

## ADDENDUM #2

### Tender No. ENG 26-03 – TOE Esquimalt Rd Phase 2 – Active Transportation and Underground Utility Renewals

Please note the following Clarifications, Questions and Answers for the above noted Tender is to be known as Addendum #2. Bidders are to reference receipt of Addendum #2 in their submission.

#### **Bidder Questions and Township Answers:**

**Question #1:** Can you please confirm which brand of detection camera is required at Esquimalt Road and Nelson Street? Is the Contractor or Township supplying the video detection camera and equipment? If the Township is supplying the equipment, what is included?

**Answer#1** To maintain consistency with existing signalized intersections within the Township of Esquimalt, the video detection equipment at Esquimalt Road and Nelson Street shall be **Iteris Vantage Next.**

The Contractor shall supply and install all video detection cameras and associated equipment required for a complete and operational installation. The Township will not be supplying any video detection equipment for this project.

**Question #2:** What is the colour of the traffic signal heads and secondary heads?

**Answer#2:** Primary traffic signal heads shall be green with yellow backboards. Secondary traffic signal heads shall be green to match existing Township of Esquimalt traffic signal installations.

**Question #3:** Is the Contractor supplying the road signs located on the traffic signal arms?

**Answer#3:** The Contractor shall supply and install all road signs shown on the contract drawings, including those mounted on traffic signal arms.

The cost of supplying and installing signs shown on the electrical drawings shall be included within the applicable lump sum traffic signal items in the Schedule of Quantities for each location. No separate payment will be made for these signs under Division 34 signage items (SOQ Items 6.9 through 6.14).

**Question #4:** Are Guardian Wave push buttons an approved alternate for traffic signals and RRFBs?

**Answer#4** No. To maintain consistency with existing Township of Esquimalt installations and the Approved Products List, Polara push buttons shall be used for both traffic signal and RRFB installations.

**Question #5:** Please confirm yellow finish on the RRFB flashers.

**Answer#5** Confirmed. RRFB flashers shall have a yellow finish.

### **Additions, Revisions, and Clarifications**

1. Updated City of Victoria Approved Product List (Revised 2025-06-10) is attached and to be included in *Form of Agreement – Supplemental Detail Drawings* and supersedes any prior version referenced in the Contract Documents. All waterworks materials and products shall conform to the attached Approved Product List.
2. City of Victoria Supplementary Standard Detailed Drawing (W2a, W2b, W2c, and W2d) are attached and to be included in *Form of Agreement – Supplemental Detail Drawings*. The Contractor shall refer to the City of Victoria [works-and-services-bylaw-no-26-004](#) for all applicable City of Victoria standard waterworks details
3. *Supplementary Specifications Section 33 11 01 – Waterworks, Sub-Section 1.8.16.1– Valve Removal and Abandonment*: the payment item description is revised in full to read as follows: Valve Removal and Abandonment (per each): Payment includes closure of the existing valve in the fully closed position, excavation to expose the valve box assembly, removal of the valve box casting, riser, and sleeve to a minimum of 300 mm below finished grade, off-site disposal of removed components, granular backfill and compaction, and temporary surface restoration. The valve body shall remain in place. No separate payment will be made for excavation, backfill, or compaction associated with valve box removal.
4. *Supplementary Specifications Section 33 11 01 – Waterworks, Sub-Section 1.8.16.2 – Hydrant Removal (per each)*: the payment item description is revised in full to read as follows: Hydrant Removal (per each): Payment includes excavation to expose the hydrant boot, disconnection of the hydrant assembly from the hydrant boot a minimum of 300 mm below finished grade, removal of the hydrant body, capping of the hydrant boot with a mechanical joint cap or blind flange acceptable to City of Victoria Operations, granular backfill and compaction, and surface restoration to match surrounding conditions. The removed hydrant shall be delivered to the City of Victoria Public Works Yard in good condition; the Contractor shall coordinate the return and delivery schedule with City of Victoria Operations prior to removal. Delivery to the Public Works Yard is included in this item. The hydrant lead pipe, hydrant lateral gate valve, and tee connection at the mainline shall remain in place. The hydrant lateral gate valve shall

be closed and the valve box casting, riser, and sleeve removed in accordance with Sub-Section 1.8.16 – Valve Removal and Abandonment.

5. *Supplementary Specifications Section 33 11 01 – Waterworks, Sub-Section 1.8.2. Water Service Connection (per each):* the payment item description is amended to include the following: Where the trench excavation for a new water service connection encounters an existing valve shown to be abandoned in place, closure of the valve and removal and off-site disposal of the existing valve box casting, riser, and sleeve to a minimum of 300 mm below finished grade shall be included in the unit price for the Water Service Connection. No separate payment will be made under the Valve Removal and Abandonment item for valves abandoned within the Water Service Connection trench excavation footprint.
6. *Supplementary Specifications Section 33 11 01 – Waterworks, Sub-Section 1.8.14– Measurement and Payment: Clause 1.8.14 is amended by adding the following item to the list of items included in payment for hydrants:* .10 Closure of the valve and removal and off-site disposal of the existing valve box casting, riser, and sleeve to a minimum of 300 mm below finished grade for any existing valve shown to be abandoned in place that is encountered within the trench excavation footprint of a new hydrant lead. No separate payment will be made under the Valve Removal and Abandonment item for valves abandoned within the trench excavation footprint of new hydrant leads.
7. *A revised – Appendix 1 – Schedule of Quantities and Prices – Form of Tender* is attached to this Addendum: the quantity for Valve Removal and Abandonment is reduced from 10 each to 6 each, reflecting the removal from this item of valves that fall within the trench excavation footprint of new water service connections (3 each) and the new hydrant lead (1 each). Bidders must use the revised Schedule of Quantities and Prices when submitting their Tender.

**Clarification:**

**Please note:** No more tender questions will be received after June 11<sup>TH</sup> 2026.

**FORM OF AGREEMENT >> SUPPLEMENTAL DETAIL DRAWINGS (page 9 of 9)**

Revised to include:

- COV APPROVED PRODUCT LIST (REVISED 2025-06-10)
- COV-SD-W2a WATER SERVICE CONNECTION FOR 19mm TO 25mm
- COV-SD-W2b WATER SERVICE CONNECTION FOR 38mm TO 50mm
- COV-SD-W2c METER INSTALLATION FOR 19mm AND 25mm WATER SERVICE CONNECTIONS
- COV-SD-W2d METER INSTALLATION FOR 38mm AND 50mm WATER SERVICE CONNECTIONS

|          |                                  |                   |
|----------|----------------------------------|-------------------|
| UNIT     | ENG 26-03                        |                   |
| PRICE    | TOE ESQUIMALT ROAD PHASE 2       | FORM OF AGREEMENT |
| CONTRACT | FORM OF AGREEMENT <b>REVISED</b> | PAGE 9 OF 9       |

The above drawings are supplemented by the below listed standard detail drawings included with the specifications as follows:

| SUPPLEMENTAL DETAIL DRAWINGS |  |
|------------------------------|--|
| Drawing Number               | Title  |
| TOE-SD-C2.1                  | CONCRETE SIDEWALK  |
| TOE-SD-C7.1                  | TYPICAL DRIVEWAY CROSSING                                      |
| TOE-SD-C7.2                  | TYPICAL DRIVEWAY CROSSING CROSS SECTION                        |
| TOE-SD-C9.1                  | DOUBLE WHEELCHAIR RAMPS (PREFERRED)                            |
| TOE-SD-C9.2                  | SINGLE RADIAL WHEELCHAIR RAMP                                  |
| TOE-SD-C9.3                  | SINGLE DIRECTIONAL WHEELCHAIR RAMP                             |
| TOE-SD-C9.4                  | T - INTERSECTION/MID-BLOCK WHEELCHAIR RAMP                     |
| TOE-SD-C16                   | SIGN POST SLEEVE   |
| TOE-SD-G5.1                  | PAVEMENT RESTORATION   |
| TOE-SD-S7a                   | SANITARY AND STORM SEWER SERVICES                              |
| TOE-SD-S9a                   | INSPECTION CHAMBER FOR 100 TO 200 DRAIN & SEWER CONNECTION     |
| TOE-SD-S11.1                 | TOP INLET CATCH BASIN  |
| COV-SD-S11C                  | STANDARD OFFSET CATCHBASIN DETAIL                              |
| R-7301                       | RELIANCE FOUNDRY BOLLARD COVER                                 |
| COV                          | APPROVED PRODUCT LIST (REVISED 2025-06-10)                     |
| COV-SD-W2a                   | WATER SERVICE CONNECTION FOR 19mm TO 25mm                      |
| COV-SD-W2b                   | WATER SERVICE CONNECTION FOR 38mm TO 50mm                      |
| COV-SD-W2c                   | METER INSTALLATION FOR 19mm AND 25mm WATER SERVICE CONNECTIONS |
| COV-SD-W2d                   | METER INSTALLATION FOR 38mm AND 50mm WATER SERVICE CONNECTIONS |

MMCD Supplementary Specifications and requirements are supplemental to the “Master Municipal Construction Documents – General Conditions, Specifications and Standard Detail Drawings”.

In cases of conflict, the order of precedence for specifications and standards is as per the Supplementary General Conditions, Section 2.2.4, Document Hierarchy.

**MMCD Section 33 11 01 - WATERWORKS**

**NOTE:**

1. All waterworks product to conform to NSF61.
2. All waterworks product to conform to NSF372 to be "lead free".
3. All bolts, nuts, rods and washers for use on all fittings and restraints shall be Core 10
4. Waterworks products shall conform to CSA Standard, where applicable.

