January 2023

City of Peterborough

Unit Price Contract Supplemental General Conditions and Standard Specifications Modification Summary

City of Peterborough
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Department: **Infrastructure and Planning Services**

January 2023 Edition

The following information is provided by the City of Peterborough to be considered part of Contracts where identified in the tender documents.

Unit Price Contract Supplemental General Conditions and Standard Specifications Modification Summary

Please notify the contact listed below of any omissions or errors in these documents.

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Supplemental General Conditions

Added to: 9. Operational Constraints

e) When approved by the Contract Administrator 72 hours in advance of the proposed work taking place outside of the permitted operational constraints hours, or as stipulated in the contract requirements, the Contractor shall provide 48 hours notice to homeowners, business owners and residents where dwellings and buildings are located within 152.5 meters (500') of the proposed work zone.

Amended to: 12. Trees and Shrubs

Protection of Trees and Shrubs (Supplemental General Conditions) - OPSS 801 **(April 2018)** is added to this section.

Added to: 17. Liquidated Damages

The Contractor and any subcontractors hired under their direction and supervision must mobilize as often as needed. It is expected that subcontractors are notified upon commencement of work that they shall mobilize on as frequent of a basis as required to keep the initial contract schedule submitted that is in accordance with completion timelines stipulated in the contract requirements. Subcontractor delays will not constitute sufficient cause for claim or additional working days to be allocated to the Contract.

Amended to: 50. Payment of Workers

City of Peterborough - C.U.P.E. Local 504 Wage Schedule

Environmental Protection Division Wage Schedule

Job Class	January 1 to December 31, 2023 Rate
WWTP Temporary Operator	$21.02
WWTP Operator in Training (Apprentice)	$26.27
WWTP Operator I	$30.27
WWTP Operator 2	$31.49

WWTP Operator 3	$32.75
WWTP Operator 4	$35.00
WWTP Plant Maintenance 1	$31.49
WWTP Plant Maintenance 2	$33.60
WWTP Plant Maintenance 3*	$35.00
WWTP Licensed Electrician	$35.00
Environmental Protection Foreman 2	$37.73

Public Works Division Wage Schedule

Job Class	January 1 to December 31, 2023 Rate
PW Temporary Labour	$21.02
PW Operator 1	$25.14
PW Operator 2	$26.11
PW Operator 3	$27.09
PW Operator 4	$28.07
PW Operator 5	$28.55
PW Operator 6	$29.03
PW Arborist 1	$27.50

PW Arborist 2	$28.14
PW Arborist 3	$28.59
PW Arborist 4	$29.06
PW Arborist 5	$29.35
Temporary Solid Waste Collection	PW Operator 1 plus $1.00
Solid Waste Collection One-Man	Applicable PW Operator plus $1.00
Solid Waste Collection Two-Man	Applicable PW Operator plus $1.00
PW Temporary/Seasonal Foreman 1	$32.67
PW Permanent Foreman 2	$36.18

Standard Specifications

New Specification: CP310.08 Supply/Install HL-2 Hot Mix Asphalt (Including A/C)

OPSS.MUNI 310, November 2017, shall apply except as amended and extended herein.

The unit price bid identified in the schedule of unit prices shall be full compensation for all labor, materials, and equipment necessary to supply and place HL-2 hot mix asphalt as specified on the contract drawings.

This item shall include the general requirements set forth in specification CP310.01, with the exception that PGAC grade 58-28 shall be utilized.

New Specification: CP510.16 Abandoning of Sewers/Structures by Pressure Grout (Mechanical Method)

OPSS.MUNI 510, November 2018, shall apply except as amended and extended herein.

The unit price bid shall be full compensation for the supply of all labour, equipment, and materials necessary for abandoning storm and sanitary sewers and/or structures by way of pressure grouting (mechanical method).

Added to: CP200.00 Traffic Control

3) **Short term duration work and traffic control set-ups that may interrupt the operation of transit stop locations within the immediate vicinity of a work shall require the existing transit stop to be temporarily decommissioned (bagged), and a new temporary stop location erected outside of the immediate work zone accessible to the public. Long term duration operations that may regularly interrupt transit stop operation shall be coordinated through the Contract Administrator and/or the City Transportation and Transit divisions.**

Added to: CP206.01 Earth Excavation, Ditching, Grading and Excess Soil (Cut/Fill/Export)

Excess Soil Requirements **And Registering of Excess Soil Materials (for projects not exempt under Schedule 2 of O.Reg. 406/19):**

O. Reg 406/19 **and the Rules for Soil Management and Excess Soil Quality Standards (the Excess Soil Rules)**, shall apply except as amended and extended herein.

