



KERR WOOD LEIDAL
consulting engineers

Okanagan
202 - 3334 30th Avenue
Vernon, BC V1T 2C8
T 250 503 0841
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Specifications

42nd Avenue Watermain Replacement

Reference No. 2017-E372.16.1

July 2017

KWL Project No. 773.158

Prepared for:

Regional District of North Okanagan



1. Documents that are provided include:
 - Invitation to Tender
 - Instructions to Tenderers
 - 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
 - Form of Agreement
 - Schedule 1, Schedule of Contract Documents
 - Schedule 2, List of Drawings
 - Supplementary General Conditions – Part I Issued by MMCD
 - Supplementary General Conditions – Part II Project Specific
 - Supplementary Specifications - Part I – Issued by MMCD
 - Supplementary Specifications - Part II – Project Specific
 - Supplementary Specifications – Part III – Payment
 - Supplementary Standard Detail Drawings – Part I – Issued by MMCD
 - Drawings
2. Standard Documents not included, but referred to as part of the Tender Documents (available in the “MMCD – General Conditions, Specifications and Standard Detail Drawings”)
 - Instructions to Tenderers, Part II
 - General Conditions
 - Specifications
 - Standard Detail Drawings



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Invitation to Tender

The work of this contract generally comprises the following:

The scope of works consists of:

- installation of 83 m of 250 mm diameter watermain by pipe bursting,
- 3 water service installations to the property line,
- new hydrant assembly, and
- watermain tie ins.

The contractor may wish, upon approval of the owner, to employ alternate methods of construction for this project.

Tender documents are available online (ftp site) only. Tenderers are invited to contact Kerr Wood Leidal Assoc. Ltd. at 202 – 3334 30th Avenue, Vernon, BC V1T 2C8, or by phone at 250-503-0841 attention **Rhondda Ransom** for inclusion to the bidders list and for details on how to access online documents. Tenderers are advised to check the FTP site regularly for addenda and updates. It is the contractor's responsibility to ensure that all addenda issued on the FTP site are included in the contractor's tender.

Key Dates

Pre-Tender Site Meeting (Optional): August 15, 2017 at 10:00 am

Tender Enquiries Deadline: August 22, 2017 at 3:00 pm, otherwise may not be addressed

Tender Closing: August 28, 2017 at 2:00 pm local time

Assumed Notice to Proceed:..... September 5, 2017

Substantial Performance: May 31, 2018

Sealed tenders clearly marked:

**42nd Avenue Watermain Replacement
REFERENCE NO. 2017-E372.16.1**

will be received at:

**Regional District of North Okanagan
Attn: Mr. John Lord
9848 Aberdeen Road
Coldstream, BC V1B 2K9**

Each tender must be accompanied by a bid security conforming to MMCD Platinum Edition *Instructions to Tenderers - Part II* in the amount of 10% of the tendered price. The lowest or any tender will not necessarily be accepted.

Tenders will be opened in public at the *Tender Closing* time and location noted above.

Project Award is Subject to Funds Being Legally Available

For more information, please contact:

Kerr Wood Leidal Associates Ltd.
Ron Serne,
Contract Administrator
202 – 3334 30th Avenue
Vernon, BC V1T 2C8
Office: 250-503-5815
Fax: 250-503-0847



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Instructions to Tenderer

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

**(TO BE READ WITH “INSTRUCTIONS TO TENDERERS - PART II”
CONTAINED IN THE EDITION OF THE PUBLICATION
“MASTER MUNICIPAL CONSTRUCTION DOCUMENTS” SPECIFIED IN ARTICLE 2.2 BELOW)**

Owner: **Regional District of North Okanagan**

Contract: **42nd Avenue Watermain Replacement**

Reference No. **2017-E372.16.1**

(Owner's Contract Reference Number)

1. Introduction

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

- installation of 83 m of 250 mm diameter watermain by pipe bursting,
- 3 water service installations to the property line,
- new hydrant assembly, and
- watermain tie ins.

The contractor may wish, upon approval of the owner, to employ alternate methods of construction for this project.

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

Contract Administrator

Address: **Kerr Wood Leidal Associates Ltd.**
Ron Serne, Contract Administrator
202 – 3334 30th Avenue
Vernon, BC V1T 2C8
Office: 250-503-5815
Fax: 250-503-0847

2. Tender Documents

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 *Contract Drawings*”.

2.2. A portion of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled ‘Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings’. Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the

Tender Closing Date. All sections of this publication are by reference included in the *Contract Documents*.

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

3. Submission of Tenders

- 3.1. Tenders must be submitted in a sealed envelope, marked on the outside with the above *Contract* Title and Reference No., and must be received by the office of:

Regional District of North Okanagan

on or before Tender Closing Time and Date:

Refer to Key Dates noted on Invitation to Tender

at: **Regional District of North Okanagan**
Mr. John Lord
9848 Aberdeen Road
Coldstream, BC V1B 2K9

Fax: **250-550-3701**

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

4. Supplemental Instructions to Tenderers

- 4.1. Workers Compensation Regulations
- .1 Refer to General Conditions Item 21.0 – Workers Compensation Regulations. The contractor shall be “Prime Contractor” under the terms of the contract.
 - .2 The contractor shall at all times ensure coordination of their Health and Safety Program with all other employers/employees in the *Place of the Work*. Specific attention must be given to:
 - Regional District of North Okanagan,
 - Consultant,
 - Contractors or subcontractors of the above, and,
 - any other employer/employee in the work area.
 - .3 The contractor is responsible for an approved Erosion and Sediment control plan in accordance with industry standards.
 - .4 When the *Place of the Work* becomes a ‘multi-employer workplace’ the contractor shall retain the “Prime Contractor” status in all cases.
 - .5 All entrances to the *Place of the Work* should be posted with signage indicating who the Prime Contractor is and that all visitors and other employers/employees shall report to the Prime Contractor prior to undertaking any works on the project.

- 4.2. Coordination with Utilities
 - .1 The Contractor shall be responsible for coordinating and scheduling with all the utility companies
- 4.3. Pre-Work Site Inspection
 - .1 Prior to commencing any construction, the Contractor shall undertake a photographic/video record of the project site with specific emphasis on the condition of the roads accessing the site.
 - .2 A complete copy of the photographic/video record is to be provided to the Contract Administrator after the inspection and shall become the record of condition of the project prior to construction.
 - .3 The pre-construction inspection will be undertaken with the Contract Administrator's representative present.
- 4.4. Control, Construction and Record Survey
 - .1 Digital survey control and digital construction details for layout will be provided by the Contract Administrator to the Contractor.
 - .2 Layout required for the work is the responsibility of the Contractor. The Contractor shall ensure that sufficient layout and checks are undertaken to perform the work.
 - .3 The Contractor shall provide quantity surveys during construction. The Contractor shall provide the Contract Administrator all survey information gathered by the Contractor to verify quantities.
 - .4 A record survey of infrastructure ultimately installed shall be maintained by the contractor and submitted to the Contract Administrator no later than Substantial Performance.
 - .5 As part of the record survey the contractor shall provide invert elevations and locations of all structures, fittings, appurtenances, service connections, valves and tie-ins.
- 4.5. Assumed Notice of Award
 - .1 The Assumed Notice of Award date as detailed in the Invitation to Tender is an assumed date that shall be used to equitably adjust the Contract Time. It is intended that the duration of the contract will remain unchanged, whereas contract start and Milestone/Substantial Performance dates will be changed accordingly.
 - .2 Should the Notice of Award be issued on a day other than the Assumed Notice of Award date the Contract shall be equitably adjusted by Change Order to account for the difference in dates



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Form of Tender

To Owner:

**WE, THE
UNDERSIGNED:**

- 1 1.1 have received and carefully reviewed all of the *Contract Documents*, including the Instructions to Tenderers, the specified edition of the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings" and the following Addenda:

(ADDENDA, IF ANY)

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

**ACCORDINGLY WE
HEREBY OFFER:**

- 2 2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and
2.2 to achieve Substantial Performance of the *Work* on or before the date of Substantial Performance as stated under 'Key Dates' on the 'Invitation to Tender'
2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes *GST*.

WE CONFIRM:

- 3 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.

WE CONFIRM:

- 4 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.

WE AGREE:

- 5 5.1 that this tender will be irrevocable and open for acceptance by the Owner for a period of **30** calendar days from the day following the Tender Closing Date and Time, even if the tender of another tenderer is accepted by the Owner. If within this period the Owner delivers a written notice ("Notice of Award") by which the Owner accepts our tender we will:
5.1.1 within **15** Days of receipt of the written *Notice of Award* deliver to the *Owner*.

- a) a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the *Contract Price*, covering the performance of the *Work* including the *Contractor's* obligations during the *Maintenance Period*, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;
- b) a *Baseline Construction Schedule*, as provided by GC 4.6.1;
- 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 and any Supplementary GCs indicating that all such insurance coverage is in place and;

5.1.2 within 2 *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and

5.1.3 sign the Contract Documents as required by GC 2.1.2.

