



INVITATION TO TENDER 20-02
WATERMAIN RENEWAL - HILCHEY RD PHASE 1

MASTER MUNICIPAL CONSTRUCTION DOCUMENTS - 2009
Platinum Edition

UNIT PRICE CONTRACT

May 29th, 2020



INVITATION TO TENDER 20-02

WATERMAIN RENEWAL - HILCHEY RD PHASE 1

TABLE OF CONTENTS

The complete Contract Documents consist of the following parts:

1. The Master Municipal Construction Documents (Tender Package) consisting of the following parts (**included in this tender package**):
 - Invitation to Tender
 - Instructions to Tenderers, Part I
 - Form of Tender
 - Appendix 1 -- Schedule of Quantities and Prices
 - Appendix 2 -- Preliminary Construction Schedule
 - Appendix 3 -- Experience of Superintendent
 - Appendix 4 -- Comparable Work Experience
 - Appendix 5 -- Subcontractors
 - Appendix 6 -- Tenderer's Current Projects Underway
 - Agreement - Draft
 - Schedule 1 -- Schedule of Contract Documents
 - Schedule 2 -- List of Contract Drawings
 - Appendix 7 - Safety Covenant
 - Appendix 8 - Prime Contractor Agreement
 - Appendix 9 -- Letter of Acceptance -- Base Course Gravel in Advance of Paving
 - Supplementary General Conditions
 - Supplementary Specifications
2. Additional reference documentation consisting of the following parts (**not distributed in this tender package**) available at www.campbellriver.ca:
 - Supplementary Specifications, City of Campbell River, Design Standards 2010, Appendix A to Subdivision and Development Servicing Bylaw 3419
 - City of Campbell River, Approved Utility Product List February 2020
3. The balance of the Master Municipal Construction Documents, Platinum, 2009 edition. These documents are available in the "MMCD - General Conditions, Specifications and Standard Detail Drawings" (**not distributed in this tender package**):



INVITATION TO TENDER 20-02

WATERMAIN RENEWAL - HILCHEY RD PHASE 1

The City of Campbell River invites tenders for the Watermain Renewal – Hilchey Rd Phase 1 project which includes the following generalized scope of work:

Work under this Contract includes, but is not limited to, all supervision, construction, equipment, labour, material, permits and related items required for: the renewal of approximately 800 lineal meters of PVC watermain on Hilchey Road from Galerno Road to Penfield Road. In general terms, this work will involve the installation of new watermain, services, hydrants, isolation valves and reinstatement of the affected asphalt roadway and surfaces.

During the course of construction, the Contractor will be required to maintain vehicle traffic along Hilchey Road and affected intersections at all times and access to all properties located within the project limits.

Also included is the requirement to coordinate the necessary permanent asphalt paving with the City's paving contractor – Tayco Paving, which is delivered under separate contract, and the requirement to reinstate existing pavements markings after paving work is complete.

This Tender is available electronically by downloading from BC Bid or the City's website at:
<http://www.campbellriver.ca/business-economy/do-business-with-the-city/bidopportunities>

A mandatory site meeting will **NOT** be held.

This Tender is scheduled to close at:

Tender Closing Time: 3:00 p.m. local time

Tender Closing Date: Wednesday, June 17th, 2020

Extension requests to the closing date may not be granted to ensure the tender outcomes are presented at the June 29th, 2020 City Council meeting.
There will NOT be a Public Opening for this Tender

Delivered to: Tenders are to be submitted via email to purchasing@campbellriver.ca or facsimile to 250.286.5763

Tender Enquiries: Clinton J. Crook, SCMP, CPSM, CRM
Purchasing & Risk Management Officer
Telephone: 250.286.5766
Email: purchasing@campbellriver.ca



INVITATION TO TENDER 20-02

WATERMAIN RENEWAL – HILCHEY RD PHASE 1

RECEIPT CONFIRMATION FORM

As receipt of this document, and to directly receive any further information, addendums, etc. regarding this competition, please return this form to:

Email: purchasing@campbellriver.ca

Fax: 250.286.5763

Company Name: _____

Address: _____

City: _____

Province/State: _____ Postal/Zip Code: _____

Telephone No: _____ Fax No: _____

Contact Person: _____

Title: _____

Email: _____

**CITY OF CAMPBELL RIVER
INVITATION TO TENDER 20-02
WATERMAIN RENEWAL – HILCHEY RD PHASE 1
INSTRUCTIONS TO TENDERERS PART I**

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INSTRUCTIONS TO TENDERERS - PART I

(TO BE READ WITH "INSTRUCTIONS TO TENDERERS - PART II"
CONTAINED IN THE EDITION OF THE PUBLICATION
"MASTER MUNICIPAL CONSTRUCTION DOCUMENTS" AND APPLICABLE CITY OF CAMPBELL
RIVER BYLAWS SPECIFIED IN ARTICLE 2.2 BELOW)

Reference No.: TENDER 20-02

Contract: WATERMAIN RENEWAL – HILCHEY RD PHASE 1

Introduction

1

1.1 These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:

The City of Campbell River invites tenders for the Watermain Renewal – Hilchey Rd Phase 1 project which includes the following generalized scope of work:

Work under this Contract includes, but is not limited to, all supervision, construction, equipment, labour, material, permits and related items required for: the renewal of approximately 800 lineal meters of PVC watermain on Hilchey Road from Galerno Road to Penfield Road. In general terms, this work will involve the installation of new watermain, services, hydrants, isolation valves and reinstatement of the affected asphalt roadway and surfaces.

During the course of construction, the Contractor will be required to maintain vehicle traffic along Hilchey Road and affected intersections at all times and access to all properties located within the project limits.

Also included is the requirement to coordinate the necessary permanent asphalt paving with the City's paving contractor – Tayco Paving, which is delivered under separate contract, and the requirement to reinstate existing pavements markings after paving work is complete.

1.2 Direct all tender inquiries regarding the *Contract*, to:

Clinton J. Crook, SCMP, CPSM, CRM
Purchasing & Risk Management Officer
Telephone: 250.286.5766
Email: purchasing@campbellriver.ca

Tender Documents

2

2.1 The tender documents which a tenderer should review to prepare a tender consist of all of the *Contract Documents* listed in Schedule 1 entitled "Schedule of Contract Documents". Schedule 1 is attached to the Agreement which is included as part of the tender package.

The *Contract Documents* include the Drawings listed in Schedule 2 to the Agreement, entitled "List of Drawings".

- 2.2 A portion of the Contract Documents is included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings contained in the publication entitled "Master Municipal Construction Documents - General Conditions, "Specifications and Standard Detail Drawings" and relevant sections of Supplementary Specifications, City of Campbell River, Design Standards 2010, Appendix A to Subdivision and Development Servicing Bylaw 3419. Refer to Schedule 1 attached to the Agreement or, if no edition has been specified, then the applicable edition shall be the most recent edition as of the date of this *Contract*. 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 judgement about its reliability, accuracy or completeness and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate or complete.

**Submission of
Tenders**

- 3**
- 3.1 Tenders must be submitted in a sealed opaque package, clearly marked on the outside with the above *Contract* Title and Reference No., and must be received on or before:

***Tender Closing Time:* 3:00 p.m. local time**

***Tender Closing Date:* Wednesday, June 17th, 2020**

Extension requests to the closing date may not be granted to ensure the tender outcomes are presented at the June 29th, 2020 City Council meeting.
There will NOT be a Public Opening for this Tender

Delivered to: Tenders are to be submitted via email to purchasing@campbellriver.ca or facsimile to 250.286.5763

Submissions should state the Tender name, number, and "Submission" in the Subject Line. Submissions should be consolidated into **one (1) Adobe .PDF virus free file no larger than 10MB's.**

Tenderers assume the entire risk when submitting a Tender via email or facsimile. The City will not be liable for any delay or rejection for any reason, including but not limited to, technological delays or issues caused by any network or email or facsimile program or rejected as suspected spam or virus or malware or email not being identified in the Subject Line as a “Submission”. The City will not be liable for any damages associated with Tenders not being received or missed.

For purposes of this paragraph, “received” means the Form of Tender submission is visible to the *Owner’s* staff in its entirety, and is either in printed form or is capable of immediate reproduction in printed form.

3.2 Late tenders will not be accepted or considered, and will be returned unopened.

3.3 Tender Submission

.1 Tenders **must** be submitted on the Tender Forms included in these tender documents. The addition to or changing of any words in these Tender Forms by the tenderer or the failure to comply with and complete all items may be cause for rejection without consideration of the tender.

.2 The Tender Submission **must** include acknowledgement of receipt of all issued addenda.

.3 The Tender Submission **must** include the specified financial security, in the form of the “Bid Security” as required in Section 5.2 of the Instructions to Tenderers Part II.

.4 The Form of Tender **must** bear the signature of a legal signing authority of the tenderer.

.5 Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderers shall have any claim for any compensation of any kind whatsoever, as a result of participating in the tender, and by submitting a bid, each Tenderer shall be deemed to have agreed that it has no claim.

**Additional
Instructions to
Tenderers**

4

**Freedom of
Information**

4.1

The *Owner* is subject to the provisions of the Freedom of Information and Protection of Privacy Act. As a result, while Section 21 of the Act does offer some protection for third party business interests, the *Owner* cannot guarantee that any information provided to the *Owner* can be held in confidence. All tenders, after closing time and date become the property of the *Owner*.

Cost of Tender Submission	4.2	The <i>Owner</i> shall not be liable for a Tenderer's cost of submitting a tender.
Evaluation Criteria	4.3	(a) The <i>Owner</i> reserves the right to waive informalities in or reject any or all tenders or accept the tender deemed most favourable in the interests of the <i>Owner</i> . Tenders will be evaluated on the combination of information provided in the Form of Tender and Appendices, which may offer the best value and not necessarily the lowest price. The <i>Owner</i> reserves the right to conduct pre-selection meetings with Tenderers. The <i>Owner</i> further reserves the right to conduct post-selection meetings in order to correct, change or adapt the selected Tender to the wishes of the <i>Owner</i> . Acceptance of any tender may be subject to budgetary considerations and/or City of Campbell River Council approval, and/or the approval of other jurisdictions having authority.
Construction Association Policies	4.4 4.4.1	The <i>Owner</i> is not a member of the Public Construction Council of British Columbia, the British Columbia Construction Association or any other construction association.
	4.4.2	The <i>Owner</i> does not adopt or agree to be bound by "The Procedures and Guidelines Recommended For Use on Publicly Funded Construction Projects" produced by the Public Construction Council of British Columbia, September 1989, or any other procedure/guideline recommended, adopted or produced by any construction association in the tendering and award of the <i>Contract</i> of this project.
Good Neighbour Policy	4.5 4.5.1	The <i>Owner's</i> Good Neighbour Policy as adopted by City of Campbell River Council on April 15, 1997 shall apply to this contract.
	4.5.2	The Policy states: "That Contractors working on Municipal rights-of-way or on private land where new rights-of-way are being created, be required to provide written notice to the residents in the immediate area of the works, describing what is being constructed, when the works will occur, who to contact for more information and what precautions should be taken if necessary; and that the work-site be posted for safety reasons."
Mandatory Site Meeting	4.6	A Mandatory Site Meeting will NOT be held.
Addition\Deletion	4.7	Tenderers are advised that the <i>Owner</i> may, at its option, and subject to available funding and budgetary considerations, delete any <i>Work</i> described in the <i>Contract Documents</i> or may require that optional work be added to the scope of <i>Work</i> .

**Omissions and
Discrepancies**

- 4.8 The Tenderer must carefully examine the *Contract Documents* and the site of the proposed works, judging for and satisfying themselves as to the probable conditions to be encountered. Should a Tenderer find omissions from or discrepancies in the *Contract Documents*, or be in doubt as their meaning, the Tenderer should notify the Owner no later than 5 days prior to the tender closing, who may cause to send a written instruction to all Tenderers in the form of an addendum, which shall become part of the contract and shall be covered in the contract price. The Tenderer may not claim, after the submission of a tender, that there was any misunderstanding with respect to the conditions imposed by the documents. No oral interpretations made to a Tenderer as to the meaning of the *Contract Documents* shall be considered binding. Every request for an interpretation shall be made in writing, forwarded to the office referred to in paragraph 3.1 of the Instructions to Tenderers – Part I.

**Amendment of
Tenders**

- 4.9
- 4.9.1 Delete Paragraphs 12.1 of the Instructions to Tenderers, Part II and replace with the following paragraphs 4.9.2 and 4.9.3:
- 4.9.2 A Tenderer may, without prejudice to itself, withdraw or revise a tender after it has been deposited with the *Owner*, provided the request for withdrawal or revision is filed with the *Owner* in writing before the time set for the Tender closing. Non-facsimile request(s) should be submitted clearly marked with the contract name and reference number to the office referred to in paragraph 3.1 of the Instructions to Tenderers - Part 1. In the case of revision(s), a revised price will not be accepted, only the addition to or deduction from the tender price will be accepted. Written withdrawals or revisions must be signed by the same person or persons who signed the original Form of Tender.
- 4.9.3 In the case of facsimile or e-mail requests for withdrawal or revision, they will only be accepted if they are received by the *Owner's* Supply Management Department facsimile machine at 250.286.5763 or via e-mail at purchasing@campbellriver.ca before the scheduled tender closing time. Tenderers assume the entire risk that the facsimile and computer equipment and staff at the above office will receive the facsimile or e-mail containing the withdrawal or revision. The *Owner* assumes no risk or responsibility whatsoever that any facsimile or e-mail will be received as required and shall not be liable to any *Tenderer* if for any reason a facsimile or e-mail is not received.

For purposes of this paragraph 4.9.3, "received" means the request for withdrawal or revision is visible to the *Owner's* staff in its entirety, and is either in printed form or is capable of immediate reproduction in printed form.

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|--|------|--|
| Sub-Surface Conditions | 4.10 | No sub-surface assessment has been completed for this project. |
| Environmental Conditions | 4.11 | No environmental assessment has been completed for this project. |
| Archaeological Assessment | 4.12 | No archaeological assessment has been completed for this project. |
| Commencement and Completion of Work | 4.14 | The <i>Owner</i> requires that the <i>Work</i> under this Contract be completed as quickly as possible after <i>Contract</i> award, and within the following milestones: |

Substantial Performance of this *Contract* to be achieved within 90 Days from Notice to Proceed.

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 I (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.

4 I (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 stated as:

A tender must be accompanied by the *Bid Security* in the form of:

- a a Bid Bond issued by a surety licensed to carry on the business of suretyship in British Columbia in a form reasonably satisfactory to the *Owner*; or
- b cash, bank draft or letter of credit in a form acceptable to the *Owner*;

in an amount equal to 10% of the *Tender Price*.

5 I (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 10 *Days* of receipt of the written *Notice of Award* deliver to the *Owner*.

Tenderer's Initial Owner's Initial

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- 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*; and
- b a Baseline *Construction Schedule*, as per Supplementary General Condition 4.6.1; and
- c a "clearance letter" indicating that the tenderer is in WCB compliance; and
- d a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place; and
- e a Health and Safety Program Manual pertaining to the Work including COVID-19 mitigation plans;
- f a Traffic Management Plan (TMP) as specified in Supplementary Specification 01 55 00;

5.1.2 As per General Condition 4.6.6, the Owner shall issue the Notice to Proceed within 14 days of receipt and acceptance of the documentation required under item 5.1.1 above.

5.1.3 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*.

5.1.4 sign the *Contract Documents* as required by GC 2.1.2.

6 I (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*,

Tenderer's Initial Owner's Initial

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then such failure or refusal will be deemed to be a refusal by me (us) to enter into the Contract and the *Owner* may, on written notice to me (us), award the *Contract* to another party. I (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 my (our) *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

7 I (WE) DECLARE THAT:

7.1 no person, firm or company other than the undersigned, has any interest in this tender or in the proposed *Contract* for which this tender is made;

7.2 this tender is made without any connection, knowledge, comparison of figures, or agreement with any other company, firm or person making a tender for the same work;

7.3 in tendering for this work, and when called upon to enter into an agreement with the *Owner*, I (we) will be bound to comply with all laws, statutes, and municipal bylaws pertaining to the work. The agreement will be governed by the laws of the province of British Columbia;

7.4 in submitting this tender I (we) did not rely upon any information provided by the *Owner*, or any of the *Owner's* employees or agents, relating to the conditions, contingencies, risks or other circumstances, local or otherwise, which might influence or affect the performance or the cost of the work, including, without limiting the nature of the ground, subsoil, substrata of the work site, the means of access to the work site, the quality, quantity, nature or location of the materials to be furnished or removed in performance of the work, and the conditions under which the labour force will be employed, except the extent that any such information is expressly set forth in the *Contract Documents*. I (we) have relied on our own examination of the work site and have informed ourselves as to all conditions, contingencies, risks, and circumstances, local or otherwise, which might influence or affect the performance or the cost of the work. I (we) accept the site prior to the signing of the *Contract*.

Tenderer's Initial Owner's Initial

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8 WE AGREE:

8.1 The work shall be completed entirely in 90 *Days* from *Notice to Proceed* (The Designated Completion Period);

8.2 There shall be no exclusion of time from the Designated Completion Period for any reason OTHER than delays clearly attributable to the OWNER, its agents, employees or any Authorized Representatives.

9 I (WE) DECLARE THAT:

9.1 I (we) recognize that the lowest or any tender will not necessarily be accepted; and

9.2 I (we) recognize that the *Owner* reserves the right to reject all tenders or to accept the tender which best suits its long term objectives; and

I (we) recognize that the *Owner* reserves the right to accept or reject all or part of this Tender at any time during the period specified by paragraph 5.1 of this Form of Tender.

10 I (WE) DECLARE THAT:

10.1 I (we) do not (or any related company) have any family, ownership, and operating relationships with the City of Campbell River, or any elected official, staff or other officials holding public office in the City of Campbell River and agree that the *Owner* reserves the right to reject any tender that may be perceived to be in a conflict of interest.

11 I (WE) DECLARE THAT:

11.1 In this tender:

(a) "Related Party of the Tenderer" means:

- an officer or director of the Tenderer;
- a shareholder of the Tenderer;
- a corporation with a shareholder or director who is also a shareholder or director of Tenderer;

(b) "Public Authority" has the same meaning as under the Community Charter.

