

Cowichan Valley Regional District

TENDER NO. ES-024-16 SHAWNIGAN BEACH ESTATES – METER INSTALLATION - 3

SUMMARY		
Closing Date: Time:	Tuesday, November 8, 2016 2:00 pm at CVRD Ingram Street O	ffice
Location:	Cowichan Valley Regional District 175 Ingram Street DUNCAN, BC V9L 1N8	
Attention:	Joe Barry, Corporate Secretary	
Bidder:		
Name of	Firm	Contact Name
Address		Postal Code
Telephone Number		Email
TOTAL STIPULATED	SUM TENDER PRICE (excluding GST)	
Shawnigan Meter Insta	llation \$	
<u>ADDENDA</u>		
ADDENDUM NO	DATED	.
ADDENDUM NO	DATED	
ADDENDUM NO	DATED	
It is herewith acknowled the Tender.	dged that the foregoing Addenda have bee	en received and form part of
Signature of Authorizin	g Officer	Dated



Contents

SUMMARY	1
TENDER CHECKLIST	3
INVITATION TO TENDER	4
INSTRUCTIONS TO TENDERERS	5
1.0 Introduction	5
2.0 Inquiries	5
3.0 Tender Documents	5
4.0 Addenda	5
5.0 Submission of Tenders	6
6.0 Bonds	6
7.0 Award	6
8.0 Sales Tax and Other	7
9.0 WORK SAFE BC, Declaration and Liability Insurance	7
FORM OF TENDER	8
APPENDIX A – LIST OF BID DOCUMENTS	10
FORM OF AGREEMENT	11
SCHEDULE 1 - CONTRACT DOCUMENTS	16
SCHEDULE 2 - LIST OF CONTRACT DRAWINGS/DOCUMENTS	17
SUPPLEMENTARY GENERAL CONDITIONS	18
SUPPLEMENTARY SPECIFICATIONS	20
FIGURES	23



TENDER NO. ES-024-16

TENDER CHECKLIST

This checklist is provided for the bidder's convenience to assist in ensuring that you are submitting a complete tender.

CLOSING DATE:	Tuesday, November 8, 2016 2:00 p.m. local time 175 Ingram Street, Duncan BC V9L 1N8	,	
TENDER:			
TENDER SUMMARY:	Name of Tenderer		
	Address and telephone number		
	TOTAL TENDER PRICE		
	Addenda acknowledged		
FORM OF TENDER:	Signed		
APPENDIX A	List of Bid Documents		



TENDER NO. ES-024-16 SHAWNIGAN BEACH ESTATES – METER INSTALLATION - 3

INVITATION TO TENDER

TENDER

The Owner, the Cowichan Valley Regional District (CVRD), offers to receive Tenders for the Shawnigan Beach Estates – Meter Installation - 3. Tenders must be sealed and signed and clearly marked ES-024-16 Shawnigan Beach Estates – Meter Installation - 3 and will be received by Joe Barry, Corporate Secretary, Cowichan Valley Regional District, 175 Ingram Street, Duncan, BC, V9L 1N8, until 2:00 p.m., Tuesday, November 8, 2016, by hand, mail or delivery, up to the time and date stated on the summary sheet. Tenders shall be opened at a public tender opening, held at 175 Ingram Street, immediately following the stated closing time.

Tenders or amendments submitted by facsimile or email will not be accepted. The lowest or any tender may not necessarily be accepted. Incomplete tenders will be considered noncompliant and returned to the tenderer. Tenders submitted after the stated opening time will be returned unopened to the tenderer. Amendments to the submitted tender will be permitted, if received in writing prior to tender closing, and if endorsed by the same party or parties who signed and sealed the offer.

SCOPE

The intent of this tender is to obtain an offer to complete all the work for a Stipulated Price Contract, in accordance with the Contract Documents. The works will include installation of 182 water meters in the Shawnigan Beach Estates subdivision. Contractors will be required to use construction methods that minimize impact to existing landscaping and residential property. The CVRD will provide the meters, meter setters, box, radio heads and lids and the Contractor is to supply all labour, equipment and aggregates to make good the installation of the meter assemblies.

The project is located in the Shawnigan Beach Estates, Shawnigan Lake, approximately 25 km south of Duncan, BC, on Vancouver Island.

The work must be completed by February 24, 2017

INQUIRIES

Tender inquiries may be directed to Jeralyn Jackson, Project Manager, Capital Projects, via email to <u>jiackson@cvrd.bc.ca</u>

CONTRACT DOCUMENTS

Contract Documents may be obtained from the CVRD's website at www.cvrd.bc.ca. The successful bidder will be expected to enter into a Stipulated Price Contract.

<u>SITE VISIT</u>

No site visit is planned for this project.

INSTRUCTIONS TO TENDERERS

OWNER:

Cowichan Valley Regional District

CONTRACT TITLE:

Shawnigan Beach Estates Metering Project 3

CONTRACT NO.:

TENDER ES-024-16

1.0 Introduction

The intent of this tender is to obtain an offer to complete all the work for a Stipulated Price Contract, in accordance with the Contract Documents. The works will include installation of 182 water meters in the Shawnigan Beach Estates subdivision. Contractors will be required to use construction methods that minimize impact to existing landscaping and residential property. The CVRD will provide the meters, meter setters, box, radio heads and lids and the Contractor to supply all labour, equipment, miscellaneous parts and aggregates to make good the installation of the meter assemblies.

The project is located in the Shawnigan Beach Estates, Shawnigan Lake, approximately 25 km south of Duncan, BC, on Vancouver Island.

2.0 Inquiries

Direct all inquiries regarding the Contract to:

Cowichan Valley Regional District

175 Ingram Street

Duncan, BC V9L 1N8

Phone:

250-746-2530

Attention:

Jeralyn Jackson

3.0 Tender Documents

- 3.1 The tender documents, which a tenderer should review to prepare a tender, consist of all of the Contract Documents listed in the Form of Tender Appendix A, entitled "List of Bid Documents".
- 3.2 Portions of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These documents are the:

CCDC-2: Stipulated Price Contract:

- .1 Definitions
- .2 General Conditions

They are those contained in the publication entitled "Standard Construction Document CCDC-2 (2008) – Stipulated Price Contract", and

Master Municipal construction Documents (MMCD):

1 Specification and Standard Detail Drawings (MMCD): For all construction specifications, details and drawings

These documents are contained in the Master Municipal Construction Documents (MMCD) – "General Conditions, Specifications and Standard Detail Drawings", Platinum edition dated 2009 including all updates

3.3 Any additional information made available to tenderers prior to the Tender

4.0 Addenda

4.1 Questions arising during the bidding period shall be in writing and directed to:

Cowichan Valley Regional District Attention: Jeralyn Jackson, PMP, AScT Email: jjackson@cvrd.bc.ca Phone: 250 746-2530

A summary of the questions and any changes in the *Work*, will be included in an ADDENDUM, a written communication issued by the Owner. All ADDENDA shall be acknowledged by the Tenderer in the Tender Summary and the Tender Checklist.

- 4.2 ADDENDA will not be issued later than three (3) calendar days before the Tender closing date.
- 4.3 Tenderers shall not be entitled to make any claim for compensation for any costs or damages for the execution of this tender.

5.0 Submission of Tenders

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

Joe Barry, Corporate Secretary

on or before:

Tender Closing Time: 2:00 pm local time

Tender Closing Date: Tuesday, November 8, 2016

at:

Cowichan Valley Regional District 175 Ingram Street Duncan, BC V9L 1N8

5.2 Late tenders will not be accepted or considered, and will be returned unopened within 15 Days of receipt of the written Notice of Award deliver to the Owner:

6.0 Bonds

A Performance Bond and a Labour and Material Payment Bond will be required, 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.

7.0 Award

- 7.1 After acceptance by the CVRD, a written acceptance will be issued to the successful Bidder;
- 7.2 Tenders received after the tender close date and time will be rejected and returned unopened;
- 7.3 The successful tenderer and the Owner will enter into a Stipulated Price Contract by the execution of the Form of Agreement in the forms included in the tender documents.
- 7.4 The Owner has the right to accept the tender which it deems most advantageous to the CVRD and the right to reject any or all tenders. The owner's liability, in the aggregate, for any breach or breaches of any Contract formed upon by the submission of the tender will be limited to Five Thousand Dollars (\$5,000) or a reasonable cost of preparation of the Tender.

8.0 Sales Tax and Other

Any contract awarded as a result of the Tender will be subject to GST. GST is therefore to be shown separately and will not be shown in the Tender Submission. All other taxes are to be included in the Stipulated Price.

9.0 WORK SAFE BC, Declaration and Liability Insurance

- 9.1 The tenderer must be registered with Work Safe BC. Execution of this tender form shall constitute a warranty that the tenderer's assessment is not in arrears.
- 9.2 The Contractor will be considered by the Owner as the Prime Contractor on this project and shall be required to submit all Work Safe BC assurance and approvals for the duration of the work. The Contractor to submit a "Notice of Project" to Work Safe BC.
- 9.3 After acceptance by the CVRD, successful contractor will submit copies of current liability insurance "with the CVRD as additional named insured" and standing with Work Safe BC.
- 9.4 Prior to release of final payment, the Contractor shall provide a Statutory Declaration that all employees, subcontractors and suppliers used in conjunction with the work have been fully paid and satisfied by the contractor and witnessed by a Notary Public or a Commissioner for taking Affidavits and submitted to the CVRD.

(TO BE USED ONLY WITH THE DEFINITIONS AND GENERAL CONDITIONS OF THE "STANDARD CONSTRUCTION DOCUMENT CCDC-2 (2008) – STIPULATED PRICE CONTRACT".)

OWNER:

Cowichan Valley Regional District

CONTRACT TITLE:

Shawnigan Beach Estates Metering Project 3

CONTRACT NO.:

TENDER ES-024-16

1.0 WE, THE UNDERSIGNE	ΞD	I	iN	G	SI	R	E	D	N	U	Ε	TH	E.	W)	.1	1
------------------------	----	---	----	---	----	---	---	---	---	---	---	----	----	---	---	----	---

1.0	WE, THE UNDERSIGNED:
1.1	have received and carefully reviewed all of the Contract Documents, including the Instructions to
	Tenderers, the specified edition of the "Standard Construction Document CCDC-2 (2008) - Stipulated
	Price Contract", 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; and
2.0	ACCORDINGLY WE HEREBY OFFER:
2.1	to perform and complete all of the Work and to provide all the labour, equipment and material all as set out in the Contract Documents, in strict compliance with the Contract Documents; and
2.2	to achieve Substantial Performance of the Work on or before 24 th February 2017; and (WORK DURATION OR DATE)
2.3	to do the Work for the stipulated price of Dollars (\$) in Canadian funds, and excludes GST.