WE AGREE:

6

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

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

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

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

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

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

OUR ADDRESS IS:

Phone: ____ - ____ - ____

Fax: ____ - ____ - ____

Email: _____

Attention: _____

This Tender is executed this

____ day of _____, 2017

Contractor.

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Tenderer's Initials _____

Appendix 1
SCHEDULE OF QUANTITIES AND PRICES
(See paragraph 5.3.2 of the Instructions to Tenderers - Part II)

(All prices and *Quotations* including the *Contract Price* shall not include the GST. GST shall be shown separately.)

(All prices and *Quotations* including the *Contract Price* shall not include the GST. GST shall be shown separately.)

Summary Sheet

Division 01: General Requirements	\$ _____
Division 33: Utilities	\$ _____
TENDER PRICE	\$ _____
GST @ 5%	\$ _____
TOTAL TENDER PRICE (including GST)	\$ _____

Tenderer's Initials _____

FORM OF TENDER
Appendix 1 - Schedule of Quantities and Prices
(See paragraph 5.3.2 of the Instructions to Tenderers - Part II)
(All prices & Quotations including the Contract Price shall not include GST. GST shall be shown separately)

42nd AVENUE WATERMAIN REPLACEMENT
Reference No. 2017-E372.16.1

Div.	Section	Sup. Spec.	Description of Work	Unit	Est. Qty.	Unit Price	Total (\$)	
01 GENERAL REQUIREMENTS								
		1	Mobilization and Demobilization	Lump Sum	100%			
		2	Bonding and Insurance	Lump Sum	100%			
01	33	01	1	Project Record Documents	Incidental	100%		
01	42	00	1	Reference Specifications	Incidental	100%		
01	51	01	1, 2	Temporary Utilities and Lighting	Incidental	100%		
01	52	01	1	Temporary Structures	Incidental	100%		
01	53	01	1	Temporary Facilities	Incidental	100%		
01	55	00	1, 2	Traffic Control, Vehicle Access and Parking	Incidental	100%		
01	57	01	1, 2, 3	Environmental Protection	Incidental	100%		
01	72	10	1	Project Record Documents	Incidental	100%		
Subtotal 31 Earth Works								
33 UTILITIES								
33	11	01	Waterworks					
33	05	23	1, 2	Watermains - 250 mm dia. DR 18 Fusible PVC or approved equal by Pipe Bursting	L.S.	100%		
			1, 2	Watermains -12 m, 200 mm dia. DR 18 C900 PVC Pipe.	L.S.	100%		
			1, 4	Water Service 19 mm : Muncipex (excavation, pipe, saddle, corp stop, curbstop, connections, all reinstatements including asphalt, concrete, etc.)	each	3		
			1, 14	Hydrant Assembly c/w Storz Connection including valve, 150 mm DR18 PVC pipe, tee or approved equal installed (includes restraints from main).	each	1		
			1, 13	Tie-In Main at Alexis Park Drive. (Includes removals and Restraints as shown on Drawings).	each	1		
			1, 13	Tie-In Main at 35A Street. (Includes removals and Restraints as shown on Drawings).	each	1		
			1, 16	Testing and Commissioning	Lump Sum	100%		
Subtotal 33 Utilities								
SUBTOTAL ITEMS - All Divisions and Optional Items (Excluding GST)								
GST								
TOTAL								

Tenderers Initials _____

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

Name: _____

Experience:

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Tenderer's Initials _____



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Agreement

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

BETWEEN *OWNER* AND *CONTRACTOR*

This agreement made in duplicate this

_____ day of _____, 2017.

Contract Title: **42nd Avenue Watermain Replacement**

Reference No. **2017-E372.16.1**

BETWEEN:

The **Regional District of North Okanagan**
9848 Aberdeen Road
Coldstream, BC V1B 2K9

(the "*Owner*")

AND:

(NAME AND OFFICE ADDRESS OF CONTRACTOR)

(the "*Contractor*")

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

- | | | | |
|------------------|--|-----|--|
| Article 1 | The Work Start / Completion Dates | 1.1 | The <i>Contractor</i> will perform all <i>Work</i> and provide all labour, equipment and material and do all things strictly as required by the <i>Contract Documents</i> . |
| | | 1.2 | The <i>Contractor</i> will commence the <i>Work</i> in accordance with the <i>Notice to Proceed</i> . The <i>Contractor</i> will proceed with the <i>Work</i> diligently, will perform the <i>Work</i> generally in accordance with the construction schedules as required by the <i>Contract Documents</i> and will achieve <i>Substantial Performance</i> of the <i>Work</i> on or before May 31, 2018 , subject to the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i> . |
| | | 1.3 | Time shall be of the essence of the <i>Contract</i> . |

-
- Article 2 Contract Documents**
- 2.1 The "*Contract Documents*" consist of the documents listed or referred to in Schedule 1, entitled "Schedule of Contract Documents", which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the *Contract Documents*. All of the *Contract Documents* shall constitute the entire *Contract* between the *Owner* and the *Contractor*.
- 2.2 The *Contract* supersedes all prior negotiations, representations or agreements, whether written or oral, and the *Contract* may be amended only in strict accordance with the provisions of the *Contract Documents*.
- Article 3 Contract Price**
- 3.1 The price for the *Work* ("*Contract Price*") shall be the sum in Canadian dollars of the following
- 1.1.1 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 unit prices listed in the *Schedule of Quantities and Prices*; plus
- 1.1.2 all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus
- 1.1.3 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 thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.
- 5.2 Except as specifically set out in the *Contract Documents*, no action or failure to act by the *Owner*, *Contract Administrator* or *Contractor* shall constitute a waiver of any of the parties' rights or duties afforded under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

Article 6 Notices

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

The *Owner*:

Regional District of North Okanagan
9848 Aberdeen Road
Coldstream, BC V1B 2K9
Phone:
Fax:
Attention:

The *Contractor*:

Phone:
Fax:
Attention:

The *Contract Administrator*:

Kerr Wood Leidal Associates Ltd.
Ron Serne, Contract Administrator
202 – 3334 30th Avenue
Vernon, BC V1T 2C8

Phone: 250-503-5815
Fax: 250-503-0847
Attention: Ron Serne, Contract Administrator

- 6.2 A communication or notice that is addressed as above shall be considered to have been received
- 1.1.4 immediately upon delivery, if delivered by hand; or
 - 1.1.5 immediately upon transmission if sent by fax and received in hard copy; or
 - 1.1.6 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 assumes all risk that the fax is received in hard copy.

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:

(Full Legal Name of Corporation, Partnership or Individual)

(Authorized Signatory)

(Authorized Signatory)

Owner:

Regional District of North Okanagan

(Full Legal Name of Corporation, Partnership or Individual)

(Authorized Signatory)

(Authorized Signatory)

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

Schedule 1
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”, Platinum edition dated 2009. All sections of this publication are included in the *Contract Documents*.

- 8.1 Agreement, including all Schedules;
- 8.2 Supplementary General Conditions, Part I and Part II;
- 8.3 General Conditions*;
- 8.4 Supplementary Specifications, Part I, Part II and Part III;
- 8.5 Specifications*;
- 8.6 Supplementary Standard Detail Drawings, Part I and Part II;
- 8.7 Standard Detail Drawings*;
- 8.8 Executed Form of Tender, including all Appendices;
- 8.9 *Contract Drawings* listed in Schedule 2 to the Agreement, –“List of *Contract Drawings*”;
- 8.10 Instructions to Tenderers - Part I;
- 8.11 Instructions to Tenderers - Part II*;
- 8.12 The following Addenda:

(ADDENDA, IF ANY)

Schedule 2 -
Schedule of
Contract Drawings

(COMPLETE LISTING OF ALL DRAWINGS, PLANS AND SKETCHES WHICH ARE TO FORM A PART OF THE CONTRACT, OTHER THAN STANDARD DETAIL DRAWINGS AND SUPPLEMENTARY STANDARD DETAIL DRAWINGS).

Title	Drawing No.
Location Plan, Notes, Watermain Plan and Details	C-101



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Supplementary General Conditions Part I – Issued by MMCD

The following Supplemental Updates are MMCD issued updates. Contained within each MMCD issued Supplemental Update are a number of specific sections of the contract affected by changes. The specific sections providing change include the following:

1. Supplementary General Conditions
2. Supplementary Specifications
3. Supplementary Standard Details Drawings
4. Supplementary Form

A complete list of all the specific Supplementary General Conditions providing change complete with each change are detailed below. These specific sections, complete with each change, are to form part of the contract.

Detailed descriptions for each change are not included in this document however the detailed descriptions can be found on the MMCD website under Platinum Edition Documents. Bidders are deemed to have visited the MMCD website and have reviewed and understand the detailed descriptions.

