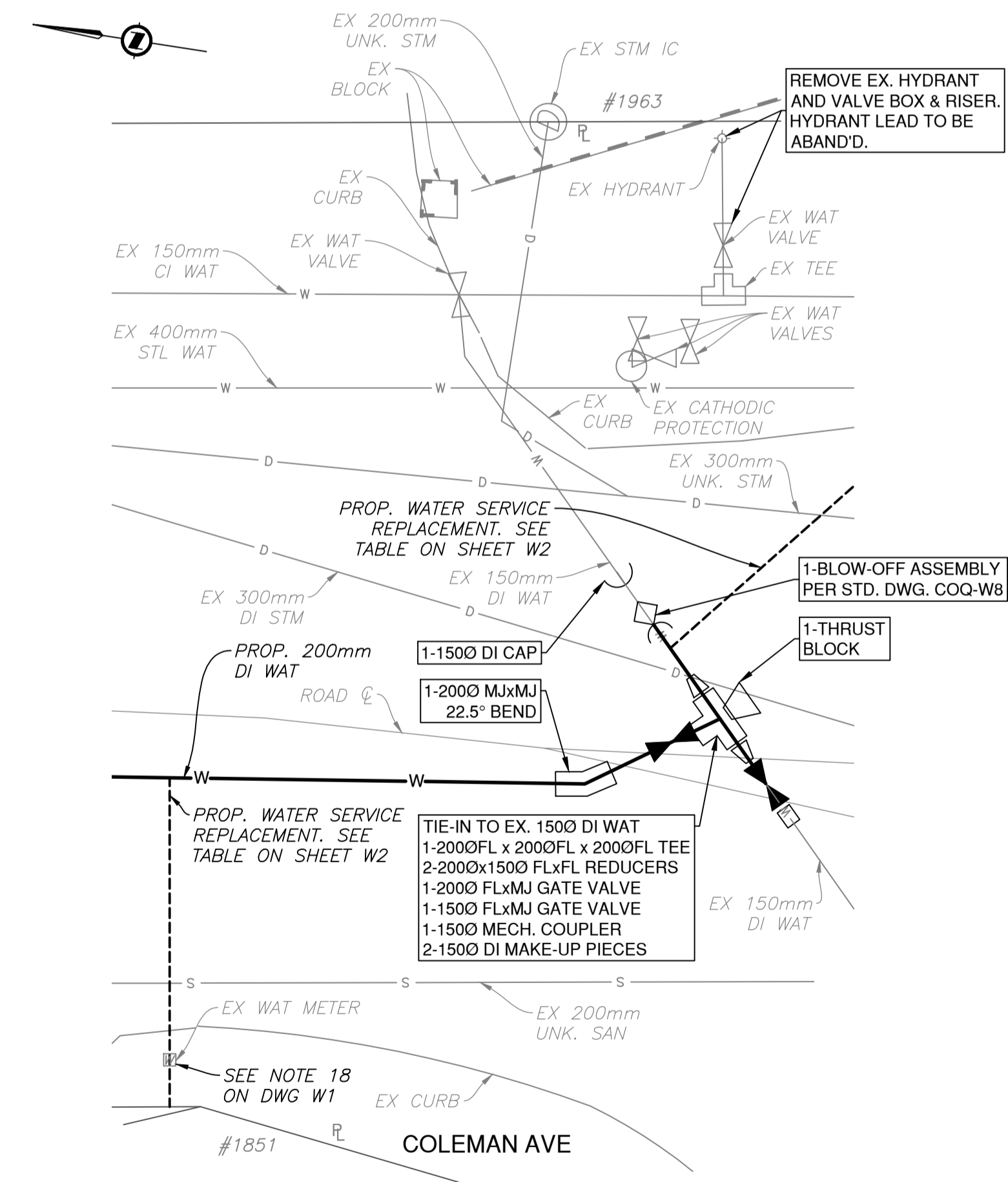
**A** DETAIL  
W1 N.T.S.



**B** DETAIL  
W1,W2 N.T.S.



**C** DETAIL  
W1,W2 N.T.S.



**D** DETAIL  
W2 N.T.S.

PRE-LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

Benchmark:  
SEE SURVEY NOTES ON SHEET W1.



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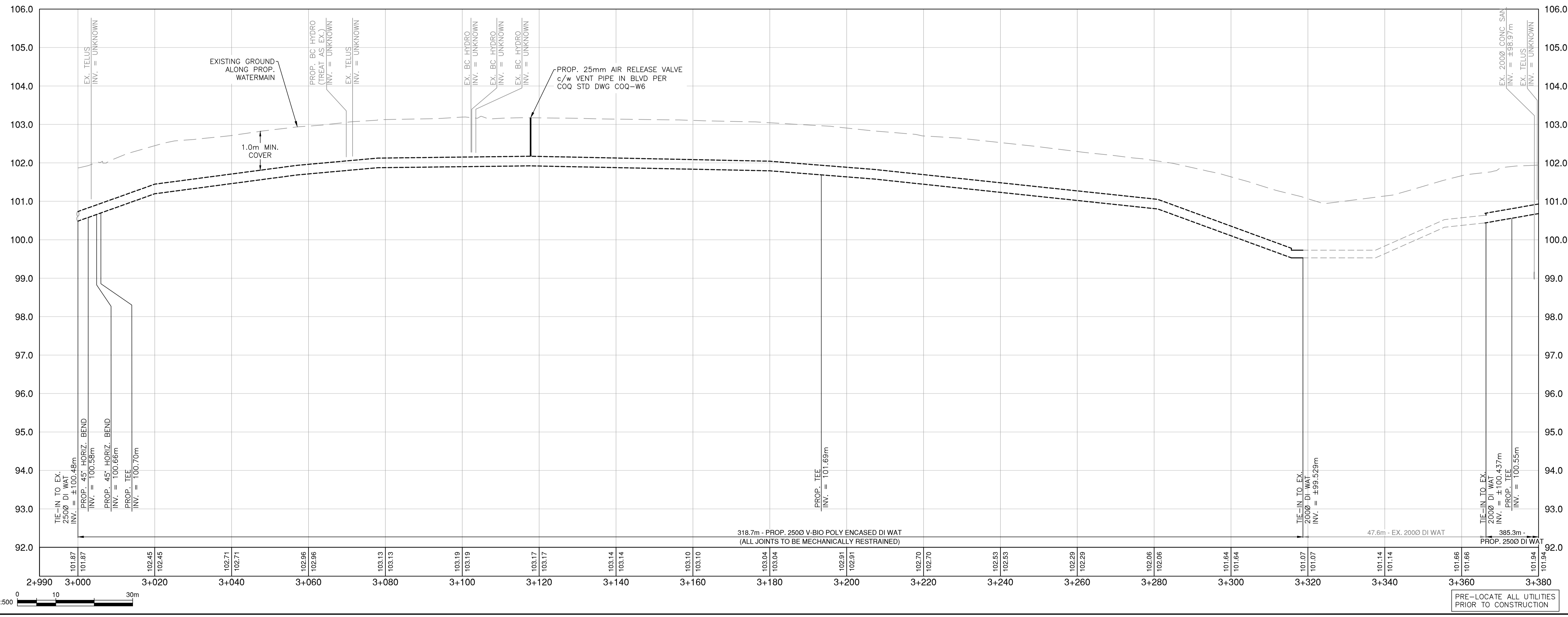
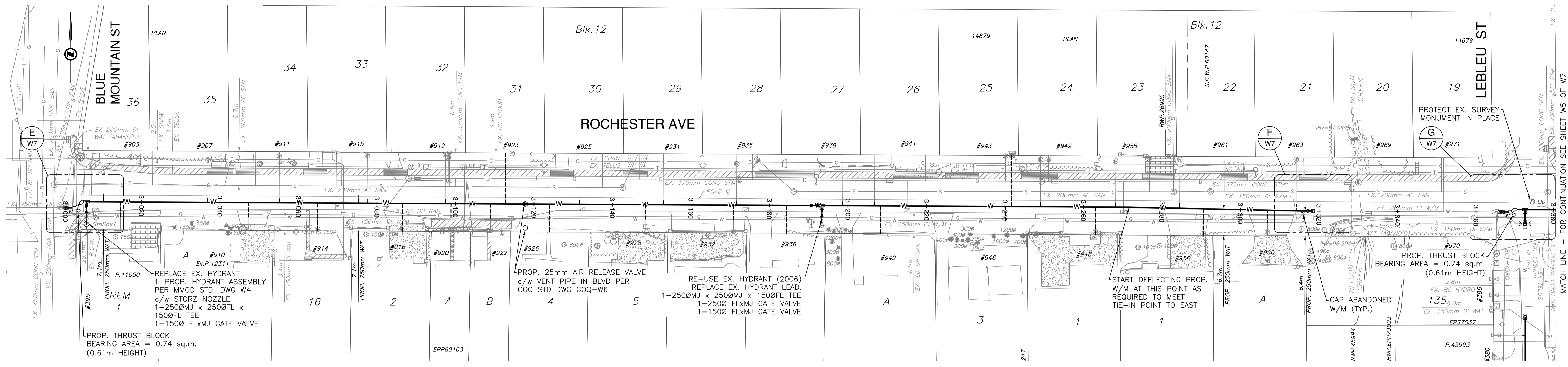
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KD	13-DEC-2024	W3 OF W7
Checked by	Date	Eng. Project No.
PL	13-DEC-2024	---
Approved by	Date	
AC	13-DEC-2024	

