

2020-2021 OUTFALL PROGRAM – CONTRACT 1

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE
TENDER**

ISSUED: December 9, 2020
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE TENDER AND SHALL FORM A PART
OF THE CONTRACT DOCUMENTS**

Template Version: A20190115

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Tender, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART A – BID SUBMISSION

Replace: 748-2020 Bid Submission with 748-2020 Addendum 1 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

Form B(R1): Add Items U1 to U6 Inclusive (Item U – Somerset Avenue Outfall).

Page numbering on some forms may be changed as a result.

PART D – SUPPLEMENTAL CONDITIONS

Revise: D2.1 to read: This Tender includes **twenty-one (21) outfall sites** within the City of Winnipeg. **Eleven (11) of the sites are Renewals and Rehabilitation sites that include some level of repairs or replacements to the pipe or the surrounding area**; five (5) of the sites are Erosion Protection sites where the work is primarily bank improvements with minor pipe modifications; four (4) of the sites are Cleaning sites that involve primarily outfall cleaning; and one (1) site (937 Wellington Crescent Outfall), where geotechnical drilling is being carried out for future outfall contracts.

Revise: D4.1 to read: The Work to be done under the Contract shall consist of:

Renewal and Rehabilitation Sites

- (a) Campeau Street Outfall (S-MA60023323)
 - (i) Abandonment of (+/-) 25.7 m of existing 300 mm diameter concrete outfall and installation of (+/-) 5.1 m of 300 mm diameter PVC DR35, (+/-) 16.9 m of 300 mm inside diameter HDPE DR17, and (+/-) 7.0 m of 450 mm diameter CMP c/w polymer coating
 - (ii) Installation of standard drop manhole
 - (iii) Installation of in-line gate valve
 - (iv) Construction of HDPE to CMP expansion Joint
 - (v) Installation of riprap

- (vi) Site Restoration
- (b) Morrow Avenue Outfall (S-MA70011102)
 - (i) Removal and replacement of (+/-) 32.4 m of existing 600 mm diameter CMP with (+/-) 32.4 m of 750 mm diameter CMP c/w polymer coating
 - (ii) Construction of a new reinforced concrete collar
 - (iii) Installation of riprap
 - (iv) Site Restoration
- (c) Comanche Road Outfall (S-MA70125881)
 - (i) Abandonment of (+/-) 24.9 m of existing 375 mm diameter concrete outfall and installation of (+/-) 23.2 m of 450 mm diameter CMP c/w polymer coating
 - (ii) Construction of a new reinforced concrete collar
 - (iii) Installation of riprap
 - (iv) Site Restoration
- (d) 249 Egerton Road Outfall (S-MA70032285)
 - (i) Removal of (+/-) 33.7 m of existing 900 mm diameter SPCSP and installation of (+/-) 31.9 m of 1050 mm diameter CMP c/w polymer coating
 - (ii) Construction of a new reinforced concrete collar
 - (iii) Installation of two (2) 1050 mm diameter internal slip joints
 - (iv) Installation of riprap
 - (v) Site restoration
- (e) Gareau Street/Evans Street Outfall (S-MA70042084)
 - (i) Removal of (+/-) 8.9 m of existing 450 mm diameter concrete outfall and installation of (+/-) 8.9 m of 525 mm diameter CMP c/w polymer coating
 - (ii) Construction of a new reinforced concrete collar
 - (iii) Installation of one (1) 525 mm diameter external slip joint
 - (iv) Installation of riprap
 - (v) Site Restoration
- (f) Prosper Street Outfall (S-MA50002566)
 - (i) Abandonment of (+/-) 17.9 m of existing 300 mm diameter clay outfall
 - (ii) Installation of (+/-) 3.0 m of 300 mm diameter PVC DR35 and (+/-) 13.7 m of 375 mm diameter CMP c/w polymer coating
 - (iii) Installation of standard drop manhole
 - (iv) Installation of riprap
 - (v) Site Restoration
- (g) Pembina Highway Outfall (S-MA70044846)
 - (i) Removal and replacement of (+/-) 5 m of existing 900 mm diameter CMP with (+/-) 5 m of 1050 mm diameter CMP c/w polymer coating
 - (ii) Installation of (+/-) 37 m of 676 mm inside diameter spiral wound pipe liner
 - (iii) Construction of a new reinforced concrete collar
 - (iv) Installation of riverstone riprap
 - (v) Site Restoration
- (h) 605 Niakwa Road Outfall (S-MA70028445/S-MA70028444)
 - (i) Abandonment of (+/-) 47.7 m of existing 450 mm diameter CMP and installation of (+/-) 62.5 m of 450 mm diameter PVC DR35 and (+/-) 16.3 m of 450 mm diameter CMP c/w polymer coating
 - (ii) Construction of a new reinforced concrete collar
 - (iii) Removal, protection, and re-installation of existing flap gate
 - (iv) Installation of riprap