Reference: MMCD Supplemental Update 2009 -11-19

Supplementary General Conditions

GC 7.1.3S	2009-007
GC 3.4.5S	2009-010

Reference: MMCD Supplemental Update 2010-03-25

Supplementary General Conditions

GC 2.2.4(i)S	2010-001
GC 4.6.2S	2010-002
GC 4.6.6S	2010-004
GC 9.4S	2010-005
GC 12.2.2S	2010-006
GC 13.9.1S	2010-007
GC 24.1.5S	2010-008

Reference: MMCD Supplemental Update 2010-05-18

GC 1.39.1S	2010-011 Notation about HST
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Reference: MMCD Supplemental Update PVC C900 Pipe Specification Clarification

Letter - Thickened bell end defined and required

Reference: MMCD Supplemental Update 2011-08-04

Supplementary General Conditions

GC 7.1.3S	2011-009
GC 1.30S	2011-010
IT 17.1S	2011-011
IT 4S	2011-012
Section 3 6.5.1S	2011-013 Volume 1 - Users Guide
Section 3 6.5.1S	2011-014 [Electronic Edition] - Volume1 - Users Guide
Section 3 9.7.1S	2011-015 Volume 1 - Users Guide
Section 4 6.8.1S	2011-016 Volume 1 - Users Guide
33 11 01 – 2.2.2.2S	2011-017

Reference: MMCD Supplemental Update 2012-05-30

Supplementary General Conditions
GC 13.9.1(1)S 2012-001

Reference: MMCD Supplemental Update 2012-08-07

Supplementary General Conditions
GC 9.4.3 2012-023
GC 17.5.2.2 2012-024
GC 11.1.1 (4) 2012-025

Reference: MMCD Supplementary Update 2013-06-13

Supplementary General Conditions
GC 18.2.2 2013-01 (date noted as 2013-06-18)
GC 18.6.3(1) 2013-02 (date noted as 2013-06-18)
GC 24.1(2) 2013-04
GC 24.1(2) 2013-05
GC 24.1(5) 2013-06
GC 24.1.5 2013-07
GC 4.7.1 2013-19

Supplementary Form
Form 15 Statutory Declaration 2013-0

- Supplementary Update 2014-02-28
- Supplementary Update 2014-07-15
- Supplementary Update 2014-09-19
- Supplementary Update 2015-11-02
- Supplementary Update 2016-11-18



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Supplementary General Conditions Part II – Project Specific

Supplementary Specification:	GC 2.2.4S		
Affected Document(s):	Volume II	Change Type:	Revised
Section:	General Conditions	Reference:	GC 2.0
Change Summary:			
Currently:	<p>If there is any inconsistency or conflict between the provisions of the <i>Contract Documents</i>, then:</p> <p>(1) the <i>Contract Documents</i> shall govern and take precedence in the following order with the Agreement taking precedence over all other <i>Contract Documents</i>:</p> <ul style="list-style-type: none"> (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 Documents 		
Should Be:	<p>If there is any inconsistency or conflict between the provisions of the <i>Contract Documents</i>, then:</p> <p>(1) the <i>Contract Documents</i> shall govern and take precedence in the following order with the Agreement taking precedence over all other <i>Contract Documents</i>:</p> <ul style="list-style-type: none"> (a) Agreement (b) Addenda (c) Supplementary General Conditions Part II – Project Specific (d) Supplementary General Conditions Part I – Issued by MMCD (e) General Conditions (f) Supplementary Specifications Part III – Payment (g) Supplementary Specifications Part II – Project Specific (h) Supplementary Specifications Part I – Issued by MMCD (i) Specifications (j) Drawings listed in Schedule 2 to the Agreement (k) Supplementary Standard Detail Drawings Part II – Project Specific (l) Supplementary Standard Detail Drawings Part I – Issued by MMCD (m) Standard Detail Drawings (n) Executed Form of Tender (o) Instructions to Tenderers (p) All other Contract Documents 		

Supplementary Specification:	GC 4.1.3S		
Affected Document(s):	Volume II	Change Type:	New
Section:	General Conditions	Reference:	GC 4.0
Change Summary:	Hours of Work		
Currently:	Not Applicable		
Should Be:	<p>The permissible hours of work for this project are as per Bylaw or as ordered by a Bylaw Officer for the jurisdiction the contractor is working in.</p> <p>The current permissible hours of work are listed in <i>Instructions to Tenderers Part I, 4. Supplemental Instructions to Tenderers</i></p>		

Supplementary Specification:	GC 24.1.1(2)S – Required Insurance		
Affected Document(s):	Volume II	Change Type:	New
Section:	General Conditions	Reference:	GC 24.1
Change Summary:	Amend the following sentence under 24.1.1(2) as follows:		
Currently:	<p>24.1.1(2) “The policy shall include the <i>Owner</i> and the <i>Contract Administrator</i> as additional insured with cross liability clause.”</p>		
Should Be:	<p>24.1.1(2)S “The policy shall include the <i>Owner, Contract Administrator and Consultants</i> as additional insured with cross liability clause.”</p>		

Supplementary Specification:	GC 24.1.1(3)S - Required Insurance		
Affected Document(s):	Volume II	Change Type:	New
Section:	General Conditions	Reference:	GC 24.1
Change Summary:	Amend the following sentence under 24.1.1(3) as follows:		
Currently:	<p>24.1.1(3) “.....Coverage to include the <i>Owner</i> as an additional insured.</p>		
Should Be:	<p>24.1.1(3)S “.....Coverage to include the <i>Owner , Contract Administrator and Consultants</i> as an additional insured’s.”</p>		



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Supplementary Specifications Part I – Issued by MMCD

The following Supplemental Updates are MMCD issued updates. Contained within each MMCD issued Supplemental Update are a number of specific sections of the contract affected by changes. The specific sections providing change include the following:

1. Supplementary General Conditions
2. Supplementary Specifications
3. Supplementary Standard Details Drawings
4. Supplementary Form

A complete list of all the Supplementary Specifications specific sections providing change complete with each change are detailed below. These specific sections, complete with each change, are to form part of the contract.

Detailed descriptions for each change are not included in this document however the detailed descriptions can be found on the MMCD website under Platinum Edition Documents. Bidder are deemed to have visited the MMCD website and have reviewed and understand the detailed descriptions.

Reference: MMCD Supplemental Update 2009 -11-19

Supplementary Specifications

31 22 01 - 3.3.1S	2009-001
31 37 10 - 2.1.1.1.1S	2009-002
32 17 23 - 2.1.7S	2009-003
32 31 13 - 3.3S; 3.4S; 3.5S	2009-004
33 30 01 - 1.6.5S	2009-005 PAYMENT not applicable
33 34 01 - 3.15.2S	2009-006
03 30 20 - 2.1.5.1S	2009-008
33 30 01 - 2.1.3.4S	2009-009
33 11 01 - 1.8.14S	2009-011 PAYMENT not applicable
33 11 01 1.8.13S	2009-012 PAYMENT not applicable

Reference: MMCD Supplemental Update 2010-03-25

Supplementary Specifications

Concordance Update	
Schedule 17.5.3S	2010-003
01 55 00 - 1.4.10.3S	2010-009
01 57 01 - 1.2.2.2S	2010-010

Reference: MMCD Supplemental Update PVC C900 Pipe Specification Clarification

Letter - Thickened bell end defined and required

Reference: MMCD Supplemental Update 2011-08-04

Supplementary Specifications

31 05 17 - 2.7.1S	2011-001
32 91 19 - 3.5.4S	2011-002
32 92 19 - 3.3.1S	2011-004
32 92 20 - 3.3.5S	2011-004
32 93 01 - 3.11.2S	2011-005
32 93 01 - 3.11.3S	2011-006
32 92 20 - 3.8.1S	2011-007
32 92 20 - 3.8.2S	2011-008
IT 17.1S	2011-011

IT 4S	2011-012
Section 3 6.5.1S	2011-013 Volume 1 - Users Guide
Section 3 6.5.1S	[Electronic Edition]- 2011-014 Volume1 - Users Guide
Section 3 9.7.1S	2011-015 Volume 1 - Users Guide
Section 4 6.8.1S	2011-016 Volume 1 - Users Guide
33 11 01 – 2.2.2.2S	2011-017

Reference: MMCD Supplemental Update 2011-08-08

Supplementary Specifications

33 49 23S 2011-018

Reference: MMCD Supplemental Update 2012-05-30

Reference: MMCD Supplemental Update 2012-06-08

Supplementary General Conditions (NOTE: MMCD has detailed these items as GCs however they are Supplementary Specifications. Remove GC from the start of each section number.

e.g.:

GC 33 01 30.1-2012-003	Becomes	33 01 30.1-2012-003
GC 33 01 30.1		2012-003
GC 33 01 30.1		2012-004
GC 33 01 30.1		2012-005
GC 33 01 30.1		2012-006
GC 33 01 30.1		2012-007 Not applicable.
GC 32 17 23		2012-008
GC 32 17 23		2012-009
GC 01 42 00		2012-010
GC 03 30 53		2012-011
GC 03 30 53		2012-012
GC 31 23 23		2012-013
GC 31 23 23		2012-014
GC 32 13 13		2012-015
GC 32 13 16.1		2012-016
GC 32 13 16.1		2012-017
GC 33 11 01		2012-018
GC 33 44 01		2012-019