3.0 WE CONFIRM:

That the following appendices are attached to and form a part of this tender:

Appendix A

4.0 WE AGREE:

That this tender will be irrevocable and open for acceptance by the Owner for a period of <u>60</u> 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:

Within 15 Days of receipt of the written Notice of Award, deliver to the Owner:

- 4.1 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*, and
- 4.2 a detailed Construction Schedule in MS Project format; and
- 4.3 commence the *Work* within 1 Month of receipt of written "Notice to Proceed", or such longer time as may be otherwise specified in the Notice to Proceed; and
- 4.4 a "clearance letter" indicating that the tenderer is in WCB compliance; and
- 4.5 a copy of the insurance policies as specified in GC 11.1 indicating that all such insurance coverage is in place and;
- **4.6** sign the *Contract Documents*.

5.0 WE AGREE:

That, if we receive written Notice of Award of this Contract and, contrary to paragraph 4 of this Form of Tender, we:

- 5.1 fail or refuse to deliver the documents as specified by paragraph 4.0 of this Form of Tender; or
- 5.2 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.

Phone:		
Attention:		
This Tender is executed this	day of	, 20
Contractor:		
(FULL LEGAL NAME OF CORPORATION	, PARTNERSHIP OR INDIV	IDUAL)
(AUTHORIZED SIGNATORY)		

6.0

OUR ADDRESS IS AS FOLLOWS:

<u>APPENDIX A – LIST OF BID DOCUMENTS</u>

OWNER:

Cowichan Valley Regional District

CONTRACT TITLE:

Shawnigan Beach Estates Metering Project 3

CONTRACT NO.:

TENDER ES-024-16

The following is the list or description of the Bid Documents referred to in the Bid for the above named *Project*:

<u>NOTE</u>: The documents noted with "**" are included with the bid documents by reference and are contained in the "<u>Standard Construction Document CCDC-2 (2008) – Stipulated Price Contract</u>". The documents noted with "*"are included with the bid documents by reference and are contained in the Master Municipal Construction Documents, platinum edition 2009 and all updates.

- 1 Instructions To Tenderers;
- 2 Form of Tender, including Appendix A;
- 3 Form of Agreement, including all Schedules;
- 4 Definitions**;
- 5 Supplementary General Conditions;
- 6 General Conditions **:
- 7 Supplementary Specifications
- 8 Specifications and Drawings *
- 9 Design Drawings/Documents listed in Schedule 2 to the Agreement;
- 10 Addenda:

		VITH THE DEFINITION VIMENT CCDC-2 (2008)				THE	"STANI	DARD
THIS AGREEI	MENT mad	e in duplicate this	day of	, 2	2016.			
OWNER: CONTRACT 1 CONTRACT N		Cowichan Valley Re Shawnigan Beach E TENDER ES-024-16	Estates Meterin					
BETWEEN:	175 Ingran	AN VALLEY REGION/ m Street, Duncan, in to of British Columbia er")						
AND:	3	98.39	-					
	(NAME AND C	OFFICE ADDRESS OF CONT	FRACTOR)	.				
	(the "Cont	ractor")						

The Owner and the Contractor agree as follows:

ARTICLE A-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. The works contained under this contract include construction, per the Contract drawings.
- 1.2 The Contractor will commence the Work in accordance with the Notice to Proceed. The Contractor will proceed with the Work diligently, will perform the Work generally in accordance with the construction schedules as required by the Contract Documents and will achieve Substantial Performance of the Work on or before <u>February 24, 2017</u>, 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, See SUPPLEMENTARY GENERAL CONDITIONS and SPECIFICATIONS for additional conditions.

ARTICLE A-2 AGREEMENTS AND AMENDMENTS

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 A-3 CONTRACT DOCUMENTS

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.

) in Canadian dollars, excluding GST	
_			
	and	cents \$	

- 4.2 The Contract price is subject to 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.
- 4.3 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 A-5 PAYMENT

ADTICLE ALA CONTRACT DRICE

- 5.1 Subject to applicable legislation and the provisions of the Contract Documents, the Owner shall make payments to the Contractor.
- 5.2 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 Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.
- 5.3 Subject to the provisions of the Contract Documents, and in accordance with legislation and statutory regulations respecting holdback percentages, the Owner shall in Canadian funds:
 - **5.3.1** make progress payments to the Contractor on account of the Contract Price when due in the amount certified by the Consultant together with GST,
 - **5.3.2** upon Substantial Performance of the Work, pay to the Contractor the unpaid balance of the holdback amount when due together with GST, and
 - **5.3.3** upon the issuance of the final certificate for payment, pay to the Contractor the unpaid balance of the Contract Price when due together with GST.

ARTICLE A-6 RECEIPT OF AND ADDRESSES FOR NOTICES

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 email, or by pre-paid registered mail to the addresses as set out below:

The Owner:

Cowichan Valley Regional District

175 Ingram Street

Duncan, BC V9L 1N8

Represented by:

Email:

jjackson@cvrd.bc.ca

Attention:

Jeralyn Jackson, AScT, PMP

Project Manager, Capital Projects

The Contract	tor:			
	71.	ENVIRON AND ADDRESS OF THE PROPERTY OF THE PRO		
	Email:			-
	Attention:		_	\ <u>-</u>

The Consultant (Contract Administrator):

Cowichan Valley Regional District

175 Ingram Street

Duncan, BC V9L 1N8

Email:

ijackson@cvrd.bc.ca

Attention:

Jeralyn Jackson, AScT, PMP

Project Manager, Capital Projects

- 6.1 A communication or notice that is addressed as above shall be considered to have been received:
 - **6.1.1** immediately upon delivery, if delivered by hand; or
 - **6.1.2** immediately upon transmission if sent and received by email: or
 - **6.1.3** after 5 days from date of posting if sent by registered mail.
- 6.2 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.
- **6.3** The sender of a notice by email assumes all risk that the email will be received properly.

ARTICLE A-7 RIGHTS AND REMEDIES

- 7.1 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.
- 7.2 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 A-8 GENERAL

8.1 The Contract Documents are to be read into and form part of this Agreement and the whole shall constitute the Contract between the parties, and subject to the law and the provisions of the Contract

Documents shall enure to the benefit of and be binding upon the parties hereto, their respective heirs, legal representatives, successors, and assigns.

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

IN WITNESS WHEREOF the parties hereto have above.	e executed	this .	Agreemen	t the c	lay and	d year	first v	written
Contractor:)								
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIV	VIDUAL))		
(AUTHORIZED SIGNATORY))						Seal		
(AUTHORIZED SIGNATORY)								
Witness to above signature:								
Name:)								
Occupation:								
Address:)								
Owner:								
The Corporate Seal of the COWICHAN VALLEY REGIONAL DISTRICT was hereunto affixed in the presence of:)								
Jon LeFebure, Chair)						Seal		
Joe Barry, Corporate Secretary								

<u>SCHEDULE 1 - CONTRACT DOCUMENTS</u>

OWNER:

Cowichan Valley Regional District

CONTRACT TITLE:

Shawnigan Beach Estates Metering Project 3

CONTRACT NO.:

TENDER ES-024-16

The following is the list or description of the Bid Documents referred to in the Bid for the above named *Project*:

<u>NOTE</u>: The documents noted with "**" are included with the contract documents by reference and are contained in the "<u>Standard Construction Document CCDC-2 (2008) – Stipulated Price Contract</u>". The documents noted with "*" are included with the contract documents by reference and are contained in the Master Municipal Construction Documents, platinum edition 2009 and all updates.

- 1 Instructions To Tenderers:
- 2 Form of Tender, including Appendix A;
- 3 Form of Agreement, including all Schedules:
- 4 Definitions**;
- 5 Supplementary General Conditions;
- 6 General Conditions **:
- 7 Supplementary Specifications
- 8 Specifications and Drawings *
- 9 Design Drawings/Documents listed in Schedule 2 to the Agreement;
- 10 The following Addenda:

Addendum No.	Date

SCHEDULE 2 - LIST OF CONTRACT DRAWINGS/DOCUMENTS

OWNER:

CONTRACT TITLE:

Cowichan Valley Regional District Shawnigan Beach Estates Metering Project 3

CONTRACT NO.:

TENDER ES-024-16

List of Contract Drawings

TITLE	DRAWING NO.	DATE	REV NO.
Figure 1 - Shawnigan Lk North Water System	1 of 2	Oct 20, 2016	-
Figure 2 - Shawnigan Lk North Water System	2 of 2	Oct 20, 2016	-
Figure 3 – ES-024-16 Shawnigan Meters – Address Summary	7 pages	Oct 21, 2016	-
Figure 4 – MOTI – Permission to Construct	3 pages	Sept 1, 2016	-,
Figure 5 – Meter Installation Sheet	2 pages		-
Figure 6 - CVRD-supplied Materials	6 pages		-
Figure 7 – Meter Location Sheet	2 pages		-

SUPPLEMENTARY GENERAL CONDITIONS

The provisions of the Standard Construction Document CCDC 2 – 2008 Stipulated Price Contract, are modified and supplemented as follows:

DEFINITIONS:

Clarification: Definition 9 - Consultant: The Consultant will also include an employee of the CVRD.

GENERAL CONDITIONS OF THE STIPULATED PRICE CONTRACT

SGC 1.1.7 Amend GC 1.1.7 OF SECTION GC 1.1 Contract Documents

Amend GC 1.1.7 by adding the <u>underlined</u> words and deleting the struck out words:

- 1.1.7 If there is a conflict within the Contract Documents:
 - .1 the order of priority of documents, from highest to lowest, shall be
 - Agreement between the Owner and the Contractor,
 - Addenda,
 - Definitions.
 - Supplementary General Conditions,
 - General Conditions.
 - Division 1-of-the Supplementary Specifications,
 - technical MMCD Specifications and Drawings,
 - -material and finishing schedules,
 - Drawings
 - Tender ES-024-16
 - .2 Drawings of larger scale shall govern over those of smaller scale of the same date.
 - .3 dimensions shown on Drawings shall govern over dimensions scaled from Drawings.
 - .4 later dated documents shall govern over earlier documents of the same type.