11.2 I (we) hereby declare that neither the Tenderer nor a Related Party of the Tenderer:

Tenderer's Initial Owner's Initial

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- (a) has had a bid bond or performance bond retained or claimed against;
- (b) has breached a contract for works or services with the *Owner* or other Public Authority in British Columbia;
- (c) has been engaged in a legal action against the *Owner* or another Public Authority in British Columbia, or the elected or appointed officers and employees of the *Owner* or that other Public Authority, in relation to:
 - any other contract for works or services;
 - any matter arising from the exercise of the *Owner's* or the other Public Authority's powers, duties or functions under the Community Charter, Local Government Act or other enactment;
- (d) has been charged or convicted of an offence in relation to the performance of a contract for works or services with the *Owner* or other Public Authority;

within five years of the closing date of this Tender.

Tenderers who are unable to truthfully complete this declaration must provide full particulars of the relevant circumstances. Submission of a false declaration is grounds for rejection of a tender.

11.3 I (we) hereby declare that the *Owner* may in its absolute discretion reject a Tender submitted by a Tenderer if the Tenderer or a Related Party of the Tenderer:

- (a) has had a bid bond or performance bond retained or claimed against;
- (b) has breached a contract for work or services with the *Owner* or other Public Authority in British Columbia;
- (c) has been engaged in a legal action against the *Owner* or another public authority in British Columbia, or the elected or appointed officers and employees of the *Owner* or that other public authority, in relation to:
 - any other contract for works or services;
 - any matter arising from the exercise of the *Owner's* or the other public authority's powers, duties or functions under the Community Charter, Local Government Act or other enactment;

Tenderer's Initial Owner's Initial

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- (d) has been charged or convicted of an offence in relation to the performance of a contract for works or services with the *Owner* or other Public Authority;

within five years of the closing date of this Tender.

11.4 I (we) hereby declare that in determining whether to reject a tender the *Owner* will consider whether:

- (a) the legal action is likely to affect the Tenderers ability to work with the *Owner*, its consultants and representatives, and;

whether the *Owner's* or other public authority's experience with the Tenderer indicates that the *Owner* is likely to incur increased costs including but not limited to staff and legal costs in the administration of this contract if it is awarded to the Tenderer.

12 I (WE) AGREE THAT:

12.1 I (we) agree that if any director, officer or employee, agent or other representative of a Tenderer makes any representation or solicitation to the Mayor, any Councillor, officer or employee of the City of Campbell River, other than those specifically designated in the Tender documents, with respect to this Tender, whether before or after the submission of the Tender, the City shall be entitled to reject or not accept the Tender.

Tenderer's Initial Owner's Initial

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MY (OUR) ADDRESS is as follows:

(Full Legal Name of Corporation, Partnership or Individual)

(address)

(city, province) (postal code)

Phone: _____

Fax: _____

E-mail: _____

This Tender is executed this _____ day of _____,
2020.

(Printed Name)

(Authorized Signatory)

Tenderer's Initial Owner's Initial

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Appendix 1

SCHEDULE OF QUANTITIES AND PRICES – GST EXCLUDED

(See paragraph 5.3.1 of the Instructions to Tender – Part II)

(All prices and *Quotations* including the *Contract Price* shall include all Taxes, but shall not include GST, GST shall be shown separately)

ITEM No.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
<u>01 GENERAL REQUIREMENTS</u>						
<u>01 01 01 MOBILIZATION and DEMOBILIZATION</u>						
1	3.1	Mobilization and Demobilization (max 10% of total price)	LS	1		
<u>01 52 01 TEMPORARY STRUCTURES</u>						
2	1.6	Site Office and Storage	LS	1		
<u>01 55 01 TRAFFIC CONTROL</u>						
3	1.5.1	Traffic Control Management	LS	1		
4	1.5.2	Supply and Remove Temp. travel surface 19mm Granular Base - <i>(Optional Work)</i>	sq.m.	1,475		
<u>03 30 20 CONCRETE WALKS, CURBS AND GUTTERS</u>						
5	1.4.3	Concrete Barrier Curb (c/w Granular Base)	Lin. M.	104		
6	1.4.5	Concrete Sidewalk 100mm thick (c/w Granular Base)	sq.m.	105		
7	1.4.5	Concrete Wheelchair Ramp 120mm thick (c/w Granular Base)	sq.m.	12		
8	1.4.6	Concrete Driveway Crossing 150mm thick (c/w Granular Base)	sq.m.	48		
9	1.4.6	Private Concrete Driveway with Matching Finish (c/w Granular Base)	sq.m.	55		
Sub-Total Page 9						

Tenderer's Initial Owner's Initial

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**CITY OF CAMPBELL RIVER
TENDER 20-02
WATERMAIN RENEWAL – HILCHEY RD PHASE 1
FORM OF TENDER**

ITEM No.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
<u>31 EARTHWORKS</u>						
<u>31 23 01 EXCAVATING, TRENCHING AND BACKFILLING</u>						
10	1.10.3	Over-Excavation including Backfilling <i>(Optional Work)</i>	cu.m.	100		
11	1.10.4.1	Removal and Off-Site Disposal of Disused AC Pipe	Lin. M.	60		
12	1.10.4.2	Dump Fees for AC Pipe Disposal	Allowance	1	\$ 3,500	\$ 3,500
13	1.10.4	Removal and Off-Site Disposal of Disused Pipe (except AC Pipe) and Structures <i>(Optional Work)</i>	Lin. M.	20		
14	1.10.9	Prelocate unknown water services near property line	each	5		
15	1.10.10	Complete Underground Utility Locate Verification Schedule UL-01	LS	1		
<u>31 23 23 CONTROLLED DENSITY FILL</u>						
16	1.4.1	CDF (Pipe 150mm diameter)	Lin. M.	720		
17	1.4.1	CDF (Pipe 100mm diameter)	Lin. M.	12		
<u>31 24 13 ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION</u>						
18	1.8.5	Common Excavation <i>(Optional Work)</i>	cu.m.	100		
19	1.8.14	Roadway and Driveway Asphalt Removal for All Thicknesses	sq.m.	1 475		
<u>32 ROADS AND SITE IMPROVEMENTS</u>						
<u>32 11 16.1 GRANULAR BASE</u>						
21	1.4.2	Granular Sub-Base Repair <i>(Optional Work)</i>	cu.m.	75		
22	1.4.2	130mm thick Granular Base Repair <i>(Optional Work)</i>	sq.m.	150		
Sub-Total Page 10						

Tenderer's Initial Owner's Initial

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**CITY OF CAMPBELL RIVER
TENDER 20-02
WATERMAIN RENEWAL – HILCHEY RD PHASE 1
FORM OF TENDER**

ITEM No.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
<u>32 12 16 HOT-MIX ASPHALT CONCRETE PAVING</u>						
23	1.5.7	Saw Cut and mill lap joint roadway asphalt or concrete pavements for permanent pavement restoration	Lin. M.	2,100		
24	1.5.9	Coordination with Owner's Asphalt Concrete Supplier	LS	1		
<u>32 17 23 PAINTED PAVEMENT MARKINGS</u>						
25	1.5.2	Pavement Paint Pavement Marking Restroatopn	LS	1		
26	1.5.3	Thermoplast Paint pavement Marking Restoration	LS	1		
<u>32 93 01 PLANTING OF TREES, SHRUBS AND GROUND COVERS</u>						
27	1.9.1	Landscaping Shrub, Trees and Plants replacement costs (L)	<i>each</i>	16		
33 UTILITIES						
<u>33 11 01 WATERWORKS</u>						
28	1.8.2	Pipe-100mmm dia. C900 DR18 PVC at all depths, import backfill	Lin. M.	4		
29	1.8.2	Pipe-150mmm dia. C900 DR18 PVC at all depths, import backfill	Lin. M.	67		
30	1.8.2	Pipe-200mmm dia. C900 DR18 PVC at all depths, import backfill	Lin. M.	730		
31	1.8.3	Gate Valve- 150mm FxH	Each	2		
32	1.8.3	Gate Valve- 200mm FxH	Each	8		
33	1.8.3	Gate Valve- 200mm FxF	Each	1		
34	1.8.3	Tee- 200Hx200Fx150F	Each	1		
35	1.8.3	Tee- 200Hx200Fx200F	Each	1		
36	1.8.3	Cross-200Hx200Fx200Fx200F	Each	1		
37	1.8.3	11.25 deg Bend- 200HxH	Each	1		
38	1.8.3	22.5 deg Bend- 150HxH	Each	3		
39	1.8.3	22.5 deg Bend- 200HxH	Each	2		
40	1.8.3	45 deg Bend- 150HxF	Each	1		
41	1.8.3	45 deg Bend- 150HxH	Each	6		
42	1.8.3	45 deg Bend- 200HXF	Each	2		
43	1.8.3	90 deg Bend- 150HxF	Each	1		

Sub-Total Page 11

Tenderer's Initial Owner's Initial

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**CITY OF CAMPBELL RIVER
TENDER 20-02
WATERMAIN RENEWAL – HILCHEY RD PHASE 1
FORM OF TENDER**

ITEM No.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
43	1.8.3	200x150 Reducer	Each	4		
43	1.8.3	150x100 Reducer	Each	1		
43	1.8.3	Cap assembly -200	Each	1		
44	1.8.4	Service Connection- 19mm dia. c/w tracer, idler, setter, meter box, connection restoration (Residential)	Each	42		
45	1.8.4	Service Connection- 25mm dia. c/w tracer, idler, setter, meter box, connection restoration	Each	4		
46	1.8.4	Service Connection at 477 Hilchey Road 50mm dia. c/w tracer, isolation Valve, fittings, cap, restraints including restoration	Each	1		
47	1.8.4	Service Connection at 499 Hilchey Road 150mm dia. c/w Gate Valve, Fittings, Cap, restraints to property line including restoration	LS	1		
48	1.8.4	Service Connection at 327 Hilchey Road 150mm dia. c/w Gate Valve, Fittings, Cap, restraints to property line including restoration	LS	1		
49	1.8.14	Hydrant Assembly. Std Dwg W4 Terminal City C-71P	Each	6		
50	1.8.15	Wrap watermain joints at location	Each	4		
51	1.8.13	Tie in Location 1 : tie to existing 150mm AC mains c/w restraints/couplers @ Galerno Road	LS	1		
52	1.8.13	Tie in Location 2 : tie to existing 150mm PVC main c/w restraints/couplers @ Palmer Road	LS	1		
53	1.8.13	Tie in Location 3 : tie to existing 150mm AC mains c/w restraints/couplers @ Alder Street	LS	1		
54	1.8.13	Tie in Location 4 : tie to existing 150mm AC main(s) c/w restraints/couplers @ Penfield Road	LS	1		
<u>33 11 01 TRAFFIC SIGNALS</u>						
55	1.9.4	Reinstate Detector Loops	LS	1		

Sub-Total Page 12

Tenderer's Initial Owner's Initial

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SUMMARY

Sub-Total Page 9:	\$
Sub-Total Page 10:	\$
Sub- Total Page 11:	\$
Sub-Total Page 12:	\$
Sub-Total	\$
GST (5%):	\$
GRAND TOTAL:	\$

Tenderer's Initial Owner's Initial

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Appendix 3
EXPERIENCE OF SUPERINTENDENT
(See paragraph 5.3.3 of the Instructions to Tenderers - Part II)

Name: _____

Experience:

1. Dates: _____

Project Name: _____

Responsibility: _____

References: _____

2. Dates: _____

Project Name: _____

Responsibility: _____

References: _____

3. Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Tenderer's Initial Owner's Initial

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Appendix 4

COMPARABLE WORK EXPERIENCE
(See paragraph 5.3.4 of the Instructions to Tenderers - Part II)

PROJECT	OWNER/ CONTRACT NAME	PHONE NUMBER	WORK DESCRIPTION	VALUE (\$)

Tenderer's Owner's
Initial Initial

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Appendix 6

TENDERERS CURRENT PROJECTS UNDERWAY

PROJECT	OWNER/ CONTRACT NAME	PHONE NUMBER	WORK DESCRIPTION	VALUE (\$)	% COMPLETE

Tenderer's Owner's
Initial Initial

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Draft Agreement

Between Owner and Contractor

THIS AGREEMENT made in duplicate this _____ day of _____, 2020.

Reference No.: TENDER 20-02

Contract: WATERMAIN RENEWAL – HILCHEY RD PHASE 1

BETWEEN: CITY OF CAMPBELL RIVER

(the "Owner")

AND: TBD

(the "Contractor")

The Owner and the Contractor agree as follows:

ARTICLE 1 THE WORK - START/COMPLETION DATES

- 1.1 The Contractor will perform all Work and provide all labour, equipment and material and do all things strictly as required by the Contract Documents.
- 1.2 The Contractor will commence the Work in accordance with the Notice to Proceed. The Contractor will proceed with the Work diligently, will perform the Work generally in accordance with the construction schedules as required by the Contract Documents and will achieve Substantial Performance of the Work within 90 Days of being issued a Notice to Proceed subject to the provisions of the Contract Documents for adjustments to the Contract Time.
- 1.3 Time shall be of the essence of the Contract

ARTICLE 2 CONTRACT DOCUMENTS

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

ARTICLE 3 CONTRACT PRICE

- 3.1 The price for the Work ("Contract Price") shall be the sum in Canadian dollars of the following:
 - 3.1.1 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 Lump Sums listed in the Schedule of Quantities and Prices; plus
 - 3.1.2 all lump sums, if any, as listed in the Schedule of Quantities and Prices, for items relating to or incorporated into the Work; plus
 - 3.1.3 any adjustments, including any payments owing on account of Changes and agreed to Extra Work, approved in accordance with the provisions of the Contract Documents.

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

ARTICLE 4 PAYMENT

- 4.1 Subject to applicable legislation and the provisions of the *Contract Documents*, the *Owner* shall make payments to the *Contractor*.
- 4.2 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.

ARTICLE 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*.

ARTICLE 6 NOTICES

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

The *Owner*: City of Campbell River
301 St. Ann's Road
Campbell River, BC
V9W 4C7
Attention: Mr. David Dougherty, ASCT, CCA
E-mail: david.dougherty@campbellriver.ca

The *Contractor*: **TBD**

The *Contract Administrator*: City of Campbell River
301 St. Ann's Road
Campbell River, BC
V9W 4C7
Attention: Mr. David Dougherty, ASCT, CCA
E-mail: david.dougherty@campbellriver.ca

- 6.2 A communication or notice that is addressed as above shall be considered to have been received:
- 6.2.1 immediately upon delivery, if delivered by hand; or
- 6.2.2 immediately upon transmission if sent and received by fax or e-mail; or
- 6.2.3 after 5 *Days* from date of posting if sent by registered mail.

- 6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly if the *Contract Administrator* changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.
- 6.4 The sender of a notice by fax or e-mail assumes all risk that the fax or e-mail will be received properly, and the provisions of paragraph 12.5 of the Instructions to Tenderers, Part II apply to the sender.

ARTICLE 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 ensure 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:

TBD

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(WITNESS)

Owner:

City of Campbell River

(AUTHORIZED SIGNATORY)

(WITNESS)

SCHEDULE 1

CITY OF CAMPBELL RIVER

Schedule of Contract Documents

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", 2009 PLATINUM edition. All sections of this publication are included in the *Contract Documents*.

The documents noted with "***" are available at www.campbellriver.ca

- a) Agreement;
- b) Addenda;
- c) Supplementary General Conditions;
- d) General Conditions*;
- e) Supplementary Specifications;
- f) Specifications*;
- g) Drawings listed in Schedule 2 to the Agreement;
- h) Supplementary Detail Drawings;
- i) Standard Detail Drawings*;
- j) Executed Form of Tender;
- k) Instructions to Tenderers;
- l) All other Contract Drawings;
- m) Supplementary Specifications, City of Campbell River, Design Standards 2010, Appendix A to Subdivision and Development Servicing Bylaw 3419**;
- n) City of Campbell River: Approved Utility Product List***;

Appendix 7

SAFETY COVENANT

BETWEEN:

_____ of
(Company Name (Print legibly))

(Address)

_____ (City) _____ (Postal Code)

_____ (Phone no.) _____ (Fax no.)

hereinafter referred to as the “Contractor”

AND:

CITY OF CAMPBELL RIVER

hereinafter called the “Owner”

WHEREAS:

The Contractor covenants and agrees that when performing any work for the Owner, whether directly as a contractor or indirectly as a sub-contractor, it will adhere to all of the requirements of the Occupational Health and Safety (OHS) Regulation, B.C. Reg. 296/97, as may be amended from time to time, that are applicable to the work being performed, and as well will comply with the provisions of the *Workers Compensation Act, R.S.B.C., 1996, c.492*, as amended (the ‘Act’).