Project **BRUNETTE, COLEMAN, & ROCHESTER WATERMAIN REPLACEMENTS**

Description **BRUNETTE AVE (SITE #1) & COLEMAN AVE (SITE #2) - DETAILS**

File: 24Coleman01142232T1-



PRE-LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

Benchmark:  
SEE SURVEY NOTES ON SHEET W6.

Note:  
Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

Plot Date: April 11, 2025

**PARSONS**

METROTOWER I, SUITE 2200, 4710 KINGSWAY  
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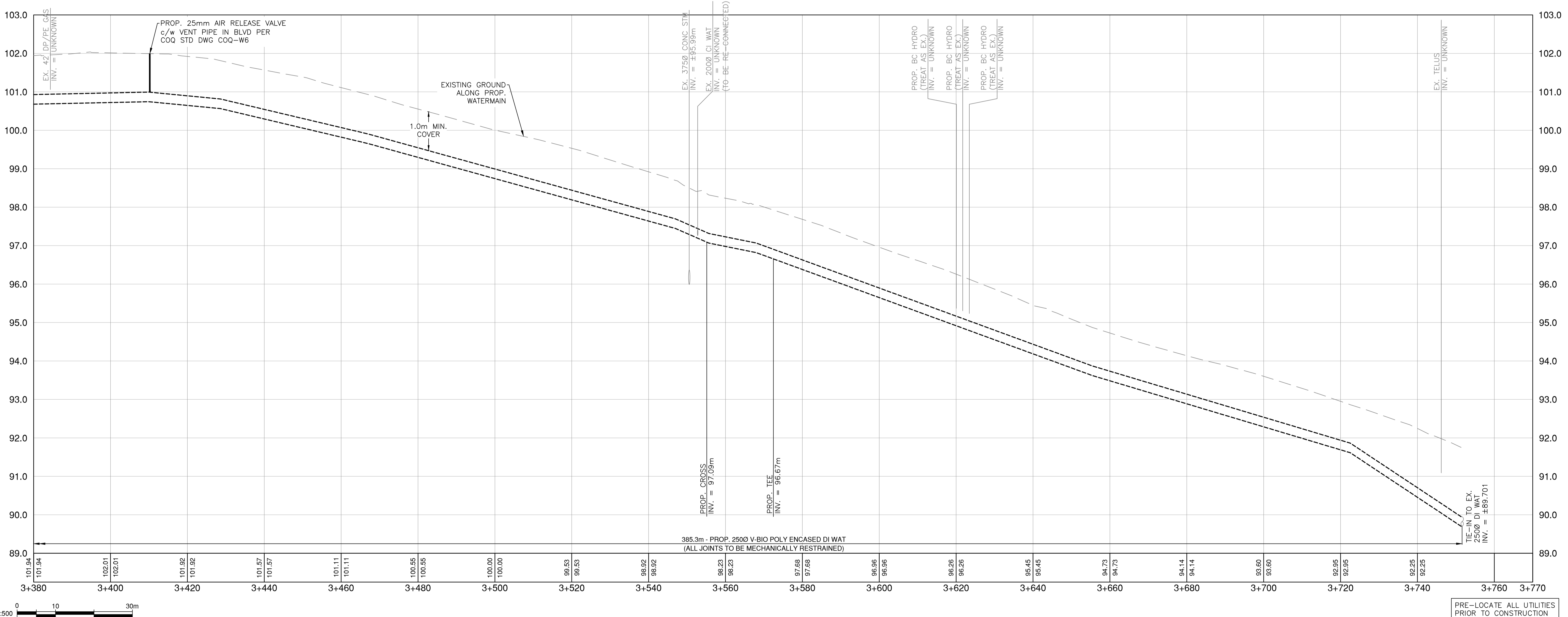
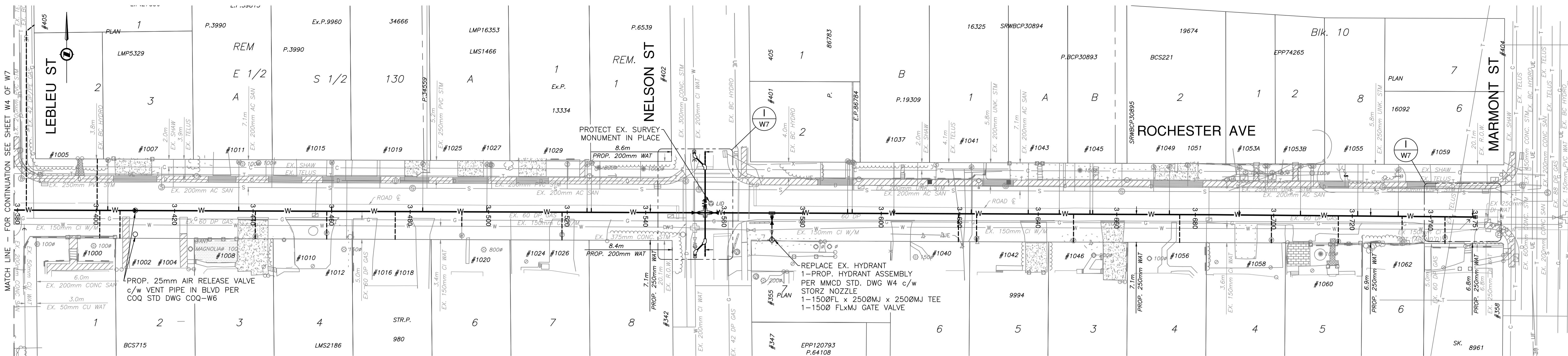
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Drawn by KD	Date 13-DEC-2024	Sheet of W4 OF W7
Checked by PL	Date 13-DEC-2024	Eng. Project No. -
Approved by AC	Date 13-DEC-2024	

Project  
**BRUNETTE, COLEMAN, & ROCHESTER WATERMAIN REPLACEMENTS**

Description  
**ROCHESTER AVENUE (SITE #3) BLUE MOUNTAIN ST TO LEBLEU ST - PLAN & PROFILE**

File: 24Rochester062437411



PRE-LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

Benchmark:  
SEE SURVEY NOTES ON SHEET W6.