SGC 9.1 Add to Section GC 9.1 – Protection of Work and Property:

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

SGC 9.4 Add to Section GC 9.4 – Construction Safety:

- 9.4.2 The Contractor shall be responsible for safety management for all persons who are present within the boundaries of the Work Site Plan including but not limited to the Contractor's worker, the Subcontractor's workers, the Owner, the Contract Administrator, or any other inspector or agent appointed by either of them, and other Contractor's workers and anyone else.
- 9.4.3 The Contractor shall investigate thoroughly the nature and conditions of the project as well as the requirements of the job procedures and should be prepared to, if warranted, implement a more comprehensive safety program than is required by the regulations specified under GC 3.4.1.

- 9.4.4 The Contractor shall develop and be responsible to maintain a project-specific work site safety program, tailored specifically to the work of the contract, and shall be acceptable in all respects to the regulations specified under GC 3.4.1.
- 9.4.5 The Contractor shall be solely and completely responsible for the overall safety program on the work site during the performance of the work, to ensure the safety of all persons at the work site, and to safely coordinate all activities on the work site. This requirement shall apply continuously, and not be limited to normal working hours.
- 9.4.6 The Contractor shall make itself, its employees, Subcontractors, suppliers, the Owner, the Contract Administrator, and all others that the contractor brings to the work site, aware of the safety and security rules, regulations, and requirements in effect at the work site.
- 9.4.7 The Contractor shall provide site safety orientation for all Contractor and Subcontractor employees and visitors to the site. This presentation must be made before their work commences, or an appropriately trained worker must escort them.
- 9.4.8 The Contractor shall be proactive in its approach towards safety and shall anticipate problems, correcting situations before they occur. The Contractor shall have a means of inspecting the work site to ensure all personnel meet or exceed the minimum safety requirements, all unsafe conditions are corrected immediately, and proper discipline is enforced. A lax attitude towards safety will not be tolerated on the work site.

SGC 11.1.1.1 Amend GC 11.1.1.1 OF SECTION GC 11.1 Insurance

Amend GC 11.1.1.1 by adding the underlined words and deleting the struck words:

.1 General liability insurance in the name of the Contractor and include, or in the case of a single, blanket policy, be endorsed to name-include, the Owner and the Consultant as additional insureds but only with respect to liability, other than legal liability arising out of their sole negligence, arising out of the operations of the Contractor with regard to the Work. General liability insurance shall be maintained from the date of commencement of the Work until one year from the date of Substantial Performance of the Work. Liability coverage shall be provided for completed operations hazards from the date of Substantial Performance of the Work, as set out in the certificate of Substantial Performance of the Work, on an ongoing basis for a period of 6-one years following Substantial Performance of the Work.

GC 11.1.1.3, GC 11.1.1.4, GC 11.1.1.5, GC 11.1.1.6 and GC 11.1.1.7 are not applicable.

SGC 12.3.7 Add to Section GC 12.3 - Warranty: 12.3.7 Notwithstanding the foregoing, the Contractor will not be responsible in any way for any plumbing downstream of the meter installation."

SUPPLEMENTARY SPECIFICATIONS

1.0 Description of Work

As part of the Shawnigan Beach Estates Metering Project, the CVRD will engage the services of the Contractor to install up to 182 water meter assemblies in designated homes in the Shawnigan Bch. Estates. The CVRD will provide meters, meter setters, box, radio heads, lids and collars and the contractor will supply all other labour, subcontractors, aggregates and equipment to make good the installation of the meter assembly complete with restoration of construction site

Contract Administration will be in accordance with CCDC-2 Stipulated Sum Contract. Construction to be completed in accordance with MMCD specifications and drawings and CVRD Subdivision Bylaw 1215.

2.0 The Contractor

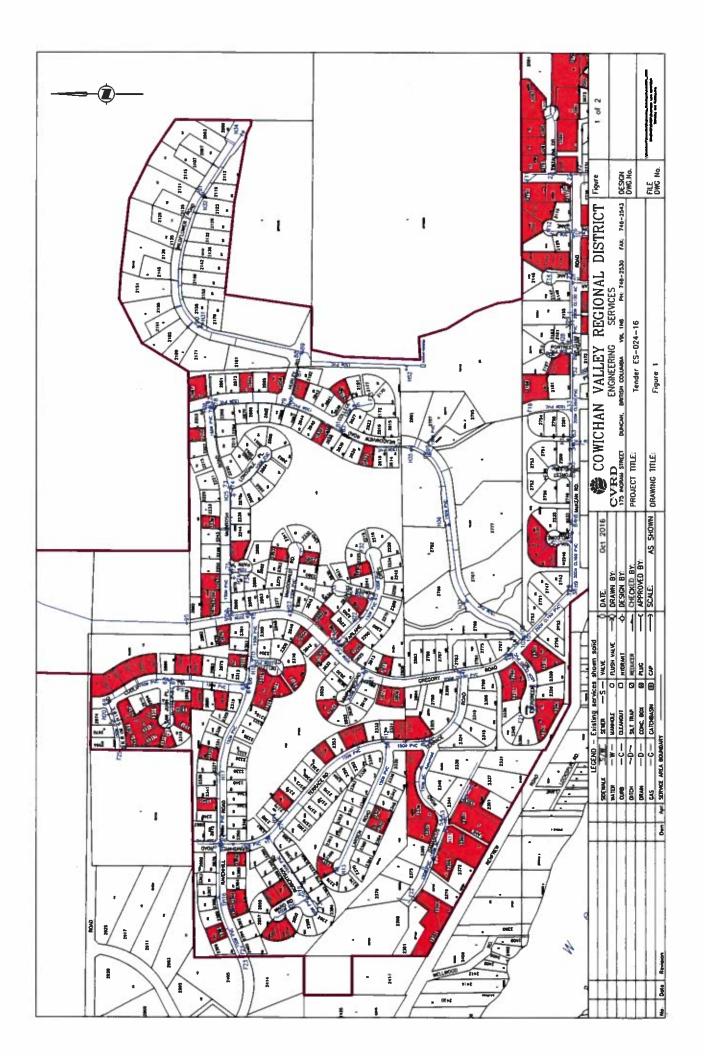
- 2.1 Contractor to install complete meter assemblies at the properties identified on Figures 1 & 2 and as also shown by address on Figure 3, attached. The CVRD has located and marked with a wooden stake the in-line meters for the properties and will make available to the Contractor a location sheet and photograph of each shut off valve upon request (see Figure 7 for sample location sheet). Note: most of the in-line meters are located from 1 to 3 meters into private property;
- 2.2 Contractor to mark the location of the new meter assembly with a wooden stake on each property frontage; and provide a minimum of 48hr and a maximum of one week notice of meter installation,
- 2.3 The CVRD will provide the material as listed in Figure 6 "CVRD-Supplied Materials", and the Contractor is to provide all labor, subcontractors, aggregates and equipment required to make good the water meter connection to each of the 182 existing residential water services. All CVRD-supplied parts are available for pickup from Corix Water Products, Duncan;
- 2.4 Contractor will be required to determine the height of each meter setter;
- 2.5 Most of the water services in the Shawnigan Beach Estates are municipal poly. Contractor to use a suitable pipe crimping tool for all installations;
- 2.6 Contractor to record any anomalies noted with meter assembly installation such as leaks, unusual type of pipe, exceptional depth or issues with site restoration or owner and submit to the Contract Administrator.
- 2.7 If a Pressure Reducing Valve (PRV) is discovered upon excavation of a water service the CVRD is to be notified of the location of the PRV and the following procedure is to take place:
 - Using the CVRD provided pressure gauge record the pressure at the home before any components are removed.
 - Remove existing PRV and replace with repair coupling.
 - Install a tandem re-setter with factory set 50 psi PRV (parts supplied by CVRD upon request).
 - Set new PRV to the existing pressure by turning the operating stem clockwise to increase (max 75 psi) and counter clockwise to decrease.
 - Record pre-installation and post-installation pressures on meter sheet provided.
- 2.8 Contractor to place new meter assembly approximately within 1 metre of the property line and within the road allowance. The meter assembly may be adjusted to suit the site, for example landscaping or appetences may require adjustment of the proposed meter;