Supplementary Specifications

01 42 00 – 1.1.26 2012-002

Reference: MMCD Supplementary Update 2013-06-13

Supplementary Form

Form 15 Statutory Declaration 2013-03

- Supplementary Update 2014-02-28
- Supplementary Update 2014-07-15
- Supplementary Update 2014-09-19
- Supplementary Update 2015-11-02
- Supplementary Update 2016-11-18



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Supplementary Specifications Part II – Project Specific

Supplementary Specification:	01 33 01 – Project Record Documents-1.7.5S		
Affected Document(s):	Volume II	Change Type:	New Item
Section:	01 33 01	Reference:	1.7 Recording Actual Site Conditions
Change Summary:	Add in requirement for digital record survey		
Currently:	Not Applicable		
Should Be:	<p>1.7.5S</p> <p>.1 In addition to the items in 1.7.2 a digital record survey of infrastructure ultimately installed shall be maintained by the contractor and submitted to the Contract Administrator no later than Substantial Performance.</p> <p>.2 The submission to the Contract Administrator shall be in a digital format readily transferable into AutoCAD, and as accepted by the Contract Administrator.</p> <p>.3 As part of the record survey the contractor shall provide all buried changes or improvements including invert elevations, locations of all structures, pipes, rock horizons found/blasted, fittings, appurtenances, service connections, valves and tie-ins.</p> <p>.4 As part of the record survey the contractor shall provide all surface changes or improvements including , landscaping, road changes or improvements, driveway changes or improvements, utility changes or improvements, relocated or new signage, relocated or new fencing, road markings and all other relocated or new traffic safety devices.</p>		

Supplementary Specification:	01 33 01 – Project Record Documents-1.9S		
Affected Document(s):	Volume II	Change Type:	New Item
Section:	01 33 01	Reference:	1.0 GENERAL
Change Summary:	Add in new subsection 1.9 detailing requirement for quantity measurement		
Currently:	Not Applicable		
Should Be:	<p>1.9S - Quantity Measurements</p> <p>.1 Digital survey control and digital construction details for layout will be provided once at the start of the project by the Contract Administrator to the Contractor.</p> <p>.2 The Contractor shall provide digital quantity surveys/measurements for all phases of construction to provide volumes, areas and lengths for all payment items.</p> <p style="padding-left: 20px;">.1 The Contractor shall allow the Contract Administrator to review all onsite quantity surveys undertaken during the course of construction.</p> <p style="padding-left: 20px;">.2 The Contractor shall provide the Contract Administrator all survey information in a logical format as gathered by the Contractor and as acceptable to the Contract Administrator in order to verify quantities and to aid in completion of Progress Payments.</p>		

**SUPPLEMENTARY SPECIFICATIONS
PART II PROJECT SPECIFIC
Regional District of North Okanagan
42nd Avenue Watermain Replacement
Reference No.2017-E372.16.1**

Supplementary Specification:	01 55 00 – Traffic Control, Vehicle Access and Parking		
Affected Document(s):	Volume II	Change Type:	Addition
Section:	01 55 00	Reference:	1.0 GENERAL
Change Summary:	Add in additional requirements		
Currently:	Not Applicable		
Should Be:	.6 The Contractor shall be responsible for developing and implementing a traffic management plan to control vehicle and pedestrian movement within all work zones. The plan shall be submitted to the Contract Administrator for review and to the jurisdiction responsible for issuing a permit. Contractor responsible to attain a permit.		

Supplementary Specification:	Section 31 24 13 – Roadway Excavation, Embankment and Compaction – 3.5.2S		
Affected Document(s):	Volume II	Change Type:	Delete/Replace
Section:	31 24 13	Reference:	3.5.2
Change Summary:	Delete MMCD “3.5.2 and replace with compaction densities as shown on the contract drawings.		
Currently:	3.5.2 – Compact to density of not less than 95% Modified proctor density.		
Should Be:	3.5.2S – Compact to densities as shown on the Contract Drawings.		

Supplementary Specification:	33 11 01 – Waterworks		
Affected Document(s):	Volume II	Change Type:	Addition
Section:	33 11 01	Reference:	1.0 GENERAL
Change Summary:	Add in additional requirements		
Currently:	Not Applicable		
Should Be:	.3 Watermain installations are to be by trenchless installation pipe bursting methods as specified in 33 05 23 upon approval of the Contract Administrator. Regardless of the installation method the contractor shall supply and install a pipe within a minimum ID of the specified pipe and a pressure rating equal to the project pressure requirement of (125 psi).		



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Supplementary Specifications Part III – Payment

DESCRIPTION OF PAYMENT ITEMS

The basis of measurement and payment for items included in the Form of Tender Appendix 1- Schedule of Quantities and Prices are described below. The specific payment descriptions below supersede the applicable payment clauses in the MMCD Platinum Edition Volume II and any MMCD issued Supplemental Updates that may detail payment clauses.

The descriptions of work to be done under Form of Tender - Appendix 1- Schedule of Quantities and Prices are general descriptions of the work only in order to break down and assess the Tender Price. These descriptions are not intended to include all details of requirements and responsibilities of the Contractor to complete the Works in accordance with the Contract. It is the Tenderer's responsibility to ensure that the Tender Sum submitted with his Tender is sufficient to complete all of the Works based upon the whole of the Contract Documents.

The price bid for each item shall be full compensation for all labour, equipment, materials, dewatering and incidentals necessary to complete the supply, installation and construction of each item as specified to the lines, grades and cross-section in accordance with the Contract Documents and as directed by the Contract Administrator.

Where as-builts, measurements, survey information, test results and other information specified and required from the contractor is outstanding at the date of request for Substantial Performance the Works shall be considered incomplete and not ready for use or purpose intended. This will delay Substantial Performance.

If a Lump Sum Payment is shown in Appendix A - Schedule of Quantities and Prices, unless specifically detailed otherwise in the Description of Payment Items, payment shall be based on the Contract Administrator's estimated percentage of the Contract completed. As the project nears Substantial Performance, payment will only be made to an amount sufficient to retain 200% of the estimated deficiency value.

DIVISION 1 - GENERAL REQUIREMENTS

Mobilization and Demobilization

1. The total amount tendered for mobilization/demobilization shall not exceed 5% of the total tender price. Costs in excess of this are deemed to be included in other unit rates tendered.

Payment will be as follows:

Mobilize - 70%

Demobilize - 30%

This item shall include all costs for mobilization and demobilization associated with the Contractor's equipment, site facilities, and services.

Payment for mobilization and demobilization will be made at the lump sum price shown in the Schedule of Quantities and Prices. Seventy percent (70%) of the lump sum price will be paid on the first progress payment certificate due after the Contractor has established the operation and facilities specified. The remaining Thirty 30% will be paid upon completion of the contract and removal of equipment and cleanup of the work areas to the satisfaction of the Engineer.

Bonding & Insurance

2. This item shall include all costs for bonding and insurance for the complete Contract.

Payment based on actual cost to Contractor. Tendered amount not to exceed 2% of TOTAL TENDER PRICE. Costs in excess of this are deemed included in other unit rates tendered. Contract Administrator may require documentation for proof of payment.

Payment will be made at the lump sum price tendered in the Schedule of Quantities and Prices on the first progress payment subsequent to submission of documentation of bonding and insurance coverage.

33 01 – Project Record Documents

1. Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless specifically shown otherwise in Form of Tender Appendix 1 -Schedule of Quantities and Prices.

01 42 00 – Reference Specifications

2. All references to these Specifications, Standards, or Methods shall be understood to refer to the latest adopted revision, including amendments. There is no Payment applicable to this Section.

01 51 01 – Temporary Utilities and Lighting

1. Coordinate all tie-ins with the Contract Administrator, RDNO, and District of Coldstream to ensure no disruption to service and that temporary water service is maintained during construction.
2. Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless specifically shown otherwise in Form of Tender Appendix 1 -Schedule of Quantities and Prices.

01 52 01 – Temporary Structures

1. Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless specifically shown otherwise in Form of Tender Appendix 1 -Schedule of Quantities and Prices.

01 53 01 - Temporary Facilities

1. Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless specifically shown otherwise in Form of Tender Appendix 1 -Schedule of Quantities and Prices.

01 55 00 – Traffic Control, Vehicle Access and Parking

1. This item shall include full compensation for developing and implementing a traffic management plan to control all types of traffic adjacent to and within the work zone 24 hours per day 7 days a week for the duration of the Work.
2. Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless specifically shown otherwise in Form of Tender Appendix 1 -Schedule of Quantities and Prices.