Without limiting the generality of the foregoing, the Contractor agrees:

- 1) Before commencing any work for the Owner, the Contractor will consult the OHS Regulation and will determine which provisions of the OHS Regulation is applicable to the work that the Contractor is to perform. The Contractor will strictly comply with all applicable OHS Regulations when performing the work.
- 2) Before commencing any work for the Owner, the Contractor will review and familiarize itself with any existing policies or procedures developed by the Owner in relation to the work. If in the opinion of the Contractor, by following a policy or procedure that the Owner has established in relation to the work, the Contractor, or an employee of the Contractor or of the Owner, or any other worker, is put at increased risk, the Contractor must request a written change of policy or procedure from the Owner, applicable only to the work the Contractor is to perform, before proceeding with the work. The Owner reserves the right to refuse to amend its policies or procedures in response to any such request where the Owner, after such consultation with WorkSafe BC as the Owner considers necessary, determines that the Owner’s policy or procedure does not increase the risk to any worker at the location of the work to be performed, and determines that the

- Contractor's request is unreasonable, or is unnecessary for the protection of workers at the location of the work.
- 3) To have read every section of the OHS Regulation that pertains to the job at hand, to ensure that it understands the pertinent OHS Regulation and its application to the supervisor(s) and to all of the workers at the location of the work, and to ensure that each worker under the Contractor's supervision follows the applicable OHS Regulation. To assist Contractors with this task, the City of Campbell River directs them to consult with WorkSafe BC directly, to access the WorkSafe BC Regulations and Policies available on the WorkSafe BC website.
- 4) To understand, comply with and, to the full extent of the Contractor's lawful authority, to enforce all of the following provisions of the OHS Regulation as they pertain to the job at hand and to the workers employed by the Contractor, and to provide to the owner, at any time upon request, evidence of compliance with the following:
- a) Rights & Responsibilities – Occupational Health & Safety Program (Part 3, including investigations, inspections, written instructions, records and statistics, adequate supervision, complete understanding by the workforce of the right and responsibility to refuse unsafe work)
 - b) General Conditions (Regulation – Part 4)
 - c) Chemical and Biological Substances (Regulation – Part 5)
 - d) Substance Specific requirements (Regulation – Part 6)
 - e) Noise, Vibration, Radiation and Temperature (Regulation – Part 7)
 - f) Personal Protective Clothing and Equipment (Regulation - Part 8)
 - g) Confined Space Entry (Regulation – Part 9)
 - h) Lock-out (Regulation – Part 10)
 - i) Fall Protection (Regulation – Part 11)
 - j) Tools, Machinery and Equipment (Regulation – Part 12)
 - k) Ladders, Scaffolds and Temporary Work Platforms (Regulation – Part 13)
 - l) Cranes and Hoists (Regulation – Part 14)
 - m) Rigging (Regulation – Part 15)
 - n) Mobile Equipment (Regulation – Part 16)
 - o) Traffic Control (Regulation – Part 18)
 - p) Electrical Safety (Regulation – Part 19)
 - q) Construction, Excavation & Demolition (Regulation – Part 20)
 - r) Forestry Operations (Regulation – Part 26)
 - s) Evacuation and Rescue (Regulation – Part 32)
 - t) Occupational First Aid (Regulation – Part 33)
 - u) Coordination of Multiple Employer Workplaces (Regulation – Part 20, s. 20.3)

PROVISIONS OF THE *WORKERS COMPENSATION ACT* – PART 3 SPECIFIC TO CONTRACTORS ON A WORKSITE:

- i. Division 3 – General duties of Employers, Workers and Others (Sections 115, 116, 117, 118, 119, 120, 121, 122, 123, 124);
 - ii. Division 4;
 - iii. Division 10.
- 5) The *Workers Compensation Act* stipulates that the Owner (the City of Campbell River) is required to enforce any observed infraction of the Act or Regulation. The Contractor accepts that the City of Campbell River will be conducting periodic checks of the Contractor during the Contractor's work for the City of Campbell River and will be asking the Contractor to comply with the Act/Regulation in the event that any contravention is observed. If a contravention is observed and not corrected, the Contractor may be asked to leave the worksite and may result in termination of the contract for the work.

- 6) For the purposes of streamlining large construction projects and multiple employer worksites, the Owner reserves the right to designate a “prime contractor” amongst contractors who are working on a job-site together. A designated person employed by the “prime contractor” – appointed by the Owner - will act as the coordinator of the other contractors on that job-site and will ensure that each of the contractors on the job site are following all of the Act and WorkSafe BC Regulations as well as site-specific policies and procedures. This includes having in place an approved WorkSafe BC Safety Program and a list of the qualified persons amongst the other contractors who have been designated to be responsible for each of the other contractor’s site health and safety activities.
- 7) In the event that a prime contractor has been designated, it is the responsibility of the Contractor to inquire who the “prime contractor” is for the worksite and to comply with the requirements for a multiple employer worksite where a prime contractor has been designated, as set out in the preceding section.

NOTE:

- a) Payment of WorkSafe BC Assessments by any Contractor does not obviate the responsibility of the contractor to any of the foregoing.
- b) The foregoing constitutes requirements of the Prevention Division of WorkSafe BC for any workplace in the Province of British Columbia and constitutes the Owner’s expectations of contractors.

The Contractor covenants and agrees that when performing any work for the Owner, whether directly as a contractor or indirectly as a sub-contractor, it will adhere to all of the requirements of the B.C. Employment Standards Act (RSBC 1996), as may be amended from time to time, that are applicable to the work being performed, including but not limited to:

- 1) Section 36 (2); an employer must ensure that each employee has at least 8 consecutive hours free from work between each shift worked.
- 2) Section 39; despite any provision of this Part, an employer must not require or directly or indirectly allow an employee to work excessive hours or hours detrimental to the employee’s health or safety.

THIS Covenant made the _____ day of _____, 2020, in

_____ in the Province of British Columbia.

(City)

CONTRACTOR:

Company Name

Authorized Signatory

Appendix 8

PRIME CONTRACTOR AGREEMENT

1. The Contractor shall, for the purposes of the Workers Compensation Act, and for the duration of the Work of this Contract:
 - .1 be the "prime contractor" for the "Work site", and
 - .2 do everything that is reasonably practicable to establish and maintain a system or process that will ensure compliance with the Act and its regulations, as required to ensure the health and safety of all persons at the "Work site".
- .2 The Contractor shall direct all Subcontractors, Sub-subcontractors, Other Contractors, employers, Workers and any other persons at the "Work site" on safety related matters, to the extent required to fulfill its "prime contractor" responsibilities pursuant to the Act, regardless of:
 - .1 whether or not any contractual relationship exists between the Contractor and any of these entities, and
 - .2 whether or not such entities have been specifically identified in this Contract.

As per the requirements of the Workers Compensation Act Part 3, Division 3, Section 118(1-3) which states:

Coordination of multiple-employer Workplaces

118(1) In this section:

“multiple-employer Workplace” means a Workplace where Workers of 2 or more employers are Working at the same time;

“prime contractor” means, in relation to a multiple-employer Workplace,

- (a) the directing contractor, employer or other person who enters into a written agreement with the owner of that Workplace to be the prime contractor for the purposes of this Part, or
- (b) if there is no agreement referred to in paragraph (a), the owner of the Workplace.

(2) The prime contractor of a multiple-employer Workplace must

- (a) ensure that the activities of employers, Workers and other persons at the Workplace relating to occupational health and safety are coordinated, and
- (b) do everything that is reasonably practicable to establish and maintain a system or process that will ensure compliance with this Part and the regulation in respect to the Workplace.

(3) Each employer of Workers at a multiple-employer Workplace must give to the prime contractor the name of the person the employer has designated to supervise the employer's Workers at that Workplace.

The Contractor covenants and agrees that when performing any work for the Owner, whether directly as a contractor or indirectly as a sub-contractor, it will adhere to all of the requirements of the B.C.

Employment Standards Act (RSBC 1996), as may be amended from time to time, that are applicable to the work being performed, including but not limited to:

- 3) Section 36 (2); an employer must ensure that each employee has at least 8 consecutive hours free from work between each shift worked.
- 4) Section 39; despite any provision of this Part, an employer must not require or directly or indirectly allow an employee to work excessive hours or hours detrimental to the employee's health or safety.

I fully understand and accept the responsibilities of the prime contractor designation in accordance with the Workers Compensation Act and the B.C. Employment Standards Act while contracted by the *City* on

project location: _____ and will abide by all Workers Compensation Board Regulation requirements.

Date: _____

Project: _____

Company Name: _____

Authorized Signatory: _____

Printed Name: _____

Witness Signatory: _____

Printed Name: _____

Appendix 9

ACCEPTANCE OF BASE COURSE FOR ASPHALT PAVING PLACEMENT

FORM MUST BE COMPLETED 36 HOURS PRIOR TO ASPHALT PLACEMENT

For contracted projects, Prior to the placement of asphalt pavement, representatives from the City the Contract Administrator, the General Contractor and Tayco Paving agree to the condition, surface elevations and quality of the road base as having met the required MMCD Specifications 31 22 16 and 32 11 23

Date: _____

Owner or Contract Administrator:

General Contractor Representative:

Tayco Paving Representative:

This acceptance does not relieve the General Contractor of their responsibilities for the surface elevations and/or condition or subsequent failure of materials below the asphalt pavement. Tayco Paving will continue to be responsible for the asphalt paving relating to the asphalt material and its placement.

The general conditions and specifications for the work will apply and take the precedence over this acceptance. The "Limiting Terms and Conditions" of Tayco Paving also take precedence over this acceptance.

An acceptable method of checking elevations will be used to ensure that the road base is graded to within the specified tolerances and is ready for asphalt placement. The intention of this survey is confirm the roadbed preparations meet with the contract requirements and to ensure that asphalt tonnage does not exceed Tayco's calculated estimated tonnage by more than 5%.

Conversion from square metres to tonnage will be calculated at the rate of 125 Kg per square metre for a 50mm thickness of asphalt.



SUPPLEMENTARY GENERAL CONDITIONS

**TO BE READ WITH "General Conditions"
CONTAINED IN THE PLATINUM EDITION (printed 2009) OF THE PUBLICATION
"MASTER MUNICIPAL CONSTRUCTION DOCUMENTS"**

Reference No.: TENDER 20-02

Contract: WATERMAIN RENEWAL – HILCHEY RD PHASE 1

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10	Force Account	7
13	Delays	8
18	Payment	8
21	Workers Compensation Regulations	8
24	Insurance	9
25	Maintenance Period	9

DEFINITIONS

1.0

1.67.1

(delete clause 1.67.1 and replace as follows)

"Substantial Performance" means the stage of completion of all of the *Work*, as certified by the *Payment Certifier*, when:

- a) the *Work* is ready for use or is being used for its intended purpose; **and**
- b) the total of the incomplete, defective and deficient *Work* can be completed at an estimated cost of no more than:

3% of the first \$500,000 of the *Contract Price*
2% of the next \$500,000 of the *Contract Price*
1% of the balance of the *Contract Price*

1.79

(add new clause 1.79 as follows)

"(amend clause X.XX as follows)" preceding a supplementary clause means this clause provides additional information or restrictions to the referenced clause in the Master Municipal Construction Documents, Volume II.

1.80

(add new clause 1.80 as follows)

"(add new clause X.XX as follows)" preceding a supplementary clause means this clause provides additional requirements or information not found in the Master Municipal Construction Documents, Volume II.

1.81

(add new clause 1.81 as follows)

"(delete clause X.XX and replace as follows)" preceding a supplementary clause means this clause replaces the referenced clause in the Master Municipal Construction Documents, Volume II, in its entirety.

1.82

(add new clause 1.82 as follows)

"Payment Certifier" has the meaning set out in SGC 18.6.6.

1.83

(add new clause 1.83 as follows)

"Provide" or "Provision of" means supply and placement of an item.

1.84

(add new clause 1.84 as follows)

"Engineer" shall mean the *Owner's* engineer appointed to provide technical support during the course of the *Work*.

1.85

(add new clause 1.85 as follows)

"Critical Path Method" (CPM) means the method of scheduling a project as follows:

The essential technique for using CPM is to construct a model of the project that includes:

- (1) A list of all activities required to complete the project (typically categorized within a work breakdown structure),

- (2) The time (duration) that each activity will take to completion, and
- (3) The dependencies between the activities.

Using these values, CPM calculates the longest path of planned activities to the end of the project, and the earliest and latest that each activity can start and finish without making the project longer. This process determines which activities are "critical" (i.e., on the longest path) and which have "total float" (i.e., can be delayed without making the project longer). This determines the shortest time possible to complete the project. Any delay of an activity on the critical path directly impacts the planned project completion date (i.e. there is no float on the critical path). A project can have several, parallel, near critical paths. An additional parallel path through the network with the total durations shorter than the critical path is called a sub-critical or non-critical path.

DOCUMENTS 2.0

Interpretation 2.2.4

(delete clause 2.2.4.1 and replace as follows)

the *Contract Documents* shall govern and take precedence in the following order with the Agreement taking precedence over all other *Contract Documents*:

- (a) Agreement
- (b) Addenda
- (c) Supplementary General Conditions
- (d) General Conditions
- (e) Supplementary Specifications
- (f) Supplementary Specifications, City of Campbell River Design Standards, 2010
- (g) Specifications
- (h) Drawings listed in Schedule 2 to the Agreement
- (i) Supplementary Detail Drawings, City of Campbell River Design Standards, 2010
- (j) Standard Detail Drawings
- (k) Executed Form of Tender
- (l) Instructions to Tenderers
- (m) All other Contract Documents

2.2.4.5 *(add new clause 2.2.4.5 as follows)*

The *Contract Drawings* will be updated post Tender and will be Issued For Construction by the *Contract Administrator* prior to the commencement of the *Work*.

CONTRACTOR 4.0

Protection of Work, Property and the Public 4.3.7

(add new clause 4.3.7 as follows)

The *Contractor* shall locate, mark and protect from damage or disturbance, any and all stakes, survey pins, monuments and markers at the *Place of the Work*.

Good Neighbour Policy 4.3.8

(add new clause 4.3.8 as follows)

The *Owner's* Good Neighbour Policy as adopted by City of Campbell River Council on April 15, 1997 shall apply to this contract. The Policy states: "That *Contractors* working on Municipal rights-of-way

or on private land where new rights-of-way are being created, be required to provide written notice to the residents in the immediate area of the works, describing what is being constructed, when the works will occur, who to contact for more information and what precautions should be taken if necessary; and that the work-site be posted for safety reasons.”

Damage to Improvements and Utilities

4.3.9

(add new clause 4.3.9 as follows)

The *Contractor's* Work shall be confined to the *Owner's* premises, including statutory right-of-ways easements and construction permit limits, whenever possible. The *Contractor* shall not enter upon or place materials on other private premises except by written consent of the individual *Owners* and shall save the *Owner* harmless from all suits and actions of every kind and description that might result from use of private property.

Use of Working Site

4.3.10

(add new clause 4.3.10 as follows)

The *Contractor* shall confine his equipment, storage of materials and operation of Work to the limits indicated by law, permits, or direction of the *Contract Administrator*, and shall not unreasonably encumber the premises with his materials. The *Contractor* shall comply with the *Contract Administrator* instructions regarding signs, advertisements, fires and smoking.

The working site shall at all times be kept free of rubbish and unnecessary hazards to persons, materials, and equipment.

Local, Emergency Traffic and Property Access

4.3.11

(add new clause 4.3.11 as follows)

Local traffic shall be provided access to private properties at all times.

Emergency traffic such as Police, Fire, and Disaster Units shall be provided emergency access at all times. The *Contractor* shall be liable for any damage which may result from his failure to provide such reasonable access.

Traffic Management Plan

4.3.12

(add new clause 4.3.12 as follows)

If required, the *Contractor* shall submit a Traffic Management Plan for Approval prior to start of construction in which the extent and duration of any road closures associated with the work are identified. Two-way traffic via one open lane each way shall be maintained on public roads at all times unless the *Contractor* has obtained the *Owner's* approval via a Road Closure Permit. The *Contractor* is cautioned that approval of full road closures is not guaranteed. Traffic control on all roads shall be in strict accordance with the 2020 Traffic Management Manual for Work on Roadways (TMM) published by the Ministry of Transportation and Infrastructure. The *Contractor* shall only use appropriately accredited personnel for Traffic Control.

Temporary Structures and Facilities

4.4.3

(add new clause 4.4.3 as follows)

The *Contractor* shall provide clean sanitary latrine accommodations for the use of his employees as may be necessary to comply with the requirements and regulations of the Ministry of Health and other bodies having jurisdiction. The *Contractor* shall permit no public nuisance.

**Construction
Schedule**

4.6.1

(delete clause 4.6.1 and replace as follows)

The Contractor shall, within the time set out in the *Form of Tender*, prepare and submit to the *Contract Administrator* a schedule in the form of a Gantt chart with precedence network (the "*Baseline Construction Schedule*") prepared using the *Critical Path Method* (CPM). The schedule shall:

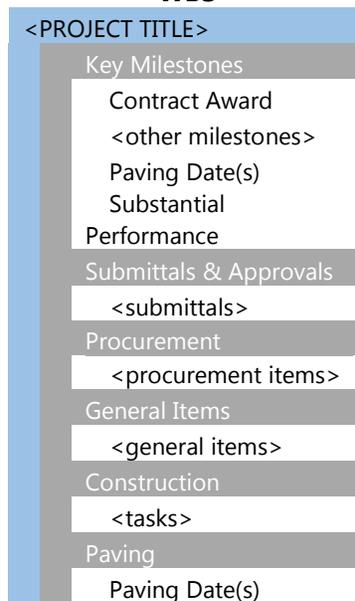
- .1 Show all significant construction activities, shop drawing submittals and procurement activities.
- .2 Show the dependencies between activities so that it may be established what effect the progress of any one activity has on the schedule.
- .3 Show completion time and all specific dates and sequencing requirements. Identify activities making up the critical path.
- .4 Show anticipated dates for all activities related to Hot-Mix Asphalt Concrete Paving.

Unless specifically approved by the Contract Administrator, show activities on the schedule with a duration not longer than 10 working days or an assigned value not greater than \$50,000 (except activities showing only submittal, fabrication or delivery of material or equipment). Divide activities which exceed these limits into more detailed components. Base the scheduled duration of each activity on the work being performed during the normal 40-hour work week with allowances made for legal holidays and normal weather conditions. The project calendar is to include legal holidays and company shutdowns.

For linear activities such as pipework, divide the activities which exceed these limits into more detailed sub-tasks between stations e.g. Stn 0+000 to Stn 0+200.

The schedule's minimum 2-level Work Breakdown Structure (WBS) is to follow the outline shown below.

WBS



The WBS heading is to be a summary bar with no dependencies to tasks.

The *Baseline Construction Schedule* shall indicate completion of the *Work* in compliance with the *Milestone Dates*. The *Contractor* shall ensure that the *Baseline Construction Schedule* is in more detail than the *Preliminary Construction Schedule* so as to enable the *Contract Administrator* to compare actual construction progress during the performance of the *Work* with the *Baseline Construction Schedule* as adjusted pursuant to GC 4.6.2.

4.6.8 **(add new clause 4.6.8 as follows)**

The *Contractor* shall submit the *Adjusted Baseline Schedule* to the *Contract Administrator* with each *Monthly Progress Claim*.

4.6.9 **(add new clause 4.6.9 as follows)**

When the project requires Hot-Mix Asphalt Concrete Paving, the *Contractor* shall submit the *Adjusted Baseline Schedule* to the *Owner's Asphalt Paving Contractor – Tayco Paving Ltd.* on a monthly basis.

Fair Wages

4.8.2 **(add new clause 4.8.2 as follows)**

The *Contractor* attests to compliance with Section 5 of the Skills Development and Fair Wage Act in projects where the provincial contribution to a Municipal project exceeds \$250,000.

Tests and Inspections

4.12.1 **(delete clause 4.12.1 and replace as follows)**

The *Contractor* shall as part of the *Work* perform, or cause to be performed, all tests, inspections and approvals of the *Work* as specified in the *Contract Documents* or as required by the *Contract Administrator* as part of the *Quality Control*. Any reference in the specifications to inspection and testing shall mean that the *Work* described in the specification must be inspected and approved in a manner approved by the *Contract Administrator*. The *Contractor* shall only employ or engage, as an agent or consultant for testing, a person approved by the *Owner*. Where the specification indicates that the *Contract Administrator* will arrange for testing, the *Contractor* continues to be solely responsible for testing of the *Work*. The *Contract Administrator* may perform additional tests for the *Owner's* sole benefit. The costs of these tests will be the responsibility of the *Owner*.