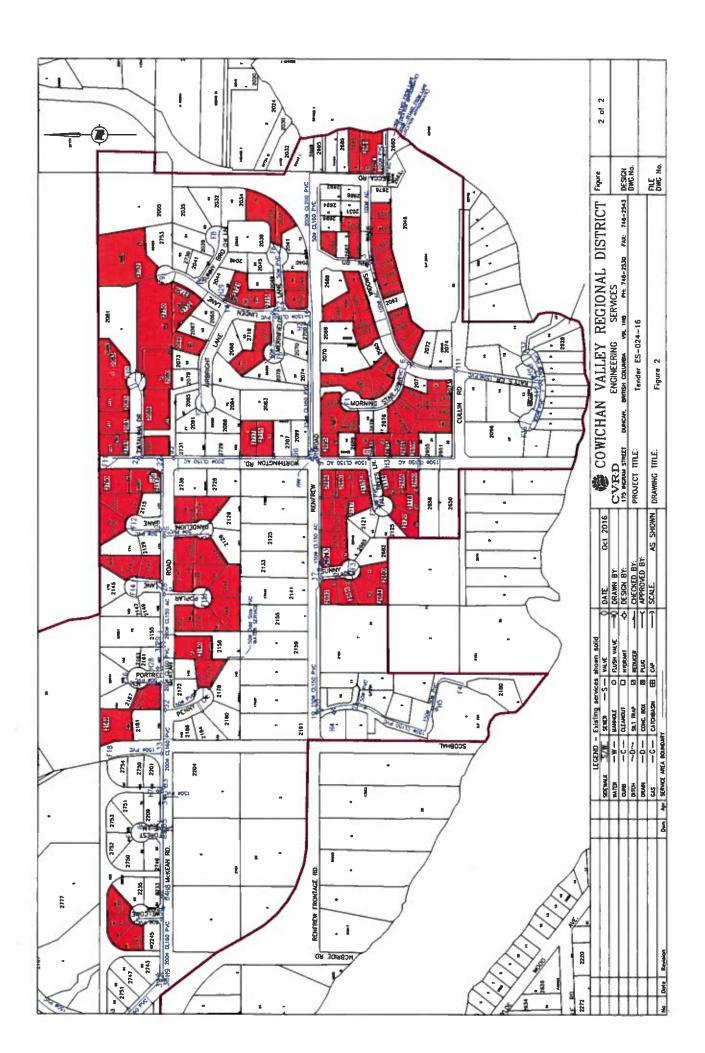
- 2.9 Properties where Sensus SR2 meters are discovered complete the following procedure:
 - Inspect meter for any damage and test the meter to ensure it is in working order.
 - Continue with installation of all other metering components.
 - Re-Install old Sensus SR2 meter instead of a new SR2 meter.
 - Connect new MXU to old Sensus SR2 meter (New MXU is compatible with old meter head).
 - Record on CVRD meter sheets provided for the properties in which this has occurred.
- 2.9 Contractor to complete and return to the CVRD the Meter Installation Sheets with SKU from the meter and the SKU from the MXU attached as shown on the sample Meter Installation Sheet (see Figure 5). Include serial numbers, part numbers or other relevant information as to site location, depth, etc. Blank meter sheet provided.
- 2.10 The Contractor will restore meter installation site to "as good as" or better than the original condition including, but not limited to, placement of topsoil and grass seed. For properties where driveway rehabilitation is required contractor is to take before and after photographs. Photographs are to be provided to the CVRD upon request.
- 2.11 Contractor will submit to the CVRD prior to start of work, proof of property damage and public liability insurance (minimum of \$5 million), showing the CVRD as additional named insured.
- 2.12 Obtain all necessary permits; all work must be in conformance with the Safety Authority, Work Safe BC and all other relevant regulatory requirements. Contractor will complete all work in accordance with the Ministry of Transportation and Infrastructure (MOTI) Permit to Construct # 2016-04706, see Figure 4.
- 2.13 Contractor will be required to submit a copy of WCB clearance letter showing the proponent in good standing. The successful proponent will be expected to provide Performance and Labor and Material Payment bonds in the amount of 50% of the value of this work.
- 2.14 The Scope of Work of the Contractor shall **NOT** include:
 - 2.14.1 remediation of any deficiencies caused by pre-existing site conditions including but not limited to leaks;
 - 2.14.2 improvements to any aspect of the premises beyond the installation of a new meter assembly;
 - 2.14.3 replacement of any fixtures or fixing of any leaks where to do so may result in damage or further damage to the premises because of pre-existing damage or for any reason;
 - 2.14.4 replacement of any fixtures other than those supplied by the CVRD eq. Meter assembly
- 3.0 The CVRD
- 3.1 The CVRD to provide materials as listed in section 1.0 above and further detailed in Figure 6 CVRD-Supplied Materials. The CVRD intends to supply the major components to the meter assembly and the Contractor to provide all other incidental parts required to make good the water meter connection to each of the 182 existing water services. All CVRD-supplied parts are available for pickup from Corix Water Products, Duncan.

3.2	For bidders info local contractor. depths ranging freservices. The metarea residents and	The trial included rom 2.4 m in a f ters were installed	installation of 2 few cases to ap d in just under 3.	21 meters on Rapproximately one 5 days. The trial	venhill Road, with meter deep for	n water service the majority of
		2004				0.1
Charm	inne Dennik Fatatan	Adams Inchellation				5 00

FIGURES

Figures 1 to 7 as follows:





	ADDRESS	METER	LOCATION DECONDENS		Check
ADDRESS		TYPE	LOCATION DESCRIPTION	COMMENTS	list
2069	Airbright In		11m L of d/w 8m from road	Black Box	
2080	-		LHS of d/w 1.5m from road	METAL LID CONCRETE BOX	_
2083			5m R of d/w 2m from road	BLACK BOX	
2085			10m L of d/w 6.5m from road	BLACK BOX	
2088	Catalina D.		2m right of gravel d/w 6.5m from road	BLACK BOX FULL OF WATER	
2091	Catalina Dr		10m L of [2085 Catalina] d/w 6.5m from road	BLACK BOX	
2098	-		8m from road, right beside 2088 Catalina Drive. On otherside of easement of the property it services.	GREEN BOX	
2183	College Pl	ABB	7m from road 1.5m L of RHS property line		
2878			6.5m R of d/w 6m from road	BLACK BOX	
2887		34	2m L of RHS property line 8m from road	BLACKBOX (Behind hedge in lawn)	
2888			1m R of paved d/w 8m from road	BLACK BOX HAS A SENSOR BUT NO DOME ON BOX [Under square concrete block]	
2895	Cudlip Rd	ABB	2.5m R of LHS property line 8m from road	Black Box; dome	
2905			2m L of d/w 7m from road	BLACK BOX - NO DOME	
2909			5m L of [2905 Cudlip] d/w 7m from road	BLACK BOX	
2911			12m L of d/w 7m from road	BLACK BOX	
2919			1m R of LHS property line 6.5m from road	BLACK BOX NO SENSOR NO DOME	
2927			3m L of RHS property line 7m from road	[Middle of lawn in black box]	
2087			Along RHS property line 8m from road	[Against fence and in garden]	
2089	Cullin Rd		1m from utility pole 8m from road	·	
2091			0.5m L of RHS property line 8m from road near utility pole	(Located in stream in black box, relocation is suggested)	
2333			1.5m R of gravel d/w 3m from road	BLACK BOX	
2339			8m from road 0.5m L of [2357 Damascus] property line	(On 2357 Damascus property in same box)	
2350			Located in [2344 Damascus] ROW 2m from 2353 fence line	Off the road in service right of way [black box] 2 services in one box	
2357	Damascus Rd		8m from road 0.5m L of RHS property line		
2360	Damascus Nu		9m R of d/w, in flower bed, 6m from road	Black Box, 2 meters (2366 also in same box)	
2366			12m L of d/w, in flower bed, 6m from road	BLACK BOX, 2 METERS (2360) NO DOME	
2380			1.5m L of d/w 5m from road on low side of rock wall	in black meter box with green lid	
2382			1m R of gravel d/w 1m from road	METAL LID, CONCRETE BOX, DOME NOT ATTACHED	
2118			3.5m right of d/w 5m from road	BLACK BOX METER ONE SIDE	
2121			On LHS property line 8m from road	BLACK BOX, NEEDS MORE FILL	

2124	Dandelion Ln		4m R of [2118 Dandelion] d/w 5m from road	BLACK BOX METER ONE SIDE
2125			On RHS property line, 8m from road	BLACK BOX , NEEDS MORE FILL [Near white PVC pipes]
2132	Dandelion Ln	ABB	4m from road, 2.5m right of utility pole, 0.5m behind utility pole	Found Near Utility Pole in Black Box with Meter. Meters look Mirrored to correct orientation DB ABB confirmed
2136	Dandellon Lii	ABB	4m from road, 1m right of utility pole, 1m behind utility pole	Found Near Utility Pole in Black Box with Meter. Meters look Mirrored to correct orientation DB ABB confirmed
2685	Decca Rd		3m L of [2681 Decca] d/w 5m from road	Has service against fence and a PRV, two shutoffs present but 1 was for expansion to a new property, however it was never done, and 2nd shutoff/service leads to nothing. DB
2681			~40m from Decca Road. RHS of house, serviced directly from the pump house. 2m inside of RHS fence. Green box with black lid. Must be accessed through driveway	
2312			1m L of d/w 3m from road (in hedge)	BLACK BOX
2314	Delleith Ct		1m L of d/w 5m from road	TO MUCH FILL
2316			1.5m L of RHS property line (When viewed from Ravenhill) 5m from road.	confirm - Sensus meter
2300	Evergreen Rd		3m L of [2310 Evergreen] d/w 7m from road	coupled with 2310 Evergreen's service
2310			3m L of d/w 7m from road	coupled with 2300 Evergreen's service
2315	J ·		5m R of d/w 6m from road	
2340	ABB		3m R of d/w 9m from road (in hedge)	
2350		ABB	3m L of d/w 9m from road (in hedge)	
2768			5m R of [2315 Evergreen] d/w 6m from road	black box
2808			Along RHS edge of paved d/w 5m from road.	White PVC pipe located in gravel with shutoff and black meter box containing meter located next to it
2810			RHS of property next to d/w 6m from road	
2811	23		Behind cedar hedge in the lawn, center of property, 6m from road	× ×
2838	Gregory Rd		LHS of property 3.5m L of wooden fence under fir tree	green control irrigation box; no dome; deep with water
2843			Center of property 1.5m L of d/w 4.5m from road	GREEN CONTROL IRRIGATION BOX, METER LEANING
2844			LHS of property 7m R of LHS property line 6m from road	BLACK BOX
2876			LHS of property 1m R of property line 5m from road	BLACK BOX
2879			RHS of property, 2m R of d/w, 6m from road 2ft deep	green control irrigation box; with dome