- (v) Site Restoration
- (i) Wellington Crescent Outfall (S-MA60007249)
 - (i) Geotechnical Investigation and Drilling Program
- (j) Greenway Crescent West Outfall (S-MA70008562)
 - (i) Removal of (+/-) 11.8 m of existing 525 mm diameter concrete and (+/-) 14.7 m of existing 750 mm diameter CMP and installation of (+/-) 20.5 m of 750 mm diameter CMP c/w polymer coating
 - (ii) Construction of a new reinforced concrete collar
 - (iii) Installation of riprap
 - (iv) Site Restoration
- (k) Riviera Crescent Outfall (S-MA70007648)
 - (i) Geotechnical Investigation and Drilling Program
 - (ii) Installation of two (2) 1800 mm diameter internal slip joints
 - (iii) Repair of sinkhole
 - (iv) Site Restoration
- (l) **Somerset Avenue Outfall (S-MA70007646)**
 - (i) **Repair of Sinkhole**
 - (ii) **Standard sewer cleaning and CCTV inspection of outfall**
 - (iii) **Internal Concrete Repairs**
 - (iv) **Site Restoration**

Cleaning Sites

- (m) Assiniboine Crescent/Windham Road Outfall (S-MA20005071)
 - (i) Standard sewer cleaning and CCTV inspection of outfall
 - (ii) Site Restoration
- (n) 905 Cockburn Street Outfall (S-MA60012037)
 - (i) Standard sewer cleaning and CCTV inspection of outfall
 - (ii) Site Restoration
- (o) 250 Churchill Drive Outfall (S-MA60013599)
 - (i) HDD Outfall Cleaning (Test Method)
 - (ii) Additional standard sewer cleaning (as required) and CCTV inspection of outfall
 - (iii) Site Restoration
- (p) Galt Avenue Outfall (S-MA70021229)
 - (i) Standard sewer cleaning and CCTV inspection of outfall (May use the HDD option if successful on The Cockburn Outfall at the discretion of the City and the Contract Administrator)
 - (ii) Site Restoration

Erosion Control Sites

- (q) 59 Blackmore Avenue Outfall (S-MA50013076)
 - (i) Installation of riprap
 - (ii) Site Restoration
- (r) 160 Niakwa Road Outfall (S-MA50017305)
 - (i) Installation of riprap on geomembrane on geotextile
 - (ii) Site Restoration
- (s) 153 Egerton Road Outfall (S-MA50015484)
 - (i) Removal of (+/-) 2.0 m of existing 1060 mm diameter CMP
 - (ii) Installation of riprap

- (iii) Site Restoration
- (t) Cusson Street Outfall (S-MA70007410)
 - (i) Installation of riprap on geomembrane on geotextile
 - (ii) Site Restoration
- (u) Maisonneuve Street/Dumoulin Street Outfall (S-MA50011156)
 - (i) Installation of riprap
 - (ii) Site Restoration