The unit price bid identified in the schedule of unit prices shall be full compensation for the supply of all equipment, coordination. labour and materials necessary to satisfy the requirements below:

The City will be responsible for all associated costs and coordination of a Qualified Person (QP) when required on the project site/area. Testing and Sampling requirements will be determined by the City, City's retained QP **and in conjunction with the determined reuse site, when applicable**. The Contractor shall have no entitlement for claims associated to testing regime changes (i.e.: more or less frequent testing, testing methods, etc), waiting for results (expected time frame 5-7 business days) and the double handling of materials (ie: dumping to stockpile and reloading for further transportation). The Contractor may request sampling and testing through the Contract Administrator only if unsuitable soils are encountered, or soil conditions are believed to have changed that were otherwise assumed to be re-used on the project site. When waiting for sampling results, the Contractor will be responsible for stockpiling of the material in a safe manner on the project site/area or in a location of their choice as approved by the City and City's retained QP.

The Contractor will be responsible for all associated costs, coordination and deliverables of a Qualified Person (QP) when required at the receiving site.

Under no circumstances shall the Contractor commence excavation operations until a list of all anticipated materials for excavation is assembled with associated estimated quantities provided and accepted by the Contract Administrator. The list provided shall be in Excel format as shown in Form 008 – Earth Excavation, Grading and Excess Soil (Cut/Fill/Export).

In the case of a vac truck taking liquid soil off site that the contractor must provide the location of the destination for the liquid soil and confirmation that the facility has a **site-specific instrument (i.e. permit, Environmental Compliance Approval, license,** Certificate of Authorization**, etc.)** to receive the waste (liquid soil is a waste now). If the use of a vac truck occurs unexpectedly throughout construction, this will be required prior to any excavation being performed by use of vac truck.

Form 008 – Earth Excavation, Grading and Excess Soil (Cut/Fill/Export) shall be provided to the Contract Administrator within ten (10) business days of Award of the Contract. The City will not be responsible for delays to the commencement of excavation operations if the Contractor fails to meet this timeline in an acceptable manner. All projects will require submission of Form 008 – Earth Excavation, Grading and Excess Soil (Cut/Fill/Export). For contracts where advance testing and reporting is not provided by the City at the time of bidding the Contractor shall be made aware that testing may be conducted by the City's QP firm upon the commencement of excavation operations to determine the quality of the soil for reconfirmation by the Contractor QP for the proposed receiving site. The City shall not entertain claims for changes from assumptions made by the Contractor in Form 008 – Earth Excavation, Grading and Excess Soil (Cut/Fill/Export) because of soil quality results. Form 008 – Earth Excavation, Grading and Excess Soil (Cut/Fill/Export) shall be accompanied with documentation for each disposal and re-use site and again when any revisions are made following quality testing results.

If carried out during the design/planning phase, the City shall provide the site evaluation for the testing through **any pre-planning documents (i.e. Assessment of Past Uses, Sampling and Analysis Plan, and Soil Characterization Report)** prepared by a third party Environmental/Geotechnical firm**.**

If not already determined through **the pre-planning documents,** the Contractor shall inform the City at the pre-construction meeting when it is expected that the excess soil export materials are proposed to exceed 2,000 cubic meters for a given project site so that the City is given sufficient time to coordinate the Registering of such materials. If/when the Contractor does not anticipate to export more than 2,000 cubic meters of materials from a given project site, the Contractor shall provide immediate notice to the Contractor Administrator who shall be given reasonable time to coordinate for the registering of such materials, as required.

Excess Soil Hauling:

The tracking system is to be developed by the Contractor and approved by the City and the City's QP prior to removing any excess soil from the project area.

Digital (Software Application Based) Hauling records must be submitted to the Contractor Administrator by the Contractor prior to Final Completion. **Any digital hauling records should be made available to the City upon request. Digital hauling records are to be submitted to the Contractor Administrator by the Contractor on a regular schedule of every 2 weeks or otherwise agreed upon at the pre-construction meeting to verify the accuracy of the records. The tracking**

system must include procedures or other methods to verify the accuracy of the information required to be tracked in respect of each load of excess soil that is to be removed from the project area.