i l			[Inside owners fence] 8m from edge of	
2822	Hunter Rd		Macfarlane road, middle of lawn, 18m from	BLACK BOX - confirm
			edge of Hunter road.	
2190	Hurley Rd		1m R of utility pole, 4m from road	
2685	Inn Rd		4m from edge of road in concrete box, 7m right of 2687 Inn property line	Across the street from mailboxes.
2689			0.1m R of d/w 6.5m from edge of road	Black Box
2824	Lampman Rd		Center of property 1.5m L of d/w 4m from road	BLACK BOX
2348			Front RHS corner of property just inside	Meter box found, homeowner
2340			hedge line, black meter box visible	concerned with us digging in yard
2350	Larsen Rd	ABB	LHS 1.5m L of d/w 6m from edge of road	Black box; with dome
2373	130		RHS of d/w 5m from road	Black box; with dome
2710			Coupled with 2071 Merrifield. Could have in line meter buried, it is located in same box as 2071 Merrfields meter. DB	
2715			0.5m L of LHS property line 5m from road, close to fence	Located on neighboring property
2721			8m R of d/w by neighboring fence, 5m from road	BLACK BOX
2732	Linden Ln		RHS of property near utility pole, 5m from road	[Behind small wooden structure]
2736			0.5m L of LHS fence line 3m from edge of	Meter located in black box, shutoff in
2,30			road	black box next to it
2750	1		1m from road, just in front of [2752]	BLACK BOX WITH 2 METERS, NO
	<u> </u>		concrete wall	DOMES GOOD CONDITION BLACK BOX WITH 2 METERS, NO
2752	1		1m from road, just in front of concrete wall	DOMES GOOD CONDITION
2350			RHS of property 5m from road by retaining wall	BLACK BOX
2353	Macdonald Rd		3.5m right of d/w 5m from road just behind fence	
2235	<u> </u>		7m from road 2m from LHS od d/w	BLACK BOX, MORE FILL REQUIRED
2298	MacFarlane Cres		2m R of gravel d/w 6m from road	BLACK BOX, NO LID, NO DOME
2299	Wideralialie Cles			Service located on Macfarlane, green
2233			RHS of property 4m R of d/w 5m from road	rope tied to meter
2205		ABB	0.5m L of utility pole 6m from road	Sample port located in same box
2239			6.5m from road 14m from LHS of d/w	BLACK BOX, NO DOME
2263	McIntosh Rd		2m R of LHS property line 4m from road	BLACK BOX
2269	×		2m L of RHS property line 4,5m from road [in bushes]	BLACK BOX
2113			1m R of [2760 Worthington] LHS property line 6m from road	Located on neighboring property
	McKean Rd			PRV located on service, if on CVRD
2160	iniciali ila		5m R of [2158] d/w 5m from road behind	side of meter please contact the
			hedge	CVRD. If located on homeowners side leave PRV in place.
2822			3m R of LHS property line 8m from road	
2838			2.5m R of d/w 6.5m from edge of road	BLACK BOX, METER IS LEANING
2859	Meadowview Rd	ABB	10m L of d/w 5m from road	BLACK BOX, WITH DOME
2869	ivicadowview NO		5.5m from road (before retaining wall) 9m L of d/w	BLACK BOX, METER LEANING

2887	[14m R of d/w 11m from road	Black Box in lawn
2029		3m R of d/w 6.5m from road in between 2	BLACK BOX ONLY, METER IN BOX
2029	4	address posts	BELOW
2033		1m L of d/w 6.5m from road in between 2	BLACK BOX WITH 2 SENSORS AND 2
\vdash	_ 	address posts	METERS (EXTRAS FOR 2029)
2048	Merrifield Ln	8m R of d/w 5m from road along rock wall	Located in fence
2050		0.5m L of LHS property line 5m from road,	Located on neighboring property
2030		close to fence	Located on neighboring property
2071		Located in same box as 2710 Linden Lane	
2670	Morningstar Rd	1m L of LHS property line 3.5m from road in black box	
2672		Along LHS of [2674 Morningstar] d/w 6m	
2672		from road	Located on neighboring property
2674		0.5m R of LHS of gravel d/w 5m from road	In concrete box with concrete lid
2675		Along RHS property line 6m from road	BLACK BOX
2686	Morningstar Rd	Along RHS property line 6m from road	Shutoff in white PVC pipe
2687	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Along LHS property line, just before	Shutoff in green PVC pipe, meter
		hydrant, 7m from road	buried in black box
2688		0.5m R of LHS property line 6m from road	BLACK BOX
2690		Along RHS property line 7m from road	Shutoff in green PVC pipe, meter
	-	, and grade property and the control of the control	buried in black box
2871	Park Pl	10m R of LHS property line (when standing	BLACK BOX
		on Mcintosh) 7m from road in rock feature	
2176	Penny Ln	4m L of d/w 11m from road on top of bank	0.5m behind fence
2140		Along RHS property line 6m from road [in	
		hedge]	
2141		LHS of property 2.5m R of [2143 Poplar] d/w 2m from road	BLACK BOX
2143	ľ	2m R of d/w 2m from road	Located on neighboring property
2144		Along LHS property line 7m from road	BLACK BOX
2146	Poplar Ln	2.5m R of RHS property line 5m from road	Behind hedge of 2148 Poplar
	}	2m R of LHS property line 5m from road	"
2148		just behind hedge	BLACK BOX
2150		7m R of d/w 5m from road near utility pole	SAME BOX AS BELOW
2152	ļ	1m L of LHS property line 5m from road	BLACK BOX, DAMAGED, TO MUCH
		The Cor Circo property line offi from road	FILL, 2 METERS, 2 DOMES
	# E	8m from road on hillside behind the house.	
2169	Portree Ln		BLACK BOX
	, 5, 5, 5, 5	the back of the house. Marked with a stake	
2171		1m L of [2169] gravel d/w 7m from road	
2311		2m R of hydrant 6m from road	BLACK BOX METER LEANING
2314	Ī	LHS of property frontage	
2335		LHS of d/w 1.5m L of rock wall	
		• • •	

2345		LHS of property near hedge 1m behind wooden retaining wall	BLACK BOX
2356	Ravenhill Rd 📙	RHS of property 6m from road, 8m R of d/w	Behind tree stump in lawn
2368	F	4m L of property line 5.6m from road	BLACK BOX
2386	<u> </u>	7m from road 2m L of RHS property line	BLACK BOX NO SENSOR, NO DOME
2391	<u> </u>	Middle of lawn 7m from road	BLACK BOX, NO SENSOR, NO DOME
2060	Renfrew Rd	[On Widows Walk facing the backside of the property] 1.5m R of [2061 Widows Walk] gravel d/w 7m from road in large concrete meter box	3 meters located in same box, please confirm which meter is connected to which service and after installation is complete please label each meter with the corresponding address.
2116		Sm D of dhy 7m from road in block hay	
	-	5m R of d/w 7m from road in black box	BLACK BOX
2120	-	4m L of d/w 7m from road	BLACK BOX
2126		3m R of d/w 6m from road	In green box
2353	Renfrew Rd	In [2344 Damascus] ROW in black box 2m from [2353 Renfrew] fence	2 services located in same box
2377	Robertson Rd	7m from road, 2m from property line. Located on the Ward side of the property	BLACK BOX
2308		5m R of LHS property line 6m from road near rock wall	BLACK BOX
2311		6m L of d/w 2m from road	BLACK BOX, NO SENSOR, NO DOME [in Lawn]
2312	San Juan Pl	5.5m R of d/w 1m from road	BLACK BOX
2313		2m R of RHS of d/w 1m from road	
2317		In gravel 1m L of d/w 1.5m from road	BLACK BOX
2318		0.5m L of d/w 5m from road in black box	BLACK BOX
2967		0.5m L of d/w 6m from road in the lawn	BLACK BOX, TO MUCH FILL, NO DOME
2971	Slucius shiwa Bal	6m R of LHS property line 8m from road	[In the middle of the garden]
2975	Skrimshire Rd 🗕	[On Cudlip facing property] 6m R of LHS property line 10m from road, just behind fence	GREEN IRRIGATION LID - confirm
2692		0.5m R of LHS property line 3m from road, just outside of fence in black box.	BLACK BOX NEEDS FILL AND IS TWISTED
2686	=	1m R of LHS property line 3m from road in black box near hedge	BLACK BOX, VERY DEEP, EXCESS FILL AND IS TWISTED
2680	Sunny Glades Ln	5m R of d/w 7m from road in black box	BLACK BOX
2684		6m L of d/w 7m from road	BLACK BOX
		8m R of [2126 Renfrew] d/w 6m from road	
2691 ———		in black box	
2114		8m L of d/w 9m from road in middle of lawn	BLACK BOX
2115		0.5m R of LHS property line 6m from road	BLACK BOX
2117	Tall Tree Ln	0.5m L of RHS property line 5m from road	
2118		0.5m R of RHS property line 7m from road	Located on neighboring property

2120	1	O Em D of LUC nagody line 7m from and	BLACK BOY
2120		0.5m R of LHS property line 7m from road	BLACK BOX
2327	ļ	9m L of d/w 6m from road behind hedge	BLACK BOX DEEP BUT GOOD
2329]	1m R of LHS property line 7m from road	BLACK BOX WITHOUT DOME
2345		2m R of d/w 5m from road	BLACK BOX
2351	Terrace Rd	LHS of property 6m L of d/w 7m from road	BLACK BOX
2359		Center of property 7m from road, below slope near large rock	
2377		Along RHS of d/w 6m from road in black box	BLACK BOX FILLED WITH INSULATION
2853		7m from road, 2m left of PL	BLACK BOX
2854	ľ	8m R of d/w 5m from road	BLACK BOX
	Ward Rd	5m from road, 3m from R PL. LHS of	
2856		gravel driveway, under 1/2 ft of gravel and 3 pieces of wood	BLACK BOX
2239		3m R of [2241 Welcome Ln] d/w 6m from road	Located on neighboring property
2241	Welcome Ln	3m R of d/w 6m from road	BLACK BOX
2243	ľ	7m L of d/w 3m from road	BLACK BOX, NEEDS FILL
2028	Widows Walk	0.5m L of RHS property line 5m from road	(Friendly Dog)
2024		[Inside 2028 Widows Walk fence] 0.5m L of	
2034		LHS property line 5m from road	Located on neighboring property
2035	•	Along RHS property line 6m from road	In thorn bushes
2040		9m R of d/w 6m from road in front of garage near tire swing	BLACK BOX NEEDS FILL
2044		[Behind Hedge] 7m R of [2040 Widows Walk] garage d/w 4m from road near utility pole	BLACK BOX LEANING, ALSO SERVICES ALL OF 2046, SENSUS SR2
2048		Along LHS of property 4m from road, behind boulder	
2051		1.5m R of [2061 gravel d/w] 7m from road in large concrete box	3 meters located in same box, please confirm which meter is connected to which service and after installation is complete please label each meter with the corresponding address.
2054	Widows Walk	1m R of LHS property line 6m from road buried in the lawn	-
2061		1.5m R of gravel d/w 7m from road in large concrete meter box	3 meters located in same box, please confirm which meter is connected to which service and after installation is complete please label each meter with the corresponding address.
2063		2m L of RHS property line 6m from road	BLACK BOX, NEEDS FILL
2064		2m R of d/w 6m from road	
2068		2m R of [2064 Widows Walk] d/w 6m from	Located on neighboring property
2069		[On Morningstar facing property] Along LHS property line 6m from road in black box	BLACK BOX TOO MUCH FILL