Truck Routes and Disposal Sites

4.17.1 **(add new clause 4.17.1 as follows)**

In hauling of material to and from the work site, the routes to be followed by trucks shall be confined to designated arterial and collector roads as shown on the road classification plan as issued by the City. Where a dumpsite can only be accessed by way of a local road, the route shall be the shortest possible way from an arterial or collector road, and shall be agreed to by the *Contract Administrator* in advance of the work. The *Contractor* shall be responsible for road cleanup along all trucking routes used in association with the work. The cost of this cleanup shall be paid by the *Contractor* and considered incidental to the work. It should be noted that a "Soil Deposition Permit" is required for any dumpsite within the City of

Campbell River. The *Contractor* shall be responsible for obtaining and securing a legal dumpsite. All costs associated with that dumpsite shall be the responsibility of the *Contractor* and shall be considered incidental to the *Work*.

Disposal of Wood Debris, Organic Debris, and/or Waste Excavated Material

4.18.1

(add new clause 4.18.1 as follows)

Prior to disposal of any wood debris, organic debris and/or waste excavated material, the *Contractor* shall submit a disposal management strategy in accordance with all applicable Laws, Bylaws and Regulations to the *Contract Administrator* for approval. Subject to the *Contract Administrator's* approval, the *Contractor* shall ensure that all wood debris, organic debris and/or waste excavated material that is removed from the work site is managed in accordance with this approved disposal management strategy. The *Contractor* shall be required to employ acceptable methods of disposal, approved disposal site location(s), and shall be required to obtain and submit copies of all relevant permits and/or approvals prior to the disposal of any wood debris, organic debris and/or waste excavated material

Regardless of the aforementioned, the *Owner* reserves the right to disallow any or all of the *Contractor's* proposed disposal management strategy if it is determined that they will result in undesirable environmental impacts.

Hours of Work

4.19.1

(add new clause 4.19.1 as follows)

The *Contractor* shall, for each *Day*, keep an accurate, complete and up-to-date record, in a form satisfactory to the *Contract Administrator*, showing, on a shift-by-shift basis, all *Contractor* and *Subcontractor* labour, equipment and materials allocations on the project. The *Contractor* shall submit such resource allocation records to the *Contract Administrator* weekly, for the current week. This is in addition to the requirements of GC 10.3. Approved working hours are: 07:00 to 22:00 Monday to Saturday

VALUATION OF CHANGES AND EXTRA WORK

9.0

Valuation Method

9.2.1.3

(add new clause 9.2.1.3 as follows)

Should a lump sum method be used for determination of the value of a *Change*, the *Contractor* shall determine the value of the *Change* by calculating the cost for each item contained within the *Change* and applying a 10% mark up on all costs associated with the *Change* for Overhead and Profit. All costs are required to be supported by documentation satisfactory to the *Contract Administrator* and all applicable rates are to be satisfactory to the *Contract Administrator*.

FORCE ACCOUNT Force Account Costs

10.0

10.1.1.4

(delete clause 10.1.1.4 and replace as follows)

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

DELAYS 13.0

Liquidated Damages for Late Completion

13.9.1.1 **(delete clause 13.9.1.1 and replace as follows)**
as a genuine pre-estimate of the *Owner's* increased costs for the *Contract Administrator* and the *Owner's* own staff caused by such delay an amount of \$1,000 per day or pro rata portion for each calendar day that actual *Substantial Performance* is achieved after the *Substantial Performance Milestone Date*; plus

13.9.2 **(add new clause 13.9.2 as follows)**
If the *Contractor* causes the scheduled date for paving to be missed as a result of an unapproved *Change* to the *Adjusted Baseline Schedule*, the *Contractor* shall be responsible for all direct and related costs to the *Owner* as a result of a *Contractor* caused *Delay* in paving. The *Owner* shall be responsible to demonstrate any related costs to the satisfaction of the *Contract Administrator*.

PAYMENT 18.0

Supporting Documentation

18.2.3 **(add new clause 18.2.3 as follows)**
The *Contractor* shall provide to the *Contract Administrator* the *Adjusted Baseline Schedule* as a pre-condition of the issuance of each *Payment Certificate*.

Holdbacks

18.4.1 **(delete clause 18.4.1 and replace as follows)**
The *Owner* will retain a holdback but will not establish a Holdback Trust Account pursuant to Section 5 of the *Builders Lien Act*.

Substantial Performance

18.6.5 **(delete clause 18.6.5 and replace as follows)**
The *Owner* will release any builder's lien holdback on the 56th day following the date of *Substantial Performance*, or other date as required by law, but the *Owner* may holdback the amounts for any deficiencies or filed builders liens as provided in GC 18.4.2, GC 18.4.3 and 18.4.4, or the Maintenance Period Financial Security if not received by this date.

Payment Certifier

18.6.6 **(delete clause 18.6.6 and replace 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 co-operate with and assist the Contract Administrator by providing information and assistance in as 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 with the Contract Administrator and obtain the Contract Administrator's comments on the status of completion by the Subcontractor, including any deficiencies or defects in the Subcontractor's Work noted by the Contract Administrator. The Contractor will indemnify and save the Owner harmless from any and all liability the Owner

may have to anyone arising out of the certification by the Contractor of Substantial Performance for that Subcontractor.

Notwithstanding any other provision of the 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 or 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.

**WORKERS
COMPENSATION
REGULATIONS 21.0**

**Contractor is
"Prime Contractor" 21.2.2**

(add new clause 21.2.2 as follows)

If the *Work* is being completed as part of a project for which the *Owner* already has a *Prime Contractor* designated then the *Contractor* will be responsible to ensure that they assume direction from the *Prime Contractor* as per the requirements of the Workers Compensation Act Part 3, Division 3, Section 118(1-3).

INSURANCE 24.0

Required Insurance 4.1.7

(add new clause 24.1.7 as follows)

The *Contractor* shall ensure the following are additional named insured under this contract:

- The City of Campbell River

**MAINTENANCE
PERIOD 25.0**

**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* and may be deducted from the Maintenance Period Financial Security, or other holdbacks. The *Contractor* shall promptly pay any shortfall.

**Maintenance
Period Financial
Security 25.4.1**

(add new clause 25.4.1 as follows)

within 10 days of the issue of the Certificate of Substantial Performance deliver to the *Owner*, a Maintenance Period Financial Security in the form of cash or a clean, irrevocable Letter of Credit in a form acceptable to the *Owner* in the amount of 5% of the Contract Price, issued by a major Canadian chartered bank which has a branch in Campbell River, payable to the *Owner* within the Maintenance Period.



SUPPLEMENTARY SPECIFICATIONS

TO BE READ IN CONJUNCTION WITH THE "MASTER MUNICIPAL CONSTRUCTION DOCUMENTS"

Reference No.: TENDER 20-02

Contract: WATERMAIN RENEWAL - HILCHEY RD PHASE 1

- | | | |
|-----------------------------|-----|--|
| General | 1.1 | <ul style="list-style-type: none">a) Payments will be made on the basis of the unit prices bid in the Tender, and in accordance with Article 18 of the General Conditions.b) The unit prices bid, unless specifically noted otherwise, shall include the supply of all <i>LABOUR, PLANT, MATERIAL</i> and <i>PRODUCT</i> equipment necessary to construct <i>THE WORK</i> in accordance with the specifications.c) The prices bid for supply and installation shall be full compensation for supplying, hauling, installing, cleaning, testing, and placing in service together with all other work subsidiary and incidental thereto for which separate payment is not provided elsewhere.d) Other materials on site, whether existing structures, vegetation, topsoil, gravel, sand or other excavated or piled materials, are the property of the <i>OWNER</i> or of the owner of the land on which <i>THE WORK</i> is located. Only those materials specifically noted in the specification or on drawings, as belonging to the <i>CONTRACTOR</i> shall become the <i>CONTRACTOR's</i> property.e) Where there are excess excavated materials, unsuitable materials excavated or materials of any kind that are excavated but not used in <i>THE WORK</i>, such materials are not the property of the <i>CONTRACTOR</i> unless authorized in writing by the <i>CONTRACT ADMINISTRATOR</i> or specified to be disposed of by the <i>CONTRACTOR</i>. |
| Unit Price Contracts | 2.1 | <ul style="list-style-type: none">a) Payments will be made on the basis of the following:<ul style="list-style-type: none">.1 Unit Price items in the Schedule of Quantities and Unit Prices..2 Changes in <i>THE WORK</i> for items not covered by unit prices, in accordance with Article 7 - <i>CHANGES IN THE WORK</i> of the General Conditions. |

- b) For each item in the Schedule of Quantities and Unit Prices, the *Contract Administrator* will, in cooperation with the *Contractor*, measure the quantity of the item completed at the end of the payment period and this will be shown as a percentage of the work completed against the appropriate value for the lump sum assigned to the respective line item.
- Mobilization and Demobilization** 3.1 a) Mobilization and demobilization shall include the *Contractor's* costs of mobilization at the beginning of the project; and the costs of demobilization at the end of the project.
- b) Included in mobilization are such items as bonding, insurance, permits, moving personnel, materials and equipment to the site, setting up temporary facilities, First-Aid, Site Safety, temporary utilities and all preparation for performing *THE WORK*.
- c) Included in demobilization are preparation and submission of operation and maintenance manuals, As-Constructed Record Drawings, comprehensive Bill Of Materials, removal of all personnel, materials and equipment; and cleanup of the site and *THE WORK*.
- d) The lump sum price bid for this work shall be relative to the costs involved but shall not exceed ten percent of the Tender Price.
- e) Payment will be made as follows, as approved by the *CONTRACT ADMINISTRATOR*:
- I. 60% of the lump sum bid will be included in the first progress payment certificate;
 - II. 40% of the lump sum bid will be included in the final progress payment certificate.
- The *CONTRACT ADMINISTRATOR* may at his discretion recommend partial payment if mobilization or demobilization is not complete.
- Dust Control** 4.1 During the performance of *THE WORK*, the *CONTRACTOR* is to at all times keep the worksite and such immediate surrounding areas which it may utilize free from waste materials, debris or rubbish and is to employ adequate dust control measures. Water shall be the only material acceptable for dust suppression. If accumulation of such materials, debris, rubbish or dust constitutes a nuisance or safety hazard or is otherwise objectionable in any way, as reasonably determined by the *OWNER* or *CONTRACT ADMINISTRATOR*, the *CONTRACTOR* is to promptly remove it. If any claim, suit, losses, or action is brought by a person affected by the transportation of materials, equipment, goods or wastes to and from the worksite, the *CONTRACTOR* shall defend, indemnify and hold harmless all indemnified parties.

**Underground
Utilities**

5.1 It is the *CONTRACTOR'S* responsibility wherever necessary to determine location of existing pipes, valves, conduits, vaults, or other underground structures. Wherever it is necessary to explore and excavate to determine the location of the existing underground structures, the *CONTRACTOR*, at his own expense, shall make explorations and excavations for such purposes. The *CONTRACTOR* shall notify the *CONTRACT ADMINISTRATOR* or his representative of any conflicts.

The *CONTRACTOR* shall, at his own expense, provide for the uninterrupted flow of all watercourses, sewers, drains, and any other utility encountered during the work. Water control and siltation control shall be under the direction of a qualified environmental monitor engaged by the *CONTRACTOR*.

When any existing mains and/or service pipes, utility ducts, vaults or other utility structures are encountered, the *CONTRACTOR* shall support them to the satisfaction of the *CONTRACT ADMINISTRATOR* so as to protect them from injury. The *CONTRACTOR* shall, at his own expense, at once repair and make good any injury which may occur to any mains, service or utility pipes or ducts, or facilities, or to any electrical conductor, telephone, cable or natural gas facility or to any sidewalk, crosswalk as a result of this operation.

Support of power, telephone poles, underground mains, wiring and light standards required to complete the work, shall be the responsibility of the *CONTRACTOR* and completed in accordance with utility company standards. The *CONTRACTOR* shall schedule the work with the appropriate utility company in advance, so as not to delay the work. All costs associated with the work shall be considered incidental and no separate payment be made for this item.

**Construction
Surveys**

6.1 The *CONTRACTOR* is responsible for all survey layout, including stakes, hubs, and grade control.

The *CONTRACTOR* shall survey and layout the work including, but not limited to, as-built invert elevations, offsets and stations of all grade changes, miscellaneous appurtenances, and all existing utilities exposed during construction.

The *CONTRACTOR* shall provide all stakes, hubs, nails, flagging, and including the supply of casual labour for checking of the work, as required by the *CONTRACT ADMINISTRATOR*. The *CONTRACTOR* shall provide the *CONTRACT ADMINISTRATOR* with records of the actual surveys, and "as-built" information pick-up.

No separate or additional payment will be made for this work.

**General
Coordination**

7.1 The *CONTRACTOR* shall work cooperatively with B.C. Hydro, Telus, Shaw and Fortis to locate private utility ducting.

No additional payment shall be made for this work.

**Supplementary
Specifications**

8.1 The following Supplementary Specifications are complementary to the MMCD.

Section	Title
01 30 00	Schedules and Progress
01 31 01	Project Meetings
01 55 00	Traffic Control, Vehicle Access & Parking
03 30 20	Concrete Walks, Curbs and Gutters
31 23 01	Excavating, Trenching and Backfilling
31 23 23	Controlled Density Fill
31 24 13	Roadway Excavation, Embankment & Compaction
32 12 16	Hot-Mix Asphalt Concrete Paving
32 93 01	Planting of Trees, Shrubs and Ground Covers
33 11 01	Waterworks
34 41 13	Traffic Signals
UL-01	Underground Utility Locate Verification Schedule
WW-03	Water System Tie-in Verification Schedule

1.0 GENERAL

1.1 Description

- .1 Prepare a time-scaled network schedule using the critical path method. The schedule will provide a basis for determining the progress status of the project relative to the completion time and specific dates and for determining the acceptability of the *CONTRACTOR*'s requests for payment.

1.2 Schedules

- .1 Depict all significant construction activities, shop drawing submittals and procurement activities. Show the dependencies between activities so that it may be established what effect the progress of any one activity has on the schedule. Except for the start and finish milestones / activities each task shall have a successor and predecessor dependency.
- .2 Show completion time and all specific dates and sequencing requirements. Identify activities making up the critical path. The Critical path is to be shown as per SGC 4.6.1.
- .3 Unless specifically approved by the *CONTRACT ADMINISTRATOR*, show activities on the schedule with a duration not longer than 15 working days or an assigned value not greater than \$100,000 (except activities showing only submittal, fabrication or delivery of material or equipment). Divide activities which exceed these limits into more detailed components. Base the scheduled duration of each activity on the work being performed during the normal 40-hour work week with allowances made for legal holidays and normal weather conditions.

1.3 Submittals for Review

- .1 Within 10 days of the Notice of Award submit a construction schedule as specified herein showing in detail all procurement and on-site construction activities.
- .2 The *CONTRACT ADMINISTRATOR* will review the submitted schedule within 14 working days of its receipt. If the *CONTRACT ADMINISTRATOR* finds that the submitted schedule does not comply with the specified requirements, or does not provide an acceptable schedule detail, the deficiencies will be identified in writing to the *CONTRACTOR* for correction and re-submittal. Correct and resubmit the schedule within 10 working days after the deficiencies have been identified by the *CONTRACT ADMINISTRATOR*. The accepted schedule will become the project baseline schedule for tracking construction progress.

1.4 Schedule Revisions

- .1 Submit proposed revisions to the accepted construction schedule to the *CONTRACT ADMINISTRATOR* for review. Changes in timing for activities may be modified with agreement of the *CONTRACTOR* and *CONTRACT ADMINISTRATOR*. A change affecting the Contract Price, the completion time, or work sequencing may be made only by approved change order.
- .2 Add separate activities to the construction schedule for each approved change order.

- .3 Should the actual sequence of work performed by the *CONTRACTOR* deviate from the planned sequence indicated in the accepted schedule, the *CONTRACT ADMINISTRATOR* may require the *CONTRACTOR* to revise the schedule to reflect changes in the actual sequence and/or the future sequence of work.
- .4 Within 20 days following approval of the *CONTRACTOR*'s testing and commissioning plan submit a schedule revision incorporating the approved plan into the construction schedule.
- .5 Submit with each schedule revision all information as called for in submitting the original construction schedule.

1.5 Progress Status Update

- .1 Submit an updated schedule on a monthly basis concurrent with the submittal of the progress payment request. Indicate on the updated schedule progress achieved to date on all activities.
- .2 Submit three-week look ahead schedules for review and discussion at each weekly project meeting.

2.0 PRODUCTS

- .1 Not Used

3.0 EXECUTION

- .1 Not Used

END OF SECTION 01 30 00

PROJECT MEETINGS

1.0 General

1.1 Administrative

- .1 The Contract Administrator will administer the pre-construction meeting, and regular progress meetings to be held weekly.
- .2 The Contractor's superintendent, and senior representatives of major sub-contractors to attend all meetings.
- .3 Representatives of Contractor, subcontractor and suppliers attending meetings to be qualified and authorized to act on behalf of the party each represents.
- .4 The Engineer or Contract Administrator will chair and record discussions and decisions, and circulate the minutes. The Contractor is to circulate the minutes to subcontractors and suppliers.
- .5 The Contractor is to notify the Contract Administrator in writing of any discrepancies or inconsistencies within 2 days of receipt of minutes for recording in next meeting. Failure to notify the Contract Administrator of discrepancies or inconsistencies within 2 days of receipt of minutes will be deemed acceptance of the minutes as recorded.

1.2 Preconstruction Meeting

- .1 Within 10 days of Notice to Award, the Contract Administrator will schedule a meeting to discuss administrative procedures and responsibilities.
- .2 Agenda includes the following:
 - a) Appointment of official representatives of participants in the Work.
 - b) Appointment of General Contractor as Prime Contractor.
 - c) Notice of Project, Insurances
 - d) Schedule of Work, progress scheduling.
 - e) Submittals.
 - f) Requirements for temporary facilities, offices, utilities, fences.
 - g) Traffic Management Plan
 - h) Environmental Protection Plan
 - i) Site Safety and Security.
 - j) Change Order procedures.
 - k) Record drawings.
 - l) Commissioning, acceptance, warranties.
 - m) Monthly progress payments, administrative procedures, holdbacks.
 - n) Appointment of inspection and testing agencies or firms.