**MAINLINE PIPES**

| MMCD Sub-Section        | Manufacturer              | Make / Model                               | Size Range     | Comments/Restrictions.                                |
|-------------------------|---------------------------|--|----------------|---|
| 2.2.1 Ductile Iron      | Canada Pipe,<br>US Pipe   | Ductile PC350<br>AWWA C151                 | 100mm to 450mm |   |
| 2.2.2 PVC Pressure Pipe | IPEX,<br>NAPCO Royal Pipe | PVC DR18, PR235<br>AWWA C900               | 100mm to 300mm |   |
|                         | IPEX,<br>NAPCO Royal Pipe | PVC CIOD, PR235<br>AWWA C909               | 100mm to 450mm | Thickened bells                                       |
|                         | NAPCO Royal Pipe          | Cobra Lock<br>PVC DR18, PR235<br>AWWA C900 | 100mm to 300mm | For use on temporary / by-pass piping situations only |

**FITTINGS**

| MMCD Sub-Section                                    | Manufacturer   | Make / Model       | Size Range     | Comments/Restrictions.   |                 |
|---|--|--------------------|----------------|--|-----------------|
| 2.2.4.3 Compact Ductile Iron                        | Sigma<br>Star Pipe Canada<br>Terminal City / ACS<br>Westview Sales | AWWA C153          | 100mm to 450mm | Fittings may be HxH, HxFI, MJxMJ, MJxFI or FlxFI<br>Hub ends shall have lugs with holes suitable for restraint rods. |                 |
| 2.2.4.4 & PVC Injection &<br>2.2.4.5 Fabricated     | IPEX<br>NAPCO Royal Pipe   | C900 / C907 / C909 | 100mm to 450mm | Pressure class to meet or exceed mainline  |                 |
| 2.2.4.12 Couplings and Flanged<br>Coupling Adaptors | EBAA   | 3800               | 100mm to 400mm | 400mm available only for C900  |                 |
|   | ROBAR  | 1506               | 100mm to 400mm |  |                 |
|   | ROBAR  | 1508               | 100mm to 400mm |  |                 |
|   | ROMAC  | 501                | 100mm to 400mm |  |                 |
|   | <i>Wide Range Couplings:</i>                                       | ROMAC              | XR501          | 100mm to 300mm   | including C909  |
|   |  | ROMAC              | Macro          | 100mm to 400mm   |                 |
|   |  | ROBAR              | 1596           | 100mm to 300mm   | Stainless steel |
|   |  | ROBAR              | 1696-2B        | 100mm to 300mm   |                 |
|   |  | Smith-Blair        | 421            | 100mm to 400mm   |                 |
|   |  | Smith-Blair        | 461            | 100mm to 300mm   |                 |
| <i>Restrained Couplings:</i>                        | Mueller Canada   | Hymax              | 38mm to 400mm  | not approved for use with C909   |                 |
|   | EBAA   | 3800               | 100mm to 400mm | 400mm for PVC only   |                 |
|   | Ford Meter Box   | Uniflange RCDD     | 75mm to 400mm  |  |                 |
|   | Ford Meter Box   | Uniflange RCPP     | 75mm to 400mm  | including C909   |                 |
|   | Ford Meter Box   | Uniflange RCDP     | 75mm to 400mm  | including C909   |                 |
|   | Mueller Canada   | Hymax Grip         | 100mm to 300mm | NOTE: Hymax not approved for use with C909   |                 |
|   | ROMAC  | Romac Alpha        | 100mm to 400mm | including C909   |                 |
|   | Smith-Blair  | 471                | 100mm to 400mm | 400mm for DI only  |                 |
| 2.2.4.13 Joint Restraint Devices                    | <i>Restraining MJ &amp; PO<br/>Fittings to Ductile</i>             | EBAA               | 1100           | including C909   |                 |
|   |  | EBAA               | 15MJ00TD       |  |                 |
|   |  | EBAA               | 15PF00TD       |  |                 |
|   |  | Ford Meter Box     | Uniflange 1309 |  |                 |
|   |  | Ford Meter Box     | Uniflange 1400 |  |                 |
|   |  | ROMAC              | PVC Romagrip   |  |                 |
|   |  | Sigma              | SLD            |  |                 |
|   |  | Smith-Blair        | 111            |  |                 |
|   |  | Star Pipe Products | StarGrip       |  |                 |
|   |  | Star Pipe Products | All StarGrip   |  |                 |
|   |  | Star Pipe Products | Series 1000    |  |                 |

**CITY OF VICTORIA  
APPROVED PRODUCT LIST**

Revised: 2025-06-10

| MMCD Sub-Section   | Manufacturer                            | Make / Model            | Size Range   | Comments/Restrictions.   |
|--|---|-------------------------|--|--|
| <i>Restraining MJ &amp; PO Fittings to PVC:</i>                    | EBAA                                    | 15MJ00TD                | 400mm  | C909   |
|  | EBAA                                    | 15PF00TD                |  |  |
| <i>Restraining Bell &amp; Spigot Joints for Ductile &amp; PVC:</i> | EBAA                                    | 2000PV                  | 100mm to 400mm<br>100mm to 300mm<br>100mm to 300mm                                     | C909<br><br>use limited to SDR26 or heavier wall thickness   |
|  | EBAA                                    | 19MJ00                  |  |  |
|  | EBAA                                    | 19PF00                  |  |  |
|  | EBAA                                    | 2016PV                  |  |  |
|  | Ford Meter Box                          | Uniflange 1309          |  |  |
|  | ROMAC                                   | PVC Romagrip            |  |  |
|  | ROMAC                                   | 612                     |  |  |
|  | Sigma                                   | SLD                     |  |  |
|  | Smith-Blair                             | 120                     |  |  |
|  | Star Pipe Products                      | StarGrip                |  |  |
|  | Star Pipe Products                      | All StarGrip            |  |  |
|  | Star Pipe Products                      | Series 1000             |  |  |
|  | <i>Restraining PVC Fittings to PVC:</i> | EBAA                    |  |  |
| EBAA   |   | 1900                    |  |  |
| EBAA   |   | 2916                    |  |  |
| Ford Meter Box   |   | Uniflange 1390 and 1399 |  |  |
| Ford Meter Box   |   | Uniflange 1390 and 1399 |  |  |
| Ford Meter Box   |   | UFR 1559                |  |  |
| ROMAC  |   | 611                     |  |  |
| Sigma  |   | SLC                     |  |  |
| Sigma  |   | SLDE                    |  |  |
| Smith-Blair  |   | 165                     |  |  |
| Star Pipe Products   |   | 1100G2C                 |  |  |
| Star Pipe Products   |   | StarGrip                |  |  |
| Star Pipe Products   |   | Series 1000             |  |  |
| <i>Restrained Flange Adaptors</i>                                  | EBAA                                    | 2500                    | 100mm to 300mm   | including C909<br>AWWA CI OD C900/C909 PVC/PVCO Pipe Joints  |
|  | EBAA                                    | 2600                    |  |  |
|  | Smith-Blair                             | 136                     |  |  |
|  | Star Pipe Products                      | 1200G2C                 |  |  |
| <i>Restraining PVC Fittings to PVC:</i>                            | Star Pipe Products                      | Series 1000             | 75mm to 400mm<br>75mm to 400mm   | DI<br>Including C909, not approved for DI  |
|  | Star Pipe Products                      | Series 1000             |  |  |
| 2.2.4.14 Tapping Sleeves for branch connections (75mm & larger)    | Ford Meter Box                          | Uniflange RFAD          |  | Stainless steel<br>Stainless steel<br>Stainless steel<br>Stainless steel<br>Stainless steel                          |
|  | Ford Meter Box                          | Uniflange RFAP          |  |  |
|  | ROBAR                                   | 6606                    |  |  |
|  | ROMAC                                   | SSTIII                  |  |  |
|  | Smith-Blair                             | 622                     |  |  |
| 2.2.4.15 Repair Clamps   | Smith-Blair                             | 664                     |  | Stainless steel<br>Stainless steel<br>Stainless steel<br>Stainless steel<br>Stainless steel<br>Stainless steel       |
|  | Smith-Blair                             | 665                     |  |  |
|  | ROBAR                                   | 5616                    |  |  |
|  | ROBAR                                   | 5626                    |  |  |
|  | ROMAC                                   | SS1                     |  |  |
|  | ROMAC                                   | SS2                     |  |  |
|  | Smith-Blair                             | 261                     |  |  |
| Smith-Blair  | 262                                     |                         |  |  |
| 2.3.1 Mainline Valves - General Requirements                       | Cambridge                               | 825                     |  | Control Valves<br>Control Valves<br>Control Valves   |
|  | Clayton                                 |                         |  |  |
| 2.3.1 Mainline Gate Valves   | Singer                                  |                         | 50mm and under<br>50mm and under   | Ball & Gate Valves<br>Ball & Gate Valves   |
|  | Watts                                   |                         |  |  |
| 2.3.2 Mainline Gate Valves   | Red & White                             |                         | 100mm to 450mm<br>100mm to 450mm<br>100mm to 450mm<br>100mm to 450mm<br>100mm to 450mm | Resilient wedge only<br>Resilient wedge only<br>Resilient wedge only<br>Resilient wedge only<br>Resilient wedge only |
|  | Watts                                   |                         |  |  |
|  | American Flow Cont                      | Series 2500             |  |  |
|  | CLOW                                    |                         |  |  |
|  | Mueller Canada                          |                         |  |  |
| 2.3.3 Mainline Butterfly Valve                                     | Terminal City                           | 3200 Series PO x FL     |  |  |
|  | VAHN-TECH Intl. Inc.                    |                         |  |  |
| 2.3.3 Mainline Butterfly Valve                                     | Dezurik                                 | Series 4500             |  |  |
|  | M & H                                   |                         |  |  |
|  | Mueller Canada                          |                         |  |  |
|  | Pratt                                   |                         |  |  |
|  | VAHN-TECH Intl. Inc.                    |                         |  |  |

**CITY OF VICTORIA  
APPROVED PRODUCT LIST**

Revised: 2025-06-10

| MMCD Sub-Section                         | Manufacturer                                  | Make / Model                         | Size Range                                   | Comments/Restrictions.   |
|--|---|--------------------------------------|--|--|
| 2.3.5 Air Release/Combination Air Valves | ARI Valves Inc.<br>Valmatic                   | D040                                 |  | epoxy coated on inside (fusion bonded)   |
| 2.3.8 Detector Check Valves              | Febco<br>Mueller<br>Watts<br>Watts            | 800<br>EDCIV<br>SS07F<br>1000DCV EPX | 100mm  |  |
| 2.5 Service Connection Pipe              | REHAU   | Type K Copper<br>PEX-a               | 19mm to 50mm<br>19mm to 25mm                 |  |
| 2.6 Hydrants                             | CLOW<br>Mueller Canada<br>Terminal City / ACS | Canada Valve<br>C71P                 | 150mm<br>150mm<br>150mm                      | c/w Storz fitting<br>c/w Storz fitting<br>c/w Storz fitting; C71P long body only |
| 2.7.2 Corporation Stops                  | AY Mcdonald<br>Cambridge<br>Mueller           |                                      | 19mm to 50mm<br>19mm to 50mm<br>19mm to 50mm | Ball type, compression<br>Ball type, compression<br>Ball type, compression       |