If digital hauling records are not available to the Contractor, an alternative method of tracking the excess soils must be approved by the City and the City's QP. At a minimum, the tracking system shall provide all requirements outlined in the Excess Soil Rules document, mainly:

1. **The locations of the project area where the soil was excavated and/or stockpiled and the quality of the soil associated with these locations and stockpiles**
2. **The quality of the load of excess soil being removed from the project area**
3. **The location of the site at which the excess soil is to be finally placed or reused**
4. **The date and time the excess soil left the project area**
5. **The person responsible from the project area for overseeing the loading of the excess soil**
6. **The name of the entity transporting the excess soil, the name of the driver of the vehicle and the number plates of the transport vehicle**
7. **The date and time the excess soil was received at the site where excess soil has been deposited**
8. **The contact information of the person who acknowledged receipt of the load of excess soil on behalf of the site where excess soil was deposited**
9. **Confirmation that the vehicle that deposited the excess soil and the volume of soil received at the site is the same as that which left the project area.**

Temporary Excess Soil Stockpiling Alternatives:

The Contractor and City may enter into a mutual written (email only) agreement, if the 'yard' is not classified as a soil bank storage site, to have materials stockpiled at the Contractor's yard. At the end of each construction season and/or when appropriate the stockpile shall be sampled and tested at the City's expense. The testing results shall determine when the material can be dispositioned at the Contractor's expense in standing with the requirement for potential double handling within CP206.01. Contaminated materials will require to be disposed in standing with the appropriate contract item(s) for disposal of contaminated soils, where the Contractor shall only be permitted to request payment of tipping fees at the receiving facility as CP206.01 account for the transportation (double handling) of the soils.

The Contract Administrator shall be notified where a potential for contaminated

soil is anticipated or encountered, the Contractor shall segregate the excess soil from other soil stockpiles which may be on site. Any potentially contaminated excess soil should be stored in a manner that prevents any contaminants from the soil from leaching into the groundwater at the site from the stockpile.

Disposal at a site:

A Government Instrument must be provided where applicable, if the disposal site is not owned by the General Contractor, they shall also provide a statement indicating that they have confirmed that the soil material will be delivered to a site that holds a Government Instrument.

Alternatively, where a Government Instrument is not available for the subject disposal site, the Contractor will be required to provide a named QP and associated number with their respected association along with a statement from the receiving owner and QP that the site is adequate for receiving such type, quality and quantity of material.

Re-use site:

For re-use site, the Contractor will be required to provide a named QP and credential number along with a **signed** statement from the receiving owner and QP that the site is adequate for receiving such type, quality and quantity of material.

Destination sites (i.e.: Alternate Re-use Site and Disposal Site) shall be reviewed by the City and the City's retained QP for approval. If a site is determined to be rejected, the Contractor will be notified as to the reason and the Contractor will be required to choose a different site until one is successfully approved at no extra cost to the City.

Final Documentation:

If surplus soils are transported to a site in excess of the estimate quantity plus its contingent amount, the additional soil shall be specifically approved by the receiving QP, where a QP is required.

Once the Contractor determines that a receiving site will no longer have excess soil transported to it, the receiving QP shall provide all documentation to fulfill quantities received in standing with owner/QP statements previously submitted and that the quality of the soil is acceptable in standing with the O. Reg.

Final documentation shall be provided prior to Final Completion of the Contract **whether through request of CP206.01 or O.Reg. 406/19 and shall be signed by the Contractor's Professional Qualified Person, unless otherwise approved by the Contractor Administrator. Form 009 – CP206.01 Excess Soil Final Documentation Checklist shall accompany all documentation and must be submitted as a final package with all project documentation that took place, regardless of whether it was previously provided in part. Failure to provide the Final Package Documentation** records prior to Final Completion will see working days continue to accrue in addition to set-offs being applied to **any related** payment items CP206.01**.**

Added to: CP310.01 General Asphalt Requirements

OPSS.MUNI 310, November 2017, shall apply except as amended and extended herein.

The following table illustrates the acceptable tolerance for asphalt cement content required in HL-1, **HL-2,** HL-3 and HDBC Hot Mix Asphalt products:

Tolerances for Asphalt Cement Content (*)

Mix	Attribute	Job-Mix Formula	OPSS 310 Acceptable	OPSS 310 Borderline	OPSS 310 Rejectable
HL1 & HL3	**AC Content**	**5.2% Min.**	**< 0.30**	**0.03 to 0.50**	**> 0.50**
HDBC	**AC Content**	**5.0% Min.**	**< 0.30**	**0.30 to 0.50**	**> 0.50**
HL-2	**AC Content**	**6.2% Min.**	**< 0.30**	**0.30 to 0.50**	**> 0.50**

Mix Designs

Mix designs shall be the responsibility of the Contractor and shall be submitted to the Contract Administrator for testing, analysis, and approval of the mix by the City retained quality assurance consultant a minimum of Thirty (30) days prior to placement of asphalt. Job-mix formula adjustments submitted may not be reviewed ahead of paving, or given approval by the City, and shall be at the Contractor's risk.