1.3 Weekly Progress Meetings

- .1 The Contractor's superintendent and senior representatives of major subcontractors involved in the Work to be in attendance of weekly progress meeting to be held on site.
- .2 Agenda includes the following:
 - a) Past period progress.
 - b) Next period progress.
 - c) Schedule of construction.

- d) Anticipated changes in the work.
 - e) Approved changes in the work.
 - f) Submittal/RFI/SI status
 - g) Operations staff scheduling.
 - h) Site safety.
 - i) General information pertaining to the work.
 - i. Quality control
 - ii. Site cleanliness
 - iii. Environmental protection
 - iv. Other
- .3 Submit for information only, at each regularly scheduled progress meeting:
- a) Totals of all personnel currently on site associated with the contract, broken down by trade and subcontractor including all staff.
 - b) Totals of all major equipment currently on site, over two thousand dollar replacement value, broken down by type and subcontractor.

1.4 Special Meetings

- .1 Special meetings may be held at the request of the Contract Administrator, Owner, or Contractor to discuss specific items.

1.5 Payment

- .1 All required attendance of the Contractor and/or Contractor's major subcontractors to all Progress Meetings and any required Special Meetings shall be incidental to the contract and no separate payment will be made.

END OF SECTION 01 31 01

1.0 GENERAL

.4 **(Delete 1.0.4 and replace as follows)**

Give minimum 72-hour notice to Owner prior to beginning construction and comply in all respects with their requirements. The Contractor will be responsible for any and all local permits required to execute the work.

.6 **(Add new clause 1.0.6 as follows)**

The Contractor is required to provide 24-hour written notice to all residents, homes and businesses including all units in a multifamily site for any service or vehicle access interruption.

.7 **(Add new clause 1.0.7 as follows)**

The Contractor shall prepare, or cause to be prepared, a Traffic Management Plan (TMP). The TMP shall be submitted to the Owner for approval. Work will not be permitted to commence until the TMP has been approved. The approved TMP shall be implemented and maintained during the Work.

.8

(Add new clause 1.0.8 as follows)

The following provisions must be included in the TMP, which shall conform to the general intent of the attached guidelines on Contract Drawing 16-511 - Sheet 6:

1. Two-way traffic must be maintained on the roadway to the greatest extent possible. A minimum of one-lane alternating traffic may be permitted as approved by the Contract Administrator. Two-way traffic must be reinstated at the end of each work day and remain in place until the next work day.
2. Temporary no parking signs are to be supplied, installed, and maintained by the contractor to mitigate on street parking during work hours.
3. A minimum 5m width clear drive lane must be maintained at all times. The contractor shall ensure that all required activities remain clear of this 5m minimum clear drive lane at all times.
4. At minimum, alternating single lane traffic must be maintained at all times. Traffic queuing is required to be maintained at intervals that are not to exceed three minutes at any time.
5. Essential services such as busses and garbage pickup require that access be maintained at all times.

6. Emergency and delivery access is to be maintained to all addresses at all times.

1.4 Traffic Control

1.4.6 ***(Delete 1.4.6 and replace as follows)***

Keep travelled way well graded, free of pot holes and of sufficient width that required lanes of traffic may pass. Where asphalt surfaces cannot be maintained, provide and maintain compacted and graded 19mm crushed gravel temporary running surface to match asphalt thickness for the duration of the project and until asphalt paving can taken place.

1.4.8

(Delete 1.4.8 and replace as follows)

Maintain uninterrupted access/egress to/from all properties within or in the vicinity of the *Work*, unless authorized as part of the approved Traffic Management Plan or by the *Contract Administrator*.

1.4.10.1 ***(Delete first paragraph of 1.4.10.1 and replace as follows)***

Provide Traffic Control Personnel (TCP), trained and certified by the BC Construction Safety Alliance (BCCSA), and properly equipped for the following situations:

1.5 Payment

.1 ***(Delete 1.5.1 and replace as follows)***

Payment for all work performed under this Section will be on a lump sum basis. Payment shall be 30% upon preparing TMP, securing permits and erecting traffic control devices; 60% distributed in monthly Progress Payments for traffic control persons and related control devices; and 10% upon Substantial Performance.

.2 ***(Add new clause 1.5.2 as follows)***

Payment for the temporary travelled way shall be based on a per square meter price over trenches in the *Schedule of Quantities and Unit Prices*.

Payment shall include the supply and removal of temporary imported base granular materials, all supervision, equipment and labour, to maintain a well graded, free of potholes travelled way of sufficient width for the required number of lanes of traffic to pass until paving may take place. No additional mobilization, demobilization or "call out" payments will be provided for after hours or weekend work required to fix or repair the travelled way, all work shall be considered.

END OF SECTION 01 55 00

1.4 Measurement and Payment

.5 *(Delete and replace section 1.4.5 as follows)*

Payment for concrete sidewalks, in-fill strips and walkways and all concrete ramps where shown on Contract Drawings includes supply and placing of the concrete and granular base under the concrete sidewalk, in-fill strips walkways at a concrete thickness of 100mm. Sidewalk ramps are to be 120mm thick. Temporary granular fill, level with finished surface until permanent restoration occurs will be incidental to the work.

.6 *(Delete and replace section 1.4.6 as follows)*

Payment for driveway crossings and ramps including granular base as shown on Standard detail MMCD C7 will be made on a square metre basis at a concrete thickness of 150mm for residential access and will extend to the centreline of each driveway or nearest control joint as a minimum. Driveway finish to match existing. Temporary granular fill, level with finished surface until permanent restoration occurs will be incidental to the work.

END OF SECTION 03 30 20

EXCAVATING, TRENCHING AND BACKFILLING

1.10 Measurement and Payment

- .4 **(Add clause 1.10.4 as follows)**
Payment for removals of asbestos cement pipe will be in addition to trenchwork with no deduction made from such trenchwork and shall be made as follows:
- .1 Payment for removal and off-site disposal of disused AC pipe includes all necessary means for protection of workers, and removal, testing, permitting, wrapping, transport and disposal (except dump fees) of AC pipe and all other work and materials necessary to complete the removal and disposal as shown on the Contract Drawings and specified under this Section. Payment will be made per lineal metre of pipe disposed.
 - .2 Payment of dump fees charged at disposal site will be paid separately. The actual fee amount shall be payable under an allowance in the *Schedule of Quantities and Prices*. Accurate records shall be submitted to the *CONTRACT ADMINISTRATOR* in accordance with GC 10.3 showing all costs related to this item.
- .9 **(Add clause 1.10.9 as follows)**
Verify existing water service record location and size where identified as unknown on the Contract Drawings. To be completed prior to installing new service saddles or tees. Payment will be made on a per unit basis as per the *Schedule of Quantities and Prices*.
- .10 **(Add clause 1.10.10 as follows)**
CONTRACTOR is required to expose and determine conclusively the location of the underground utilities identified on Contract Drawings and record data on **Underground Utility Locate Verification Schedule (UL-01)**. This Schedule is to be completed before commencing any *Work* in the affected area. Identified locations are only to reduce unforeseen conflicts. Verify that all fittings/components to be used during the installation and connections to existing watermains are sized appropriately. The *CONTRACTOR* is to provide to the *CONTRACT ADMINISTRATOR* proof of completion of Schedule UL-01 upon completion. Payment will be made on a Lump Sum basis as per the *Schedule of Quantities and Prices*.

END OF SECTION 31 23 01

- 1.4 Measurement and Payment**
- .1 ***(Delete clause 1.4 and replace as follows)***
Payment for the controlled density fill will be by theoretical cubic metre in place and calculated based on the area of the inside of the pipes multiplied by the length of the pipe to be infilled. The price bid for Infill of Abandoned pipe with Controlled Density Fill will be for the supply and placement of the concrete slurry and all work associated including removal and disposal of abandoned fittings and components such as tee's crosses, valves, hydrants, blow offs, cutting of the pipe and service connections, temporary piping, and all other associated work.
- 2.2 Mixes**
- .1 ***(Delete clause 2.2 and replace as follows)***
Proportion Controlled Density Fill to meet the following design criteria:
- .1 Compressive strength: Min 0.5MPa at 28 days
 - .2 Cement content: 25kg per m³
 - .3 Slump: 150-200mm
 - .4 Air entrainment: 4-6%
- 3.1 General**
- .1 ***(Delete clause 3.1 and replace as follows)***
The controlled density fill that is described in this clause will be for infilling the existing abandoned pipes as noted on the drawings. The controlled density fill will be comprised of concrete/gravel slurry and is to be designed to achieve 1 MPA. The slurry is to completely fill all voids in the abandoned pipes. The contractor is advised that the pipe may have to be cut in certain areas to ensure that the voids are completely filled. The contractor is to supply a design mix for the slurry at least one week prior to it being used.

END OF SECTION 31 23 23

1.8 Measurement and Payment

.5 (Delete first paragraph and replace as follows)

Payment for common excavation includes removal of existing, curbs and gutters, sidewalks, driveways, utilities, strips, pipes and conduits as part of the operation for common excavation. Removal of existing asphalt pavements is paid separately under this Section.

.14 (Add clause 18.14 as follows)

Payment for removal of existing asphalt pavements includes removal and off-site disposal of asphalt pavement. Payment will be made on a square metre basis as specified in the Schedule of Quantities and Prices.

3.5 Compaction

.7 (Add clause 3.5.7 as follows)

The frequency of density tests shall be one test per 250 square meter per 300mm vertical lift.

END OF SECTION 31 24 13

1.5 Measurement and Payment

.7 **(Add to this clause 1.5.7)**
Saw cutting along the permanent reinstatement lines as per the Pavement Structure Reinstatement Detail including all 200mm wide trench edge lap-joint milling where in traveled portion of roadway.

.9 **(Add 1.5.9 as follows)**
Supply and installation of all Hot-Mix Asphalt Concrete Paving will be by *Other Contractor* for which the *CONTRACTOR* will be responsible for coordinating of all necessary *Work* effort to ensure the Hot-Mix Asphalt Concrete Paving is installed in the most efficient manner possible. Payment for this coordination effort will be lump sum as per the Schedule of Quantities and Prices.

3.13 Scheduling and Coordination

- .1 **(Add clause 3.13.1 as follows)**
Scheduling and Coordination of the Owner's Paving Contractor shall include as a minimum, the following tasks:
- .1 Invite the Owner's Paving Contractor to all project meetings where asphalt paving and any related tasks will be discussed including the Pre-Construction Meeting set by the Contract Administrator
 - .2 Establish and maintain point of contact with the Owner's Paving Contractor Project Manager and Paving Superintendent
 - .3 Maintain ongoing dialogue with the Owner's Paving Contractor during the course of the project and advise of any anticipated changes in schedule dates for paving as part of the monthly issuance of the *Adjusted Baseline Schedule*
 - .4 Confirm all parties roles and responsibilities related to Appendix 9 - Base Course Acceptance are understood and executed in full conformance with the contract requirements
 - .5 In the event that the Environment Canada 7-Day Weather Forecast for Campbell River, BC suggests *Abnormal Weather* is likely to conflict with the scheduled date for paving, the *Contractor* shall immediately notify the *Contract Administrator* and the Owner's Paving Contractor and seek direction from the *Contract Administrator* on any necessary adjustments to paving dates.
 - .6 In the event that the outside temperature on the scheduled dates for paving falls below the requirements of item 3.5.3.1 of Specification 32 12 16, the *Contract Administrator* will advise if paving is to proceed or be rescheduled.

END OF SECTION 32 12 16

1.9 Measurement and Payment

.1 (*Delete 1.9.1 and replace as follows*)

Supply and installation of trees, shrubs, ground covers of the same species, and size (where applicable) to match existing landscaping arrangement for each address identified on *Contract Drawings*. Payment to including all preparatory work, supply, planting, materials, and reinstatement of irrigation components, fences, minor concrete features, edging, and other incidental specified under Section 32 93 01- Planting Trees, Shrubs, and Ground Covers including maintenance to meet Conditions of *Total Performance*.

END OF SECTION 32 93 01

WATER WORKS

- 1.5 Shop Drawings** .1 **(Submit for Approval)**
The Contractor shall submit for Approval the following information to the *CONTRACT ADMINISTRATOR* for each component of the water system at least seven (7) days prior to the commencement of any site work.
- .1 Submit all Gates Valves, Fittings, pipes, setters, boxes, hydrants, restraints, saddles, tie-rods, where not listed on the current *Approved Products List* or *Contract Drawings*.
- 1.6 Record Drawings** .2 **(Submit for Information Only)**
Completed Waterworks Tie-In Record Form ref: WW-03 for each watermain tie-in.
- 1.8 Measurement and Payment** .1 **(Add to 1.8.1 this clause)**
Typical watermain installation requires 1.25 meters of cover above the top of pipe, however where there is a conflict with other utilities, the watermain may have to be installed below or above the existing utility, but in no way will the depth of cover be less than 0.9 meters from final grade. Distance of separation from conflicting utility to be approved by *CONTRACT ADMINISTRATOR* and comply with IHA regulations.
- Any conflicts that arise are to be brought to the immediate attention of the *CONTRACT ADMINISTRATOR* and he/she will direct on the method that will be used to avoid the conflict.
- .2 **(Replace clause 1.8.2 with the following)**
Payment for watermain and service connection includes saw cutting pavement, trench excavation, disposal of surplus excavated material, bedding, supply and installation of all pipe, mechanical restraints, bolts, gaskets and tie rods, imported backfill as shown on the *Contract Drawings*, cleaning, pressure and leakage testing, flushing, disinfection, all surface restoration as specified under Section 31 23 01 – Excavating, Trenching and Backfilling – 3.6, except permanent pavement restoration, and all other work and materials necessary to complete the installation as shown on the *Drawings* and specified under this Section.
- Measurement for watermain will be made along the centreline of the main, through valves and fittings, with no deduction for the length of the valve or fittings, over surface after work has been completed.

.4 **(Replace clause 1.8.4 with the following)**

Payment for water service connections 19mm to 50mm includes all fittings to tie into the main including saddles, corporation stop, curb stops, service pipe, water meter service setter and idler, brooks box, tracer wire and tying into the existing water service at the property line as per Typical Residential Water Service Detail on *Contract Drawings*. Payment includes all applicable work described in 1.8.2.

Measurement for service connections will be for each complete service installed with no regards for length of service pipe installed.

Payment for water service larger than 50mm will be made by Lump Sum as per *Schedule of Quantities and Prices*. All fittings to tie into the main including tee, gate valve, cap, restraints service pipe to property line and valve box. Payment includes all applicable work described in 1.8.2.

.9 **(Amend clause 1.8.9 as follows)**

There will be no payment for thrust blocks and localized concrete required for the installation of the new watermains, temporary blow offs, or test points, or for any temporary blocks that may be required during the watermain construction. Payment for these blocks will be included in the price for watermain installations and the various fittings.

(Add to this Clause 1.8.9)

Payment for joint restraints will be by considered incidental to the Tie-in. Refer to 1.8.13.

.10 **(Add to this clause 1.8.10)**

Typically if there is a conflict between the watermain and an existing utility, wherever possible the *CONTRACTOR* is to deflect the waterline underneath the other utility. Deflections can only be made to the maximum allowable for the class of pipe, based on manufacturer's instructions. Where the pipe cannot be deflected under the existing utility, and bends are required, the bends and restraints will be paid at the appropriate unit price in the contract, but only with the approval of the *CONTRACT ADMINISTRATOR*.

.13 **(Delete 1.8.13 and Replace with this clause)**

Payment for tie-ins to existing mains where all pipework is to be undertaken by the *CONTRACTOR* will be as 1.8.13 of this Section, including all materials, couplers, restraints, tie-rods, thrust blocks, temporary blow offs and miscellaneous parts to complete the necessary tie-in work to complete tie-in as shown on *Contract Drawings* will be by Lump Sum for each location.

Payment for all pipe, gate valves, tees and fittings will be as per *Schedule of Quantities and Prices*.

The *CONTRACTOR* is to advise and attain approval from the City of Campbell River at least 5 days in advance of any shut down of existing water lines and is required to follow item 3.23.2 of this Section for completion of the tie-in. Payment will be made for each individual tie-in as shown on the *Contract Drawings* and as listed in the *Schedule of Quantities and Prices*.

.14 **(Add the following clause 1.8.14)**

Payment for hydrants assembly, Terminal City C-71P or approved equal, includes the hydrant body, mainline tee, lateral connections from mainline to hydrant, isolation valve at the mainline tee and curb valve with adjustable valve box, any necessary risers, fittings and all other incidental work as shown on Standard Detail Drawing W4.

.15 **(Add 1.8.15)**

Where the watermain installation has a horizontal separation of 3.0m or less from an adjacent or perpendicular storm sewer or sanitary sewer, the watermain joints for three (3) meters in either direction shall be wrapped with an approved product to meet the AWWA C217 or AWWA C209 standards and the Island Health Authority (IHA) requirements.

Where the watermain installation has a vertical separation of 0.5m or less from an adjacent or perpendicular storm sewer or sanitary sewer, the watermain joints for three (3) meters in either direction shall be wrapped with an approved product to meet the AWWA C217 or AWWA C209 standards and the VIHA requirements.

Measurement for the joint wrap will be each location identified on the *Contract Drawings* and must be witnessed by the *SITE INSPECTOR* before backfill.

2.2 **Mainline, Pipe, Joints, and Fittings**

.4.10. **(Add the following clause 2.2.4.10.3)**

3 The use of cadmium plated Redi-Rod type tie-rods and nuts will not be permitted. Stainless 304 Redi-Rod and nuts is permitted.

.4.12. **(Add the following clause 2.2.4.12.1.8)**

1.8 For connection to existing asbestos concrete watermain, preferred coupling to be used is Romac Industries Inc. MACRO HP.

