

PART E
SPECIFICATIONS

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS, STANDARD DETAILS AND DRAWINGS

- E1.1 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.1.1 *The City of Winnipeg Standard Construction Specifications* is available in Adobe Acrobat (.pdf) format on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division internet site at <http://www.winnipeg.ca/matmgt>.
- E1.1.2 Further to GC:2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.2 The following Drawings are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing</u>
D-8442	Logan Avenue from 136.5m W WPL Trinity Street to 8.6m W WPL Trinity Street
D-8442A	Logan Avenue from 8.6m W WPL Trinity Street to 8.8m E EPL Arlington Street
D-8443	Logan Avenue from 8.8m E EPL Arlington Street to 14.2m W WPL Beacon Street
D-8444	Logan Avenue from 14.2m W WPL Beacon Street to 3.2m E EPL Tecumseh Street
D-8445	Logan Avenue from 3.2m E EPL Tecumseh Street to 19.8m W WPL Nora Street
D-8446	Logan Avenue from 19.8m W WPL Nora Street to Reitta Street

GENERAL REQUIREMENTS

E2. OFFICE FACILITIES

- E2.1 The Contractor shall supply office facilities for the Contract Administrator's use meeting the following requirements:
- Conveniently located near the Site.
 - Minimum floor area of 20 square metres, with a window and a door complete with lock satisfactory to the Contract Administrator.
 - Suitable for all-weather use and capable of maintaining a temperature range between 20 and 25 degrees Celsius.
 - Equipped with fluorescent lights and 120 volt, AC wall outlets.
 - Furnished with one table with six chairs, one drafting table and one filing cabinet all satisfactory to the Contract Administrator.
- E2.2 If a mobile structure or trailer is provided as the office facility, it shall be removed upon Substantial Performance of the Work.
- E2.3 Mobile structures provided and used by the Contractor shall be stabilized in a sufficient manner to prevent the structure from being overturned by wind forces as defined by the National Building Code. The stabilization methods shall be designed by a Professional Engineer registered in the Province of Manitoba experienced in this type of design. Detailed drawings and design notes for the stabilization works bearing the Engineer's seal shall be provided to the Contract Administrator upon request.
- E2.4 Costs associated with providing office facilities for the Contract Administrator's use will be included with the installation of the watermain renewal and will not be measured for separate payment.

E3. TEMPORARY WATER SUPPLY TO BUSINESSES

- E3.1 Further to Clause 3.6 of CW 1120, water supply to Natural Bakery at 808 Logan Avenue can only be interrupted on a Saturday morning between 0800 and 1200 hours. An adequately sized temporary water supply must be provided to Natural Bakery at all times.
- E3.2 Arrange construction of the Work in such a way that fire protection services for 901, 901A and 925 are maintained continuously until such time as they are connected to the new watermain.

E4. ABANDONING EXISTING CURB STOPS

- E4.1 Abandon existing curb stops by removing the upper casing of the curb stop box or cutting-off the casing a minimum of 600 millimetres below grade. Temporarily restore disturbed sidewalks in accordance with Clause E:6.
- E4.2 Abandonment of existing curb stop boxes will be included with the installation of the watermain renewal and will not be measured for separate payment.

E5. SALVAGING 500MM GATE VALVE AT STA. 2+80.39 ON LOGAN AVENUE

E5.1 Description

- E5.1.1 This Specification shall cover salvaging the existing 500mm diameter gate valve on the existing 500mm diameter cast iron watermain at Sta. 2+80.39 on Logan Avenue.
- E5.1.2 In 2003 the concrete roof and walls of the existing valve pit were removed and the existing 500mm diameter butterfly valve was replaced with a 500mm diameter gate valve and connected to the watermain with cast iron couplings. The existing concrete floor slab was left in place and the excavation was backfilled with compacted granular material.

E5.2 Construction Methods

- E5.2.1 Excavate at the valve location, remove the valve box casings, watermain couplings and 500mm gate valve without damage. Demolish and remove the existing concrete floor as required for the new watermain renewal installation and backfill the excavation with Class 3 Backfill in accordance with CW 2030
- E5.2.2 Load and deliver the valve box casings, couplings, 500mm gate valve and other material determined to be salvageable by the Contract Administrator, to the Water Services Division Yard located at 552 Plinguet Street and unload the valves and other material at the yard as directed by City personnel.

E5.3 Measurement and Payment

- E5.3.1 Salvaging the existing 500mm gate valve shall be measured on a unit basis and paid for at the Contract Unit Price for "Salvaging Existing 500mm Gate Valve". The quantity to be paid for will be the total number of 500mm gate valves salvaged in accordance with this specification, accepted and measured by the Contract Administrator.

E6. EXISTING CHAIN LINK FENCE ON ARLINGTON STREET NORTH OF LOGAN AVENUE

- E6.1 If necessary, remove the existing chain link fence without damage, on the east side of Arlington Street north of Logan Avenue as required to install the new watermain and connect to the existing watermain.
- E6.2 Coordinate entry onto CPR Logan Avenue Shops property with owner.

E6.3 Removal and replacement of the existing chain link fence if necessary will be included with the installation of the watermain renewal and will not be measured for separate payment.

E7. SURFACE RESTORATION

E7.1 Further to section 3.26 of CW 2110, excavations within pavements and sidewalks on Logan Avenue from the east side of the CPR tracks west of Trinity Street to the limits of the Work at Reitta Street shall be left in a temporarily restored condition as follows.

E7.1.1 Pavement – minimum 100 millimetre thick asphalt patch in accordance with CW 3410.

E7.1.2 Sidewalk – minimum 50 millimetre thick asphalt patch in accordance with CW 3410.

E7.2 Maintain temporarily restored asphalt surfaces until the contractor for the pavement Works commences Work at the Site.

E7.3 Excavations within pavements and sidewalks on the west side of the CPR tracks to the west limit of the Work shall be permanently restored in accordance with CW 2110.

E8. PROTECTION OF EXISTING TREES

E8.1 The Contractor shall take the following precautionary steps to avoid damage from his construction activities to existing boulevard trees within and adjacent to the limits of construction:

- (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within 2 metres of any tree.
- (b) Mature tree trunks shall be strapped with 25 x 150 x 2400 (1" x 6" x 8') wood planks. Smaller trees shall be similarly protected using appropriately sized wood planks.
 - (i) Excavations shall be carried out in such a manner so as to minimize damage to existing root systems. Roots over 50mm in diameter which must be cut to facilitate an excavation shall be neatly pruned with a saw prior to excavation and coated with an appropriate wound dressing to prevent infection.
 - (ii) Work on site shall be carried out in such a manner so as to minimize damage to existing tree branches. Where damage to tree branches does occur, the Contractor shall neatly prune the damaged branch.
- (c) American elm trees are not to be pruned between April 1st and August 1st and Siberian elm trees between April 1st and July 1st of any year under provisions of The Dutch Elm Disease Act.

E8.2 All damages to existing trees caused by the Contractor's construction activities shall be repaired to the requirements and satisfaction of the City of Winnipeg, Parks and Recreation Department, Forestry Branch.

E8.3 No separate measurement or payment will be made for protection of trees. It shall be considered incidental to the Contract Work.