Asphalt mix designs shall not be permitted to exceed 15% natural sand, with the exception of asphalt being placed in conformance with **CP310.08 and** CP311.01 (when applicable).

Sampling & Testing

All samples are to be collected **on-site** in the presence of the Contract Administrator in accordance with the procedures outlined by CCIL and placed in a container approved by the Contract Administrator. Prior to delivery, all samples are to be certified by the Contract Administrator by affixing a seal to the sample. Where the Contract Administrator initiates testing in accordance with OPSS requirements, the City will pay the laboratory-testing costs incurred. Any other testing over and above what is required by the City will be at the Contractors expense, including referee testing.

All costs associated with referee testing shall be the responsibility of the Contractor. **Should referee testing be required, results shall conform to full suite compliance testing, including solvent extraction, gradation & marshall properties testing.** Where the Contract Administrator and the Contractor agree that specific mix attributes

do not require referee testing, those attributes will be considered acceptable. The Contractor shall be reimbursed for the cost of referee testing provided the referee sample is acceptable as per the requirements of OPSS.MUNI 310 (mix must not fall within the borderline or rejectable ranges).

Material Specifications

Requirements for Performance Graded Asphalt Cement shall be in accordance with CP1101.01. Grade 58-34 shall be the standard asphalt cement grade unless otherwise specified in the contract documents. CP 310.02 and CP 310.05 mixes for **arterial and collector roads shall receive upgraded performance graded asphalt cement content of 64-34 (PGAC 64-34), rather than standard 58-34, unless otherwise specified in the contract documents and/or unit price contract supplemental information package.**

A summary of arterial and collector designated roadways is available on the City of Peterborough website:

https://www.peterborough.ca/en/city-services/resources/Documents/TR-arterial-and-collector-roads-map.pdf

Quality Assurance

Quality assurance testing protocols as referred to in CP200.01 shall apply.

Performance graded asphalt cement 64-34 (PGAC 64-34) arterial and collector roads which require work to be performed during the night hours (9PM to 7AM) as per contractual requirements shall not be paved after September 30th, unless weather conditions permit temperatures of 10°C and rising.

Added to: CP351.02 Construct Concrete Sidewalks, Ramps, Driveways and Medians

Concrete thickness is to match that of the sidewalk as mentioned above. Sidewalk and driveways are to be separated by an expansion joint comprised of asphalt-impregnated fiberboard having a nominal thickness of 12 mm and shall be according to OPSS.MUNI 1308, Type A. Fiberboard shall be placed at a maximum of 4m to 5m of sidewalk and will be full thickness of Sidewalk slab. **After pouring of concrete sidewalk and/or crosswalk bays, equally spaced joints may be saw cut into the surface using sufficient dust control measures as an acceptable crack-preventing concrete finishing method, in lieu of troweled dummy joints.**

Added to: CP407.01 Supply/Install 600mm X 600mm Concrete Catch Basins

OPSS.MUNI 407, November 2022, shall apply except as amended and extended herein.

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned

storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Connections to structures with PVC and all flexible pipes shall have factory installed rubber gaskets (boots). **Use of sanded adapters and** parging of these connections is not accepted unless otherwise approved by the City of Peterborough.

Added to: CP407.02 Supply/Install 1450mm X 600mm Concrete Twin Inlet Catch Basins

OPSS.MUNI 407, November 2022, shall apply except as amended and extended herein.

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Connections to structures with PVC and all flexible pipes shall have factory installed rubber gaskets (boots). **Use of sanded adapters and** parging of these connections is not accepted unless otherwise approved by the City of Peterborough.

Added to: CP407.03 Supply/Install Concrete Storm Structure

OPSS.MUNI 407, November 2022, shall apply except as amended and extended herein.

Connections to structures with PVC and all Flexible pipes shall have factory installed rubber gaskets (boots). **Use of sanded adapters and** parging of these connections is not accepted unless otherwise approved by the City of Peterborough. Connection to concrete storm structures shall be in accordance with CPD 708.020.

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be

conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to: CP407.04 Supply/Install Concrete Sanitary Structures

OPSS.MUNI 407, November 2022, shall apply except as amended and extended herein.

Connections to sanitary structures with PVC and all Flexible pipes shall have factory installed rubber gaskets (boots). **Use of sanded adapters and** parging of these connections is not accepted unless otherwise approved by the City of Peterborough. Connection to concrete sanitary structures shall be in accordance with CPD 708.020.