**OTHER**

| MMCD Sub-Section                    | Manufacturer  | Make / Model  | Size Range   | Comments/Restrictions.   |
|-------------------------------------|---|---|--|--|
| Municipal Castings                  | Terminal City / ACS<br>Westview Sales                             |   |  | as per MMCD and Cov Supplementals<br>as per MMCD and Cov Supplementals   |
| Service Saddles                     | Cambridge<br>Cambridge<br>Canpac<br>ROBAR<br>ROMAC<br>Smith-Blair | 8403<br>8413/15<br>304<br>2616<br>306<br>373                            | 19mm to 25mm<br><br><br>up to 200mm  | Stainless steel<br>Stainless steel - integral c/w corp stop<br>Stainless steel<br>Stainless steel<br>Stainless steel |
| Bell Joint Leak Clamps              | ROBAR<br>ROMAC<br>Smith-Blair                                     | 5508<br>516<br>274  |  | Stainless steel<br>Stainless steel<br>Stainless steel  |
| Displacement & Floating Ball Meters | Badger<br>Neptune<br>Sensus<br>Sensus<br>Sensus                   | Recordall<br>T-10<br>AccuSTREAM<br>iPEARL<br>Omni R2                    | 19mm to 25mm<br>19mm to 50mm<br>19mm to 25mm<br>19mm to 25mm<br>38mm to 50mm | Touch read<br>Touch read<br>Touch read<br>Touch read<br>Touch read; Flanged  |
| Compound Meters                     | Neptune<br>Sensus   | TRU/FLO<br>Omni C2  | 50mm to 150mm<br>50mm to 150mm   | Touch read<br>Touch read   |
| Turbine Meters                      | Neptune<br>Sensus   | High Performance<br>Omni T2   | 50mm to 150mm<br>50mm to 150mm   | Touch read<br>Touch read   |
| Ultrasonic Meters                   | Kamstrup  | FIQ3101 Stainless   | 50mm (2")  | For use on combined Domestic/Fire service  |
| Meter Setters and Meter Resetters   | AY Mcdonald<br>Cambridge<br>Mueller                               |   | 19mm to 25mm<br>19mm to 25mm<br>19mm to 25mm                                 |  |
| Meter Box                           | Brooks Box<br>Brooks Box<br>DFW                                   | 37<br>66<br>Heavy duty polymer  | 300mm x 500mm<br>425mm x 750mm   | H20 Loading<br>H20 Loading<br>not for use in road or driveways   |
| Meter Box Lids                      | Terminal City / ACS<br>Terminal City / ACS                        | 37<br>66  | 300mm x 500mm<br>425mm x 750mm   | H20 Loading, labeled with "Water"<br>H20 Loading, labeled with "Water"   |
| Meter Vault Hatches                 | Norinco   | Model # T14S106070AV<br>(Roadway)<br>Model # T13S106070AV<br>(Sidewalk) |  | Triangular lids, Traffic (H20 Loading) & Non-Traffic   |
| Tracer Wire                         | Copperhead<br>Industries Ltd.                                     | Soloshot EHS  |  |  |

**MMCD Section 33 30 01 - SANITARY SEWER (Gravity)**

**NOTE:**

1. All concrete used in construction shall be sulphate resistant Type HS (Type 50) or alternate cement type may be approved by City Engineer.
2. Sanitary Sewer products shall conform to CSA Standard, where applicable.

3

4

**MAINLINE PIPES**

| MMCD Sub-Section                          | Manufacturer                              | Make / Model                           | Size Range   | Comments/Restrictions. |
|---|---|--|--|------------------------|
| 2.2 Plastic Pipe, Mainline Smooth Profile | IPEX<br>Northern Pipe<br>NAPCO Royal Pipe | Ring Tite DR35<br>PVC DR35<br>PVC DR35 | 100mm to 1200mm<br>100mm to 375mm<br>100mm to 1200mm |                        |

**OTHER**

| MMCD Sub-Section                    | Manufacturer   | Make / Model                       | Size Range                                      | Comments/Restrictions.  |
|-------------------------------------|--|------------------------------------|---|---|
| Municipal Castings                  | Terminal City / ACS<br>Westview Sales                            |                                    |   | as per MMCD and Cov Supplementals<br>as per MMCD and Cov Supplementals  |
| Inspection Chamber                  | Orbit Plastics Ltd.<br>Proline Fittings Inc.<br>NAPCO Royal Pipe |                                    | 100mm & 150mm<br>100mm & 150mm<br>100mm & 150mm | for 100mmØ and 150mmØ service connections   |
| Inspection Chamber surface box      | Brooks Box<br>Brooks Box<br>Raven                                | 37<br>66                           | 300mm x 500mm<br>425mm x 750mm                  | H20 Loading<br>H20 Loading<br>not for use in road or driveways  |
| Inspection Chamber surface box lids | Terminal City / ACS<br>Terminal City / ACS                       | 37<br>66                           | 300mm x 500mm<br>425mm x 750mm                  | H20 Loading, labeled with "Sanitary"<br>H20 Loading, labeled with "Sanitary"  |
| Couplings & Bushings                | Fernco<br>Mission<br>Rollee<br>ROMAC                             | Kwik couplings<br>bolted couplings |   | w/stainless steel sheer band<br>w/stainless steel sheer band<br>w/stainless steel sheer band<br>w/stainless steel sheer band (to AWWA C219) |
| Tapping Saddles                     | Fernco<br>Mission<br>Rollee                                      |                                    | 100mm & 150mm<br>100mm & 150mm<br>100mm & 150mm | flexible saddle<br>flexible saddle<br>flexible saddle   |

**MMCD Section 33 34 01 - SEWAGE FORCEMAINS**

**NOTE:**

- 1 All bolts, nuts, rods and washers for use on all fittings and restraints shall be Core 10
- 2 Sewage forcemain products shall conform to CSA Standard, where applicable.

3

4

**MAINLINE PIPES**

| MMCD Sub-Section        | Manufacturer              | Make / Model                               | Size Range     | Comments/Restrictions.                                |
|-------------------------|---------------------------|--|----------------|---|
| 2.2.1 Ductile Iron      | Canada Pipe,<br>US Pipe   | Ductile PC350<br>AWWA C151                 | 100mm to 450mm |   |
| 2.2.2 PVC Pressure Pipe | IPEX,<br>NAPCO Royal Pipe | PVC DR18, PR235<br>AWWA C900               | 100mm to 300mm |   |
|                         | IPEX,<br>NAPCO Royal Pipe | PVC CIOD, PR235<br>AWWA C909               | 100mm to 450mm | Thickened bells                                       |
|                         | NAPCO Royal Pipe          | Cobra Lock<br>PVC DR18, PR235<br>AWWA C900 | 100mm to 300mm | For use on temporary / by-pass piping situations only |

**CITY OF VICTORIA  
APPROVED PRODUCT LIST**

Revised: 2025-06-10

**FITTINGS**

| <b>MMCD Sub-Section</b>                                    | <b>Manufacturer</b>  | <b>Make / Model</b> | <b>Size Range</b> | <b>Comments/Restrictions.</b>  |
|--|--|---------------------|-------------------|--|
| 2.2.5 Fittings   |  |                     |                   | All ferrous fittings to be epoxy coated.   |
| 2.2.5.3 Compact Ductile Iron                               | Sigma<br>Star Pipe Canada<br>Terminal City / ACS<br>Westview Sales | AWWA C153           | 100mm to 450mm    | Fittings may be HxH, HxFI, MJxMJ, MJxFI or FlxFI<br>Hub ends shall have lugs with holes suitable for restraint rods. |
| 2.2.5.4 & CIOD PVC Injection &<br>2.2.5.5 IPSOD Fabricated | IPEX<br>NAPCO Royal Pipe   | C900 / C907 / C909  | 100mm to 450mm    | Pressure class to meet or exceed mainline  |

**MMCD Section 33 40 01 - STORM SEWERS (Gravity)**

**NOTE:**

1. All concrete used in construction shall be sulphate resistant Type HS (Type 50) or alternate cement type may be approved by City Engineer.
2. Sanitary Sewer products shall conform to CSA Standard, where applicable.

3  
4

**MAINLINE PIPES**

| MMCD Sub-Section                          | Manufacturer                              | Make / Model                           | Size Range   | Comments/Restrictions. |
|---|---|--|--|------------------------|
| 2.2 Plastic Pipe, Mainline Smooth Profile | IPEX<br>Northern Pipe<br>NAPCO Royal Pipe | Ring Tite DR35<br>PVC DR35<br>PVC DR35 | 100mm to 1200mm<br>100mm to 375mm<br>100mm to 1200mm |                        |

**OTHER**

| MMCD Sub-Section                    | Manufacturer   | Make / Model   | Size Range                                      | Comments/Restrictions.   |
|-------------------------------------|--|----------------|---|--|
| Municipal Castings                  | Terminal City / ACS<br>Westview Sales                            |                |   | as per MMCD and Cov Supplementals<br>as per MMCD and Cov Supplementals                       |
| Inspection Chamber                  | Orbit Plastics Ltd.<br>Proline Fittings Inc.<br>NAPCO Royal Pipe |                | 100mm & 150mm<br>100mm & 150mm<br>100mm & 150mm | for 100mmØ and 150mmØ service connections  |
| Inspection Chamber surface box      | Brooks Box<br>Brooks Box<br>Raven                                | 37<br>66       | 300mm x 500mm<br>425mm x 750mm                  | H20 Loading<br>H20 Loading<br>not for use in road or driveways                               |
| Inspection Chamber surface box lids | Terminal City / ACS<br>Terminal City / ACS                       | 37<br>66       | 300mm x 500mm<br>425mm x 750mm                  | H20 Loading, labeled with "Storm"<br>H20 Loading, labeled with "Storm"                       |
| Couplings & Bushings                | Fernco<br>Mission<br>Rollee                                      | Kwik couplings |   | w/stainless steel sheer band<br>w/stainless steel sheer band<br>w/stainless steel sheer band |
| Tapping Saddles                     | Fernco<br>Mission<br>Rollee                                      |                | 100mm & 150mm<br>100mm & 150mm<br>100mm & 150mm | flexible saddle<br>flexible saddle<br>flexible saddle  |

**CITY OF VICTORIA  
APPROVED PRODUCT LIST**

Revised: 2025-06-10

| <b>34 41 13 Traffic Signals</b> |  |                                      |  |   |  |
|---------------------------------|--|--------------------------------------|--|---|--|
| 2.16                            |  | Vehicle Signal Heads                 |  | McCain  |  |
| 2.19                            |  | Vehicle Signal Mounting Hardware     |  | Astro-Brac (Pelco Products)                   |  |
| 2.16                            |  | Pedestrian Signal Heads              |  | Model 7090<br>McCain #141SPO                  |  |
| 2.2                             |  | Audible Pedestrian Signal Heads      |  | Novax DS2000                                  |  |
| 2.26.2.2                        |  | Conflict Monitors                    |  | Eberie Model 210E                             |  |
| 2.26.4                          |  | Controller Cabinets - 332, 226 & 338 |  | Safetran & Signal Control Company (SCC, Peak) |  |

**32 17 23 Painted Pavement Markings**

|     |                      |             |   |  |  |
|-----|----------------------|-------------|---|--|--|
| 2.1 | .5 Glass Beads       | Swarco      | Premium Glass Bead Type-I (T-20 coated) |  |  |
|     | .6 Pavement Markings | Ennis-Flint | Solvent based traffic marking paint     |  |  |
|     |                      |             | Yellow road marking paint prod # 986063 |  |  |
|     |                      |             | White road marking paint prod # 986061  |  |  |
|     | .7S Thermoplastic    | Ennis-Flint | Pave Mark (both yellow and white)       |  |  |