- 2.5 Service Connections, Pipe, Joints and Fittings** .6 **(Add clause to this Specification as follows)**
Two cores tracer wire shall be RWU90, 10 gauge (AWG), single-strand, insulated copper wire with cross-linked polyethylene (XLPE) insulation, specifically manufactured for direct burial applications. The tracer wire is to be wrapped around the main at each corp stop and terminate in each service's Brooks Box as per the detail on *Contract Drawings*
- 2.10 Exterior Bolts on Valves, Hydrants, Couplings and Fittings** .1 **(Add clause to this Specification as follows)**
All exterior bolts on valves, hydrants and couplings shall be Stainless Steel 304 or approved equivalent.
- 3.10 Service Connection Installation** .13 **(Add clause to this Specification as follows)**
Tracer wire shall be installed on all non-metallic water services and shall be considered incidental to the work for supply and installation the applicable water service. The wire shall be installed in such a manner as to be able to properly trace all water services without loss or deterioration of signal or without the signal migrating off the tracer wire.
- The tracer wire system shall be tested for functionality by municipal staff only after the *CONTRACTOR* has confirmed and demonstrated that the entire tracer wire system is installed and is functioning properly. The *CONTRACTOR* shall request that the municipality perform this functionality test prior to placement of asphalt.
- 3.23 Connections to Existing Mains** .2 **(Add new clause 3.23.2 as follows)**
Where the *CONTRACTOR* is to tie into existing mains the *CONTRACTOR* is responsible for coordinating and completing the tie-in procedure with the City Water Crew in attendance, as arranged by the *CONTRACT ADMINISTRATOR*. The steps to be followed in the tie in procedure are as presented in the attached *Water System Tie-In Verification Schedule, WW-03*, as may be amended based on the mechanical fitting employed in the *WORK*.
- All thrust blocks and joint restraints are incidental to the work.

END OF SECTION 33 11 01

1.9 Measurement and Payment

.4 (Add the following)

Reinstatement of all traffic signal devices and detector loops identified on the Contract Drawings due to trenching, shall be paid for at the lump sum price(s) in the *Schedule of Quantities and Unit Prices* as per 3.17.

END OF SECTION 34 41 13

Underground Utility Locate Verification Schedule (UL-01)

(Continued)



U7									
U8									
U9									
U10									
U11									
U12									
U13									
U14									
U15									
U16									

Note: All values are to be in metric unless otherwise indicated

Water System Tie-In Verification Schedule – WW-03



File: _____

Date: _____

1. Project: _____
2. Location: _____
3. Pipe Size and Material Type: _____
4. Sketch of Connection Attached:
5. Bend or Coupler Details (make, model, etc) _____

6. Recommended Bolt Torque: _____
7. Recommended Pipe Gap: _____
8. Verification:
 - 8.1. Pipe Gap Measured: _____ mm
 - 8.2. Slope
 - 8.2.1. Pipe 1 Slope: _____ °
 - 8.2.2. Pipe 2 Slope: _____ °
 - 8.2.3. Deflection Across Joint (a-b): _____ °

Personnel Present	
Contractor – Pipe Layer	_____
– Foreman	_____
City Public Works Crew	
– Lead Hand	_____
– Labourer	_____
City Inspector –	_____
Consultant –	_____
Inspector –	_____

- 8.3. Working area pipe ends deburred, cleaned and checked for smoothness
- 8.4. Read and follow installation instructions
- 8.5. Check correct gasket size
- 8.6. Pipe gaskets lubricated
- 8.7. Center coupling
- 8.8. tighten bolt(s) until coupling is held at 10-20 ft-lbs
- 8.9. Gradually tighten to manufacturer’s recommended torque value, alternate between opposite sides keeping all parts centered (65 ft-lbs or 80 ft-lbs <5 deg. C)
- 8.10. Live pressure test, energize and check all joints for leaks
- 8.11. Re-check torque values after pressurization, record values
- 8.12. Measure end of bolt to nut distance clockwise facing nut starting at 12° o’clock,
Record values:

✓	Initials

Bolt #	Torque (ft-lbs)	End Distance (mm)	Bolt #	Torque (ft-lbs)	End Distance (mm)
1			7		
2			8		
3			9		
4			10		
5			11		
6			12		

8.14. Review connection for leaks _____

8.15. To be completed by Contractor

8.16. Received by City of Campbell River

Signed _____

Signed _____

HILCHEY ROAD WATERMAIN UPGRADE PHASE ONE

MAY 2020

DRAWING NO. 16-511

TENDER NO. 20-02

ISSUED FOR TENDER

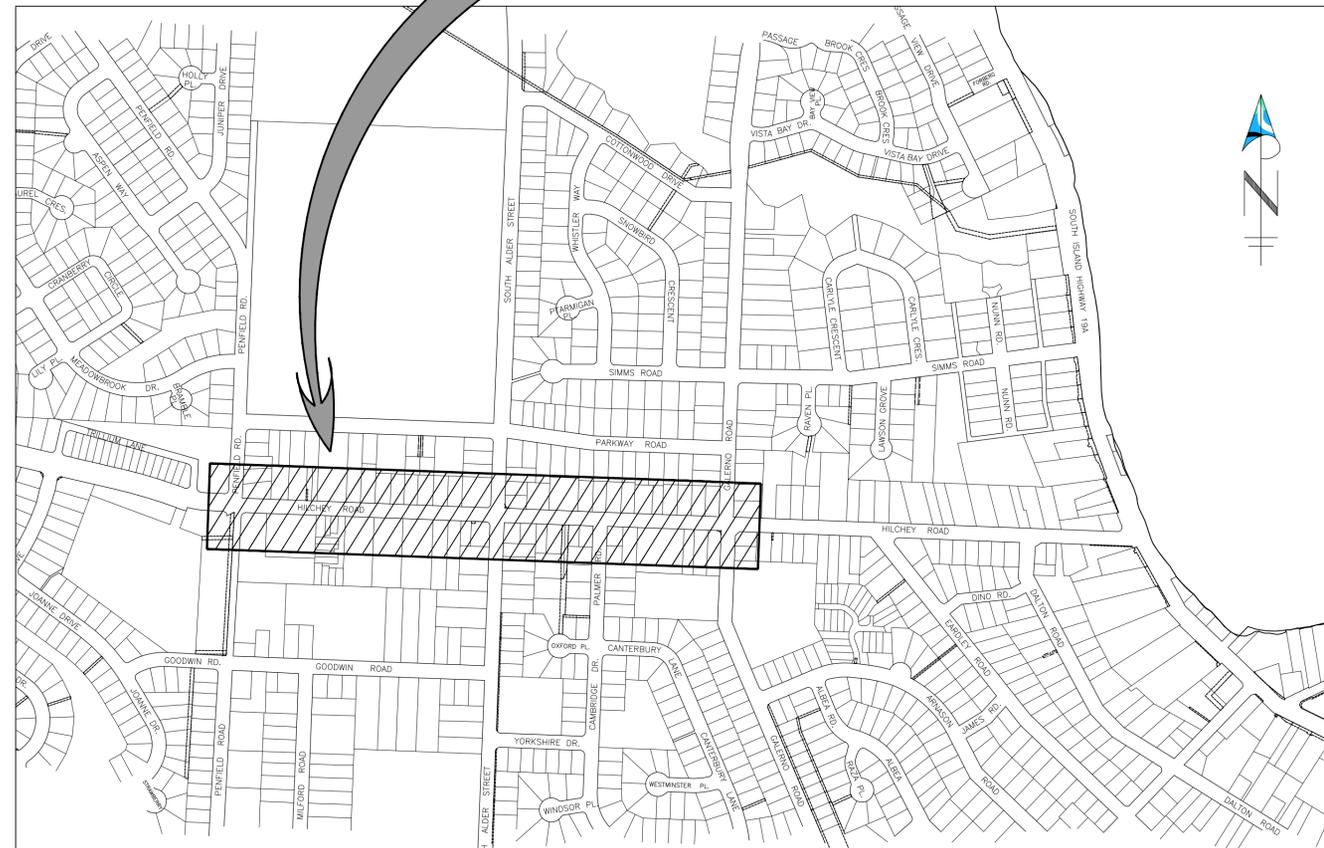
DRAWING INDEX	
COVER	DRAWING INDEX, KEY PLAN
SHEET 1	GENERAL NOTES & DETAILS, TIE IN SEQUENCING
SHEET 2	HILCHEY ROAD – PENFIELD ROAD TO S. ALDER STREET
SHEET 3	HILCHEY ROAD – S. ALDER STREET TO PALMER ROAD
SHEET 4	HILCHEY ROAD – PALMER ROAD TO GALERNO ROAD
SHEET 5	GALERNO ROAD – HILCHEY INTERSECTION AND TIE IN DETAILS
SHEET 5	HILCHEY ROAD – TIE IN DETAILS
SHEET 6	TRAFFIC CONTROL – CLEAR DRIVE LANE SCHEMATIC



City of
Campbell
River

Capital Works Department

SITE LOCATION



KEY PLAN

SCALE: 1:5000

GENERAL NOTES:

CITY OF CAMPBELL RIVER TENDER No. 20-02
CITY OF CAMPBELL RIVER FILE No. 16-01

EXISTING UTILITIES

LOCATIONS OF EXISTING UTILITIES SHOWN ARE DERIVED FROM FIELD SURVEY, AS CONSTRUCTED DRAWINGS AND THIRD PARTY SOURCES. THIS INFORMATION CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS, ELEVATIONS, PIPE SIZE AND PIPE TYPE OF ALL UTILITIES AT THE START OF THE CONTRACT AND INFORM THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCY.

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE MASTER MUNICIPAL SPECIFICATIONS (MMCD PLATINUM EDITION VOLUME II) AND STANDARD DETAIL DRAWINGS AND CITY OF CAMPBELL RIVER DESIGN STANDARDS (2010). WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING STRUCTURES OR SURFACE FEATURES TO ORIGINAL CONDITION OR BETTER FOLLOWING CONSTRUCTION.
- TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS UNDER THE JURISDICTION OF WORKSAFE BC.
- THE SUPPORT AND PROTECTION OF ALL THIRD PARTY UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION AND PROTECTING UTILITIES TO THE SATISFACTION OF THE RESPECTIVE OWNER. THE COST OF THIS PROTECTION IS CONSIDERED INCIDENTAL TO THE WORKS.

WATER MAIN

- FOR WATER MAIN SHUT DOWNS, THE CONTRACTOR MUST NOTIFY THE CONTRACT ADMINISTRATOR (MINIMUM 5 DAYS NOTICE REQUIRED) WHO WILL LIAISE WITH CITY'S WATER DEPARTMENT. ALL REQUIRED WATER MAIN ISOLATIONS WILL BE COMPLETED BY THE CITY'S WATER DEPARTMENT. ONCE THIS IS APPROVED, THE CONTRACTOR IS TO NOTIFY ALL AFFECTED WATER CUSTOMERS IN WRITING WITH A MINIMUM OF 72 HOURS NOTICE. PRIOR TO THE COMMENCEMENT OF ANY PLANNED SERVICE INTERRUPTIONS, EFFORTS TO BE MADE TO LIMIT ALL SHUT DOWNS TO THE HOURS OF 10AM TO 3PM.
- ALL NEW WATER WORKS SHALL BE INSTALLED, DISINFECTED, PRESSURE-TESTED, FLUSHED AND WITNESSED BY THE CONTRACT ADMINISTRATOR PRIOR TO CONNECTION TO THE CITY OF CAMPBELL RIVER WATER SYSTEM IN ACCORDANCE WITH CONTRACT DOCUMENTS AND SECTION 3.19 OF SECTION 33 11 01 AND THE AWWA STANDARD C651-14-DISINFECTING WATER MAINS AND THE CITY OF CAMPBELL RIVER SUPPLEMENTAL SPECIFICATIONS. THE MINIMUM TEST-PRESSURE TO BE APPLIED IS 1380 kPa AT THE LOW POINT OF THE TEST.
- PIPE RESTRAINTS TO BE UNI-FLANGE SERIES (1390 FOR C900 PVC AND 1400 FOR DUCTILE IRON) OR APPROVED EQUIVALENT AS PER THE CITY OF CAMPBELL RIVER APPROVED PRODUCTS LIST. T-BOLTS/STUDS TO BE HIGH STRENGTH, LOW ALLOY STEEL TO ANSI/AWWA C111/A21-11. CADMIUM PLATED RED-ROD IS NOT PERMITTED. ALL JOINTS TO BE RESTRAINED WHEN PERFORMING TIE IN TO EXISTING SYSTEM. CONTRACTOR TO SUBMIT SHOP DRAWING FOR JOINT RESTRAINT FOR APPROVAL PRIOR TO INSTALLATION.
- INSTALL NEW WATER SERVICE UP TO PROPERTY LINE COMPLETE WITH METER SETTER AND BROOKS BOX. TRANSFER CONNECTIONS TO EXISTING SERVICES UPON COMPLETION AND ACCEPTANCE OF ALL TESTS AND UNDER WITNESS BY CITY OF CAMPBELL RIVER DESIGNATE. NOTIFY RESIDENTS 72 HRS PRIOR TO SERVICE INTERRUPTION. NEW SERVICE LOCATIONS SHOWN SCHEMATICALLY. FINAL LOCATION TO BE LOCATED IN FIELD WITH CONTRACT ADMINISTRATOR.
- CONTRACTOR TO COMPLETE CONTINUITY TEST ON ALL TRACER WIRES IN THE PRESENCE OF THE CONTRACT ADMINISTRATOR OR DESIGNATE AFTER THE TRENCH BACK-FILLING HAS BEEN COMPLETED AND PRIOR TO PAVING IN ACCORDANCE WITH SS 33 11 01.
- WATER SERVICE PIPE TO BE AWWA C901-22 CL160 HDPE AND CONTINUOUS LENGTH BETWEEN CORPORATION STOP AND METER SETTER. MID-RUN COUPLINGS ARE NOT PERMITTED REFER TO DETAIL ON THIS SHEET. UNLESS NOTED OTHERWISE, SERVICES ARE TO BE 19mm DIAMETER.
- ONLY ROMAC MACRO HP OR ALPHA COUPLINGS SHALL BE USED FOR ALL CONNECTIONS TO EXISTING MAINS. HYMAX COUPLINGS WILL ONLY BE PERMITTED WHEN APPROVED BY THE CONTRACT ADMINISTRATOR.
- FIRE HYDRANT TO BE TERMINAL CITY C-71P MODEL.
- CATHODIC PROTECTION IS NOT REQUIRED.
- WRAP ALL WATER MAIN JOINTS WHERE JOINT IS WITHIN 3M HORIZONTALLY OR 0.5M VERTICALLY FROM ANY STORM OR SANITARY PIPE, MANHOLE, OR OTHER APPURTENANCE AS SHOWN ON DRAWINGS. WRAP TO BE PIPE JOINT PROTECTION PRODUCT PER CITY OF CAMPBELL RIVER APPROVED UTILITY PRODUCTS LIST AND IN ACCORDANCE WITH THE LATEST VERSION OF AWWA C217, AND AWWA C214 OR AWWA C209.
- FOR THRUST BLOCK DIMENSIONS REFER TO DRAWING CR-W1 AND CR-W10.
- MINIMUM COVER ON WATER MAIN TO BE 1.25m FROM FINISHED GRADE.

ROADS AND SITE IMPROVEMENTS

- BACKFILL MATERIALS AND REQUIREMENTS TO MMCD 2009 SPECIFICATIONS FOR ROADWAY STANDARDS. BACKFILL OF TRENCH SECTION WITH 75mm MINUS PIT RUN GRAVEL COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY BETWEEN PIPE ZONE AND THE ROAD WAY SUB-GRADE. REPORT UNSUITABLE GROUND CONDITION TO CONTRACT ADMINISTRATOR AND WHERE APPROVED, REMOVE AND REPLACE WITH PIT RUN AS PER ABOVE.
- CONTRACTOR IS REQUIRED TO MAINTAIN 2 WAY TRAFFIC ON SUITABLE TEMPORARY SURFACE AFTER EACH WORK DAY UNTIL FINAL PAVING IS COMPLETE.
- ASPHALT PAVING WILL BE UNDERTAKEN BY THE CITY'S PAVING CONTRACTOR. REFER TO SUPPLEMENTAL SPECS FOR DETAILS. ALL INTERSECTIONS TO BE PAVED AS SOON AS POSSIBLE TO MINIMIZE THE DURATION OF TRAFFIC DISRUPTION.
- TYPICAL PAVEMENT STRUCTURE AND LIMITS OF ASPHALT RESTORATION TO CONFORM WITH DETAILS ON THIS SHEET.

ENVIRONMENTAL PROTECTION AND TEMPORARY EROSION AND SEDIMENT CONTROL

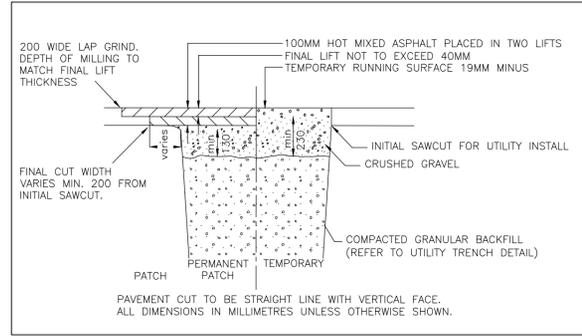
- MANUFACTURED SEDIMENT CONTROL DEVICES ARE TO BE EMPLOYED AT ALL CATCH BASINS WITHIN 50m OF THE SITE, AND ARE TO REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.
- LOW-INTENSITY ENVIRONMENTAL MONITORING BY THE CONTRACTOR WILL BE REQUIRED TO CONFIRM THAT THE ENVIRONMENTAL PROTECTION MEASURES ARE IN PLACE AND FUNCTIONING AS INTENDED.
- THE CONTRACTOR IS REQUIRED TO SUBMIT A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP) FOR APPROVAL IN ADVANCE OF THE WORK
- REFER TO CEMP FOR ALL MEASURES.

SURVEY CONTROL:

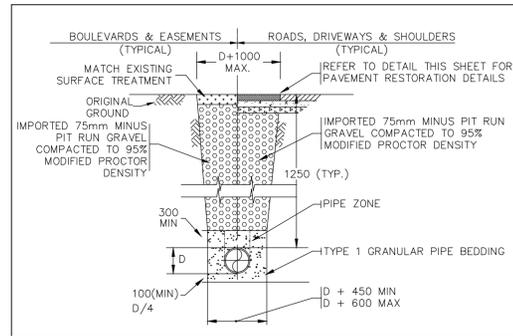
MONUMENTS:

MON 79H9028 (GCM NO 288241)
NORTHING = 5538003.395
EASTING = 340496.707
ELEVATION = 12.783m
LOCATED EAST OF THE INTERSECTION OF
EARDLEY ROAD AND HILCHEY ROAD.