01 57 01 - Environmental Protection

1. Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless specifically shown otherwise in Form of Tender Appendix 1 -Schedule of Quantities and Prices.
2. This Section includes the submittal and implementation of an erosion and sediment plan to industry standards.
3. The contractor shall be responsible for all water leaving the construction site.

01 72 10 – Project Record Documents

1. Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless specifically shown otherwise in Form of Tender Appendix 1 -Schedule of Quantities and Prices.

END OF DIVISION 1 - GENERAL REQUIREMENTS

DIVISION 33 - UTILITIES

33 11 01 – Waterworks

1. The unit prices and lump sums bid in this payment section shall be full compensation for all work, materials and incidentals necessary to complete the installation of waterworks components of type indicated to the lines, grades and cross-section in accordance with the Contract Drawings/Standard Detail Drawings and as directed by the Contract Administrator.
 - .1 Payment for waterworks components will be made separately for the various components consistent with nature of component, pipe materials, diameters, depths of mains and backfill requirements as shown on Contract Drawings and described under the individual payment items in Form of Tender Appendix 1 -Schedule of Quantities and Prices.
 - .2 Payment for waterworks components include, but not limited to:
 - i. saw cutting pavement, saw cutting concrete, trench excavation, disposal of surplus excavated material supply and installation of all pipe, fittings, bolts, gaskets, restraints, tie rods, U Bend offsets as shown on drawings, installation of test points
 - ii. concrete, benching, breaking- in, flow management, dewatering, spool sections, grouts & sealants,
 - iii. coordinate works with the Owner.
 - iv. bedding, imported or native backfill as shown on the Drawings
 - v. cleaning, flushing, pressure and leakage testing, disinfection, bacterial testing
 - vi. all surface restoration including road base and subbase materials as shown on the drawings, and temporary 75 mm hot-mix asphalt patching as shown on the drawings, except permanent pavement restoration
 - vii. corrosion protection (Denso primer, profiling mastic, and tape) coating to AWWA standards of all buried metal components (including all valves, fittings, joint restraints, stainless steel and copper/brass) shall be incidental to all works; no additional payment will be made for corrosion protection coatings.
 - viii. Dewatering and bypass pumping shall be included in the works; no additional payment will be made for dewatering or bypass pumping.
 - ix. all other work, materials and incidentals necessary to complete the installation as shown on the Drawings and specified under this Section.
2. Payment for watermains will be at the unit rate identified in Appendix A - Schedule of Quantities and Prices. Measurement for watermains will be made horizontally along centerline of watermain, through valves and fittings, with no deduction for length of valves and fittings, over surface after work has been completed.
3. Payment for inline gate valves or butterfly valves including valve boxes, crosses, tees, bends, reducers, blind flanges, couplings and caps will be for each item installed and identified in Appendix A - Schedule of Quantities and Prices. Chambers if required are to be paid for as a separate item.
4. Payment for water services includes mainline service saddles, corporation stops, curb stops, service pipe, pigtails, markers and all related fittings and appurtenances specified and/or shown on Contract Drawings and Standard Detail Drawings, as applicable. Measurement for water services will be for each complete service installed, with no regard to length of service pipe installed.

5. Payment for test points, air-releases/air-vacuum and combination air valves and apparatus and blow-off assembly includes all related fittings and appurtenances will be for each item installed and identified in Appendix A - Schedule of Quantities and Prices. Chambers if required are to be paid for as a separate item.
6. Payment for air valve chamber complete with air valve, drain & vent arrangement including all related fittings and appurtenances will be for each item installed and identified in Appendix A - Schedule of Quantities and Prices. Payment includes all work, materials and incidentals described under 1, 2 & 3 of this payment section.
7. Payment for blow-off assembly including all related fittings and appurtenances will be for each item installed and identified in Appendix A - Schedule of Quantities and Prices.
8. Payment for concrete bedding, or controlled density fill, where shown on Contract Drawings will be made as extra over payment. No payment will be made for concrete bedding or controlled density fill required as a result of unauthorized excavation beyond neat lines or limits of excavation shown on Contract Drawings or Standard Detail Drawings.
9. Payment for localized concrete encasement, thrust, and anchor blocks and support blocks as shown on Contract Drawings or directed by Contract Administrator includes all necessary extra excavation and formwork and supply and placement of concrete as specified in Section 03 30 53 – Cast-in-Place Concrete. Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless specifically shown otherwise in The Form of Tender Appendix 1 - Schedule of Quantities and Prices.
10. Payment for watermain undercrossing or service undercrossing other underground services will only be made for crossing with use of pipe casing as shown on the Contract Drawings or directed by the Contract Administrator. Payment item includes the pipe casing and all other work and materials including dewatering as specified in 3.9 of this Section. Payment will be as identified in Appendix A - Schedule of Quantities and Prices.
11. Payment for under pressure branching includes branch saddle with integral isolation valve, special under pressure branching equipment, all necessary excavation and backfill and surface restoration..
12. Payment for tie-ins to existing mains where all pipe work is to be undertaken by Owners crew includes exposing the existing system to confirm conditions and location, dewatering, shoring, all labour, materials, equipment, reinstatement to facilitate the owners crew to carry out the tie-in work, remaining in attendance and coordinating with Owners crew to complete tie-in as shown on Contract Drawings.
13. Payment for tie-ins to existing mains where all pipe work is to be undertaken by the Contractor will be as #12 of this payment section. This includes all pipes, valves, fittings, dewatering, incidentals and any other necessary tie-in work including capping of mains to complete tie-ins as shown on Contract Drawings as separate items for each location.
14. Payment for hydrants includes the hydrant body c/w Storz port, lateral connections from mainline tee off watermain to hydrants, isolation valves at the mainline tee and curb valve with adjustable valve box, tie-rods, reaction blocks as shown on Supplementary Standard Detail Drawing W-04 Rev2.
15. Payment for PRV Pits, Backflow Pits and Meter Pits will be for each item. This includes all pipes, valves, fittings, dewatering, incidentals and any other necessary requirements to tie-in and install the pits as identified in Appendix A - Schedule of Quantities and Prices.
16. Testing and Commissioning includes all testing to Regional District of North Okanagan Standards which includes successful:
 - .1 Flushing, please note that RDNO specifies that flushing velocities of 0.9 m/s are obtained during testing.
 - .2 Pressure Testing,
 - .3 Disinfection,
 - .4 Bacterial sampling and testing (with sample delivery to an accredited approved testing facility), and

- .5 Granting of Approval to Connect (tie-ins) by the Regional District of North Okanagan upon successful and approved completion of all tests.

No additional payment will be made for re-testing due to unsuccessful tests.

END OF DIVISION 33 UTILITIES



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Supplementary Standard Detail Drawings Part I – Issued by MMCD

SUPPLEMENTARY STANDARD DETAIL DRAWINGS

Master Municipal
Specifications
Platinum Edition 2009

PART I - ISSUED BY MMCD
Regional District of North Okanagan
42nd Avenue Watermain Replacement
Reference No. 2017-E372.16.1

Page 1 of 1

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1. Supplementary General Conditions
2. Supplementary Specifications
3. Supplementary Standard Details Drawings
4. Supplementary Form

A complete list of all the Supplementary Standard Details Drawings specific sections providing change complete with each change are detailed below. These specific sections, complete with each change, are to form part of the contract.

Detailed descriptions for each change are not included in this document however the detailed descriptions can be found on the MMCD website under Platinum Edition Documents. Bidder are deemed to have visited the MMCD website and have reviewed and understand the detailed descriptions.