**32 01 17.6 Sealing Pavement Cracks for Maintenance Purposes**

|     |  |                        |                        |                               |                                       |
|-----|--|------------------------|------------------------|-------------------------------|---------------------------------------|
| 2.1 |  | Cold Pour Crack Sealer | Cold Pour Crack Sealer | CRF Wilco                     | Good for over 5 minute cure rate only |
|     |  | Hot Pour Crack Sealer  | Hot Pour Crack Sealer  | KOCH - 9211, Crafcoc & Tremco |                                       |

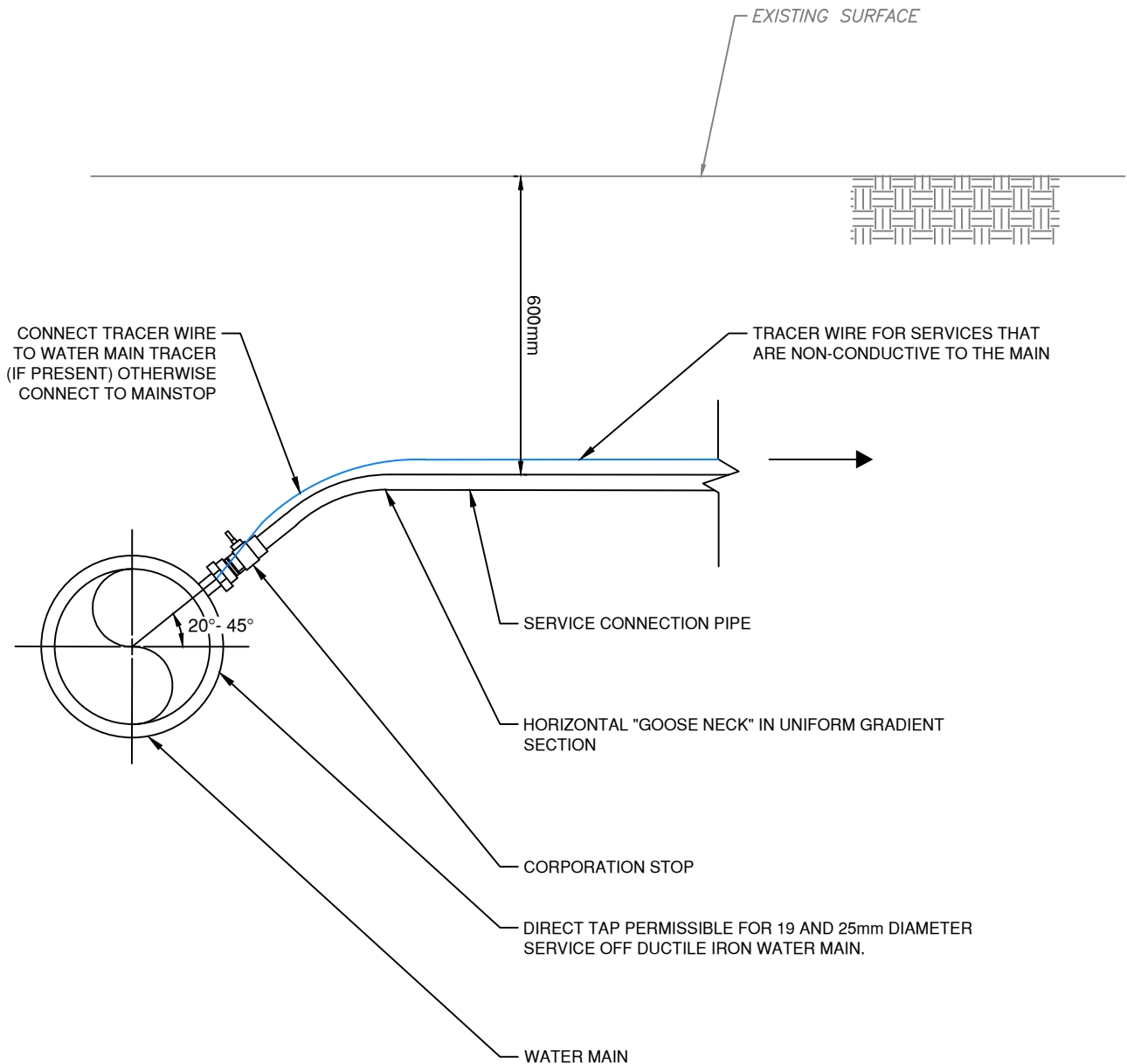
**31 32 19 Geosynthetics**

|     |  |                           |                           |                                |  |
|-----|--|---------------------------|---------------------------|--------------------------------|--|
| 2.1 |  | Stress Absorbing Membrane | Stress Absorbing Membrane | Amopave 4599 & Trevira S-112-C |  |
|-----|--|---------------------------|---------------------------|--------------------------------|--|

**Other**

|   |                         |                             |  |          |  |
|---|-------------------------|-----------------------------|--|----------|--|
| 1 | Petrolatum Tape Systems | Winn & Coales               |  | Denso    |  |
|   |                         | Chase Construction Products |  | Longwrap |  |
|   |                         |                             |  |          |  |

# SUPPLEMENTARY STANDARD DETAIL DRAWING



**NOTES:**

1. THIS DETAIL FOR SERVICES 19-25mm ONLY.
2. PVC SADDLES AS PER THE APPROVED PRODUCT LIST.
3. INSTALL SERVICE PIPE WITH "GOOSE NECK" IN HORIZONTAL POSITION.
4. MIN. 100mm BEDDING TO BE USED UNDER SERVICE PIPE (NO ROCK). MIN. 150mm BEDDING TO BE USED UNDER SERVICE PIPE (ROCK).

**NOT TO SCALE**

**WATER SERVICE CONNECTION  
FOR 19mm TO 25mm**

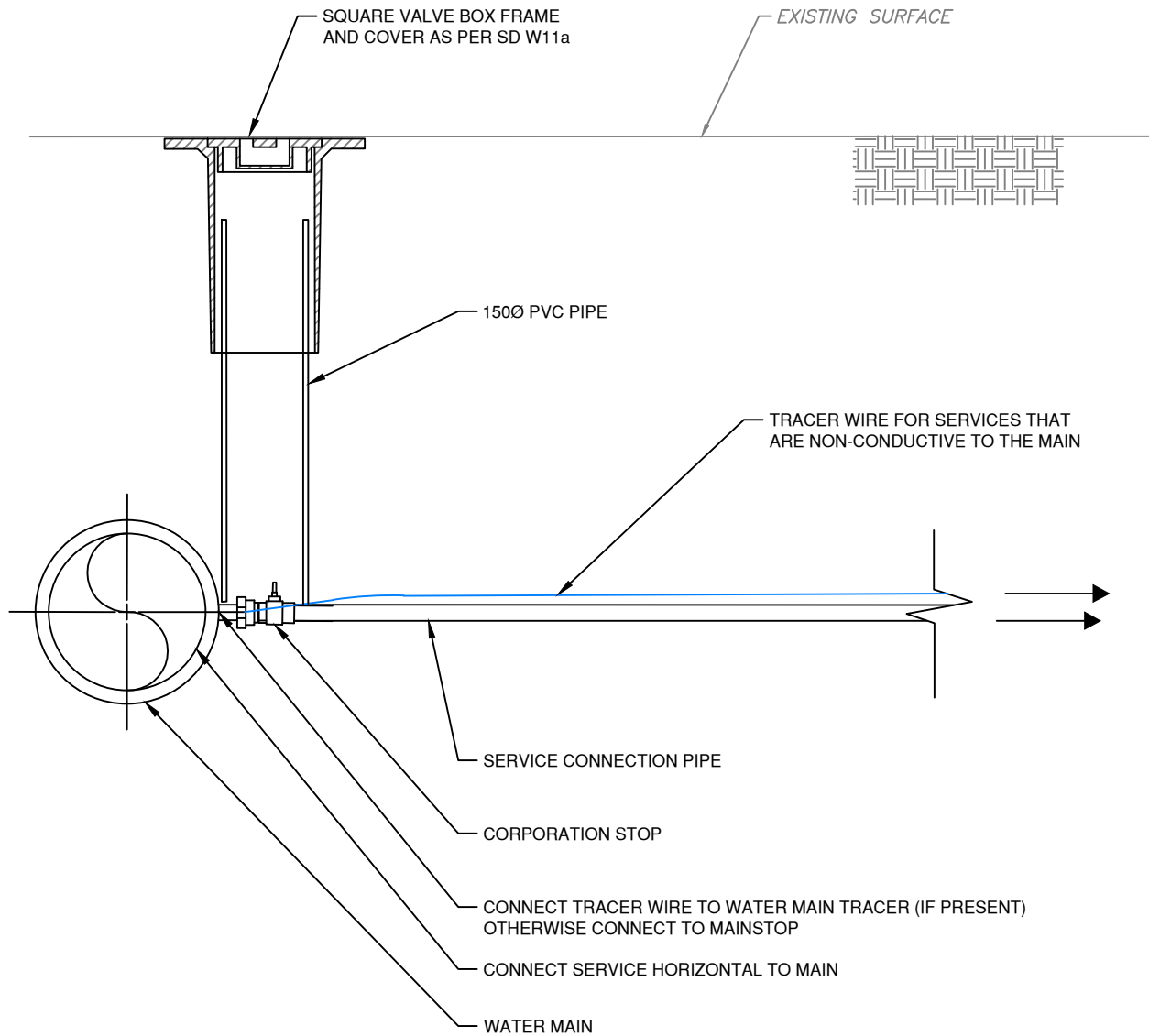
**Revision Date**

**JULY 2025**

**Drawing Number**

**SD W2a**

# SUPPLEMENTARY STANDARD DETAIL DRAWING



## NOTES:

1. THIS DETAIL FOR SERVICES 38-50mm ONLY.
2. PVC SADDLES AS PER THE APPROVED PRODUCT LIST.
3. SERVICE CAN BE BROUGHT UP TO 0.6m COVER, ONCE CLEAR OF MAIN CONNECTION (UNLESS OTHERWISE SPECIFIED).
4. MIN. 100mm BEDDING TO BE USED UNDER SERVICE PIPE (NO ROCK). MIN. 150mm BEDDING TO BE USED UNDER SERVICE PIPE (ROCK).