Note:  
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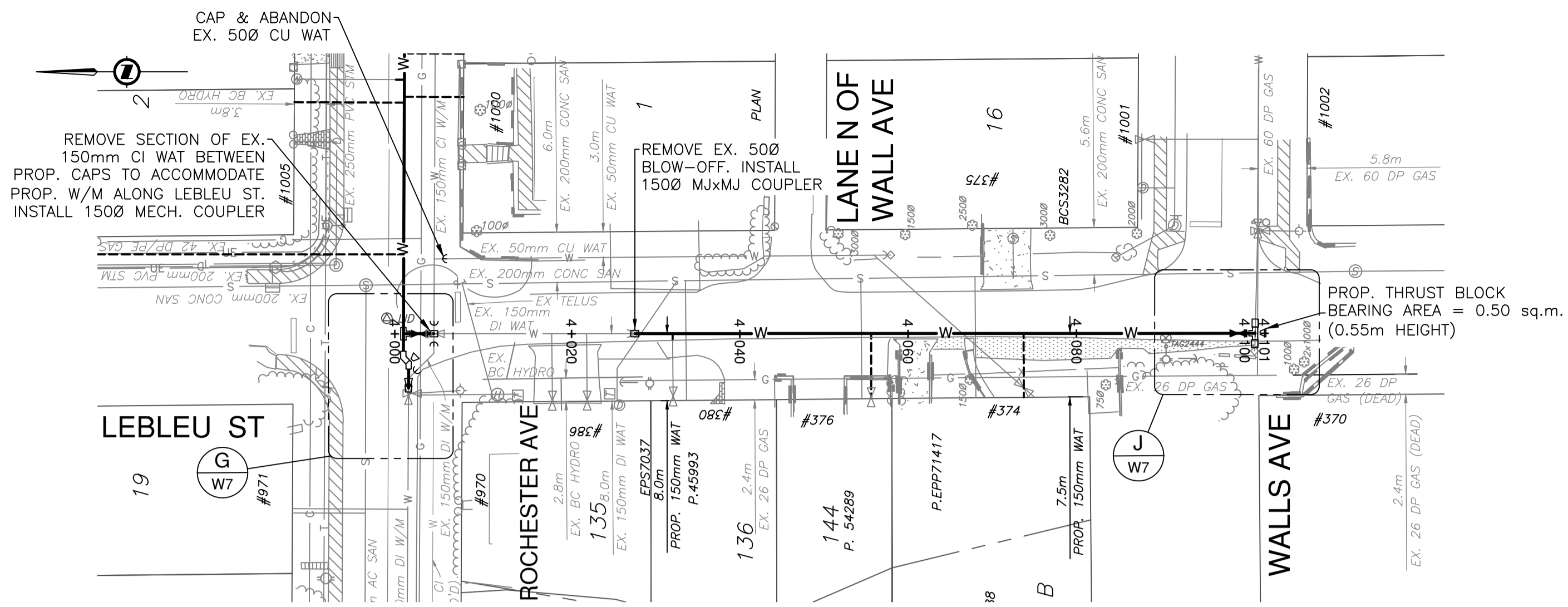
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KD	13-DEC-2024	W5 OF W7
Checked by <td>Date <td>Eng. Project No.</td> </td>	Date <td>Eng. Project No.</td>	Eng. Project No.
PL	13-DEC-2024	-
Approved by <td>Date <td></td> </td>	Date <td></td>	
AC	13-DEC-2024	

Project: BRUNETTE, COLEMAN, & ROCHESTER WATERMAIN REPLACEMENTS

Description: ROCHESTER AVENUE (SITE #3) LEBLEU ST TO MARMONT ST - PLAN & PROFILE

File: 24Rochester06243734T1



WATER SERVICE CONNECTIONS (FOR SITE #3 - ROCHESTER)						
PROPERTY NO.	OFFSET	EX. SIZE (mm)	EX. MATERIAL	YEAR BUILT	INSTALLATION TYPE	
395 BLUE MOUNTAIN ST	10.1 m E OF W PL	19	CU	2007	TRANSFER**	
907 ROCHESTER AVE	5.3 m W OF E PL	19	CU	2006	TRANSFER**	
910 ROCHESTER AVE	6.2 m W OF E PL	19	CU	2005	TRANSFER**	
911 ROCHESTER AVE	7.3 m W OF E PL	19	CU	2006	TRANSFER**	
914 ROCHESTER AVE	8.8 m W OF E PL	19	CU	UNKNOWN*	REPLACE	
915 ROCHESTER AVE	5.0 m W OF E PL	19	CU	2006	TRANSFER**	
916 ROCHESTER AVE	7.3 m W OF E PL	19	CU	1994	REPLACE	
919 ROCHESTER AVE	5.2 m W OF E PL	19	CU	2006	TRANSFER**	
920 ROCHESTER AVE	5.0 m E OF W PL	19	CU	2018	TRANSFER**	
922 ROCHESTER AVE	5.0 m E OF W PL	19	CU	2018	TRANSFER**	
923 ROCHESTER AVE	10.1 m E OF W PL	--	--	--	NEW*****	
925 ROCHESTER AVE	9.0 m E OF W PL	19	CU	2006	TRANSFER**	
926 ROCHESTER AVE	9.9 m E OF W PL	19	CU	UNKNOWN*	REPLACE	
928 ROCHESTER AVE	5.8 m W OF E PL	19	CU	2000	TRANSFER**	
931 ROCHESTER AVE	10.0 m W OF E PL	19	CU	2006	TRANSFER**	
932 ROCHESTER AVE	3.4 m E OF W PL	19	CU	2003	TRANSFER**	
935 ROCHESTER AVE	8.7 m E OF W PL	19	CU	2006	TRANSFER**	
936 ROCHESTER AVE	10.1 m E OF W PL	--	--	--	NEW*****	
939 ROCHESTER AVE	4.5 m W OF E PL	19	CU	2006	TRANSFER**	
941 ROCHESTER AVE	3.6 m E OF W PL	19	CU	2006	TRANSFER**	
942 ROCHESTER AVE	13.9 m W OF E PL	19	CU	UNKNOWN*	REPLACE	
943 ROCHESTER AVE	1.7 m W OF E PL	19	CU	UNKNOWN*	REPLACE	
946 ROCHESTER AVE	5.6 m W OF E PL	19	CU	2009	TRANSFER**	
948 ROCHESTER AVE	6.2 m W OF E PL	19	CU	UNKNOWN*	REPLACE	
949 ROCHESTER AVE	5.7 m E OF W PL	19	CU	2006	TRANSFER**	
955 ROCHESTER AVE	4.7 m E OF W PL	19	CU	2006	TRANSFER**	
956 ROCHESTER AVE	2.4 m W OF E PL	19	CU	1995	REPLACE	
960 ROCHESTER AVE	9.7 m W OF E PL	19	CU	1998	TRANSFER**	
961 ROCHESTER AVE	0.9 m W OF E PL	19	CU	2006	TRANSFER**	
963 ROCHESTER AVE	9.7 m W OF E PL	19	CU	2006	TRANSFER**	
374 LEBLEU ST	10.6 m S OF N PL	19	CU	2003	REPLACE	
376 LEBLEU ST	2.6 m N OF S PL	19	CU	1978	REPLACE	
380 LEBLEU ST	2.4 m S OF N PL	19	CU	2019	TRANSFER**	
405 LEBLEU ST	2.0 m N OF S PL	19	CU	1992	REPLACE	
1000 ROCHESTER AVE	3.9 m W OF E PL	19	CU	1992	REPLACE	
1002/1004 ROCHESTER AVE	1.2 m E OF W PL	19	CU	1992	REPLACE	
1005 ROCHESTER AVE	1.6 m W OF E PL	19	CU	1992	REPLACE	
1007 ROCHESTER AVE	1.1 m E OF W PL	19	CU	2006	TRANSFER**	
1008 ROCHESTER AVE	4.6 m W OF E PL	19	CU	1992	REPLACE	
1011 ROCHESTER AVE	8.5 m W OF E PL	19	CU	2006	TRANSFER**	
1010/1012 ROCHESTER AVE	6.5 m W OF E PL	19	CU	1995	REPLACE	
1015 ROCHESTER AVE	5.0 m W OF E PL	19	CU	2006	TRANSFER**	
1016/1018 ROCHESTER AVE	9.1 m W OF E PL	19	CU	1977	REPLACE	
1019 ROCHESTER AVE	1.9 m W OF E PL	19	CU	2006	TRANSFER**	
1020 ROCHESTER AVE	7.8 m E OF W PL	19	CU	2006	TRANSFER**	
1024/1026 ROCHESTER AVE	6.8 m W OF E PL	19	CU	1982	REPLACE	
1025/1027 ROCHESTER AVE	5.8 m W OF E PL	19	CU	2003	TRANSFER**	
1029 ROCHESTER AVE	0.9 m W OF E PL	19	CU	2006	TRANSFER**	
401 NELSON ST	3.2 m W OF E PL	19	CU	2002	TRANSFER**	
400/402 NELSON ST	0.2 m E OF W PL	19	CU	2006	TRANSFER**	
405 NELSON ST	2.0 m W OF E PL	19	CU	2020	TRANSFER**	
1037 ROCHESTER AVE	8.6 m E OF W PL	19	CU	2006	TRANSFER**	
1040 ROCHESTER AVE	2.9 m W OF E PL	19	CU	1962	REPLACE	
1041 ROCHESTER AVE	9.4 m W OF E PL	19	CU	2006	TRANSFER**	
1042 ROCHESTER AVE	1.7 m E OF W PL	19	CU	UNKNOWN*	REPLACE	
1043 ROCHESTER AVE***	5.1 m E OF W PL	19	CU	2007	TRANSFER**	
	2.1 m W OF E PL	19	CU	2008	TRANSFER**	
1045 ROCHESTER AVE****	5.7 m E OF W PL	19	CU	2007	TRANSFER**	
	6.4 m E OF W PL	19	CU	2008	TRANSFER**	
1046 ROCHESTER AVE	6.3 m E OF W PL	19	CU	UNKNOWN*	REPLACE	
1049/1051 ROCHESTER AVE	10.8 m E OF W PL	19	CU	2006	TRANSFER**	
1053A ROCHESTER AVE	3.5 m E OF W PL	19	CU	2006	TRANSFER**	
1053B ROCHESTER AVE	6.1 m W OF E PL	19	CU	2017	TRANSFER**	
1055 ROCHESTER AVE	6.7 m W OF E PL	19	CU	2006	TRANSFER**	
1056 ROCHESTER AVE	3.6 m E OF W PL	19	CU	1993	REPLACE	
1058 ROCHESTER AVE	6.1 m W OF E PL	19	CU	UNKNOWN*	REPLACE	
1059 ROCHESTER AVE	3.6 m E OF W PL	19	CU	2006	TRANSFER**	
1060 ROCHESTER AVE	6.1 m W OF E PL	19	CU	UNKNOWN*	REPLACE	
1062 ROCHESTER AVE	5.7 m W OF E PL	19	CU	2014	TRANSFER**	
358 MARMONT ST****	5.2 m E OF W PL	19	UNKNOWN*	UNKNOWN*	REPLACE	