Reference: MMCD Supplemental Update 2012-08-07

Standard Details Drawings

S6 2012-022

Reference: MMCD Supplementary Update 2013-06-13

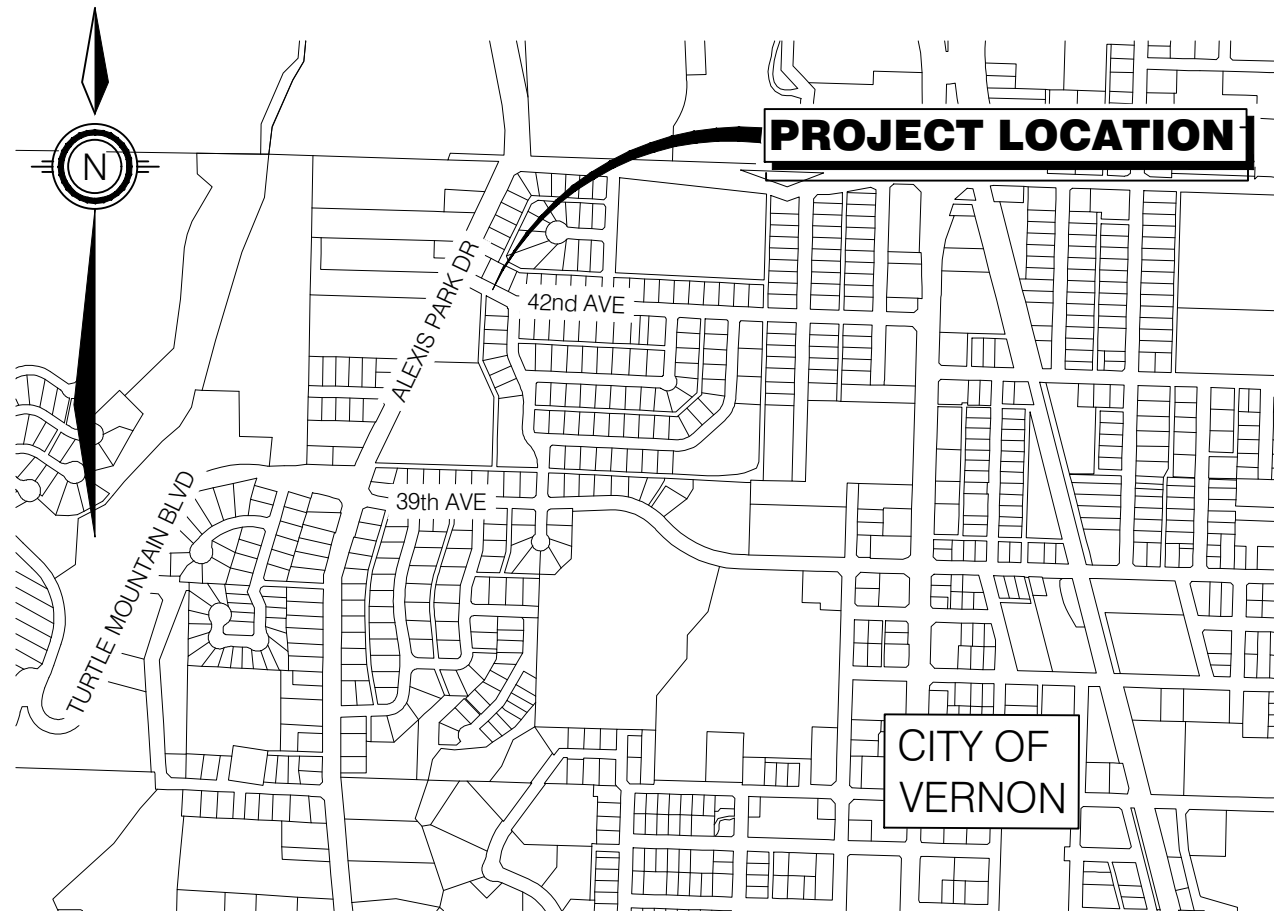
Supplementary Standard Details Drawings

Standard Details Drawings	2013-08
Standard Details Drawings	2013-09
Standard Details Drawings	2013-10
Standard Details Drawings	2013-11
Standard Details Drawings	2013-12
Standard Details Drawings	2013-13
Standard Details Drawings	2013-14
Standard Details Drawings	2013-15
Standard Details Drawings	2013-16
Standard Details Drawings	2013-17
Standard Details Drawings	2013-18



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Drawings



LOCATION PLAN
Scale 1:10,000

NOTES:

GENERAL

- THE CONTRACTOR MAY EMPLOY ALTERNATE METHODS OF CONSTRUCTION UPON APPROVAL BY THE ENGINEER & OWNER.
- ALL CONSTRUCTION AND MATERIALS RELATING TO THE WATER SYSTEM SHALL BE IN ACCORDANCE WITH MASTER MUNICIPAL CONSTRUCTION DOCUMENT PLATINUM EDITION (MMCD 2009) STANDARDS AND SPECIFICATIONS AND WITH CITY OF VERNON AND GREATER VERNON WATER (GVW) UTILITY STANDARD SPECIFICATIONS AND STANDARD DRAWINGS (UNLESS NOTED OTHERWISE) (REFER TO RDNO BYLAW 2063).
- WHERE A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS ARISES THE MOST STRINGENT SHALL APPLY.
- ANY UTILITY OR SERVICE DISTURBED DURING CONSTRUCTION SHALL BE IMMEDIATELY RECTIFIED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AT THE CONTRACTORS COST.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DESIGN DRAWINGS, ARE APPROXIMATE ONLY AND MAY NOT BE FULLY ACCURATE OR COMPLETE. THE CONTRACTOR SHALL EXPOSE ALL TIE IN LOCATIONS AND POTENTIAL POINTS OF CONFLICT AND CONFIRM DESIGN ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR IMMEDIATELY FOR DIRECTION. THE CONTRACTOR SHALL ASSUME ALL COSTS AND EXPENSES THAT MAY ARISE FROM DAMAGES AND REPAIR TO SUCH UTILITY.
- WATER SERVICES TO RESIDENCES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION PERIOD EXCEPT FOR A SHORT DURATION DURING TIE IN INSTALLATION.
- CONTRACTOR SHALL KEEP PROPER AS BUILT INFORMATION DURING CONSTRUCTION AND SUBMIT THE INFORMATION TO THE CONTRACT ADMINISTRATOR AS REQUESTED DURING CONSTRUCTION AND PRIOR TO ACCEPTANCE OF THE WORK
- CONTRACTOR IS TO PROVIDE CONSTRUCTION METHODOLOGY TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION OUTLINING CONSTRUCTION METHODS AND REQUIRED LAY DOWN AREA.
- CONTRACTOR SHALL COMPLETE A VISUAL INSPECTION ALONG THE PROPOSED ALIGNMENT AND PROVIDE PHOTO EVIDENCE SUMMARIZING THE CONDITION OF SURFACE ELEMENTS ALONG THE ALIGNMENT PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN CONFIRMATION FROM THE PROPERTY OWNERS OF THE EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
- DO NOT START ANY BACKFILL OPERATION UNTIL THE WORKS HAVE BEEN INSPECTED BY THE CONTRACT ADMINISTRATOR.
- WHERE A TRENCH IS UNDER OR WITHIN 1.0m OF THE EDGE OF A ROAD OR DRIVEWAY, USE 150mm MINUS PITRUN OR APPROVED ON-SITE BACKFILL GRAVEL FROM THE TOP OF THE PIPE BEDDING TO THE TOP OF THE ROAD, PARKING OR DRIVEWAY SUBGRADE.
- ADJUST ALL APPURTENANCES TO MEET THE FINAL DESIGN GRADES. STEEL RISER RINGS ARE NOT TO BE USED.
- MAINTAIN SAFE VEHICULAR AND PEDESTRIAN ACCESS TO HOMES AND BUSINESSES DURING CONSTRUCTION. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH APPROVED MOTI TRAFFIC MANAGEMENT PLAN AND MMCD SECTION 015500.
- CONTRACTOR TO ENSURE POSITIVE SITE DRAINAGE DURING AND UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL SURVEY MONUMENTS, BENCHMARKS AND LEGAL PINS MUST BE PROTECTED AND ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE AND OBTAIN A ROAD USE PERMIT FROM CITY OF VERNON 5 DAYS PRIOR TO START OF CONSTRUCTION.
- ALL SURPLUS EXCAVATED WASTE MATERIAL SHALL BE DISPOSED AT AN APPROVED OFFSITE LOCATION AT THE CONTRACTORS EXPENSE.
- CONTRACTOR TO COORDINATE ALL SERVICE INTERRUPTIONS WITH GVW.
- DRIVEWAYS AFFECTED BY CONSTRUCTION TO BE RESTORED WITH 200mm SUB-BASE FOLLOWED BY 100mm BASE COMPACTED TO 100% STANDARD PROCTOR DENSITY. SURFACING MATERIAL (ASPHALT, GRAVEL OR OTHERWISE) TO MATCH EXISTING.
- PAYMENT OF MAINS ARE BY HORIZONTAL ASBUILT SURVEY OR AS SPECIFIED IN SCHEDULE OF QUANTITIES & PRICES.

HEALTH AND SAFETY

- THE CONTRACTOR SHALL EMPLOY THE LATEST HEALTH AND SAFETY MEASURES AND PROCEDURE, BEST PRACTICES, AND COMPLY WITH THE LATEST WORKSAFE BC REGULATIONS AND GUIDELINES.