NOT TO SCALE

**WATER SERVICE CONNECTION FOR 38mm  
TO 50mm**

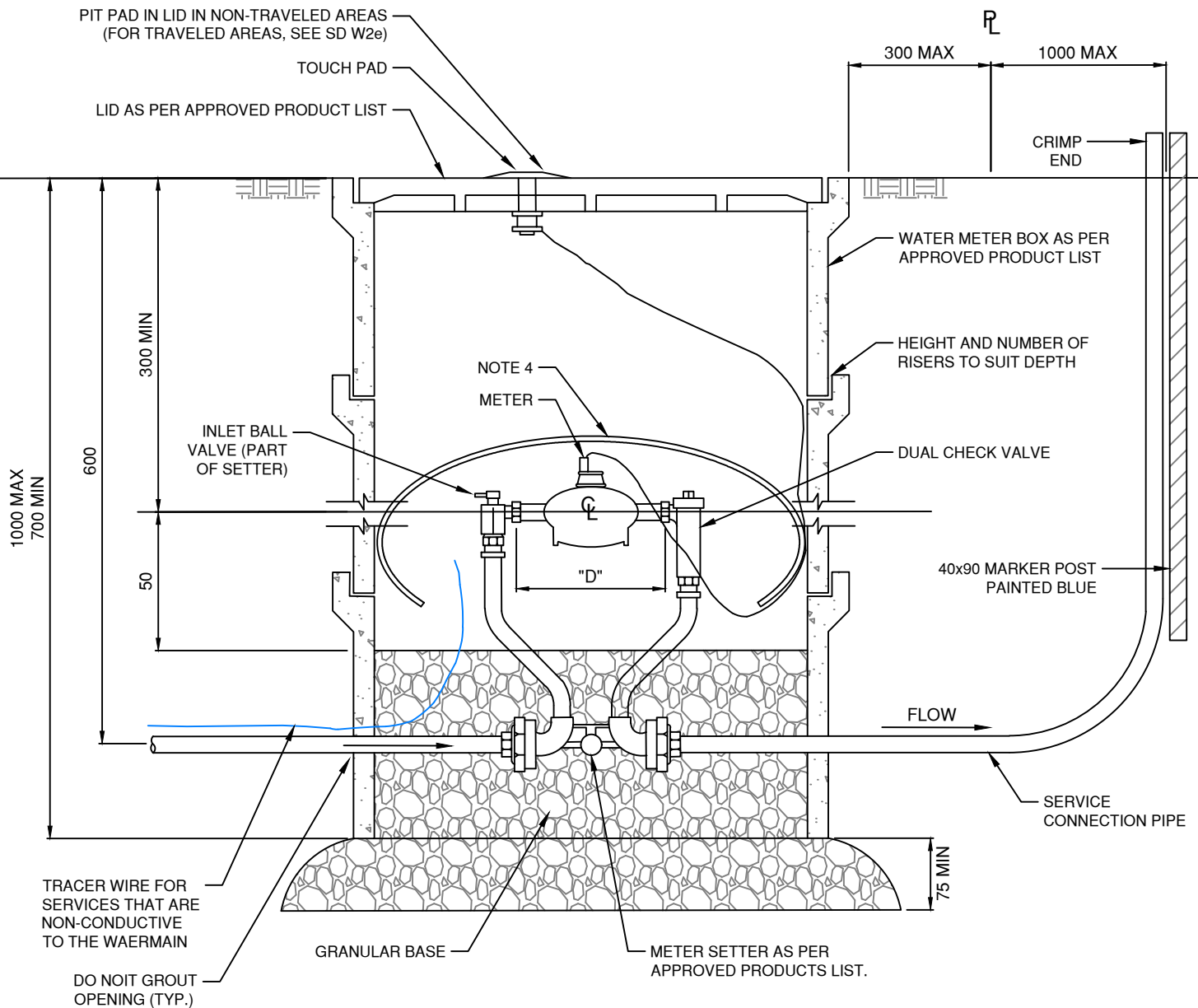
Revision Date

JULY 2025

Drawing Number

**SD W2b**

# SUPPLEMENTARY STANDARD DETAIL DRAWING



| METER SIZE | 'D' (mm) |
|------------|----------|
| 16x19      | 191      |
| 19         | 229      |
| 25         | 273      |

**NOTES:**

- FOR 38mm AND 50mm DIA SERVICE REFER TO DRAWING SD W2d.
- REFER TO CONTACT DRAWINGS, SECTION 33 11 01 FOR DETAILED SPECIFICATIONS.
- REFER TO DRAWING NUMBER SD W2a FOR DETAIL OF SERVICE CONNECTION TO WATER MAIN.
- AIR DOUBLE REFLECTIVE POLYETHYLENE INSULATION OR EQUIVALENT.

**NOT TO SCALE**

**METER INSTALLATION FOR 19mm AND  
25mm WATER SERVICE CONNECTIONS**

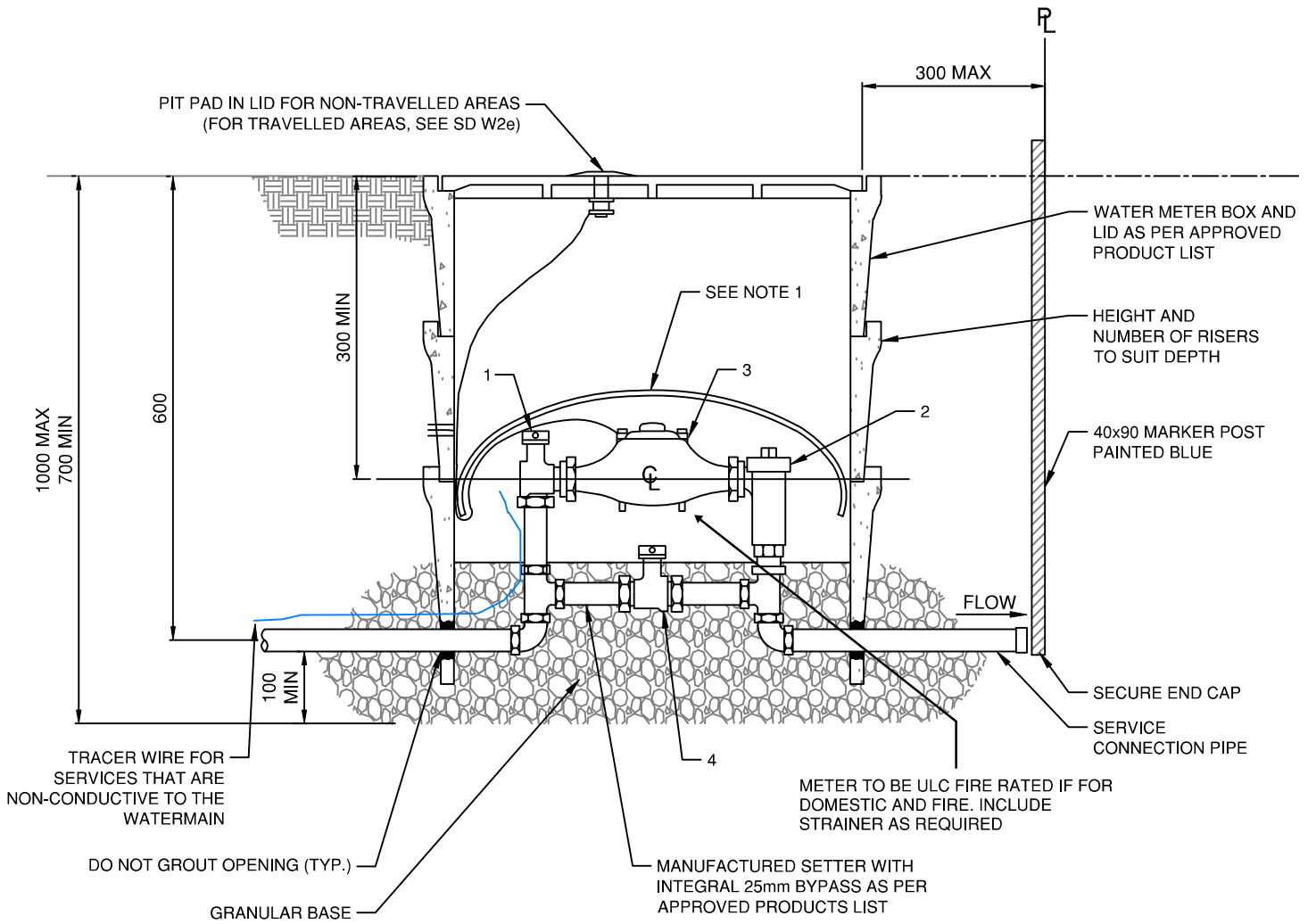
**Revision Date**

**JULY 2025**

**Drawing Number**

**SD W2c**

# SUPPLEMENTARY STANDARD DETAIL DRAWING



| No. | DESCRIPTION                         |
|-----|-------------------------------------|
| 1   | STOP WITH LOCKING                   |
| 2   | DUAL CHECK VALVE                    |
| 3   | METER AS PER APPROVED PRODUCTS LIST |
| 4   | BYPASS STOP WITH LOCKING            |

**NOTES:**

1. FOR 38mm AND 50mm DIA SERVICE REFER TO DRAWING SD W2b.
2. REFER TO CONTACT DRAWINGS, SECTION 33 11 01 FOR DETAILED SPECIFICATIONS.
3. REFER TO DRAWING NUMBER SD W2b FOR DETAIL OF SERVICE CONNECTION TO WATER MAIN.
4. AIR DOUBLE REFLECTIVE POLYETHYLENE INSULATION OR EQUIVALENT.

**NOT TO SCALE**

**METER INSTALLATION FOR 38mm AND  
50mm WATER SERVICE CONNECTIONS**

**Revision Date**

**AUG. 2025**

**Drawing Number**

**SD W2d**

|            |     |   |   |
|------------|-----|---|---|
| 33 01 30.2 |     | Cleaning of Sewers                                |   |
|            | 1.5 | Measurement and Payment                           | <p><b>Revised Clause 1.5.4 to read:</b> "Root cutting will be measured in lineal metres of pipe requiring root removal. Payment will be made at the unit price bid in the Form of Tender. Measurement will be determined by the length of pipe, as shown on the Contract Drawings or as directed by the Contract Administrator, where root cutting is performed."</p>   |
| 33 05 24   |     | Cured In Place Pipe Liners                        |   |
|            | 1.9 | Measurement and Payment                           | <p><b>Delete Clause 1.9.1 and replace with the following:</b><br/>         "Payment for Bypass Pumping / Flow Control for CIPP Works shall be made as a Lump Sum. Payment shall include all work related to the management of sanitary and storm sewer flows required to complete the CIPP works, including preparation and submission of an approved bypass pumping / flow management plan; noise-attenuated bypass pumping; isolation, blocking, plugging, diverting, temporary piping, hoses, pumps, standby pumps, power supply, fuel, controls, monitoring, maintenance, protection, emergency response, environmental protection, installation, operation, maintenance, and removal of the temporary bypass system; and all incidentals required to complete the Work. The Contractor will be entitled to 50% of the payment item on the first progress payment after the bypass system is installed, operational, and accepted by the Contract Administrator, and 50% of the payment item on the first progress payment following dismantling and removal of the bypass system."</p>   |
| 33 11 01   |     | Waterworks  |   |
|            | 1.7 | Scheduling of Work — Construction Sequencing Plan | <p><b>Delete Clause 1.7 and Replace with the following:</b></p> <p>.1 The Contractor shall schedule work to minimize interruptions to the local supply of water. The Contractor shall provide a water supply system Construction Sequencing Plan (CSP) to the Contract Administrator at least 10 Days in advance for review. The CSP shall include: timing and duration of service interruptions; requirements for temporary bypass piping; proposed methodology, sequence and timing for construction, flushing, testing and verification including pressure testing, disinfection, flushing and verification, and proposed tie-in sequence/procedure.</p> <p>.2 The schedule and CSP shall be reviewed by the Contract Administrator before approval is given for any Work affecting the regular supply of water. The earliest time to shut down existing water mains for tie-ins is 10:00 am.</p> <p>.3 The Contractor shall review the tie-in plan on-site with Contract Administrator and City of Victoria Operations staff at least one (1) week prior to confirm valve location and operation, extent and duration of water shutdown, and notification distribution area.</p> <p>.4 During the tie-in, a City of Victoria appointed staff member must be on-site. All isolated valves and services are to be marked upon isolation and again once service is restored.</p> <p>.6 The Contractor shall notify the City of Victoria Water Department and the Contract Administrator three (3) Days</p> |