2070		1m L of RHS property line 8m from road buried in the lawn		
2073		[On Cullin facing property] 1m R of LHS property line 8m from road		
2660		Along RHS property line 6m from road	[Shutoff for 2660 and 2668 located in same green box]	
2668		Along LHS property line 6m from road	[Shutoff for 2660 and 2668 located in same green box]	
2675		Along LHS property line 7m from road in black box near utility pole	8	
2683		Along RHS property line 6m from road in black box near utility pole	[Just before fence on RHS of property]	
2690	Worthington Rd	Along RHS property line 5m from road near utility pole		
2695		Along RHS property line 7m from road in black box	7-11	
2696		[On Worthington facing property] Along LHS property line 4.5m from road near utility pole	BLACK BOX	
2659		Along LHS property line 6m from road under green shrub	V	
2669		Along RHS of property line 6m from road		
2715		1m L of LHS d/w 6m from road near utility pole		
2717	Worthington Rd	0.5m R of gravel d/w 6m from road near utility pole	BLACK BOX	
2760		1m R of LHS property line 6m from road		
2761		Located under fruit tree 1m inside homeowners fence, 1m from base of tree 6m from corner of fence	±	
		Number of Properties		182

Permit/File Number: 2016-04706

Office: Saanich Area Office

PERMIT TO CONSTRUCT, USE, AND MAINTAIN WORKS WITHIN THE RIGHT-OF-WAY OF A PROVINCIAL PUBLIC HIGHWAY

PURSUANT TO TRANSPORTATION ACT AND/OR THE INDUSTRIAL ROADS ACT AND/OR THE MOTOR VEHICLE ACT AND/OR AS DEFINED IN THE NISGA'A FINAL AGREEMENT AND THE **NISGA'A FINAL AGREEMENT ACT.**

BETWEEN:

The Minister of Transportation and Infrastructure

Saanich Area Office 240-4460 Chatterton Way Victoria, British Columbia V8X 5J2 Canada

("The Minister")

AND:

Cowichan Valley Regional District 175 Ingram Street Duncan, British Columbia V9L 1N8 Canada

("The Permittee")

WHEREAS:

- A. The Minister has the authority to grant permits for the auxiliary use of highway right of way, which authority is pursuant to both the Transportation Act and the Industrial Roads Act, the Motor Vehicle Act, as defined in the Nisga'a Final Agreement and the Nisga'a Final Agreement Act;
- B. The Permittee has requested the Minister to issue a permit pursuant to this authority for the following purpose:

The installation, operation, and maintenance of an existing water services upgrade to include water meters to 174 lots within Shawnigan Beach Estates as per application dated September 1, 2016 and shown on design drawings ES-024-16, Figures 1 & 2

C. The Minister is prepared to issue a permit on certain terms and conditions;

ACCORDINGLY, the Minister hereby grants to the Permittee a permit for the Use (as hereinafter defined) of highway right of way on the following terms and conditions:

- 1. That the construction and maintenance of the said works is carried out to the satisfaction of the Regional Director, Transportation.
- That, before opening up any highway or interfering with any public work, intimation in writing of the intention to do so must be 2. given to the District Official at least seven days before the work is begun.
- That any person appointed by the Regional Director, Transportation, for the purpose shall have free access to all parts of the 3. works for the purpose of inspecting the same.
- That where the work for which permission is hereby granted comes in contact with any bridge, culvert, ditch, or other existing 4. work, such existing work must be properly maintained and supported in such manner as not to Interfere with its proper function during the construction of the new work, and on the completion of the new work the bridge, culvert, ditch, or other existing work interfered with shall be completely restored to its original good condition.
- That the person or persons for whom these works are being constructed, or by whom these works are maintained, shall at all 5. times accept full responsibility for any accident that may occur or damage that may be done to any person or property whatsoever caused directly or indirectly by these works, and shall save harmless and keep indemnified the Crown from all claims and demands whatsoever in respect of the works.

FIGURE



Permit/File Number: 2016-04706

Office: Saanich Area Office

6. That the permission herein granted to use and maintain the works is only granted for such times as the land or public work in, upon, or over which the said works are constructed is under the jurisdiction of the Minister of Transportation and Infrastructure. This permission is not to be construed as being granted for all time, and shall not be deemed to vest in the Permittee any right, title or interest whatsoever in or to the lands upon which the works are constructed. Should the lands affected at any time be included within that of an incorporated municipality or city, this permission shall become void, unless the works are on a highway duly classified as an arterial highway pursuant to Section 45 of the Transportation Act.

- 7. That after receiving notice in writing of the intention on the part of the Provincial Government to construct, extend, after, or improve any public work, the person or persons responsible for the maintenance of the works for which permission is hereby granted shall within six weeks move or after such work at his or their own expense to such new positions or in such manner as may be necessitated by the construction, extension, afteration, or improvement proposed to be carried out by the Provincial Government.
- 8. That while reasonable care will be taken on the part of the Provincial Government to do as little damage as possible to any private work in the carrying-out of the construction, extension, alterations, improvement, repair, or maintenance of any public work adjacent thereto, the Provincial Government can accept no responsibility for any kind of such damage.
- That the permission hereby granted to construct, use, and maintain work is granted without prejudice to the provisions of the Transportation Act, or other Acts governing Crown lands and public works or their use by the public.
- 10. That this permission shall be in force only during such time as the said works are operated and maintained by the applicants, to the entire satisfaction of the Regional Director, Transportation.
- 11. That the Ministry will not be responsible for grade changes on accesses caused by reconstruction of any Provincial highway.
- 12. This permit is valid only for the specific works stated herein. Any alterations or additions must be covered by a separate permit.
- 13. This permit may be canceled, at the discretion of the Minister, without recourse, should the Permittee fail to comply with all the terms of the permit. Thirty days notice will be given before cancellation.
- 14. When the requirements of the Ministry necessitate use of the said lands for Provincial purposes, at the discretion of the Minister, this permit may be cancelled.
- 15. That these works shall be identified with this permit number in a manner satisfactory to the District Official of the Ministry of Transportation and Infrastructure.
- As a condition of this permit, the Permittee unconditionally agrees with the Ministry of Transportation and Infrastructure that the Permittee is the prime contractor or will appoint a qualified prime contractor, as described in Section 118 of the Workers Compensation Act, for the purposes of the work described by this permit, at the work location described in this permit, and that the Permittee or designated prime contractor will observe and perform all of the duties and obligations which fall to be discharged by the prime contractor pursuant to the Workers Compensation Act and the Occupational Health and Safety Regulation.
- 17. The Permittee is advised and acknowledges that the following hazards may be present at the work location and need to be considered in co-ordinating site safety: overhead hazards, particularly electrical or telecommunications lines; buried utilities, particularly electrical, telecommunication, and gas lines; traffic, danger trees, falling rocks, and sharp or infectious litter.
- 18. Any works within the Ministry right-of-way that fall within the scope of "engineering" under the Engineers and Geoscientists Act will be performed by a Professional Engineer, and shall comply with this Ministry's "Engineer of Record and Field Review Guidelines". The Guidelines can be viewed on the Ministry's website at http://www.th.gov.bc.ca/publications/Circulars/All/T_Circ/2009/t06-09.pdf
- 19. The Permittee is responsible for preventing the introduction and spread of noxious weeds on the highway right-of-way as defined by the British Columbia Weed Control Act and Weed Control Regulation.
- 20. The Permittee shall be responsible for the preservation during construction of all geodetic benchmarks, survey monuments and property markers on the right-of-way. The Permittee shall use, at no expense to the Ministry, a British Columbia Land Surveyor to replace any survey monuments destroyed or damaged as a result of the Permittee's negligence. At locations where construction work will cover or destroy such markers, the Permittee shall not move or remove them until written direction is received from the Ministry Representative.
- 21. The Permittee shall, at his cost, supply, erect, and maintain standard traffic control devices in accordance with the Ministry of Transportation and Infrastructure Traffic Control Manual for Works on Roadways and Occupational Health and Safety Regulation.
- 22. All unsuitable material and inorganic debris shall be removed from the project area. All surplus or unsuitable organic waste and debris shall be removed from the site unless its complete burning is approved by the Designated Ministry Official in compliance with the B.C. Open Burning Smoke Control regulation.



Ministry of Transportation

Permit/File Number: 2016-04706

Office: Saanich Area Office

The Minister may order the removal or alteration of utility installations, if necessary, for the protection of the highway or highway 23.

If the utility owner does not respond to an order to remove or alter a utility installation, the Minister may carry out that work and recover costs from the utility.

- Permittee is responsible for ensuring that all works are contained to the highway right of way. Any works located within private 24. property must have the owner's permission.
- A copy of the permit is to be kept by the field supervisor, in order that he is aware of all permit conditions. 25.

					(*)		
The rights gra	inted to the F	Permittee in this permit are to	be exerci	sed only for th	he purpose as defi	ned in Recital B on page 1.	93
Dated at	Victoria	, British Columbia, this	13	day of	September	. 2016	
					On Behalf of ti	Muad had Minister	

METER INSTALLATION SHEET

NOTE: It is important that all the the required information below be supplied & accurate.

BILLING INFORMATION	NAME OF UTILITY:	
FOLIO NUMBER		
OWNER		
SITE ADDRESS	2300 RAUGNAILZ	
BILLING ADDRESS		
LEGAL DESCRIPTION		
METER LOCATION:	5.3m off E/P GRA	GORY RO
	IN LINE WITH FROM	
INSTALLATION	New meter replacing old meter (if no, "X" out old meter information column)	T YES NO NO
METER INFORMATION	OLD METER INFO	NEW METER INFO
METER BODY NUMBER		
ELECTRONIC HEAD NUMBER		Order: 00362876 Line: 002
METER SIZE		Date: 0915
MANUFACTURER	X	Part No: S2DX338MGXXXX
MANUFACTURED DATE		Desc: MTR-LL 5/8-3/4\$RII ER-TRPL M3
MODEL		BTM/BRZ 5WHL4A 1M3 6'SPK
UNITS OF MEASURE		Sensus
TOUCH PAD READ		Meter SN: 79898083
VISUAL READ		Flow:
ELECTRONIC READING		Low: 098.7 Mid:101.0 Hi:099.9
DATE OF READING		Register Cust ID:
DATE NEW METER INSTALLED		74142847 -
NEW METER INSTALLED BY	N/A	Fact ID: 74142847
COMMENTS		Country to the second s
		Pert 1 055200 - F1 - FC - X - E - M1 TX 05-58820310 Dele: 100745

METER INSTALLATION SHEET

NOTE: It is important that all the the required information below be supplied & accurate.