WATER

- SOIL CONDITIONS ARE CONSIDERED CORROSIVE. WRAP ALL VALVES, FITTINGS, CURBSTOPS AND EXPOSED BOLTS, RODS AND NUTS WITH PETROLEUM BASED DENSO PASTE, PROFILING MASTIC, AND TAPE.
- WATER MAIN PIPE SHALL BE FUSIBLE PVC DR-18 AWWA C-900 OR APPROVED EQUAL. PROVIDE A MINIMUM 1.5m COVER. REPLACE WATERMAIN WITH THE PIPE BURSTING METHOD. REPLACE ALL SERVICES FOLLOWING MAINLINE REPLACEMENT. REPLACE WITH OPEN CUT OR PIPE BURSTING METHOD.
- ALL VALVES TO MEET AWWA STANDARDS C500 - C561 OR EQUIVALENT.
- INSTALL SERVICE CONNECTIONS COMPLETE WITH DOUBLE STRAP, STAINLESS STEEL SERVICE SADDLES TO EACH PROPERTY. SERVICES SHALL BE MUNICIPAL SERVICING TUBING COMPLETE WITH CORPORATION STOP AT MAIN AND CURB STOP AT THE PROPERTY/RIGHT-OF-WAY LINE.
- PROVIDE THRUST BLOCK REACTION BLOCKING OR JOINT RESTRAINTS AS SPECIFIED FOR ALL FITTINGS (SEE GVW STANDARD DWG. W-03) AND TIE-RODS FOR ALL FITTING CLUSTERS.
- RESTRAIN ALL JOINTS TO MANUFACTURERS RECOMMENDATION OR AT LEAST AS SHOWN ON THE DRAWINGS. JOINT RESTRAINTS SHALL BE SUITABLE FOR THE PIPE MATERIAL. PROVIDE EBAA SERIES 1900 OR APPROVED EQUAL.
- ADJUST ALL PROPOSED AND EXISTING APPURTENANCES TO MEET THE FINAL DESIGN GRADES.
- ALL GATE VALVES TO BE ABANDONED ARE TO BE REMOVED OR CLOSED, FILLED WITH SAND, THE VALVE BOX TO BE REMOVED AND EXISTING SURFACE RESTORED.
- PLUG ALL ENDS OF PIPES TO BE ABANDONED WITH CONCRETE PLUG FOR A MINIMUM OF 0.5m INTO THE PIPE.
- CLOSE VALVES ON EXTENSIONS OR STUBS OFF OF LIVE WATERMANS TO ALLOW PIPE TO REMAIN DRY
- WHERE NEW WATERMAIN CROSSES EXISTING SANITARY, STORM OR IRRIGATION MAINS, THE NEW PIPE IS TO BE INSTALLED IN A MANNER SUCH THAT: ALL JOINTS WITHIN 3 m OF THE CROSSING ARE WRAPPED WITH DENSO PASTE & TAPE OR APPROVED EQUAL.
- CONFIRM LOCATION OF EXISTING SERVICES AT PROPERTY LINE PRIOR TO INSTALLATION OF NEW SERVICE AT MAIN.
- CONFIRM AND IDENTIFY TYPE AND SIZE OF EXISTING SERVICES PRIOR TO INSTALLATION OF NEW SERVICES AT MAIN.
- THE CONTRACTOR TO PROVIDE WATERMAIN DISINFECTION AND COMMISSIONING PLAN IN ACCORDANCE WITH GVW AND INDUSTRY STANDARDS FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR.

HYDRO, TELEPHONE, CABLE, STREET LIGHTING AND GAS

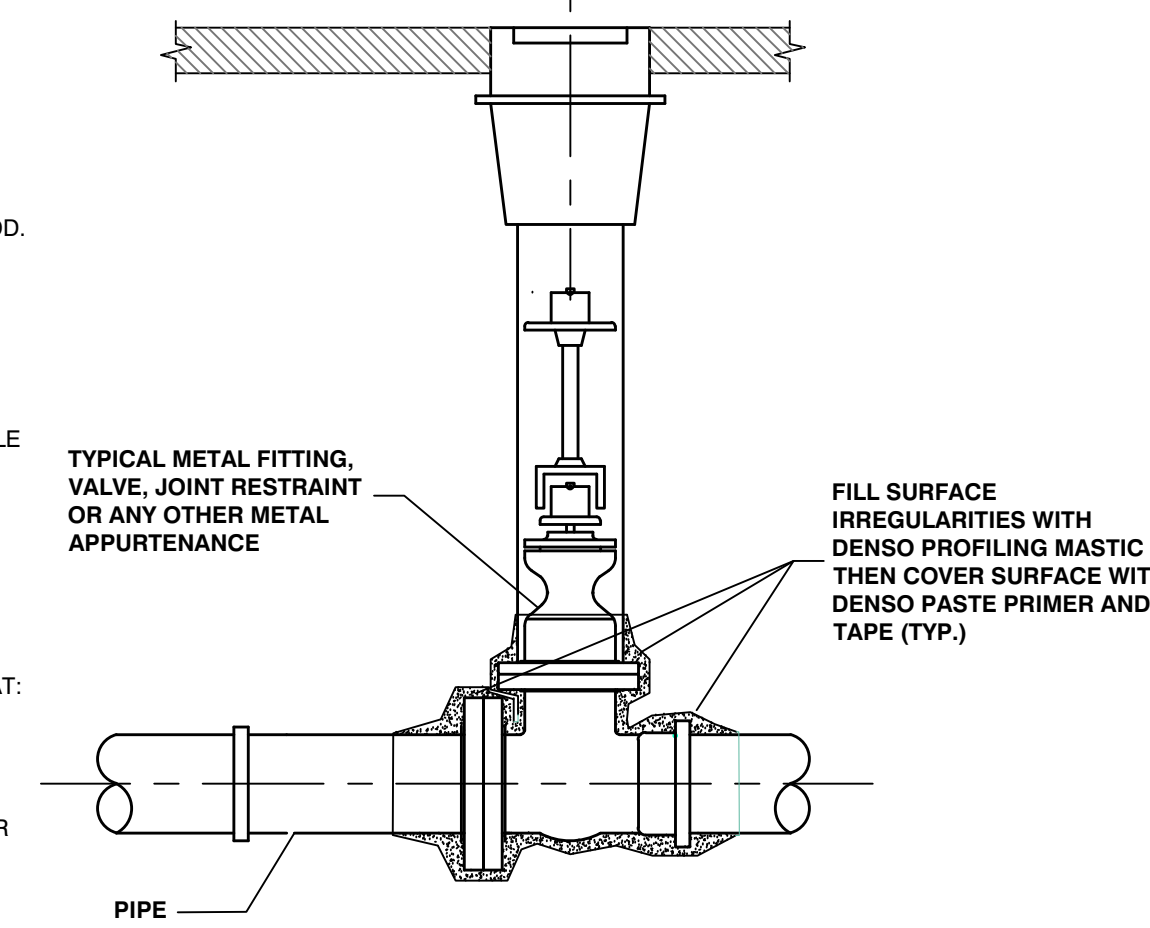
- CONTACT "BC ONE CALL" A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
- BC HYDRO, TELUS, SHAW CABLE AND FORTIS BC FACILITIES ARE SHOWN SCHEMATIC ON THE DRAWING. REFER TO UTILITY COMPANY DRAWINGS FOR CONSTRUCTION DETAILS.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES.

ROADS

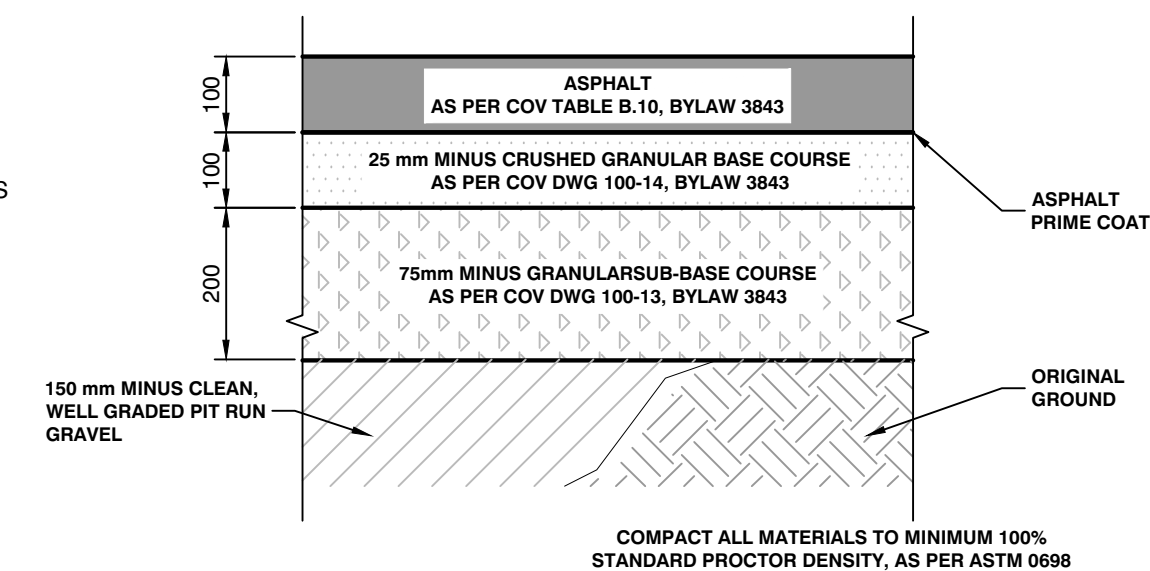
- REPAIR ALL ROADWAYS IN ACCORDANCE WITH THE CITY OF VERNON STANDARD SPECIFICATIONS.
- SIGNAGE AND PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE BC MINISTRY OF TRANSPORTATION'S "MANUAL OF STANDARD TRAFFIC SIGNS AND PAINT MARKINGS", UNLESS OTHERWISE SHOWN.
- PROOF-ROLL THE SUB-GRADE IN THE PRESENCE OF THE ENGINEER PRIOR TO PLACEMENT OF ROAD STRUCTURE.
- ALL ROAD TRENCHES TO BE BACKFILLED AND PAVED WITH COLD MIX DAILY TO MAINTAIN TRAFFIC FLOW.