|  |       |                         |   |
|--|-------|-------------------------|---|
|  |       |                         | <p>in advance of any planned interruptions to water or service connections to properties adjoining the water main.</p> <p>.7 Interruptions shall not exceed four (4) hours in duration without written approval of the Contract Administrator.</p> <p>.8 The Contractor shall immediately notify the Contract Administrator and City of Victoria Water Department of any accidental interruption of water supply to hydrants.</p>   |
|  | 1.8.2 | Measurement and Payment | <p><b>Revise Clause 1.8.2:</b> Payment for watermain and service connections shall include saw cutting pavement, trench excavation, disposal of surplus excavated material, bedding, supply and installation of all pipe, bolts, gaskets and tie rods, polyethylene encasement as shown on the Drawings, imported or native backfill as shown on the Drawings, cleaning, pressure and leakage testing, flushing, disinfection, all surface restoration as specified under Section 31 23 01 (except permanent pavement restoration), and all other work and materials necessary to complete the installation as shown on the Drawings and specified under this Section.</p> <p>Where the trench excavation for a new water service connection encounters an existing valve shown to be abandoned in place, closure of the valve and removal and off-site disposal of the existing valve box casting, riser, and sleeve to a minimum of 300 mm below finished grade shall be included in the unit price for the Water Service Connection. No separate payment will be made under the Valve Removal and Abandonment item for valves abandoned within the Water Service Connection trench excavation footprint.</p> |

|  |        |                         |   |
|--|--------|-------------------------|---|
|  | 1.8.14 | Measurement and Payment | <p><b>Add Clause 1.8.14:</b> "Payment for hydrants shall be made on a per-each basis and shall include:</p> <p>.1 Supply and installation of the hydrant body and all appurtenances as shown on City of Victoria Standard Detail Drawing SD W4;</p> <p>.2 Supply and installation of the hydrant service lead from the mainline tee to the hydrant, including all fittings, thrust restraint, polyethylene encasement where required, and granular bedding and backfill for the service lead trench;</p> <p>.3 Supply and installation of the gate valve and adjustable valve box on the hydrant service lead;</p> <p>.4 All saw cutting, trench excavation, and backfill associated with the hydrant service lead and hydrant installation;</p> <p>.5 Temporary surface restoration (cold-mix asphalt patch or compacted granular) over the hydrant service lead trench to provide a safe and trafficable surface until permanent restoration is complete;</p> <p>.6 Height adjustment of the hydrant to meet finished grades — no additional payment will be made for hydrant extensions or reductions required to match final grade;</p> <p>.7 All required curb painting to City of Victoria standards upon completion;</p> <p>.8 Submission of completed hydrant cards to the City of Victoria upon project completion;</p> <p>.9 Coordination of removed hydrant return and delivery with City of Victoria Operations; removed hydrants shall be delivered to the City of Victoria Public Works Yard. Permanent surface restoration over the hydrant service lead trench is NOT included in this item and will be paid separately under the applicable Division 3 and Division 32 items."</p> <p><b>.10 Closure of the valve and removal and off-site disposal of the existing valve box casting, riser, and sleeve to a minimum of 300 mm below finished grade for any existing valve shown to be abandoned in place that is encountered within the trench excavation footprint of a new hydrant lead. No separate payment will be made under the Valve Removal and Abandonment item for valves abandoned within the trench excavation footprint of new hydrant leads.</b></p> |
|--|--------|-------------------------|---|

|  |        |                         |  |
|--|--------|-------------------------|--|
|  | 1.8.16 | Measurement and Payment | <p><b>Add Clause 1.8.16:</b> "Payment for watermain removals and abandonments shall be made on the basis set out below for each item. Unless otherwise noted, all items include saw cutting of existing pavement or concrete surfaces, trench excavation, granular backfill and compaction to 300 mm below the underside of the applicable permanent surface restoration layer, temporary surface restoration (cold-mix asphalt patch or compacted granular) to provide a safe and trafficable surface, and all incidentals required to complete the work. Permanent surface restoration is NOT included in any removal or abandonment item and will be paid separately under the applicable Division 3 and Division 32 items.</p> <p>.1 Payment includes closure of the existing valve in the fully closed position, excavation to expose the valve box assembly, removal of the valve box casting, riser, and sleeve to a minimum of 300 mm below finished grade, off-site disposal of removed components, granular backfill and compaction, and temporary surface restoration. The valve body shall remain in place. No separate payment will be made for excavation, backfill, or compaction associated with valve box removal.</p> <p>.2 Payment includes excavation to expose the hydrant boot, disconnection of the hydrant assembly from the hydrant boot a minimum of 300 mm below finished grade, removal of the hydrant body, capping of the hydrant boot with a mechanical joint cap or blind flange acceptable to City of Victoria Operations, granular backfill and compaction, and surface restoration to match surrounding conditions. The removed hydrant shall be delivered to the City of Victoria Public Works Yard in good condition; the Contractor shall coordinate the return and delivery schedule with City of Victoria Operations prior to removal. Delivery to the Public Works Yard is included in this item. The hydrant lead pipe, hydrant lateral gate valve, and tee connection at the mainline shall remain in place. The hydrant lateral gate valve shall be closed and the valve box casting, riser, and sleeve removed in accordance with Sub-Section 1.8.16.1 – Valve Removal and Abandonment.</p> <p>.3 Watermain Removal and Off-Site Disposal (per lineal metre, measured by nominal diameter): Payment includes removal and off-site disposal of the existing watermain pipe, couplings, and incidentals within the trench limits, cutting of the pipe at each end of the removal limits as directed by the Contract Administrator, capping or plugging of remaining pipe ends or connections with fittings acceptable to City of Victoria Operations, granular backfill and compaction of the trench, and temporary surface restoration. Measurement shall be made horizontally along the pipe centreline between the cut points as accepted by the Contract Administrator.</p> <p>.4 Abandon Existing Water Service at Curb Stop (per each): Payment includes locating and exposing the existing curb stop, closing the curb stop valve, sealing or plugging the service pipe at the curb stop in a manner acceptable to City of Victoria Operations, removal of the Brooks box and meter setter where accessible, granular backfill and compaction of any excavation required, and temporary surface restoration. Where the curb stop cannot be located, the Contractor shall notify the Contract Administrator</p> |
|--|--------|-------------------------|--|

**REVISED - APPENDIX 1**  
**SCHEDULE OF QUANTITIES AND PRICES**  
(SEE PARAGRAPH 5.3.1 OF THE INSTRUCTIONS TO TENDERERS - PART II)

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

Any work called for in these Contract Documents, shown on the plans, or which is necessary for the completion of the Work called for in these Contract Documents and which is not specifically listed as a separate payment item in this Appendix shall be deemed incidental to the performance of the Work and to the general purpose of the Contract; no separate payment will be made on account of any such Work, but the costs of any such incidental Work shall be included in the Unit and Lump Sum Prices.

**TENDER SUMMARY SHEET**

**Esquimalt Road Phase 2- Active Transportation Improvements & Underground Utility  
Renewals**

**AMOUNT**

Esquimalt Road Phase 02

SUBTOTAL TENDER PRICE \_\_\_\_\_

GST @ 5% \_\_\_\_\_

**TENDER PRICE plus GST** \_\_\_\_\_

| ITEM  | SSMP REF.      | DESCRIPTION  | Unit         | Est. Qty. | Unit Price | Amount |
|---|----------------|--|--------------|-----------|------------|--------|
| <b>DIVISION 1 - GENERAL REQUIREMENTS</b>                      |                |  |              |           |            |        |
| <b>01 10 00SS - General Requirements</b>                      |                |  |              |           |            |        |
| 1.1   | 1.2S           | Survey Layout, Quantity Survey, Volume Calculations and Record Survey  | Lump Sum     | 1         |            |        |
| <b>01 52 01 - Temporary Structures</b>                        |                |  |              |           |            |        |
| 1.2   | 1.6.2S         | Mobilization/Demobilization  | Lump Sum     | 1         |            |        |
| 1.3   | 1.6.3S         | Contaminated Soil Testing (Optional)   | Lump Sum     | 1         |            |        |
| 1.4   | 1.6.4S         | Pothole Locates at Tie-ins and Critical Crossings Inc. Backfill, and Temporary Pavement Restoration  | Each         | 8         |            |        |
| <b>01 55 00 - Traffic Control, Vehicle Access and Parking</b> |                |  |              |           |            |        |
| 1.5   | 1.5.1          | Traffic Management Plan  | Lump Sum     | 1         |            |        |
| 1.6   | 1.5.2S         | Traffic Control, Vehicle Access and Parking  | Lump Sum     | 1         |            |        |
| <b>DIVISION 3 - CONCRETE</b>                                  |                |  |              |           |            |        |
| <b>03 20 01 - Concrete Reinforcement</b>                      |                |  |              |           |            |        |
| 2.1   | 1.5.2S, 3.1.3S | Welded Wire Mesh - Optional<br>Supply and install M133250W 3" x 3" x 0.250" dia. welded wire mesh as concrete reinforcement                | Square Metre | 20        |            |        |
| <b>03 30 20 - Concrete Walks, Curb And Gutter</b>             |                |  |              |           |            |        |
| 2.2   | 1.4.3S         | Hand And Machine Formed Curb and Gutter<br>Hand Formed Curb and Gutter - Concrete Barrier - MMCD Type C4 barrier - Including Granular Base | Lineal Metre | 260       |            |        |
| 2.3   | 1.4.5S         | Concrete Walks, Infill Strips, and Walkways<br>Including Ramps and Granular Base - Broom Finish  | Square Metre | 447       |            |        |
| 2.4   | 1.4.6S         | Concrete Driveway Crossings<br>Per STD DWG TOE-SD-C7.1 and TOE-SD-C7.2 including Granular Base   | Square Metre | 75        |            |        |
| 2.5   | 1.4.12S        | Concrete Crossing Medians<br>Including Ramps and Granular Base - Broom Finish  | Square Metre | 20        |            |        |
| 2.6   | 1.4.12S        | Concrete Medians - Type 1 (Varying Heights) Including Rebar Pins and Grout - Broom Finish  | Square Metre | 7         |            |        |
| <b>03 40 01 - Pre-Cast Concrete</b>                           |                |  |              |           |            |        |
| 2.7   | 1.4.4S         | Precast Concrete Sanderson Curbs<br>Standard Curb – Including layout and 20M rebar pinning   | Each         | 191       |            |        |
| 2.8   | 1.4.4S         | Precast Concrete Sanderson Curbs<br>Bull Nose Curb End. - Including layout and 20M rebar pinning   | Each         | 52        |            |        |
| 2.9   | 1.4.4S         | Precast Concrete Sanderson Curbs<br>Dual Bull Nose Curb End. - Including layout and 20M rebar pinning                                      | Each         | 13        |            |        |