\* ASSUMED REPLACEMENT FOR WATER SERVICE CONNECTIONS WITH UNKNOWN INSTALLATION DATES  
 \*\* TRANSFERS SHALL MATCH EXISTING MATERIAL SIZE  
 \*\*\* CONTRACTOR TO CONFIRM IF MORE THAN ONE LIVE WATER SERVICE CONNECTION EXIST AT #1043 ROCHESTER AVE  
 \*\*\*\* CONTRACTOR TO CONFIRM IF MORE THAN ONE LIVE WATER SERVICE CONNECTION EXIST AT #1045 ROCHESTER AVE  
 \*\*\*\*\* CONTRACTOR TO CONFIRM WHICH ONE OF TWO WATER SERVICES IS LIVE AT THIS PROPERTY  
 \*\*\*\*\* NO EXISTING WATER SERVICE CONNECTION. PROVIDE NEW WATER SERVICE CONNECTION; ASSUME AS REPLACEMENT WORK

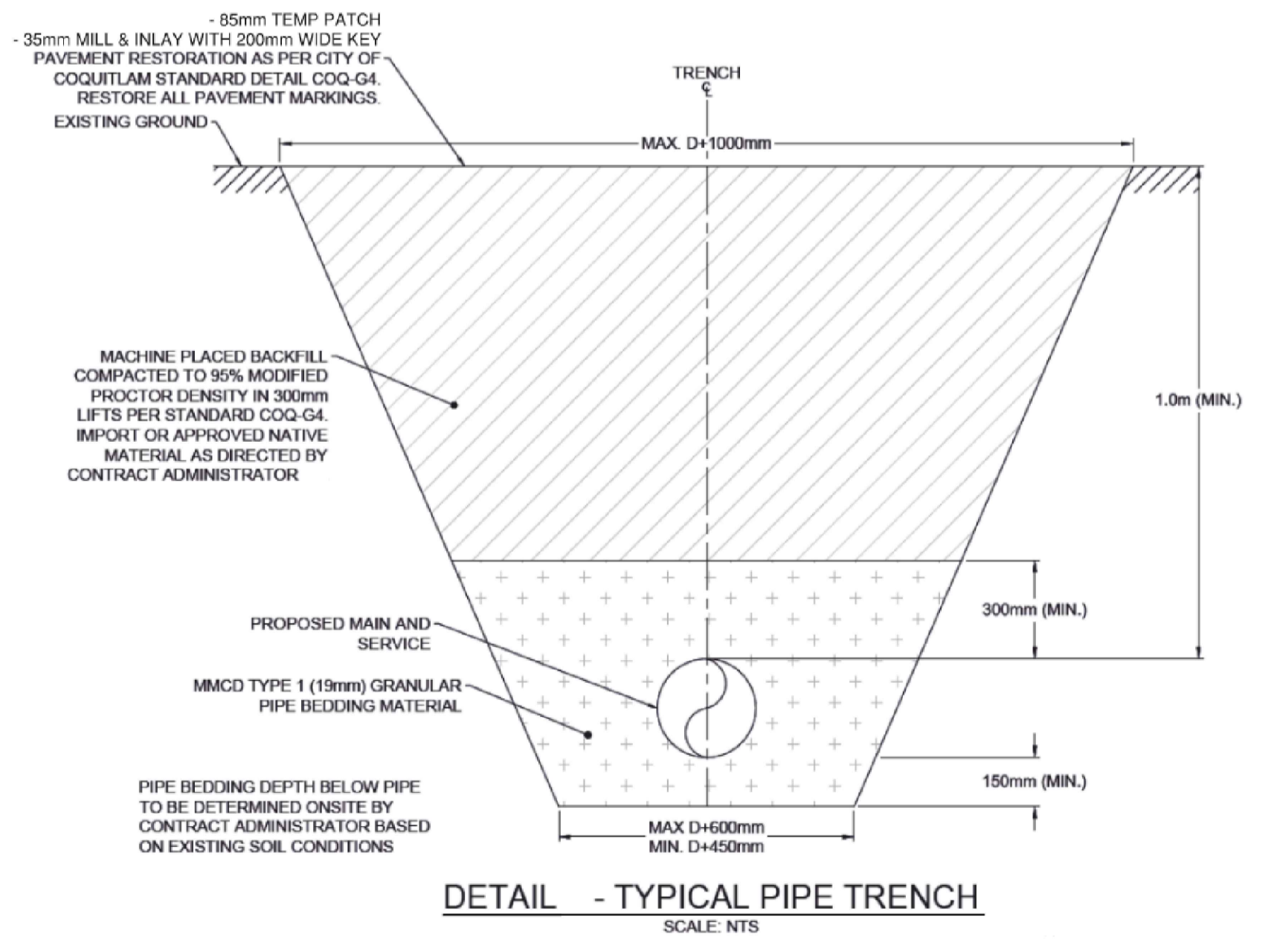
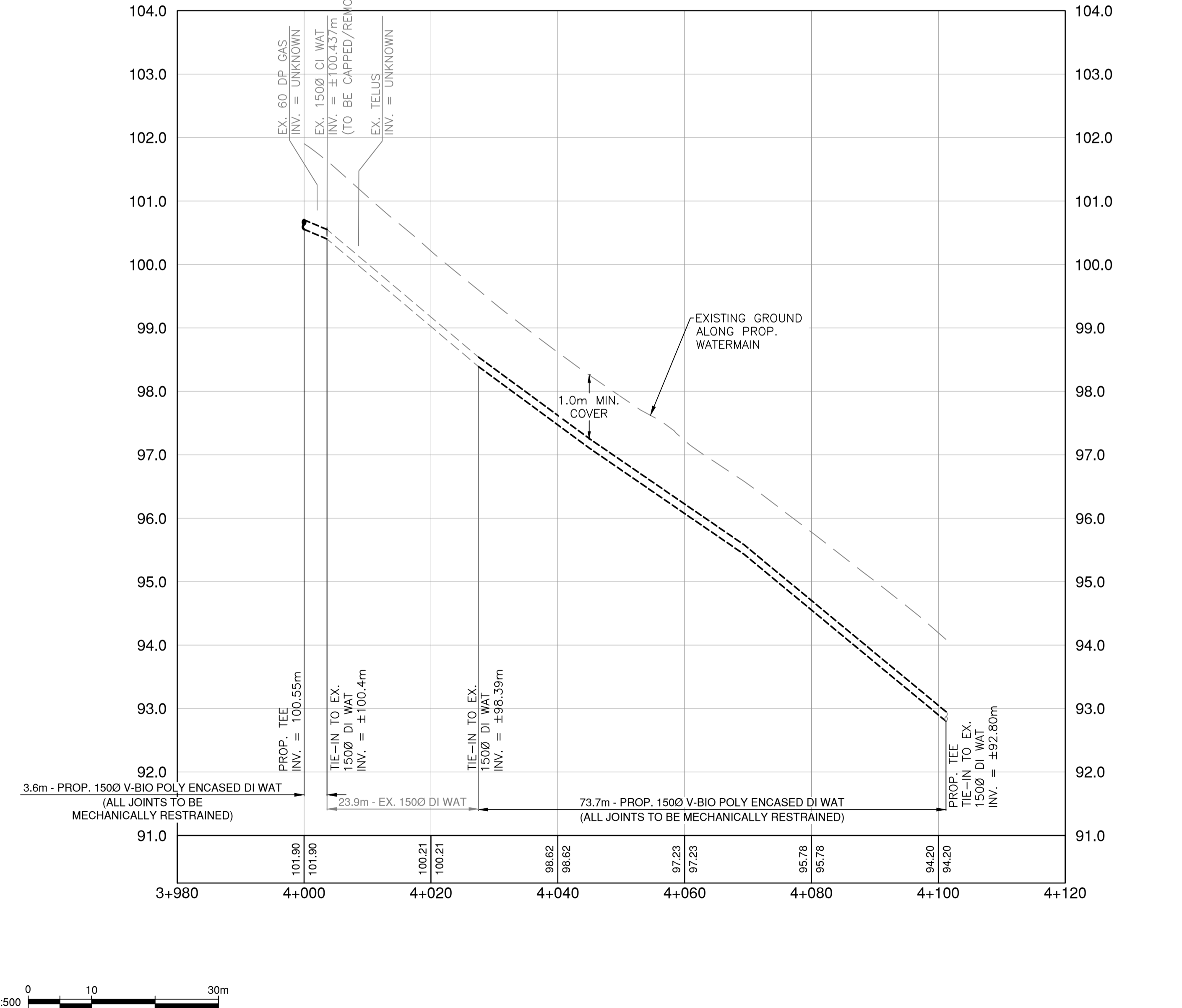
NOTES:  
 1. FOR SERVICES NOTED AS REPLACEMENT, REFER TO NOTE #15 ON DWG. W1.  
 2. FOR SERVICES NOTED AS TRANSFER, REFER TO NOTE #16 ON DWG. W1.