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to: CP408.01 Supply / Set Catch Basin, Catch Basin Manhole, Water Valve Chambers, Bell Chambers and Manhole Frames, Covers and Grates

OPSS.MUNI 408, November 2022, shall apply except as amended and extended herein.

All final adjustments must be complete after the base asphalt layer has been placed, **unless otherwise approved by the Contract Administrator when dealing with minor asphalt infill works.** Adjustments to final elevation shall not proceed prior to base asphalt acceptance.

Adjustments to final elevation must be complete subsequent to base asphalt installation and shall not proceed prior to its acceptance, unless otherwise approved at the discretion of the City's designate when dealing with minor asphalt infill works.

Added to: CP408.02 Reset / Adjust / Existing Catch Basin, Catch Basin Manhole, Water Valve Chambers, Bell Chambers and Manhole Frames, Covers and Grates

OPSS.MUNI 408, November 2022, shall apply except as amended and extended herein.

Adjustments to final elevation must be complete subsequent to base asphalt installation and shall not proceed prior to its acceptance, unless otherwise approved at the discretion of the City's designate when dealing with minor asphalt infill works.

Added to: CP408.03 Reset / Adjust Valve Boxes

OPSS.MUNI 408, November 2022, shall apply except as amended and extended herein.

Added to: CP408.04 Rebuilding of Existing Maintenance Holes, Catch Basins and Ditch Inlets

OPSS.MUNI 408, November 2022, shall apply except as amended and extended herein.

Added to: CP410.01 Supply/Install DR 35 PVC Storm Sewer

h) Connections to existing and new structures in accordance with CPD 708.020, including tapping of pipes into existing structures with the use of rubberized connectors (boots) and altering benching, if required.

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to: CP410.02 Supply/Install Concrete Storm Sewer

h) Connections to existing and new structures in accordance with CPD 708.020, including tapping of pipes into existing structures with the use of rubberized connectors (boots) and altering benching, if required.

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned

storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to: CP410.03 Supply/Install DR 28 PVC Sanitary Service

h) Connections to existing and new structures in accordance with CPD 708.020, including tapping of pipes into existing structures with the use of rubberized connectors (boots) and altering benching, if required.

When terminating unconnected services, they shall be identified with a 2"x4" (38mm x 89mm) wood stakes placed from the service invert to 150mm below grade and painted green for the top 300mm of the stake. Plugged or capped service connections shall be marked on the top surface of the last 3m of the upstream end of the pipe with yellow PVC adhesive tape (50mm wide) labeled continuously in black lettering (40mm wide).

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to: CP410.04 Supply/Install DR 35 PVC Sanitary Sewer

h) Connections to existing and new structures in accordance with CPD 708.020, including tapping of pipes into existing structures with the use of rubberized connectors (boots) and altering benching, if required.

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to: CP410.05 Supply/Install Concrete Sanitary Sewer

h) Connections to existing and new structures in accordance with CPD 708.020, including tapping of pipes into existing structures with the use of rubberized connectors (boots) and altering benching, if required.

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to: CP410.08 Supply/Install DR 28 PVC Storm Service

h) Connections to existing and new structures in accordance with CPD 708.020, including tapping of pipes into existing structures with the use of rubberized connectors (boots) and altering benching, if required.

When terminating unconnected services, they shall be identified with a 2"x4" (38mm x 89mm) wood stakes placed from the service invert to 150mm below grade and painted red for the top 300mm of the stake. Plugged or capped service connections shall be marked on the top surface of the last 3m of the upstream end of the pipe with yellow PVC adhesive tape (50mm wide) labeled continuously in black lettering (40mm wide).

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to: CP510.07 Remove/Dispose of Existing Storm Sewer

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to CP510.08 Remove/Dispose of Existing Storm Structures

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to CP510.09 Remove/Dispose of Existing Sanitary Sewer

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.

Added to CP510.10 Remove/Dispose of Existing Sanitary Structures

Where dewatering is required, if discharge flow cannot be reasonably directed into the nearest body of water due to the distance from site to disposal site, the City may be acceptable to disposal of dewatered flow into City owned storm/sanitary sewers. Sampling and testing of the discharge flow shall be conducted by and at the expense of the Contractor, to the approval of the City for disposal into the City's storm/sanitary sewers, with storm sewer being the preferred option.

The Contractor shall maintain the flow; where required, of all sewers, drains and/or inlet connections encountered during the progress of the work and if necessary, provide by-pass pumping.