|  |        |   |               |        |  |  |
|--|--------|---|---------------|--------|--|--|
| 2.10   | 1.4.5S | <b>Precast Concrete Sanderson Curbs - Optional</b><br>relocation and removal of precast Sanderson curbs                                       | Each          | 15     |  |  |
| <b>DIVISION 31 - EARTHWORK</b>   |        |   |               |        |  |  |
| <b>31 11 01 - Clearing and Grubbing</b>                                      |        |   |               |        |  |  |
| 3.1  | 1.4.1S | <b>Stump Removal</b>  | Each          | 1      |  |  |
| <b>31 22 16 - Reshaping Granular Roadbeds</b>                                |        |   |               |        |  |  |
| 3.2  | 1.4.1  | <b>Reshaping Granular Roadbed - Optional</b><br>c/w Proof Rolling   | Square Metre  | 100    |  |  |
| <b>31 23 01 - Excavating, Trenching and Backfilling</b>                      |        |   |               |        |  |  |
| 3.3  | 1.10.3 | <b>Overexcavating - Optional</b><br>Including Backfilling   | Cubic Metre   | 20     |  |  |
| <b>31 23 17 - Rock Removal</b>   |        |   |               |        |  |  |
| 3.4  | 1.6.3  | <b>Mass Rock - Optional</b>   | Cubic Metre   | 20     |  |  |
| <b>31 24 13 - Roadway Excavation, Embankment and Compaction</b>              |        |   |               |        |  |  |
| 3.5  | 1.8.5S | <b>Common Excavation</b><br>Remove Existing Asphalt Pavement, Sidewalks - Including Sawcutting  | Square Metre  | 420    |  |  |
| 3.6  | 1.8.5S | <b>Common Excavation</b><br>Softscaped Areas  | Cubic Metre   | 100    |  |  |
| 3.7  | 1.8.5S | <b>Common Excavation</b><br>Remove Existing Concrete Pavement, Median, Sidewalks, Utility Strips, Driveways and Pavers - Including Sawcutting | Square Metre  | 350    |  |  |
| 3.8  | 1.8.5S | <b>Common Excavation - Optional</b><br>Roadway and Sidewalk Granular Material   | Cubic meters  | 85     |  |  |
| 3.9  | 1.8.5S | <b>Common Excavation</b><br>Remove Existing Concrete Curb and Gutter - Including Sawcutting   | Lineal Metres | 325    |  |  |
| 3.10   | 1.8.5S | <b>Contaminated Soil Disposal - Optional (Provisional sum)</b>  | tonne         | 330    |  |  |
| <b>DIVISION 32 - ROAD AND SITE IMPROVEMENTS</b>                              |        |   |               |        |  |  |
| <b>32 01 11 - Pavement Surface Cleaning and Removal of Pavement Markings</b> |        |   |               |        |  |  |
| 4.1  | 1.2.3S | <b>Removal of Existing Pavement Markings</b><br>Eradication by hydro blasting   | Lump Sum      | 1      |  |  |
| <b>32 01 16.7 - Cold Milling</b>   |        |   |               |        |  |  |
| 4.2  | 1.5.1S | <b>Cold Milling</b><br>Maximum 50mm depth   | Square Metres | 13,015 |  |  |
| 4.3  | 1.5.1S | <b>Cold Milling - Optional</b><br>Full depth 50mm - 150mm   | Square Metres | 1,301  |  |  |
| <b>32 11 16.1 - Granular Sub-Base</b>  |        |   |               |        |  |  |
| 4.4  | 1.4.3  | <b>75mm Minus Granular Sub-Base - Bulk Fill</b><br>250mm thickness  | Square Metres | 240    |  |  |
| <b>32 11 23 - Granular Base</b>  |        |   |               |        |  |  |
| 4.5  | 1.4.1S | <b>19mm Minus Granular Base</b><br>100-150mm thickness  | Square Metres | 240    |  |  |
| <b>32 12 13.1 - Asphalt Tack Coat</b>  |        |   |               |        |  |  |

|   |                             |   |               |        |  |  |
|---|-----------------------------|---|---------------|--------|--|--|
| 4.6   | 1.5.1                       | Asphalt Tack Coat   | Square Metres | 13,265 |  |  |
| <b>32 12 16 - Hot-Mix Asphalt Concrete Paving</b> |                             |   |               |        |  |  |
| 4.7   | 1.5.1S,<br>1.5.2            | Machine Laid - Upper Course<br>50mm Thick   | Square Metres | 13,265 |  |  |
| 4.8   | 1.5.1S,<br>1.5.2            | Machine Laid - Lower Course<br>50mm Thick   | Square Metres | 1831   |  |  |
| 4.9   | 1.5.1S,<br>1.5.2,<br>1.5.3S | Hand Placed - Upper Course<br>50mm Thick Hand Laid Hot Mix Asphalt -<br>including granular bases 50-100mm                             | Square Metres | 178    |  |  |
| <b>32 17 23 - Painted Pavement Markings</b>       |                             |   |               |        |  |  |
| 4.10  | 1.5.2,<br>1.5.3S            | Permanent Thermoplastic Pavement<br>Markings  | Lump Sum      | 1      |  |  |
| 4.11  | 1.5.2,<br>1.5.3S            | MMA<br>Including Stencils within Green Conflict<br>Paint  | Square Metres | 430    |  |  |
| <b>32 31 13 - Chain Link Fences &amp; Gates</b>   |                             |   |               |        |  |  |
| 4.12  | 1.5.5S                      | Pexco City Posts 24" C/W 2-3" HI White<br>Bands, Surface Mount<br>Supply and Install  | Each          | 119    |  |  |
| 4.13  | 1.5.6S                      | Remove Existing Bollards<br>Return to ToE PW Yard   | Each          | 24     |  |  |
| 4.14  | 1.5.5S                      | Install Only - Steel Bollard on Median  | Each          | 1      |  |  |
| 4.15  | 1.5.7S                      | Existing Street Planter<br>Remove, Relocate, Reinstall, or Deliver<br>Existing Planters to Township of Esquimalt<br>Public Works Yard | Each          | 2      |  |  |
| <b>32 91 21 - Topsoil and Finish Grading</b>      |                             |   |               |        |  |  |
| 4.16  | 1.4.1S                      | Boulevard Topsoil(150mm Thickness)  | Square Metres | 155    |  |  |
| <b>32 92 20 - Seeding</b>                         |                             |   |               |        |  |  |
| 4.17  | 1.8.1S                      | Seeding   | Square Metres | 155    |  |  |
| <b>DIVISION 33 - Utilities</b>                    |                             |   |               |        |  |  |
| <b>33 01 30.1 - CCTV Inspection of Pipelines</b>  |                             |   |               |        |  |  |
| 5.1   | 1.6.2                       | CCTV pre-inspection of Sewers   | Lineal Metres | 670    |  |  |
| 5.2   | 1.6.2                       | CCTV post lining inspection of Sewers   | Lineal Metres | 670    |  |  |
| <b>33 01 30.2 - Cleaning of Sewers</b>            |                             |   |               |        |  |  |
| 5.3   | 1.5.4S                      | Root Cutting  | Lineal Metres | 206    |  |  |
| <b>33 05 24 - Cured In Place Pipe Liners</b>      |                             |   |               |        |  |  |
| 5.4   | 1.9.1S                      | Bypass Pumping / Flow Control   | Lump Sum      | 1      |  |  |
| 5.5   | 1.9.8                       | CIPP Lining Sani 200  | Lineal Metres | 220    |  |  |
| 5.6   | 1.9.8                       | CIPP Lining Sani 150  | Lineal Metres | 50.5   |  |  |
| 5.7   | 1.9.8                       | Service CIPP Lining Sani 100  | Each          | 4      |  |  |
| 5.8   | 1.9.8                       | Service CIPP Lining Sani150   | Each          | 2      |  |  |