**SURVEY NOTES (FOR SITE #3 - ROCHESTER):**

1. GEODETIC ELEVATIONS ARE DERIVED FROM GPS OBSERVATION AT STNSPK1 LOCATED AT SOUTHEAST INTERSECTION OF BLUE MOUNTAIN STREET AND ROCHESTER AVENUE NEAR THE HYDRANT, ELEVATION=101.982m, DATUM IS [CGVD28 (GVRD 2018)].
2. THIS PLAN SHOWS HORIZONTAL GROUND LEVEL MEASURED DISTANCES. PRIOR TO COMPUTATION OF NAD83 UTM COORDINATES MULTIPLY BY THE COMBINED FACTOR 0.9995887. DATE OF SURVEY COMPLETION IS JUNE 10, 2024.
3. BASEMAP WAS IMPORTED FROM CITY OF COQUITLAM GIS COORDINATE GEOMETRY. ACCURACY IS ESTIMATED AT ±0.1m.

**SURVEY NOTES (FOR SITE #3 - LEBLEU):**

1. GEODETIC ELEVATIONS ARE DERIVED FROM GPS OBSERVATION AT TAG2444 LOCATED AT INTERSECTION OF LEBLEU STREET AND WALLS AVENUE, ELEVATION=94.976m, DATUM IS [CGVD28 (GVRD 2018)].
2. THIS PLAN SHOWS HORIZONTAL GROUND LEVEL MEASURED DISTANCES. PRIOR TO COMPUTATION OF NAD83 U.T.M. COORDINATES MULTIPLY BY THE COMBINED FACTOR 0.9995887. DATE OF SURVEY COMPLETION IS DECEMBER 16, 2024.
3. BASEMAP WAS IMPORTED FROM CITY OF COQUITLAM GIS COORDINATE GEOMETRY. ACCURACY IS ESTIMATED AT ±0.1m.



PRE-LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

Benchmark:  
SEE SURVEY NOTES ON THIS SHEET.

Note:  
Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

Plot Date: April 11, 2025

**PARSONS**

METRO TOWER 1, SUITE 2200, 4710 KINGSWAY  
 BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2  
 TEL: 604-438-5300 FAX: 604-438-5350  
 www.parsons.com  
 EGBC PERMIT TO PRACTICE: 10022020

No.	Date	By	Revisions
4	11-APR-2025	HH	ISSUED FOR TENDER
3	04-APR-2025	HH	100% DESIGN REVIEW
2	24-FEB-2025	HH	90% DESIGN REVIEW
1	20-DEC-2024	HH	PRELIMINARY DESIGN REVIEW

**Coquitlam**

Engineering & Public Works

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

**PERMIT TO PRACTICE**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

PERMIT NUMBER: \_\_\_\_\_

The Association of Professional Engineers and Geoscientists of British Columbia

Seal:

Design by: \_\_\_\_\_ Date: 13-DEC-2024

Scale: HORIZ. 1:500, VERT. 1:50

Drawn by: \_\_\_\_\_ Date: 13-DEC-2024

Sheet of: W6 OF W7

Checked by: \_\_\_\_\_ Date: 13-DEC-2024

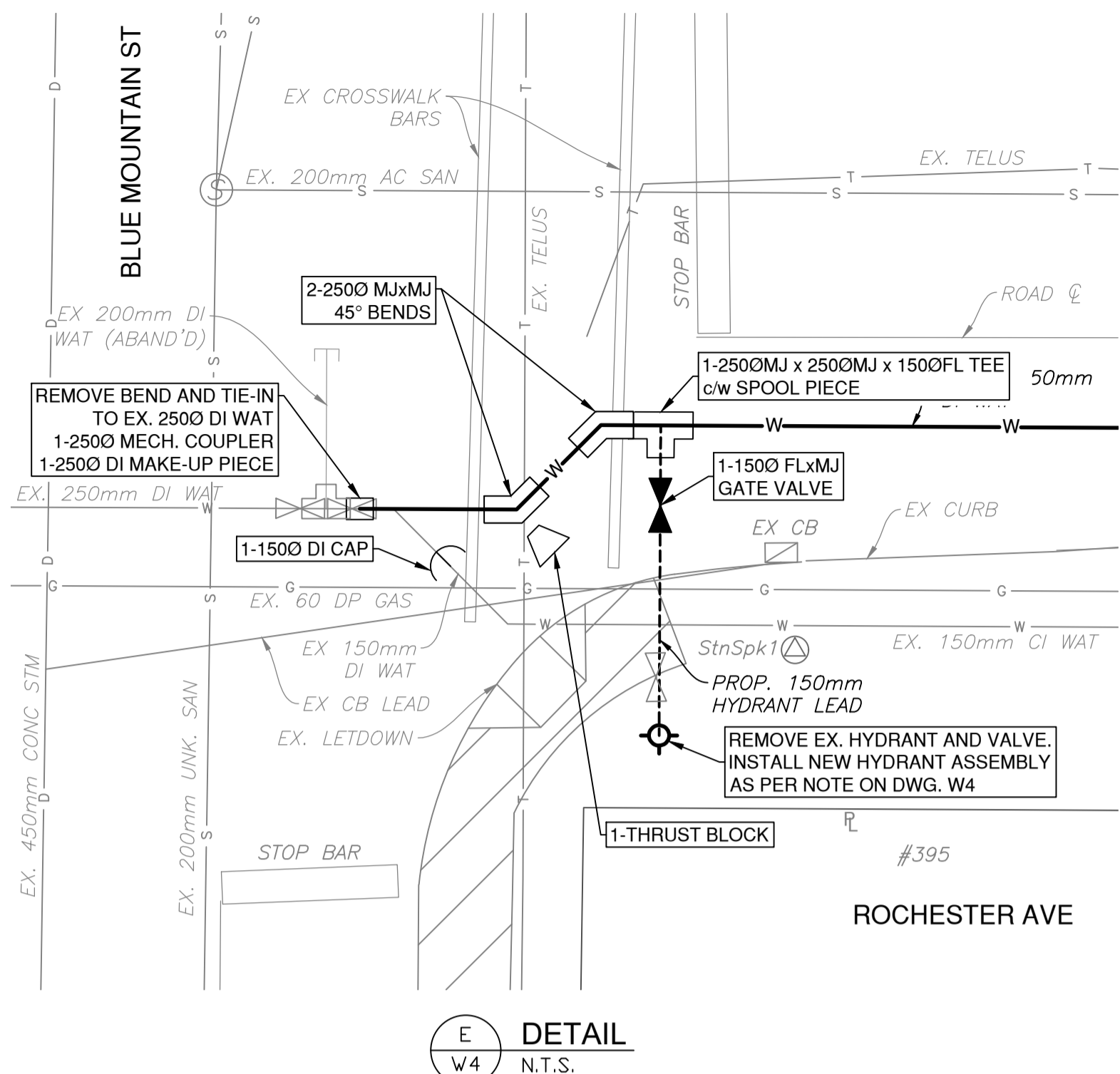
Eng. Project No: \_\_\_\_\_

Approved by: \_\_\_\_\_ Date: 13-DEC-2024

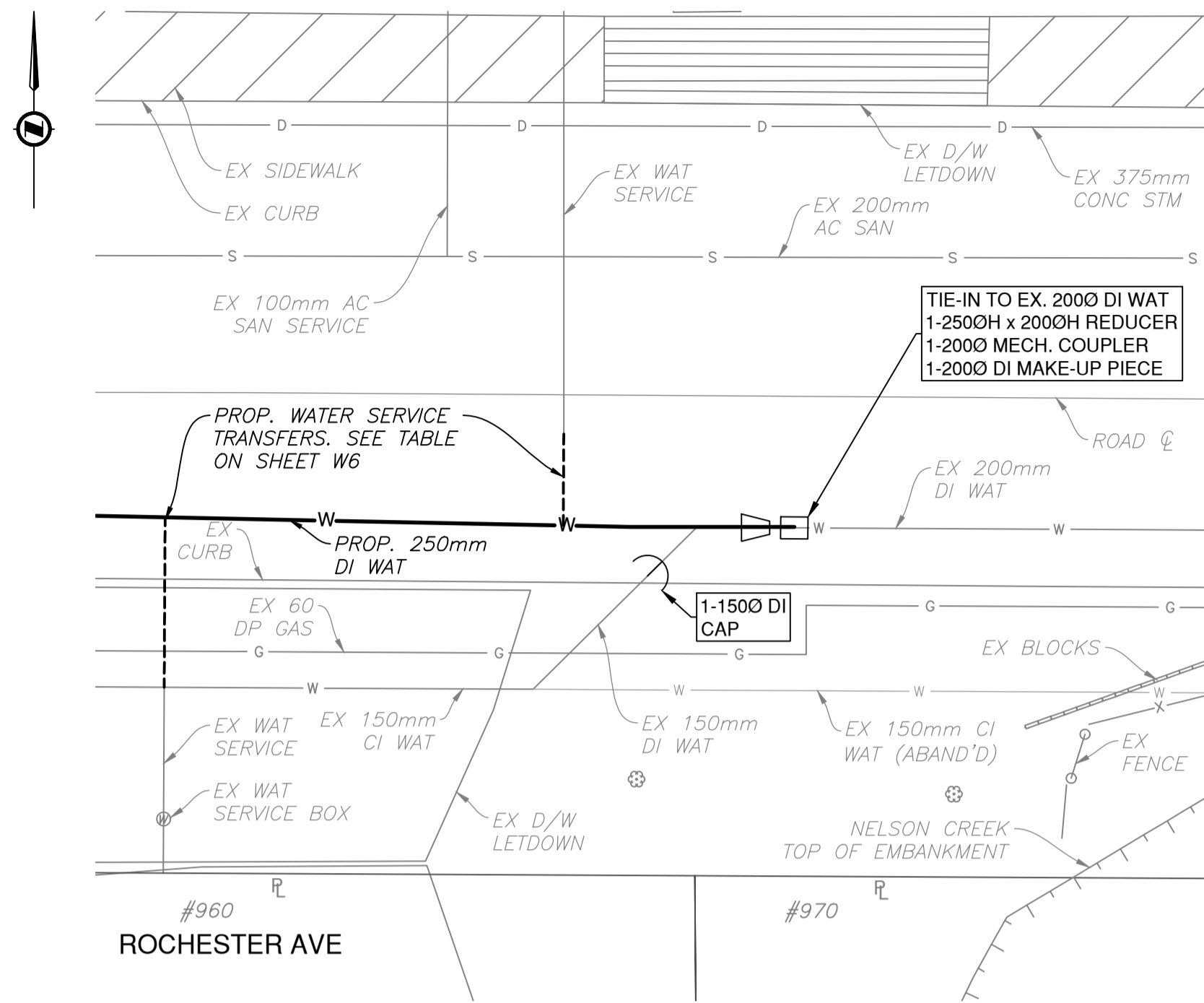
Project: **BRUNETTE, COLEMAN, & ROCHESTER WATERMAIN REPLACEMENTS**

