

CW 1120 - EXISTING SERVICES, UTILITIES AND STRUCTURES

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1. DESCRIPTION

1.1 General

- .1 This specification covers requirements and activities for notifying, locating and working around existing services, utilities and structures within and adjacent to the Site, operation and shutdown of the existing waterworks system and provision of temporary water supply during construction of the Works.

1.2 Standard Construction Specification References

- .1 CW 2110 - Watermains
- .2 CW 2140 – Sewer and Manhole Cleaning

1.3 Standard Detail Drawing References

- .1 SD-019 – Backflow Protection Arrangement for Water Supply From Hydrant

3. CONSTRUCTION METHODS

3.1 Notify Utilities and Other Authorities

- .1 Make timely application to authorities for required permits before starting work on a public right-of-way.
- .2 Obtain utility clearances for underground plant in the vicinity of the Work before starting construction.
- .3 Arrange with utilities to provide Safety Watch where required during construction.
- .4 Provide required notice to railroad companies affected before starting work within a railway right-of-way.
- .5 Provide not less than 48 hours notice to the Contract Administrator concerning:
 - .1 Watermains temporarily placed out of service and duration.
 - .2 Streets temporarily closed and duration.
 - .3 Restoring watermains back into service.
 - .4 Re-opening temporarily closed streets.
- .6 Notify the City of Winnipeg, Public Works Department, Customer Services Division at 986-5640 of street or lane closures and re-openings on Regional Streets except for construction contracts with the City of Winnipeg where the Contract Administrator will notify Customer Services.

3.2 Colour Coding for Temporary Markers for Underground Utilities

- .1 The City of Winnipeg has adopted the colour coding system shown in Table CW 1120.1 for marking utility locations in public right-of-ways.

TABLE CW 1120.1 - Colours for Temporary Markers for Underground Utilities

UTILITY OR SYSTEM TYPE	COLOUR
Electric Power Lines, Signal Lines, Cables, Conduit and Lighting Cables	Red
Gas, Oil, Steam, Petroleum or Gaseous Materials	Yellow
Communication, Alarm Lines, Cables or Conduit	Orange
Potable water, Water Irrigation and Slurry Lines	Blue
Sewer and Drain Lines and Tree Planting Spots	Green
Temporary Survey and Street Condition Rating	White
Proposed Construction Survey and Survey Infrastructure Identification	Purple

3.3 Location of Existing Services, Utilities and Structures

- .1 Accept the information shown on the Drawings for existing services, utilities and structures at own risk. City assumes no responsibility for accuracy or completeness of information provided.
- .2 Verify location of existing services, utilities and structures within the Site.
- .3 Locate existing building sewer and water services, utility manhole drains and curb inlet and catch basin leads within the Site.

3.4 Conflict With Existing Services, Utilities and Structures

- .1 The Contract Administrator will make arrangements with the owner and the City will pay the costs for relocation and replacement of existing services, utilities and structures in conflict with the Work and where indicated in the Specifications or shown on the Drawings "to be relocated by others".
- .2 Expose, support, protect, relocate or remove and replace as required by and in a manner acceptable to the owner, existing services, utilities and structures that are indicated in the Specifications or shown on the Drawings as being adjacent to the Work.
- .3 Make arrangements with the owner for relocation, removal and replacement or support of existing poles that are within 2 metres of the Work.
- .4 Make arrangements with owner for relocation of existing services, utilities and structures for own convenience.
- .5 Make arrangements with owner to repair existing services, utilities and structures adjacent to the Work that are damaged due to carelessness during construction.
- .6 Notify the Contract Administrator of existing services, utilities, structures and obstructions that are not shown on the Drawings or are in different locations than shown on the Drawings and are in conflict with the Work.
- .7 The Contract Administrator will determine if the alignment or grade of the Work can be altered or if the existing service, utility, structure or obstruction has to be relocated or removed and

replaced. The City will pay costs for authorized changes in work in accordance with Clause GC:7 of the General Conditions.

- .8 Remove abandoned and relocate or remove and replace existing building sewer and water services, utility manhole drains, hydrant drains, catch pit and catch basin leads that occur in excavations for and adjacent to the Work

3.5 Operating Valves and Hydrants on Watermains and Feeder mains

- .1 Valves and hydrants on existing watermains and feeder mains and on new watermains and feeder mains connected to the existing system are to be operated by personnel from the Water Services Division of the Water and Waste Department only.
- .2 Arrange with Water Services Division for an appointment for valve operation on existing watermains and feeder mains at least one day prior to the required valve operation.

3.6 Shutdown or Interruption of Existing Watermains

- .1 Notify premises affected of planned watermain shutdowns or interruptions. Provide notice and temporary water supply in accordance with Table CW 1120.2.
- .2 Notify premises affected by an unplanned watermain shutdown or interruption within 1 hour after shutdown and give estimated duration of shutdown. Provide temporary water supply in accordance with Table CW 1120.2.

TABLE CW 1120.2 - Planned and Unplanned Watermain Shutdown or Interruption Procedures

Length of Shutdown or Interruption	Advance Notice to Premises	Temporary Water Supply
Less than 1 hour	1 Hour	Not required
From 1 hour to 6 hours	Prior Day	Not required
From 6 Hours to 12 hours	Prior Day	Water tank
Greater Than 12 hours	Prior Day	Pressurized water supply line

- .3 Plan watermain shutdown or interruption affecting a school to take place outside of normal school hours. Contact school affected to determine normal operating hours.
- .4 Provide adequately sized temporary pressurized water supply for industrial, commercial and institutional customers affected by a planned watermain shutdown or interruption where water is a requirement for business to operate regardless of requirements in Table CW 1120.2. Schedule watermain shutdown or interruption to suit hours of business operation if directed by the Contract Administrator.
- .5 Install temporary pressurized water supply in accordance with CW 2110.

3.7 Water for Construction Works

- .1 Water for construction contracts or work may be taken from the City’s water system provided a permit is obtained for hydrant use. A separate permit will be required for each hydrant used.
- .2 Obtain permits for hydrant use from the Permits Branch of Customer Services Division of the

Public Works Department, at 1155 Pacific Avenue. Ensure Tender Number is noted on each permit for City contract work. Permit is only valid for use for the construction contract or work it was taken out for.

- .3 Water Services Division of Water and Waste Department will provide and install metering equipment and identification “donut” on hydrants once permits have been obtained.
- .4 Provide approved backflow device with current test tag attached and an enclosure in accordance with SD-019 before using water from a hydrant.

3.8 Inspection of Existing Catch Basins and Manholes

- .1 Inspect existing catch basins, curb inlets and manholes within and adjacent to the Site with the Contract Administrator to record the amount of debris inside before the start of construction and re-inspect after completion of construction and site cleanup.
- .2 Clean catch basins, curb inlets and manholes as directed by the Contract Administrator in accordance with CW 2140 after completion of work.
- .3 City will pay the portion of costs required for cleaning the amount of existing debris recorded before the start of construction as determined by the Contract Administrator.

4. MEASUREMENT AND PAYMENT

4.1 Existing Services, Utilities and Structures

- .1 Work associated with this specification will not be measured for payment and will be included with Underground and Surface Works unless indicated otherwise in the Specifications.
- .2 Repair of existing services, utilities and structures within and adjacent to the Site that are damaged due to carelessness during construction will be at own expense.
- .3 Cost of permits for hydrant use and for water used from the City’s water system will be at own expense unless indicated otherwise in the Specifications.
- .4 Cleaning debris from catch basins, curb inlets and manholes within and adjacent to the Site due to construction activities will be at own expense.