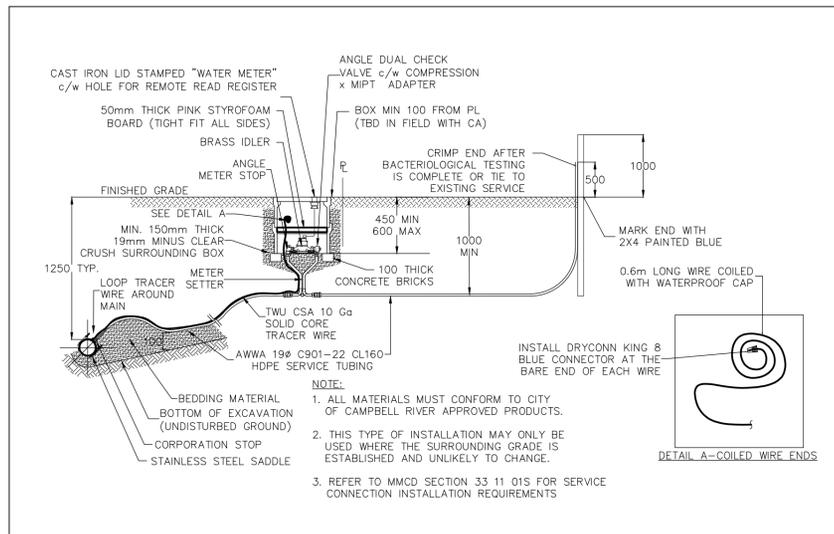
MON 95H2030 (GCM NO 946103)
NORTHING = 5538043.93
EASTING = 339599.241
ELEVATION = 33.941m
LOCATED AT THE INTERSECTION OF PENFIELD
ROAD AND HILCHEY ROAD.



PAVEMENT STRUCTURE REINSTATEMENT DETAIL
N.T.S.



TYPICAL UTILITY TRENCH
N.T.S.



TYPICAL WATER SERVICE CONNECTION
N.T.S.

ANTICIPATED TIE IN SEQUENCING:

THE FOLLOWING SEQUENCING APPLIES ONCE THE NEW MAIN HAS BEEN INSTALLED, AND ALL TESTING HAS BEEN COMPLETED ACCORDING TO THE CONTRACT DOCUMENTS AND TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.

GALERNO ROAD TO SOUTH ALDER STREET

- NORTH TIE IN TO EXISTING 150 PVC WATER MAIN ON SOUTH ALDER STREET. CCR TO CLOSE N. VALVE AT EXISTING MAIN, NOT TO BE RE-OPENED.
- NORTH TIE IN TO EXISTING 100 AC MAIN ON GALERNO. CCR TO CLOSE NORTH VALVE AT EXISTING MAIN, NOT TO BE RE-OPENED. NEW WATER MAIN AND EXISTING WATER MAIN NOW BOTH IN SERVICE WITH NEW MAIN LOOPED FROM GALERNO TO SOUTH ALDER.
- PERFORM SERVICE CHANGE-OVERS ON HILCHEY BETWEEN SOUTH ALDER AND GALERNO WHILE BOTH MAINS ARE IN SERVICE. AT MINIMUM, NEW HYDRANT AT PALMER ROAD TO BE INSTALLED AND COMMISSIONED PRIOR TO DEACTIVATING THE EXISTING AC MAIN IN THIS SECTION.
- CCR TO CLOSE EXIST MAIN LINE VALVES AT EAST SIDE OF ALDER, SOUTH VALVE AT PALMER ROAD, AND SOUTH VALVE ON GALERNO, NOT TO BE REOPENED. PERFORM EAST TIE IN AT GALERNO. EXISTING WATER MAIN BETWEEN ALDER AND GALERNO NOW ABANDONED. PERFORM REMAINDER OF HYDRANT INSTALLS IN THIS SECTION IF PREVIOUS CONFLICT WAS PRESENT WITH EXISTING WATER MAIN (DEPENDANT ON PRELOCATES)
- PERFORM SOUTH TIE IN AT GALERNO, AND SOUTH TIE IN AT PALMER.

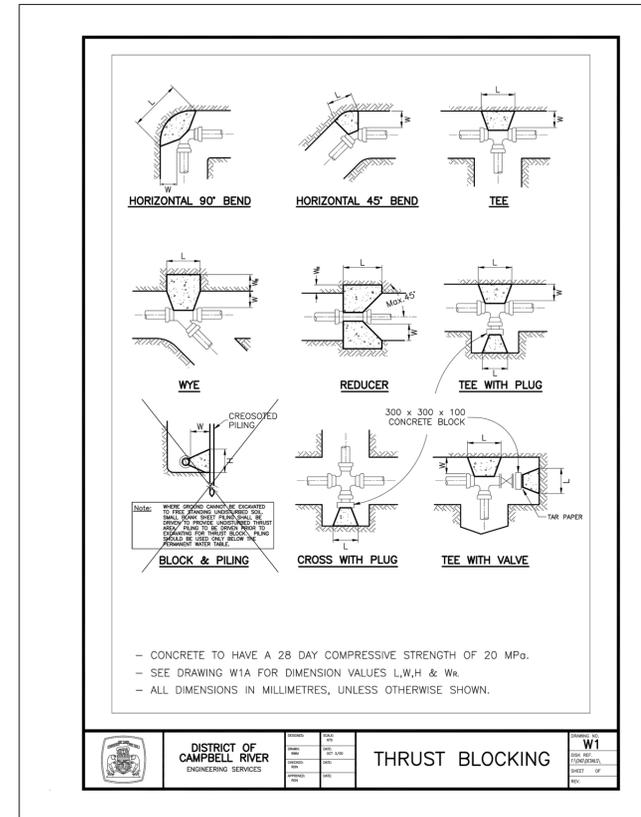
PENFIELD ROAD TO SOUTH ALDER

- EXISTING MAIN STILL IN SERVICE, NEW MAIN IN SERVICE AS DEAD END TO PENFIELD.
- PERFORM SERVICE CHANGEOVERS BETWEEN ALDER AND PENFIELD
- CCR TO CLOSE EXIST SOUTH WEST VALVES ON AC WATER MAIN AT ALDER, NOT TO BE REOPENED. PERFORM SOUTH TIE IN AT ALDER.
- PERFORM FINAL TIE IN AT PENFIELD.

TRAFFIC MANAGEMENT

A TRAFFIC MANAGEMENT PLAN IS TO BE DEVELOPED BY THE CONTRACTOR IN CONFORMANCE WITH S.S. 01 55 00.

- REFER TO SHEET 6 FOR TRAFFIC MANAGEMENT NOTES, AND SCHEMATIC OF CLEAR DRIVE LANE.



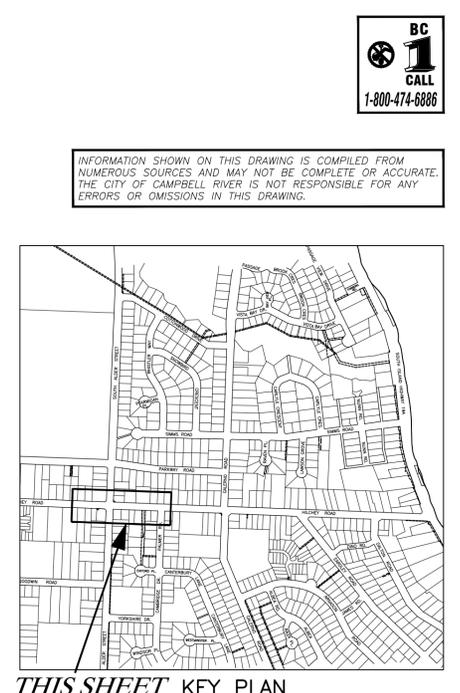
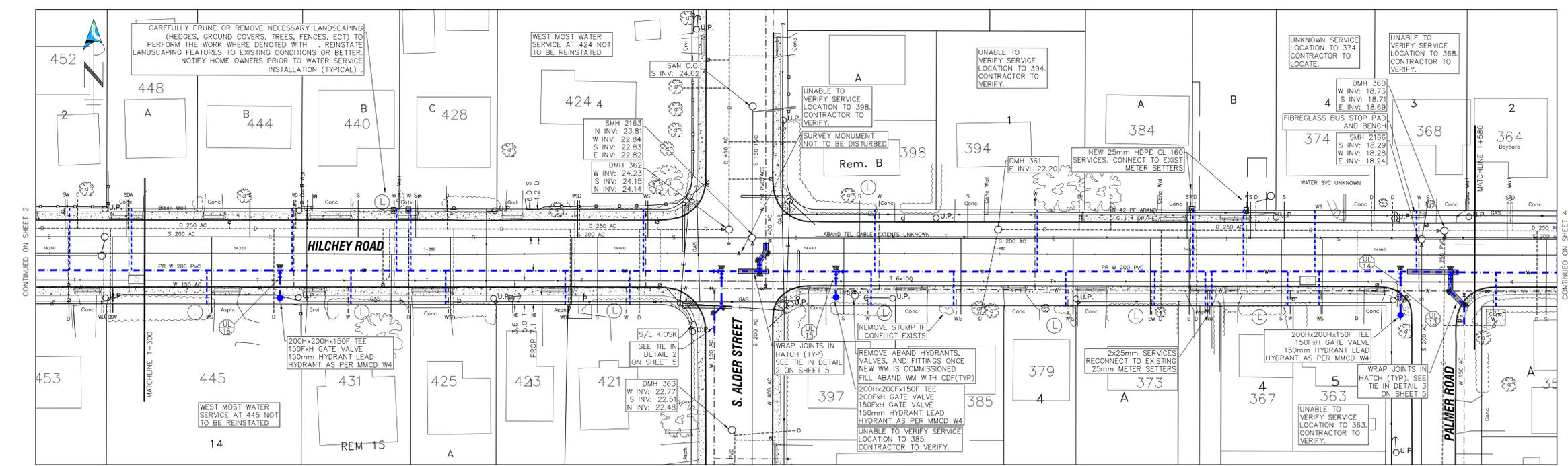
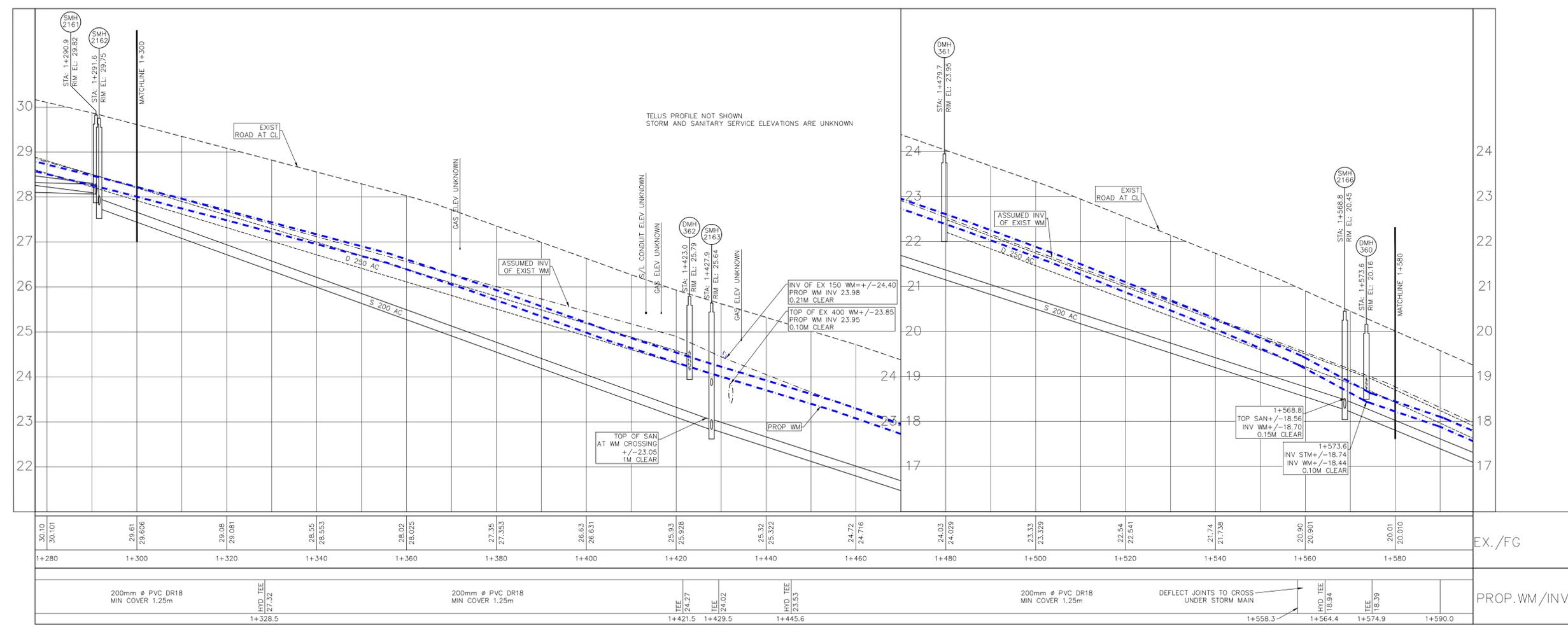
COPY-THRUST BLOCKING DETAIL W1
N.T.S.

ISSUED FOR TENDER

TEL	U/G TELEPHONE	TEL	S	SANITARY SEWER	S	O.D.	OPEN DITCH	O.D.	DESIGNED:	SCALE: H:1:500	<p>City of Campbell River Capital Works Department</p>	TITLE: HILCHEY ROAD GENERAL NOTES & DETAILS, TIE IN SEQUENCING WATERMAIN RENEWAL	DRAWING NO. 16-511 PROJECT: 16-01/2020 SHEET 1 OF 6 REV. 1
BCH	U/G HYDRO	BCH	D	STORM DRAIN	D	S.W.H.	SANITARY MANHOLE	S.W.H.	TM/DD	v:1:50			
GAS	NATURAL GAS	GAS	W	WATER MAIN	W	SIDE INLET	CATCH BASIN	SIDE INLET	TM	DATE:	CHECKED: DD DATE: 2020/05/11 APPROVED: JH DATE: 2020/05/20		
			P	PAVEMENT	P	HYD.	FIRE HYDRANT	HYD.					
			C	CURB & GUTTER	C	W.V.	WATER VALVE	W.V.					
				SIDEWALK		U.P.	UTILITY POLE	U.P.					
							THRUST BLOCK						

DRAWING PATH: G:\Capital Works\16-01 W\Replacements\Projects\2020\CC1 7802_HilcheyPh1(Colour toPenfield)\01-Design\B-Drawings\16-511.dwg Tab SHEET ONE May 29, 2020 10:00:13am

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THIS SHEET KEY PLAN
SCALE: 1:10,000

ISSUED FOR TENDER

NO.	REVISION	APP'D BY	DATE	CONSD BY	DATE
1	ISSUED FOR TENDER	DD	2020/05/25		

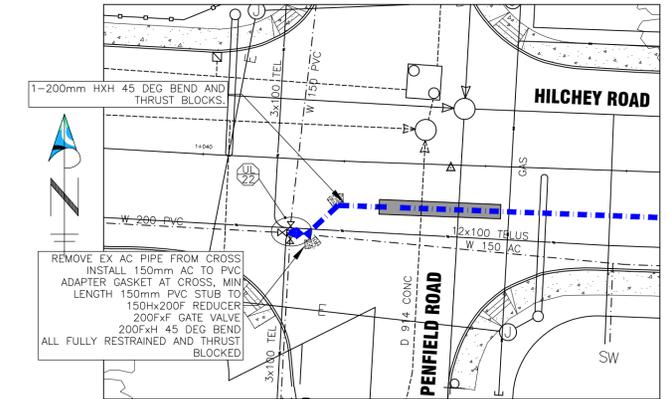
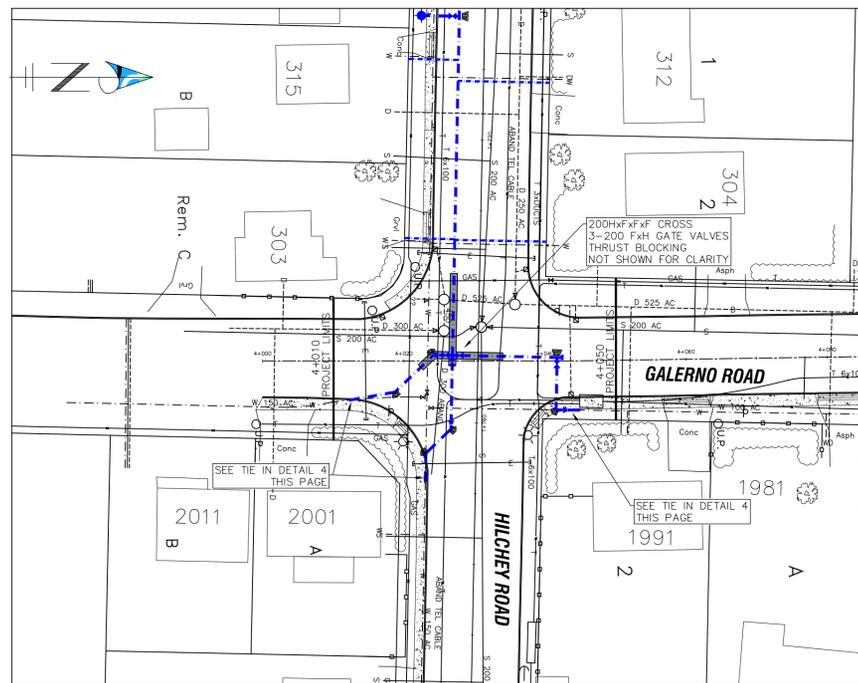
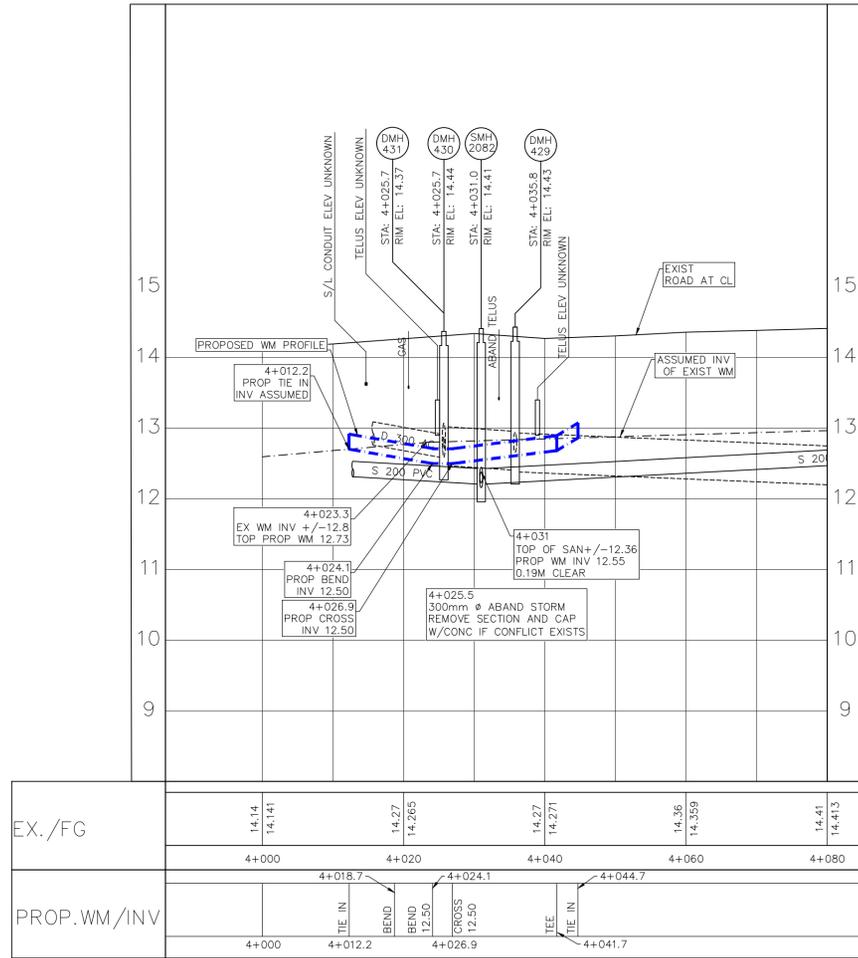
EXISTING	LEGEND	DESIGN	EXISTING	LEGEND	DESIGN
TEL	U/G TELEPHONE	TEL	S	SANITARY SEWER	S
BCH	U/G HYDRO	BCH	D	STORM DRAIN	D
GAS	NATURAL GAS	GAS	W	WATER MAIN	W
			P	PAVEMENT	P
			C	CURB & GUTTER	C
			S	SIDEWALK	S
			O.D.	OPEN DITCH	O.D.
			S.W.H.	SANITARY SEWER MANHOLE	S.W.H.
			S.T.D.	STORM DRAIN MANHOLE	S.T.D.
			TOP INLET	CATCH BASIN	TOP INLET
			HYD.	FIRE HYDRANT	HYD.
			W.V.	WATER VALVE	W.V.
			U.P.	UTILITY POLE	U.P.
				THRUST BLOCK	