Description: **LEBLEU STREET (SITE #3) ROCHESTER AVE TO WALLS AVE - PLAN & PROFILE**

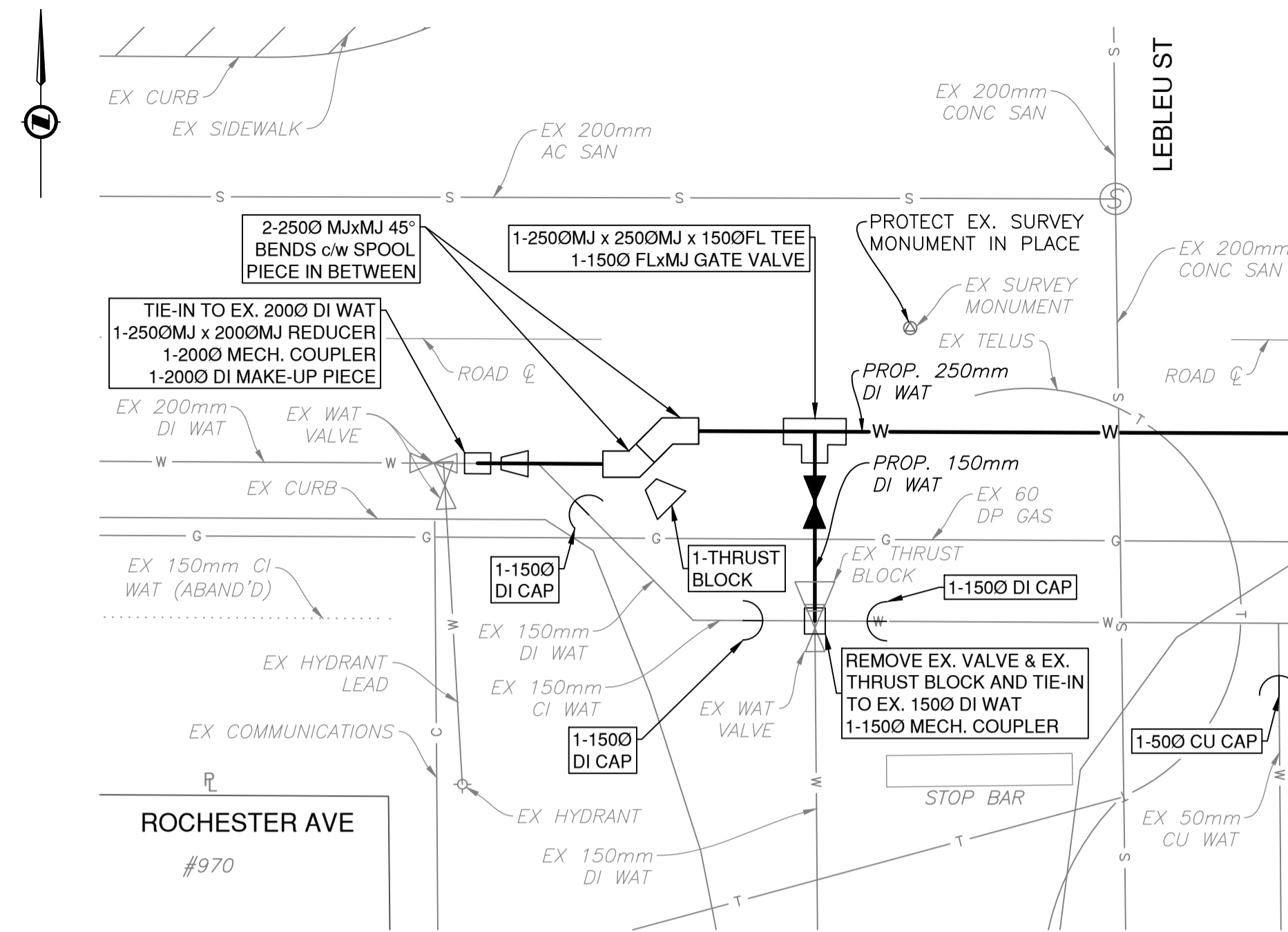
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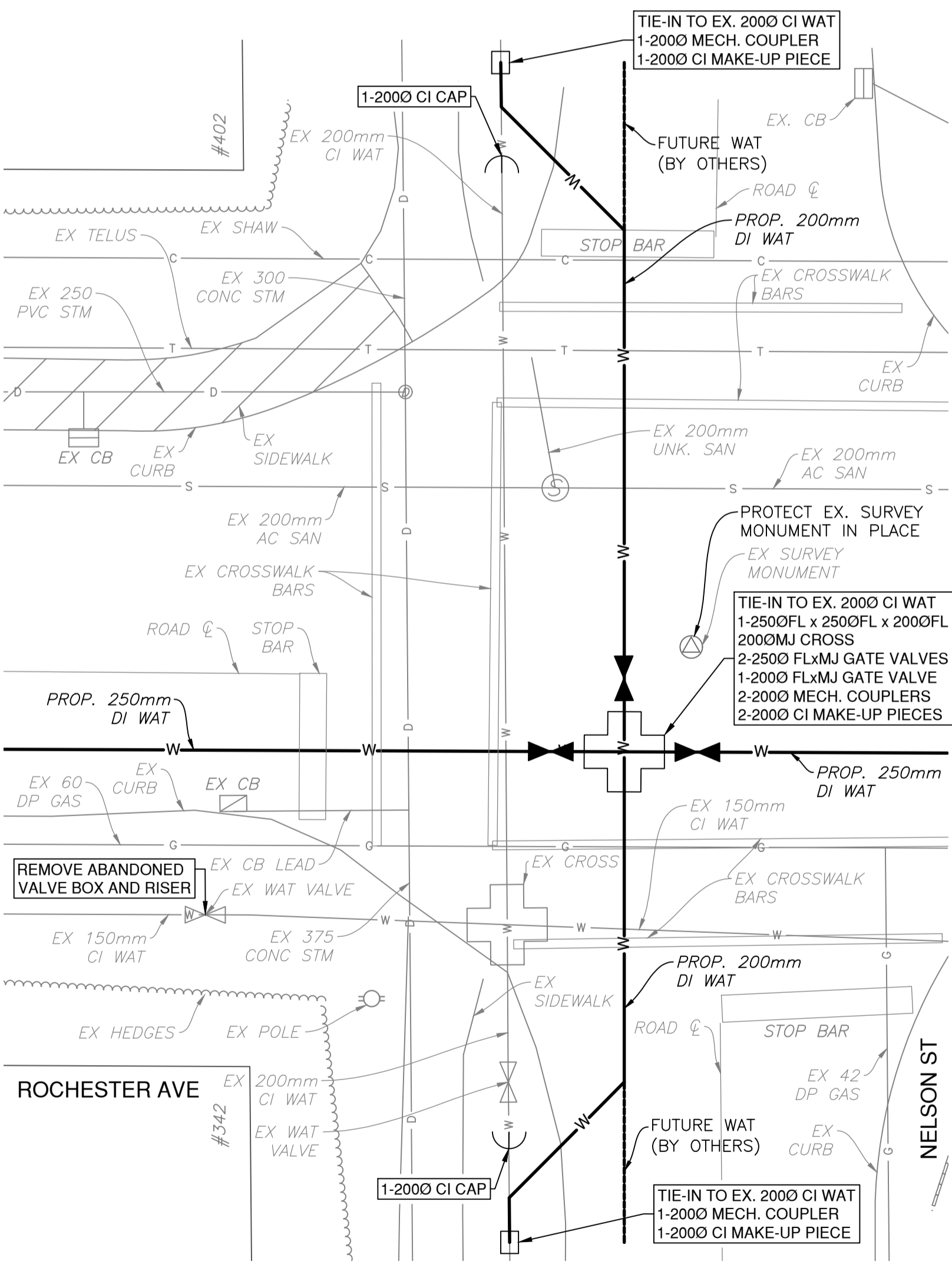
**E** DETAIL  
W4 N.T.S.