BILLING INFORMATION	NAME OF UTILITY:	
FOLIO NUMBER		
OWNER		
SITE ADDRESS		
BILLING ADDRESS		
LEGAL DESCRIPTION		
METER LOCATION:		
INSTALLATION	New meter replacing old meter (if no, "X" out old meter information column)	T YES TO NO
METER INFORMATION	OLD METER INFO	NEW METER (NFO
METER BODY NUMBER		THE PARTY OF THE P
ELECTRONIC HEAD NUMBER		
METER SIZE		
MANUFACTURER		T KENT T SENSUS
MANUFACTURED DATE		a care emergin
MODEL		
JNITS OF MEASURE		TYES Cubic Metres NO
OUCH PAD READ		T YES NO
/ISUAL READ		And the second s
ELECTRONIC READING	V	
ATE OF READING		
ATE NEW METER INSTALLED		
IEW METER INSTALLED BY	N/A	
OMMENTS		

FIGURE 6 - CVRD- SUPPLIED MATERIALS DETAILS

Corix Water Products LP

QUOTATION

2622 Beverly Street Duncan, BC V9L 3C7 CANADA

COLIX. **Water Products**

Tel: 250-746-8877 Fax: 250-746-8335 www.corix.com

Sales Quote Number: 1051212709 Sales Quote Date: 05/19/15

Page: 1

Bill To:

COWICHAN VALLEY REG.DIST

175 INGRAM STREET DUNCAN, BC V9L 1NB

CANADA

Tel: 250-746-2576 Fax: 250-746-2581 Ship To:

COWICHAN VALLEY REG.DIST

175 INGRAM STREET

DUNCAN, BC V9L 1N8

CANADA

Customer No. Terms

COWVALREG

2% 30th next month net

Closing Date Ordered By SalesPerson

Project

Neall Rowlings Chad Clark

Engineer Cust Job No.

Cust Job Desc.

Material pricing

Cust PO No.

Shawnigan Lake pits

Total Price

Printed

Ship Via

Terms

F.O.B.

NROWLINGS

05/21/2015

09:28 AM

Creator

Unit Quantity **Unit Price**

Item No.	Description	Unit
COB937TEXT120	#B937 305MM TOP/EXT	EA
COB937TEXT060	#B937 150MM TOP/EXT	EA
CO37LCI3HOLE	#37 CI METER BOX LID TRPL HOLE	EA
MES20MTCSPHRLD	520M TC SP HOURLY/LK D *	EA
MME00048	5/8X3/4"SRIIER/TRPL M3 5WBBNL	EA
FCB00394	760215WDTT 33X15 5/8X3/4STTRNL	EA
CBAY6133T007	3/4 PE SOLID SS INS 6133T	EA

^{*}Only required if existing in-line meter is not functional or not a Sensus II meter.

Taxable Amount 0.00

Tax Exempt Amount

0.00

Subtotal: Total Tax: 0.00 0.00

0.00

Thank you for the opportunity to quote. This quote prepared for you by:

Chad Clark

Tel: 250-746-8877

chad.clark@corix.com

Total:

THIS QUOTATION IS VALID FOR THE IDENTIFIED CUSTOMER ONLY AND DOES NOT CONSTITUTE AN OFFER TO SELL. ALL QUOTATIONS ARE SUBJECT TO APPROVAL OF CREDIT, CORIX ACCEPTS NO RESPONSIBILITY FOR THE CORRECTNESS OR COMPLETENESS OF MATERIAL QUOTED. F.O.B. POINT & PRICES ARE BASED ON ALL ITEMS AND QUANTITIES QUOTED UNLESS OTHERWISE NOTED.

ALL PRICES ARE FIRM FOR ACCEPTANCE WITHIN

DAYS OF QUOTATION DATE

GST/HST No.

83522 9451RT

DS-W-SR2-00-00-0312-04-A

SR II Low Lead Meters

Displacement Type Magnetic Drive Cold Water Meters

Description

5/8" (DN 15mm), 3/4" (DN 20mm) and 1" (DN 25mm) Sizes

Measurement of cold water where flow is in one direction only; in residential, commercial and industrial services.



Features

CONFORMANCE TO STANDARDS

Sensus SRII Low Lead Water Meters meet the requirements of NSF Standard 61, Annex F and G and comply with ANSI/AWWA Standard C700-latest revision Each meter is tested to insure compliance with AWWA standards.

CONSTRUCTION

Sensus SR II Low Lead Water Meters consist of three basic components: maincase; measuring chamber, and sealed register. Maincases are made of Blamuth BIAlloy GDA89836 or EnviroBrass II 089520 with externally-threaded spuds Registers are housed in a bonnet of synthetic polymer Measuring chambers are of Rocksyn[®], a corresionresistant, tailored thermoplastic material formulated forlong-term performance and especially suitable for aggressive water conditions. Maincase bottom plates are available in Bismuth BiAlloy, EnviroBrass II on if frost protection is desired, in cast iron on synthetic polymen

SEALED REGISTER

Hermetically sealed, proven magnetic drive design eliminates dirt and moisture contamination, tampering and lens fogging problems. Standard registering udes a straight reading, odometer, to display, a 360° fast circle with center sweep hand, and a low flow (leak) de-

tector. Gears are selflubricating, molded plastic for long life and minimum friction.

No change gears are required for accuracy calibration. Encodertype remote reading systems are available for all SR III Low Lead Water Meters: (See other side of sheet for additional information.)

TAMPERPROOF FEATURES

A unique locking system prevents customer removal of the register to obtain free water. The register can only be removed by breaking the register bonnet.

MAGNETIC DRIVE

The SR II flow Lead features a hydrodynamically oushioned design that eliminates premature wear of components. The meter utilizes a patented positive, reliable drive coupling. The highatrength magnets used will eliminate "drive slip" in normal use and also provide edequate, strength to drive remote registerrunks.

OPERATION

Water flows through the meter's strainer and into the measuring chamber where it drives the piston. The hydrodynamically balanced piston cacillates around a central hub, guided by the division plate.

A drive magnet transmits the motion of the piston to a driven magnet located within the hermetically sealed register The driven magnet is connected to the register gear train. It reduces the piston oscillations into volume totalization units displayed on the register dial face.

MAINTENANCE

Sensus SR Ill:Low Lead Water Meters are engineered to provide long-term value and virtually maintenance-free operation. Simplicity of design allows interchangeability of parts of like-size meters, reduced parts inventory requirements, and ease of maintenance. The register can be removed without relieving the water pressure or removing the maincase from the installation.

CONNECTIONS

Tallpieces/Unions for Installing the meters on a variety of pipe types and sizes are available.

AMR / AMI SYSTEMS

Meters and encoders are compatible with current Sensus AMR/AMI systems.

GUARANTEE

Sensus SR II Water Meters are backed by "The Sensus Guarantee" Asto your Sensus representative for details or see Bulletini.G-500.



FlexNet

SmartPoint M2

Description

Model 520M - Pit Set

The FlexNet SmartPoint M2 is a radio transceiver that provides water utilities inbound and outbound access to water measurement and ancillary device diagnostics via radio signal. The SmartPoint 520M is designed for submersible, pit-set environments. With its migratable, two-way communication ability, the M-Series SmartPoint functions as a walk-by/drive-by endpoint, fixed base endpoint, or combination of the two. This flexibility increases utility data collection capabilities and streamlines operations.



Features

TOUCHCOUPLER DESIGN

The SmartPoint M2 utilizes TouchGoupler, the patented Sensus inductive coupling communication platform to Interface with the encoded meter. With TouchGoupler, the SmartPoint M2 can connect to the meter using existing two wire AMR installations instead of requiring utilities to access the meter to install a new three-wire connection. This results in a fast, efficient and reliable connection at minimal cost.

OPERATION

The FlexNet SmartPoint M2 receives input from the meter register and remotely sends data to a walk-by/drive-by or fixed base collection device. The SmartPoint M2 easily migrates from walk-by/drive-by to fixed base by simply installing a Base Station.

In walk-by/drive-by mode, the SmartPoint M2 collects data and awaits an activation signal from the Vehicle Gateway Basestation (VGB) or Hand-Held Device (HHD). Upon signal receipt, it transmits readings, the meter identification number and any alarms.

As a fixed-base endpoint, the SmartPoint M2 interacts with one or more strategically placed Base Stations located in the utility service area. Top of the hour readings and other diagnostics are instantly forwarded to the Regional Network Interface (RNI) at time of transmission. The FlexNet system provides unmatched reliability by

using expansive tower receiver coverage of metering end points, data/message redundancy, fall over back up provisions and operation on FCC primaryuse (unshared) RF spectrum.

POWERFUL TRANSMISSION, FLEXIBLE PLATFORM

The SmartPoint M2 offers several advantages that control both deployment and lifetime operation costs. It's powerful, industry leading two watt transmitter broadcasts over large distances and minimizes collection infrastructure. And once the SmartPoint M2 is installed, its migratable, two-way system platform can be updated without requiring personnel to visit each meter and/or inconveniencing customers.

ADDITIONAL SMARTPOINT M2 FEATURES

The SmartPoint M2 obtains hourly readings and can monitor continuous flow over a programmable period of time, alerting the utility to leak conditions. In addition, the SmartPoint M2 stores up to 840 consumption intervals (35 days of flourly consumption), providing the utility with the ability to extract detailed usage profiles for consumer information and dispute resolution. The SmartPointM2 also incorporates a two-port design, allowing the utility to connect multiple registers and ancillary devices (such as acoustic monitoring) to a single SmartPoint. This results in acompact firstallation that sayes

time, space and money - without reducing system performance.