DESIGNED: TM/DD
SCALE: H:1:500
V:1:50
DRAWN: TM
DATE: 2020/05/11
CHECKED: DD
DATE: 2020/05/20
APPROVED: JH
DATE: Y1/MM/DD

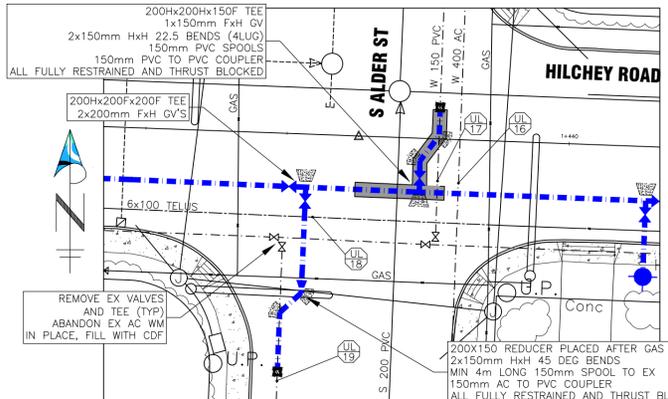
City of Campbell River
Capital Works Department

TITLE:	HILCHEY ROAD SOUTH ALDER STREET - PALMER ROAD WATERMAIN RENEWAL	DRAWING NO. 16-511
PROJECT:	16-01/2020	SHEET 3 OF 6
REV.	1	

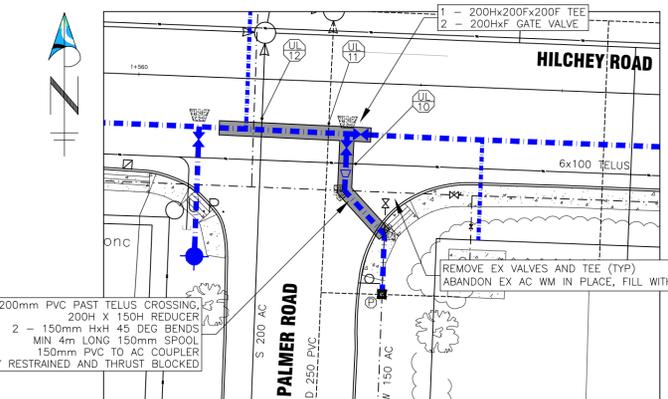
DRAWING PATH: G:\Capital Works\1-Projects\1-Current\16-01 WMReplacement\Projects\2020\CCT 7802 HilcheyPh\1-Design\16-01-Drawings\16-511.dwg Tab SHEET THREE May 29, 2020 9:58:41 am



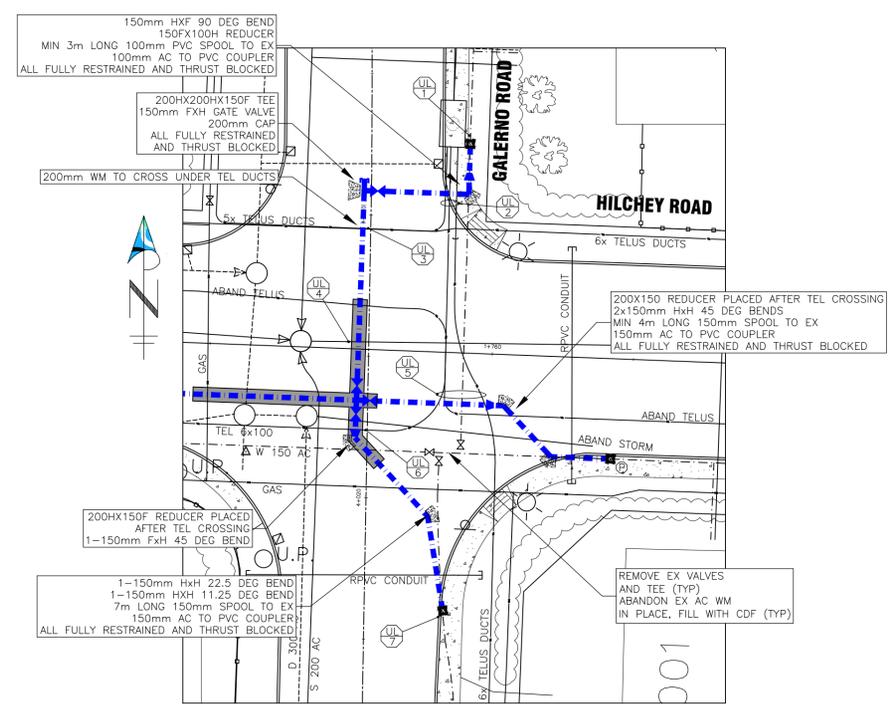
1 WATERMAIN CONNECTION DETAIL
1:250



2 WATERMAIN CONNECTION DETAIL
1:250



3 WATERMAIN CONNECTION DETAIL
1:250

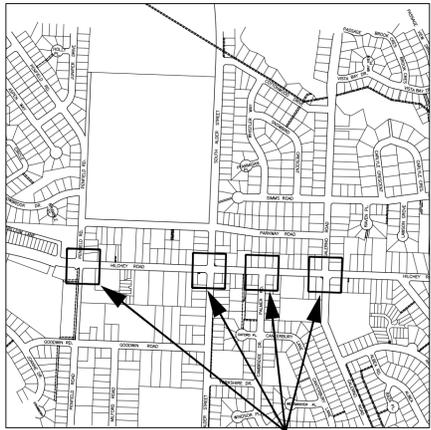


4 WATERMAIN CONNECTION DETAIL
1:250

WATERMAIN FITTING/TIE IN NOTES

- THRUST BLOCKS FOR ALL FITTINGS TO MMCD W1 AND CR-W1 AND CR-W1-A. THRUST BLOCKS ARE REQUIRED ON VERTICAL BENDS.
- ALL FITTINGS ARE TO BE MECHANICALLY RESTRAINED. SEE GENERAL NOTE 7 ON SHEET ONE REGARDING MECHANICAL RESTRAINTS
- SEE GENERAL NOTE 11 ON SHEET ONE REGARDING COUPLERS AT TIE INS
- TEMPORARY BLOW OFFS/TEST POINTS ARE NOT SHOWN

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KEY PLAN THIS SHEET
SCALE: 1:10,000

ISSUED FOR TENDER

TEL	U/G TELEPHONE	TEL	S	SANITARY SEWER
BCH	U/G HYDRO	BCH	D	STORM DRAIN
GAS	NATURAL GAS	GAS	W	WATER MAIN
			P	PAVEMENT
			C	CURB & GUTTER
			S	SIDEWALK

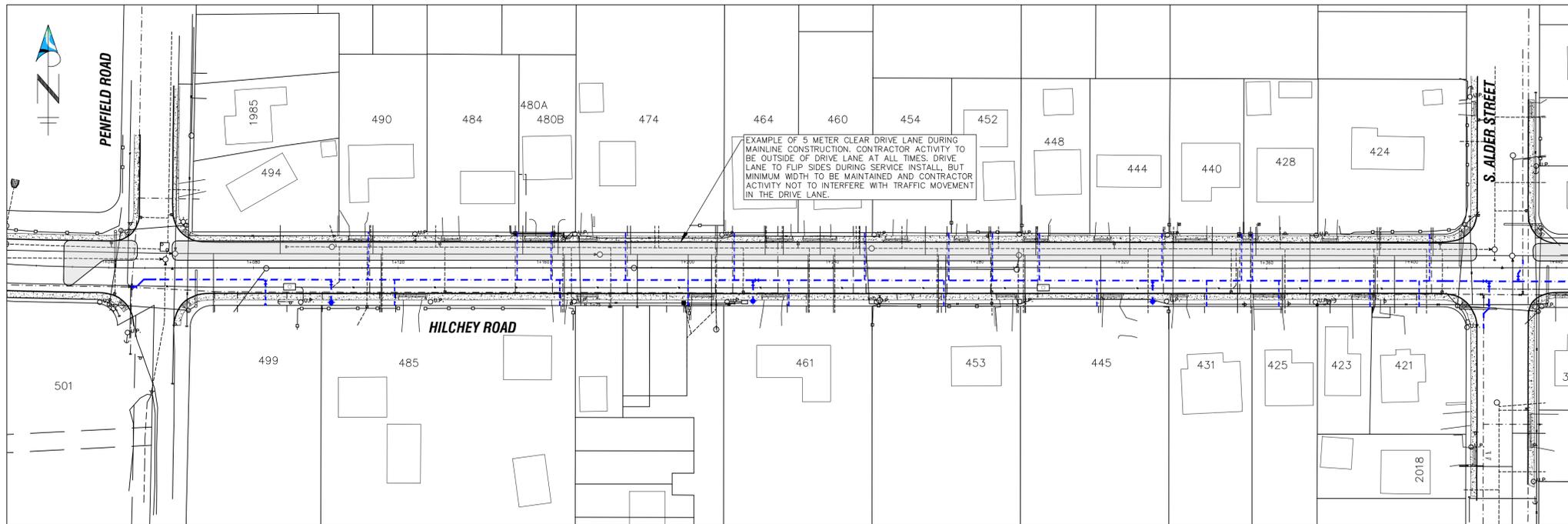
S.W.H.	OPEN DITCH	S.W.H.	O.D.	OPEN DITCH
SIDE INLET	TOP INLET	SIDE INLET	TOP INLET	TOP INLET
HYD.	FIRE HYDRANT	HYD.	HYD.	HYD.
W.V.	WATER VALVE	W.V.	W.V.	WATER VALVE
U.P.	UTILITY POLE	U.P.	U.P.	UTILITY POLE
	THRUST BLOCK			

DESIGNED: TM/DD
SCALE: H:1:500
V:1:50
DRAWN: TM
DATE: 2020/05/11
CHECKED: DD
DATE: 2020/05/20
APPROVED: JH
DATE: Y1/MM/DD

TITLE:	GALERNO ROAD HILCHEY ROAD - TIE IN DETAILS WATERMAIN RENEWAL	DRAWING NO. 16-511
PROJECT:	16-01/2020	SHEET 5 OF 6
REV.	1	

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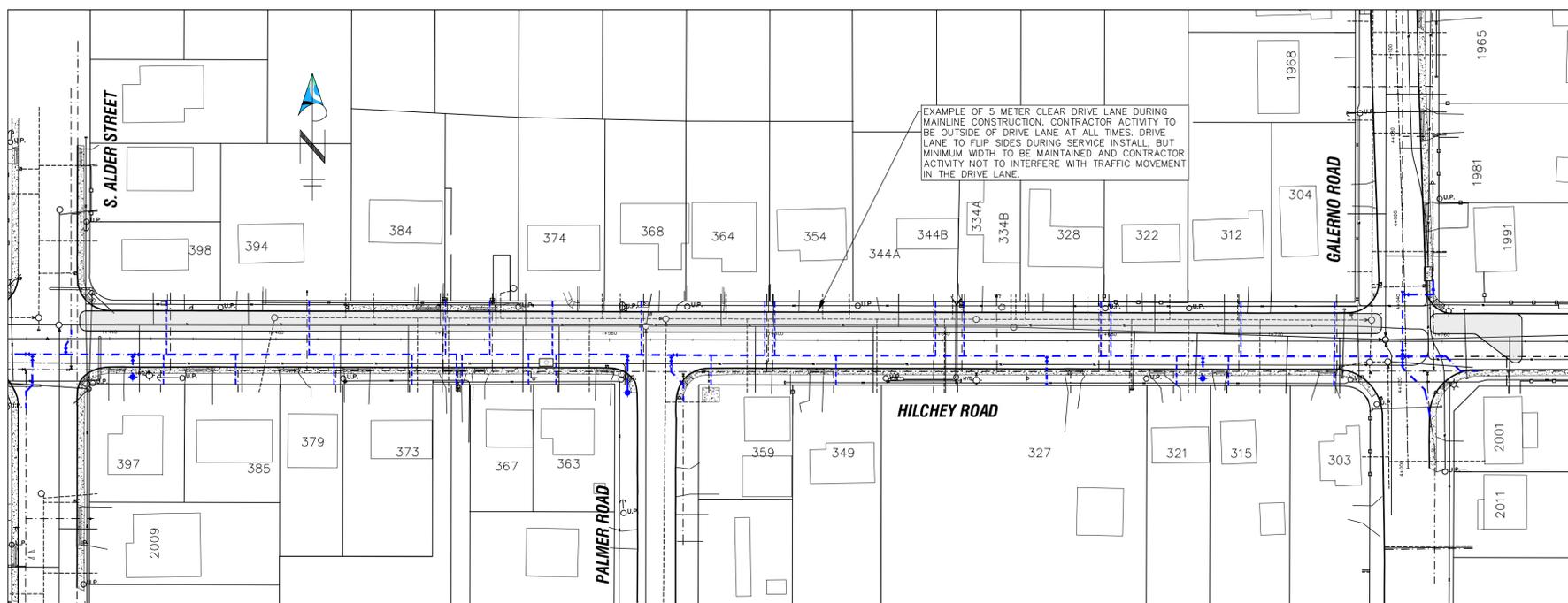
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TRAFFIC MANAGEMENT

- A TRAFFIC MANAGEMENT PLAN IS TO BE DEVELOPED BY THE CONTRACTOR IN CONFORMANCE WITH S.S. 01 55 00.
1. TEMPORARY NO PARKING SIGNS ARE TO BE SUPPLIED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR TO ELIMINATE ON STREET PARKING DURING WORK HOURS.
 2. A MINIMUM 5M WIDTH CLEAR DRIVE LANE MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED ACTIVITIES REMAIN CLEAR OF THIS 5M MINIMUM CLEAR DRIVE LANE AT ALL TIMES.
 3. AT MINIMUM, ALTERNATING SINGLE LANE TRAFFIC MUST BE MAINTAINED AT ALL TIMES. TRAFFIC QUEUING IS REQUIRED TO BE MAINTAINED AT INTERVALS THAT ARE NOT TO EXCEED THREE MINUTES AT ANY TIME.
 4. ESSENTIAL SERVICES SUCH AS BUSES AND GARBAGE PICKUP REQUIRE THAT ACCESS BE MAINTAINED AT ALL TIMES.
 5. EMERGENCY AND DELIVERY ACCESS IS TO BE MAINTAINED TO ALL ADDRESSES AT ALL TIMES.

HATCHED AREA DEPICTS MIN. CLEAR DRIVE LANE FOR MAINLINE INSTALL.



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THIS SHEET KEY PLAN
SCALE: 1:10,000

ISSUED FOR TENDER

TEL U/G TELEPHONE BCH U/G HYDRO GAS NATURAL GAS		TEL BCH GAS		S SANITARY SEWER D STORM DRAIN W WATER MAIN P PAVEMENT C CURB & GUTTER SIDEWALK		S SIDE INLET W TOP INLET HYD. W.V. U.P.		O.D. OPEN DITCH S.W.H. SANITARY SEWER MANHOLE CATCH BASIN FIRE HYDRANT WATER VALVE UTILITY POLE THRUST BLOCK		O.D. S.W.H. SIDE INLET TOP INLET HYD. W.V. U.P.		DESIGNED: TM/DD DRAWN: TM CHECKED: DD APPROVED: JH	SCALE: H:1:750 v. DATE: 2020/05/11 DATE: 2020/05/20 DATE: YY/MM/DD	City of Campbell River Capital Works Department	TITLE: HILCHEY ROAD TRAFFIC CONTROL-CLEAR DRIVELANE SCHEMATIC WATERMAIN RENEWAL	DRAWING NO. 16-511 PROJECT: 16-01/2020 SHEET 6 OF 6 REV. 1
1	ISSUED FOR TENDER	DD	2020/05/25													

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DRAWING PATH: G:\Capital Works\1-Projects\16-01_WWReplacement\Projects\2020\CC1_7802_HilcheyPh1(Colour\Penfield)\01-Design\B-Drawings\16-511.dwg Tab SHEET SIX May 29, 2020 9:56:37am DESTROY PRINTS OF PREVIOUS REVISION