|                              |                         |   |               |      |  |  |
|------------------------------|-------------------------|---|---------------|------|--|--|
| 5.9                          | 1.9.8                   | <b>CIPP Lining Storm 200</b>  | Lineal Metres | 170  |  |  |
| 5.10                         | 1.9.8                   | <b>CIPP Lining Storm 250</b>  | Lineal Metres | 12   |  |  |
| 5.11                         | 1.9.8                   | <b>Storm Sewer Main Rehabilitation, 200 mm Dia – Sectional CIPP Lining - includes sealing of liner termination (Optional)</b> | Lineal Metres | 10.5 |  |  |
| 5.12                         | 1.9.8                   | <b>Service CIPP Lining Storm 150</b>  | Each          | 7    |  |  |
| 5.13                         | 1.9.9                   | <b>Service Reconnection</b>   | Each          | 19   |  |  |
| <b>33 11 01 - Waterworks</b> |                         |   |               |      |  |  |
| 5.14                         | 1.8.1,<br><b>1.8.2S</b> | <b>Watermain PVC</b><br>200mm Dia. At 0 - 2 m depth Inc. granular backfill  | Lineal Meter  | 20   |  |  |
| 5.15                         | 1.8.1,<br><b>1.8.2S</b> | <b>Watermain PVC</b><br>250mm Dia. At 0 - 2 m depth Inc. granular backfill  | Lineal Meter  | 10   |  |  |
| 5.16                         | 1.8.1,<br><b>1.8.2S</b> | <b>Watermain Ductile Iron</b><br>250mm Dia. At 0 - 2 m depth Inc. granular backfill   | Lineal Meter  | 5    |  |  |
| 5.17                         | 1.8.3                   | <b>In-line Gate Valve</b><br>200mm Dia. - H x H - c/w mechanical restraints   | Each          | 6    |  |  |
| 5.18                         | 1.8.3                   | <b>In-line Gate Valve</b><br>200mm Dia. - H x F - c/w mechanical restraints <b>(Optional)</b>                                 | Each          | 1    |  |  |
| 5.19                         | 1.8.3                   | <b>In-line Gate Valve</b><br>250mm Dia. - F x MJ - c/w mechanical restraints  | Each          | 1    |  |  |
| 5.20                         | 1.8.3                   | <b>In-line Gate Valve</b><br>250mm Dia. - H x H - c/w mechanical restraints   | Each          | 1    |  |  |
| 5.21                         | 1.8.3                   | <b>In-line Gate Valve</b><br>250mm Dia. - F x F - c/w mechanical restraints   | Each          | 1    |  |  |
| 5.22                         | 1.8.3                   | <b>In-line Gate Valve</b><br>250mm Dia. - H x F - c/w mechanical restraints   | Each          | 2    |  |  |
| 5.23                         | 1.8.3                   | <b>Water Bend</b><br>200mm Dia. - H x H - 45 degrees  | Each          | 1    |  |  |
| 5.24                         | 1.8.3                   | <b>Water Bend</b><br>200mm Dia. - H x F - 45 degrees  | Each          | 1    |  |  |
| 5.25                         | 1.8.3                   | <b>Water Bend</b><br>250mm Dia. - MJ x MJ - 90 degrees  | Each          | 1    |  |  |
| 5.26                         | 1.8.3                   | <b>Water Tee</b><br>200mm x 200mm x 150mm - H x H x H - c/w mechanical restraints   | Each          | 3    |  |  |
| 5.27                         | 1.8.3                   | <b>Water Tee</b><br>200mm x 200mm x 200mm - H x H x H - c/w mechanical restraints   | Each          | 1    |  |  |
| 5.28                         | 1.8.3                   | <b>Water Tee</b><br>250mm x 250mm x 200mm - F x F x F - c/w mechanical restraints   | Each          | 1    |  |  |
| 5.29                         | 1.8.3                   | <b>Water Cross</b><br>250mm x 250mm x 250mm x 250mm - H x H x H x H - c/w mechanical restraints                               | Each          | 1    |  |  |
| 5.30                         | 1.8.3                   | <b>Water Reducer</b><br>200mm Dia. to 150mm Dia. - F x MJ   | Each          | 1    |  |  |
| 5.31                         | 1.8.3                   | <b>Water Reducer</b><br>250mm Dia. to 175mm Dia. - F x H  | Each          | 1    |  |  |
| 5.32                         | 1.8.3                   | <b>Water Reducer</b><br>250mm Dia. to 200mm Dia. - F x H  | Each          | 1    |  |  |

|      |                    |  |              |   |  |  |
|------|--------------------|--|--------------|---|--|--|
| 5.33 | 1.8.3              | <b>Cap</b><br>150mm Dia. - Inc. excavation, cutting, abandonment, and granular backfill  | Each         | 1 |  |  |
| 5.34 | 1.8.3              | <b>Cap</b><br>175mm Dia. - Inc. excavation, cutting, abandonment, and granular backfill  | Each         | 3 |  |  |
| 5.35 | 1.8.3              | <b>Cap</b><br>250mm Dia. - Inc. excavation, cutting, abandonment, and granular backfill  | Each         | 2 |  |  |
| 5.36 | 1.8.3              | <b>Blind Flange Assembly</b><br>250mmØ DI c/w gasket, S/S bolts, petrolatum wrap & poly encasement per tie-in detail   | Each         | 1 |  |  |
| 5.37 | 1.8.4,<br>1.8.2S   | <b>Water Service 25mm</b> as per CoV SD W2a, Including Brooks Box, Touch Read Meter (City of Victoria will supply meter) as per SD W2c, Tie-in to Existing Main, Corp. Stop  | Each         | 5 |  |  |
| 5.38 | 1.8.4,<br>1.8.2S   | <b>Water Service 38mm</b><br>as per CoV SD W2b, Including Brooks Box, Touch Read Meter (City of Victoria will supply meter) as per SD W2d, Tie-in to Existing Main, Corp. Stop   | Each         | 1 |  |  |
| 5.39 | 1.8.4,<br>1.8.2S   | <b>Water Service 50mm</b><br>as per CoV SD W2b, Including Brooks Box, Touch Read Meter (City of Victoria will supply meter) as per SD W2d, Tie-in to Existing Main, Corp. Stop   | Each         | 4 |  |  |
| 5.40 | 1.8.14S,<br>1.8.2S | <b>Hydrant Assembly</b><br>Per MMCD standard Drawing W4. c/w 150 DI PC350<br>Hydrant watermain lead installed at depth of 1m and imported granular backfill. to be c/w 19mm Granular base and 250mm - 75mm Minus Pit Run Gravel where under asphalt or concrete. Inclusive of all required appurtenances prior to valve. | Each         | 3 |  |  |
| 5.41 | 1.8.9              | <b>Concrete Encasement, Thrust &amp; Anchor Blocks</b><br>Extra over Items 1.8.2 if shown on Contract Drawings   | Cubic Metres | 2 |  |  |
| 5.42 | 1.8.13             | <b>Joffre Water Tie-In</b><br>150mm Dia. And 200mm DIA Inc. Robar Coupler  | Each         | 1 |  |  |
| 5.43 | 1.8.13             | <b>Lampson Water Tie-In</b><br>175mm Dia., 200mm DIA., 250mm Dia. Inc. Robar Coupler   | Each         | 2 |  |  |
| 5.44 | 1.8.16S            | <b>Valve Removal and Abandonment</b><br>Inc. cutting, backfilling  | Each         | 6 |  |  |
| 5.45 | 1.8.16S            | <b>Hydrant Removal</b><br>Including return of hydrant to City of Victoria Public Works Yard  | Each         | 1 |  |  |
| 5.46 | 1.8.16S            | <b>Watermain Removal and Off-Site Disposal</b><br>250mm Dia. Cast Iron<br>Inc. excavation, cutting, removal, off-site disposal, and granular backfill  | Lineal Meter | 6 |  |  |
| 5.47 | 1.8.17S            | <b>Meter Vault Modification at 1149 Esquimalt</b><br>cast-in-place concrete around new meter and existing fire line DCDA, supply and install new Norinco TI3S106070AV vault hatch.   | Each         | 1 |  |  |

|   |  |  |               |      |  |  |
|---|--|--|---------------|------|--|--|
| 5.48  | 1.8.16S                                  | <b>Abandon Existing Water Service at Curb Stop</b><br>Including locating curb stop, closing valve, sealing | Each          | 10   |  |  |
| <b>33 40 01 - Storm Sewers Open Trenching</b> |  |  |               |      |  |  |
| 5.49  | 1.6.5                                    | <b>Catch basin Lead</b><br>PIPE DIA. 150mm SDR28 PVC   | Lineal Metres | 20   |  |  |
| 5.50  | 1.6.1,<br>1.6.2                          | <b>DGM0919</b><br>PIPE DIA. 200mm, installed at depth 1-3m<br><b>(Optional)</b>                            | Lineal Metres | 10.5 |  |  |
| 5.51  | 1.6.9                                    | <b>Tie-in to Existing Storm Sewer</b>  | Each          | 2    |  |  |
| <b>33 44 01 - Manholes and Catch basins</b>   |  |  |               |      |  |  |
| 5.52  | 1.5.4                                    | <b>Remove Existing Catch Basins</b><br>c/w cap of Existing Lead - offsite Disposal                         | Each          | 2    |  |  |
| 5.53  | 1.5.2                                    | <b>New Catch Basin</b><br>as per ToE-SD-S11.1  | Each          | 3    |  |  |
| 5.54  | 1.5.2                                    | <b>New Offset Catch Basin</b><br>as per CoV-SD-S11C  | Each          | 1    |  |  |
| 5.55  | 1.5.3S                                   | <b>Adjust valves, Junction Boxes, Inspection chambers, and Catch Basin Castings to Finished Grade</b>      | Each          | 16   |  |  |
| 5.56  | 1.5.3S                                   | <b>Adjust Manhole to Finished Grade - includes Third Party Manholes</b>                                    | Each          | 1    |  |  |
| 5.57  | 1.5.2                                    | <b>Storm Inspection chambers</b>   | Each          | 6    |  |  |
| 5.58  | 1.5.2                                    | <b>Sani Inspection chambers</b>  | Each          | 5    |  |  |
| <b>DIVISION 34 - TRANSPORTATION</b>           |  |  |               |      |  |  |
| <b>34 41 13 - Traffic Signals</b>             |  |  |               |      |  |  |
| 6.1   | 26 56 01<br>1.9.1 /<br>34 41 13<br>1.9.2 | <b>RRFB - Esquimalt Rd at St Paull PI</b>  | Lump Sum      | 1    |  |  |
| 6.2   | 26 56 01<br>1.9.1 /<br>34 41 13<br>1.9.2 | <b>RRFB - Esquimalt Rd at Sturdee St</b>   | Lump Sum      | 1    |  |  |
| 6.3   | 26 56 01<br>1.9.1 /<br>34 41 13<br>1.9.2 | <b>RRFB - Esquimalt Rd at Constance Ave</b>  | Lump Sum      | 1    |  |  |
| 6.4   | 26 56 01<br>1.9.1 /<br>34 41 13<br>1.9.2 | <b>RRFB - Esquimalt Rd at Fraser St</b>  | Lump Sum      | 1    |  |  |
| 6.5   | 26 56 01<br>1.9.1 /<br>34 41 13<br>1.9.2 | <b>RRFB - Esquimalt Rd at Fernhill Rd</b>  | Lump Sum      | 1    |  |  |
| 6.6   | 26 56 01<br>1.9.1 /                      | <b>Esquimalt Road at Admirals Road</b>   | Lump Sum      | 1    |  |  |

UNIT  
PRICE  
CONTRACT

ENG 26-03  
TOE ESQUIMALT ROAD PHASE 2  
FORM OF TENDER -REVISED

FORM OF TENDER  
PAGE 11 OF 15

|      |  |   |             |    |  |  |
|------|--|---|-------------|----|--|--|
|      | 34 41 13<br>1.9.2                        |   |             |    |  |  |
| 6.7  | 26 56 01<br>1.9.1 /<br>34 41 13<br>1.9.2 | 1188 Esquimalt Road                               | Lump<br>Sum | 1  |  |  |
| 6.8  | 1.9.1                                    | Signal Poles - Esquimalt Rd at Nelson St          | Lump<br>Sum | 1  |  |  |
| 6.9  | 1.9.4S                                   | Remove Existing Sign and Dispose<br>offsite       | Each        | 34 |  |  |
| 6.10 | 1.9.4S                                   | Relocate Existing Sign and/or Post                | Each        | 1  |  |  |
| 6.11 | 1.9.4S                                   | Install New Sign on Existing Post                 | Each        | 3  |  |  |
| 6.12 | 1.9.4S                                   | Install New Sign and New Post                     | Each        | 15 |  |  |
| 6.13 | 1.9.4S                                   | Install Custom WA-36L Knockdown Sign              | Each        | 2  |  |  |
| 6.14 | 1.9.4S                                   | Install Coroplast Sign on New or<br>Existing Post | Each        | 33 |  |  |