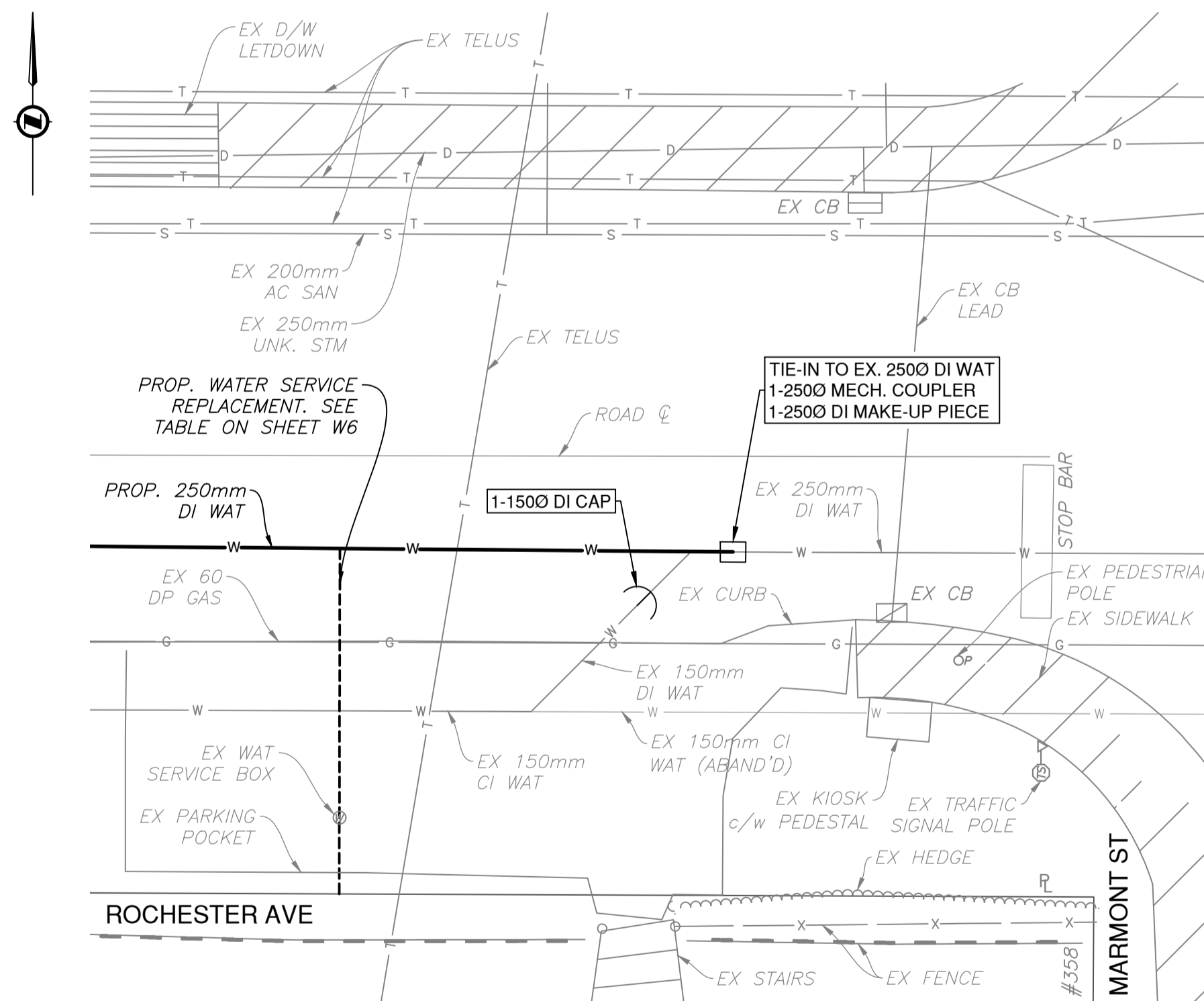
**F** DETAIL  
W4 N.T.S.



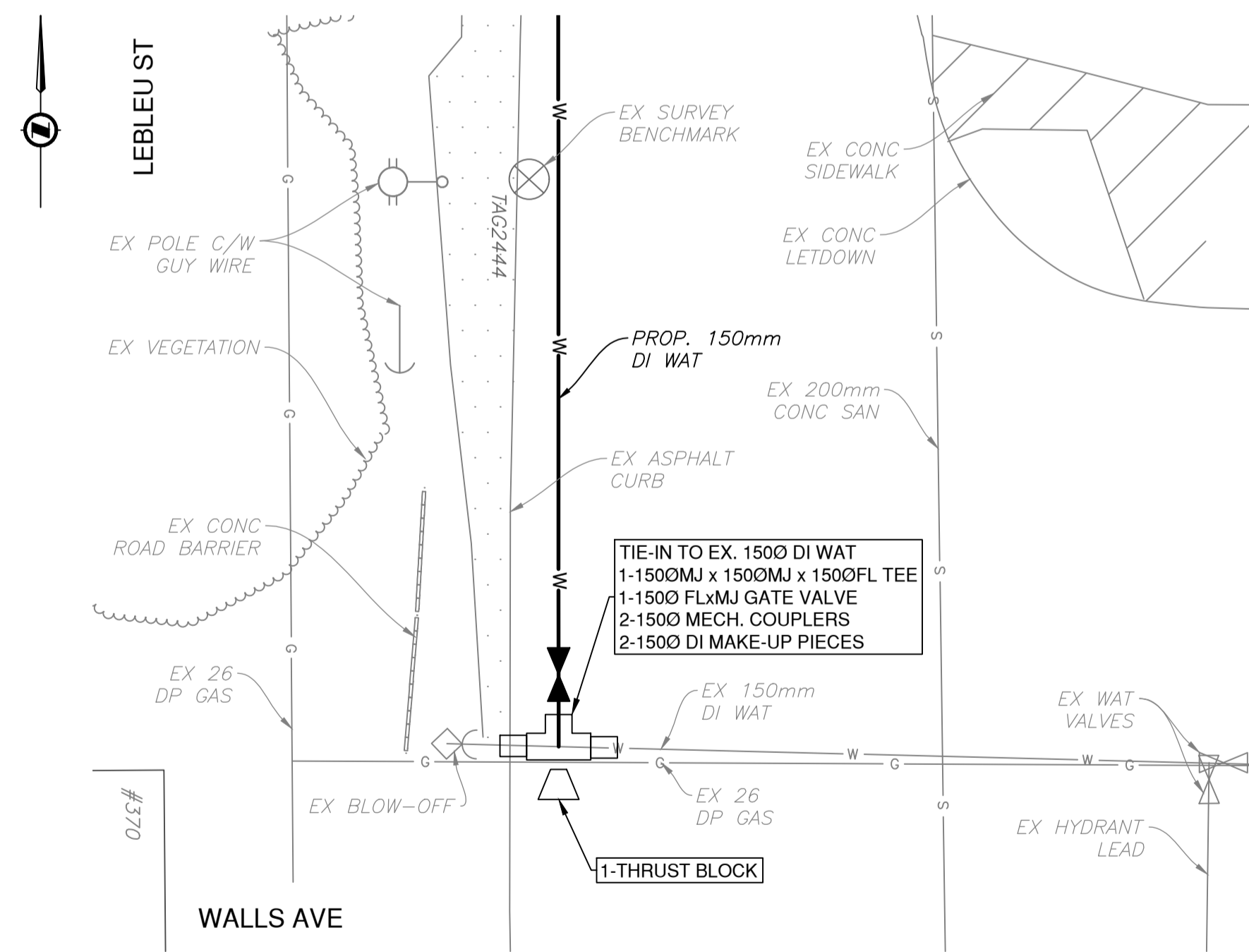
**G** DETAIL  
W4, W6 N.T.S.



**H** DETAIL  
W5 N.T.S.



**I** DETAIL  
W5 N.T.S.



**J** DETAIL  
W6 N.T.S.

PRE-LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION

Benchmark:  
SEE SURVEY NOTES ON SHEET W6.



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2	24-FEB-2025	HH	90% DESIGN REVIEW



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

PERMIT TO PRACTICE

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

PERMIT NUMBER: \_\_\_\_\_  
The Association of Professional Engineers and Geoscientists of British Columbia

Seal:

Design by: HH Date: 13-DEC-2024  
Drawn by: KD Date: 13-DEC-2024  
Checked by: PL Date: 13-DEC-2024  
Approved by: AC Date: 13-DEC-2024

Scale: HORIZ. 1:500, VERT. 1:50

Sheet of: W7 OF W7

Eng. Project No. \_\_\_\_\_

Project: BRUNETTE, COLEMAN, & ROCHESTER WATERMAIN REPLACEMENTS  
Description: ROCHESTER AVENUE (SITE #3) DETAILS  
File: 24Rochester0624374T1