SPECIFICATIONS

SPECIFICATION	45
SLAVICE	Officet installation tree body the utility mater to the Benate. Restrict systems 1/75-defects hold to put 1/6-defects hold to put 1/6-defects up to 1/75-
PHYSICAL CHARACHERISTICS	Wigan: 4:43" x Height (5:09" to Depth 5"
witten	100 boy (0.0 car
COLUM	Black
PREGUENCY WANG!	900 - 950 MHz, 8000 ohennels X 5:25 kHz slaps
tronu. seton	Proprietery Narrow Band
MUMORY	Non-Volette
POWER	Librum Thioryl Chloride betieves
KOTHOUNE	US: FCC CFR 47 Part 90, Part 240, Part 1010; Part 15. Ucursed aperation. Canada: Industry Canada (40), ASS-134, RSS-118, RSS-210.
DETRAINS TOWN MATURE	-221E lo *1851F -301 G.lo ±.851 C
DITIONS	Opel or simple port evaluatity; TouchCospier only, wired only, Miconconnection
PESTALLATION	100% condensing water strivings
(Englishming)	BIA
COMPANIES	TouchCoupler and Wired Version: Sensus Encoded Reg- isters Bedget ADs water registers and MesserNeter According
	Wired Version Only, Ester En- opelar (Bensus protocol) and Nep- ture ARB Vr. (ProReed). Hersey Trepsistor.
WARRANTS	20 years - Based on Six
	Refer to Bernug C1500 for represely.

a) All products purchased and services performed and subject to depose. He may be subject to depose the product of the product

THE GROWN IS NO MOUNTS OF AUTOMATION OF A PROBLEMANTS OF SOME STANDARD VALUE OF THE PROPERTY OF A PROBLEMANT O



WDS-10010-02

Electronic Register

Data Sheet

APPLICATION AND FEATURES

The Sensus Electronic Register is a straight reading register that provides accurate and error-free meter reading via an LCD display. It provides greater reading resolution, reliability, end-user options, and other benefits. It is compatible with the Sensus AMRI/AMI System and is fully compliant with ANSI/AWWA Encoder Standard C707-5. There are nine digits on the display, the ninth being a low flow indicator. Other features include removability with a unique locking system, rate of flow gauge, forward and reverse flow indicator, field programmability, and a 20 year warranty.

OPERATION

The Electronic Register utilizes "magnetic-field position sensing" technology to determine the orientation of the water meter shaft. Through electronics, it is able to count the number of rotations, and display the measurements on the LCD. The register can show both volume and flow rate on the display as well. The Sensus Electronic Register can be used with Sensus positive displacement meters because no torque is developed beyond that in a standard, visual read register.

AMR/AMI SYSTEM COMPATIBILITY

The Sensus Electronic Register is adaptable and configured for installation and interrogation in a two-wire TouchRead mode, three-wire AMR mode, or terminal block option, making it totally compatible with existing systems that use each mode. The meter reading data, which consists of up to 8 digits of the adometer reading and the register ID number, are transmitted in ASCII standard code that is used by most of the data communications industry.

SENSUS AMR/AMI SYSTEM MIGRATION

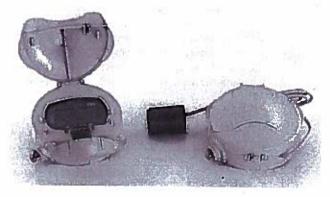
All Sensus AMR registers, past and present, provide three connection posts, two of which are needed for TouchRead applications and three for RadioRead and FlexNet systems with three wire systems. This enables a utility to easily and economically upgrade from a TouchRead System to a more-advanced AMR/AMI system without having to replace the registers on its meters.

HIGHER RESOLUTION READINGS

With its nine functioning register digits, greatly enhanced reading resolutions are provided. For example, on a register that records consumption in gallons, the right-most digit displays usage in hundredths of a gallon. The digit to its left displays usage in tenths of gallon units. Similar highly-definitive reading resolutions are also provided when the register is configured for volume usage in cubic feet and cubic meters.

WIRING CONNECTIONS

To ensure reading-integrity, the Sensus Electronic Register's pit set wiring connections are protected from moisture through the encapsulation (potting) of wiring components with a special epoxy material during the manufacturing process.



UNIQUE REGISTER IDENTIFICATION NUMBER

As with their predecessor ECR registers, Electronic Registers incorporate a unique, never-duplicated identification number that is factory-set into the register's non-volatile electronic memory. The ID number thereby identifies a particular meter, and links the customer it serves to a utility's billing computer.

WIRE CONNECTION

Sensus Electronic registers provide three terminals for connecting wires to it, labeled R for red, B for black and G for green. For TouchRead System use, wiring from the R and B terminals are connected to a TouchPad remote-reading module.

In Sensus AMR/AMI System applications such as TouchRead, RadioRead and FlexNet, a three-wire connection or two-wire "TouchCouple" allow you to properly link the register to its AMR interface device. When the interrogation device cannot communicate with the register, it will provide an alert signal, which can be viewed Immediately in Logic.

ASCII PROTOCOL

The register output data format is 7-bit ASCII (American Standard Code for Information Interchange) digital, plus an even parity bit. Upon interrogation with a TouchPad or AMR/AMI product, the register will transmit an odometer reading containing from 4 to 8 digits (field programmable) and a user defined alphanumeric identification of up to 12 characters (field programmable). The register can also be programmed to output a factory set, nonprogrammable identification number, Customer Text of up to 20 alphanumeric characters (field programmable), a reading multiplier ranging from 10-99 to 1099 (field programmable), and/or a reading measurement unit indicator (for example, US Gallons – field programmable). The register's ASCII digital output is capable of interfacing directly to an AMR/AMI transponder to transmit data via radio signal or wired connections to an AMR/AMI system.

INSTALLATION AND USE CONSIDERATIONS

Strict adherence to proper installation procedures and reading methods are required to achieve reliable readings from an electronic register.



SUBMITTAL INFORMATION

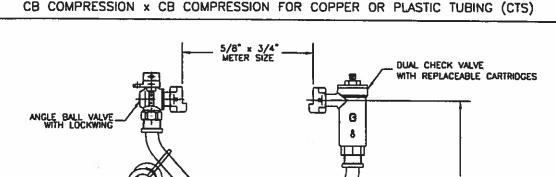


___ 3/4"
CB COMPRESSION

OUTLET

COPPER SETTER 6031NL-2__H3H3-UQP

3/4" FULL PORT METER BALL VALVE BY DUAL CARTRIDGE CHECK VALVE



HEIGHT 13/16" O.D. COPPER TUBING TIE BAR

15/16" DIA. VERTICAL 3/4" CB COMPRESSION BRACING EYE 15" TUBE EXTENSION

HEIGHT CATALOG NUMBER 6031NL-212H3H3-UOP 15" 6031NL-215H3H3-UQP

6031NL-218H3H3-UQP

6031NL-221H3H3-UOP

6031NL-224H3H3-UOP

COPPER SETTER CATALOG NUMBERS

FEATURES:

MANUFACTURED IN COMPLIANCE WITH AWWA STANDARD CB00 (ASTM 8-584, UNS NO C89833).

18

21"

24

- MANUFACTURED IN COMPLIANCE WITH AWWA STANDARD CB00 (ASTM 8-584, UNS NO C8983; CONFORMS TO ANSI/NSF 61-8 CONFORMS TO ANSI/NSF 61-8 CONFORMS TO ANSI/NSF 372 (COMPLIANT WITH US Safe Drinking Water Act. PL 111-380) SADDLE NUTS HOLD THE METER IN PLACE FOR TIGHTENING.
 TIE BAR IS STANDARD FOR 18" AND TALLER RESETTER HEIGHTS.
 13/16" O.D. COPPER RISERS PROVIDE MORE FLOW CAPACITY.
 ASSEMBLED WITH LEAD-FREE SOLDER.
 RRACING EYE IS STANDARD.
 POSITIONS THE METER DIRECTLY ABOVE THE CENTERLINE OF THE SERVICE.
 FURNISHED WITH TWO RUBBER GASKETS FOR METER NUTS
 CONSTRUCTED WITH TYPE K COPPER TUBING, ALLOY C1200 MANUFACTURED TO ASTM B88.
 ANGLE VALVE HAS PADLOCK WINCS FOR LOCKING VALVE IN CLOSED POSITION.
 FACTORY TESTED AT 90 PSI AIR PRESSURE UNDER WATER.
 METER SETTER IS SHIPPED WITH PLASTIC METER IDLER

Combridge Bross considers the information in this submittel form to be correct of the time of publication. Item and aption availability, including specifications, are subject to change without notice.

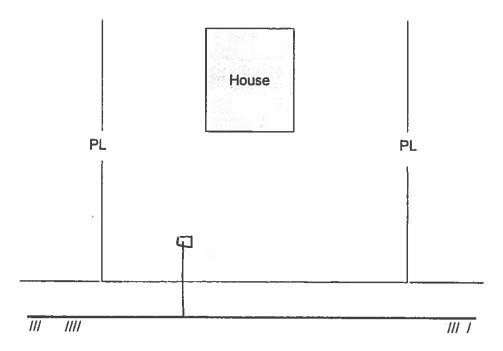
Cambridge Brass P.O. Box 249, 140 Orion Place Cambridge, Ontario Canada N1R 5V1 Tel: (519) 621-5520 Fax: (519) 621-8674 http://www.cambridgebrass.com

GASKETS

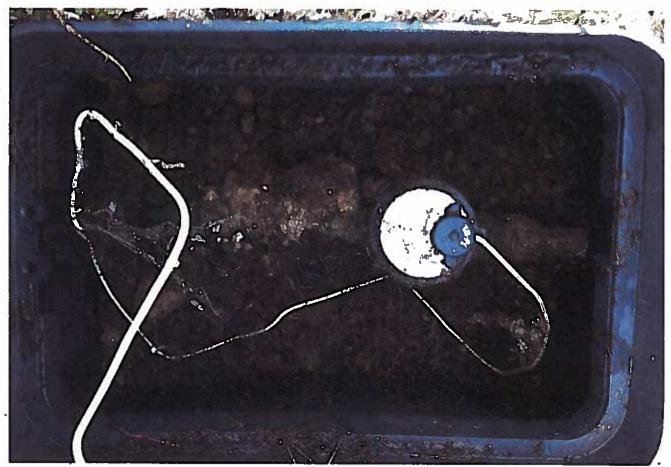


SUBMITTED BY:





Contact Information:					
Address:	2069	Air bright			•)
Water Service:	Required	<u>Found</u>			
Meter Setter Meter Box Meter (Model 520R) Curb Stop					Ø.
	Yes	No			
Water Service Located					
House Shut-off Valve Locat	ted 🔀				
Notes: Middle of	found found	Cock box.	left	of	Dhy
	,	-			



2069 Airbright (2)



2069 Airbright