RESTORATION

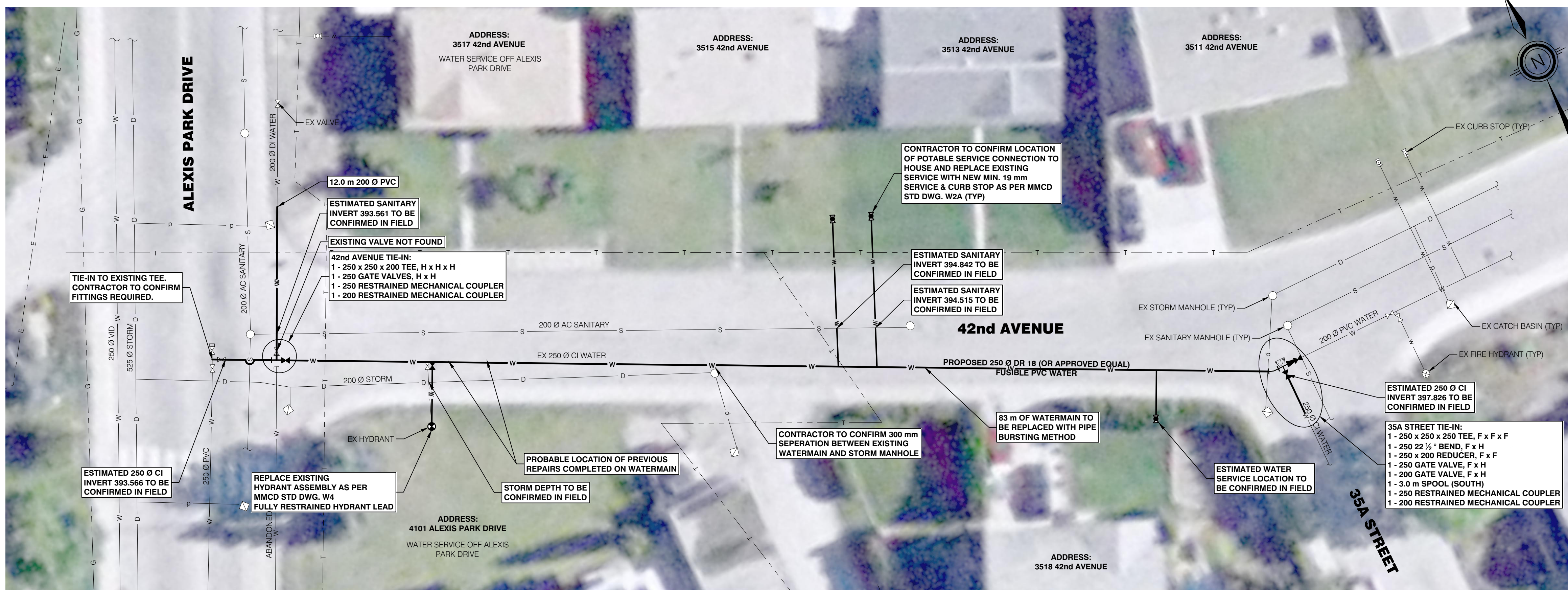
- REINSTATE ALL DISTURBED AREAS INCLUDING BUT NOT LIMITED TO ASPHALT PAVEMENT, CONCRETE CURB, SIDEWALK, GRAVEL, SOD LANDSCAPE FEATURES, PLANTERS, SIGNS ETC. TO ORIGINAL CONDITION OR BETTER UPON COMPLETION OF THE WORK.



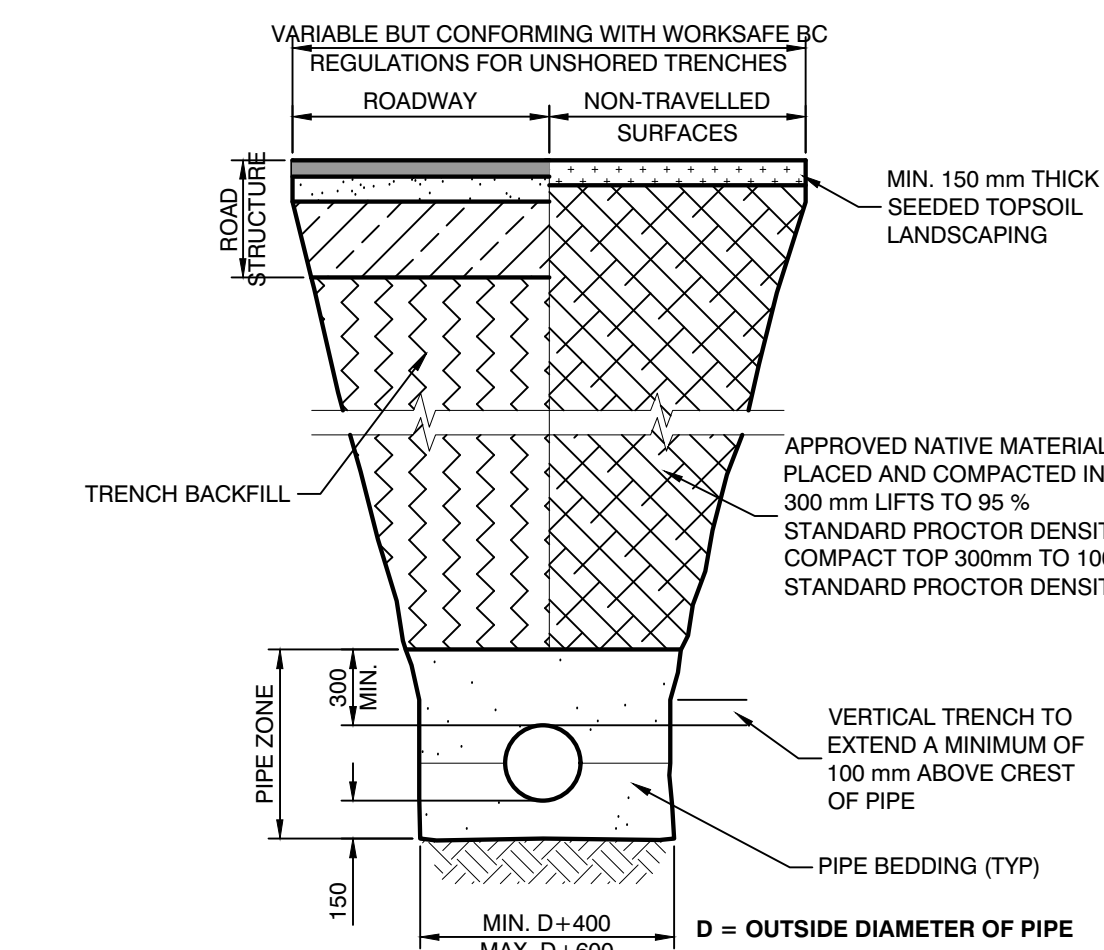
TYPICAL CORROSION PROTECTION BARRIER APPLICATION
N.T.S.



TYPICAL ASPHALT ROAD STRUCTURE DETAIL
Scale 1:10



PLAN
Scale 1:200



TYPICAL TRENCH DETAIL
Scale: 1:30

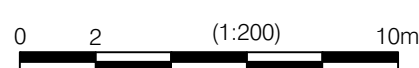
PIPE TRENCH GRANULAR MATERIALS

- TRENCH BACKFILL** - 150mm MINUS WELL GRADED PITRUN
 - AS PER COV STANDARDS
 - COMPACT TO 100% STANDARD PROCTOR DENSITY (ASTM D-698) IN LOOSE LIFTS NOT EXCEEDING 300mm.
- PIPE BEDDING** - AS PER COV STANDARDS
 - COMPACT TO 100% STANDARD PROCTOR DENSITY (ASTM D-698) IN LOOSE LIFTS NOT EXCEEDING 300mm.
- DRAIN ROCK** - AS PER COV STANDARDS
 - 25mm CLEAN, ROUND DRAIN ROCK



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Seal:

Rev	Date	Des	Dwn	Chk	Description of Revision
A	2017-06-22	ACL	ACL	KM	ISSUED FOR TENDER

Rev	Date	Des	Dwn	Chk	Description of Revision

REGIONAL DISTRICT OF NORTH OKANAGAN WATERMAIN UPGRADES 42nd AVENUE

LOCATION PLAN, NOTES, WATERMAIN PLAN & STANDARD DETAILS

Project No: 773-158	Drawing No. C-101	Rev. A
Group: CIVIL		