PART E – SPECIFICATIONS

Revise: E1.4 to read: The following are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
1-0303O-D0006-001	COVER SHEET
1-0303O-D0007-001	INDEX PAGE
1-0303O-C0018-001	CAMPEAU STREET OUTFALL – PLAN AND PROFILE – S-MA60023323
1-0303O-C0019-001	MORROW AVENUE OUTFALL – PLAN AND PROFILE – S-MA70011102
1-0303O-C0020-001	COMANCHE ROAD OUTFALL – PLAN AND PROFILE – S-MA70125881
1-0303O-C0021-001	249 EGERTON ROAD OUTFALL – PLAN AND PROFILE – S-MA70032285
1-0303O-C0022-001	GAREAU STREET/EVANS STREET OUTFALL – PLAN AND PROFILE – S-MA70042084
1-0303O-C0023-001	PROSPER STREET OUTFALL – PLAN AND PROFILE – S-MA50002566
1-0303O-C0024-001	PEMBINA HIGHWAY OUTFALL – PLAN AND PROFILE – S-MA70044846
1-0303O-C0025-001	605 NIAKWA ROAD OUTFALL – PLAN AND PROFILE – S-MA70028445/S-MA70028444
1-0303O-C0026-001	WELLINGTON CRESCENT OUTFALL – PLAN AND PROFILE – S-MA60007249
1-0303O-C0027-001	GREENWAY CRESCENT WEST OUTFALL – PLAN AND PROFILE – S-MA70008562
1-0303O-C0028-001	RIVIERA CRESCENT OUTFALL – PLAN AND PROFILE – S-MA70007648
1-0303O-C0029-001	ASSINIBOINE CRESCENT/WINDHAM ROAD OUTFALL – PLAN AND PROFILE – S-MA20005071
1-0303O-C0030-001	905 COCKBURN STREET OUTFALL – PLAN AND PROFILE – S-MA60012037
1-0303O-C0031-001	250 CHURCHILL DRIVE OUTFALL – PLAN AND PROFILE – S-MA60013599
1-0303O-C0032-001	GALT AVENUE/DUNCAN STREET OUTFALL – PLAN AND PROFILE – S-MA70021229
1-0303O-C0033-001	59 BLACKMORE AVENUE OUTFALL – PLAN AND PROFILE – S-MA50013076
1-0303O-C0034-001	160 NIAKWA ROAD OUTFALL – PLAN AND PROFILE – S-MA50017305
1-0303O-C0035-001	153 EGERTON ROAD OUTFALL – PLAN AND PROFILE – S-MA50015464
1-0303O-C0036-001	555 CUSSON STREET OUTFALL – PLAN AND PROFILE – S-MA70007410
1-0303O-C0037-001	MAISONNEUVE STREET/DUMOULIN STREET OUTFALL – PLAN AND PROFILE - S-MA50011156
1-0303O-C0038-001	MISCELLANEOUS DETAILS – SHEET 1
1-0303O-C0038-002	MISCELLANEOUS DETAILS – SHEET2
1-0303O-C0039-001	SOMERSET AVENUE OUTFALL – PLAN AND PROFILE – S-MA70007646

Add: E42 INTERNAL CONCRETE REPAIRS

E42.1 Description

Internal concrete repairs shall include the internal repairs to sewers by person entry techniques. The repairs shall include the repair of the Somerset Outfall pipe invert and joint repair. Concrete Works shall be carried out at the locations noted on the Drawing and as directed by the Contract Administrator. The Contractor will review the repairs and method of repairs with the Contract Administrator prior to starting the Work.

E42.2 Materials & Equipment

E42.2.1 Equipment

All equipment, implements, tools and facilities used shall be of a size and type as required to complete the Work in a reasonable time as approved by the Contract Administrator. The Contractor shall keep all equipment in good working order, and have sufficient standby equipment available at all times, as required.

- E42.2.2 Concrete
- Concrete for large repairs to concrete sewers and manholes shall conform to CW 2160 Type A.
- Patching of smaller repairs to concrete sewers (25mm – 75mm thickness) shall be with a sulphate resistant, non-shrink, cementitious mortar, Sikatop 123 Plus or approved equal in accordance with B7.
- E42.2.3 Bonding Agents
- Bonding agent shall be Duraweld-C or an approved equal in accordance with B7.
- E42.2.4 Water Stop
- Water stop shall be Hydrotite or an approved equal in accordance with B7.
- E42.2.5 Other Requirements
- (a) Water shall be potable water, which shall be imported to the Site.
- (b) All materials shall be delivered to the Site in undamaged, unopened containers bearing the supplier's original labels.
- (c) WHMIS labels on all containers shall conform with Canadian regulations, including English and French risk phrases, proper chemical name, shipping class, packing group and UN number.
- (d) MSDS for all materials shall be used which are manufactured from or contain toluene diisocyanate (TDI), toluene, acetone or methyl ethyl ketone.
- (e) No materials shall be used which are flammable or which display shipping Class 3 red warning labels.
- (f) The Contractor shall keep all materials from freezing as per the Manufacturer's specifications.
- E42.3 Construction Methods
- E42.3.1 Hazard Assessment and Safe Work Plan
- (a) Before concrete repairs take place within the sewer, the Contractor shall assess the hazards and prepare a safe work plan in accordance with D11.
- E42.3.2 Equipment Set Up
- (a) In accordance with the safe work plan for the repair, the Contractor shall set up the required safety equipment and controls to safely perform the Work.
- (b) Specialized equipment to perform the repair Work, such as lights, pressure washers, drills and chipping hammers shall in no way adversely affect the operation of the safety equipment required to perform the Work.
- (c) Subsequent to completion of the repairs the Contractor shall remove all equipment from the sewers and/or manholes.
- E42.3.3 Sewer Repairs
- (a) General
- (i) Prior to carrying out any concrete Works, the Contractor shall clean the sewer to remove all sediment and debris as required by the Contract Administrator. The cleaned

surface is to be suitable to inspect the pipe for damage and for layout of areas to be repaired. The Contractor will review the repair requirements with the Contract Administrator to determine the type and limit of the repair sections.

(b) Invert Repair

The existing outfall invert is deteriorated along the 2 meter length cast-in-place bend segment of the outfall. A saw cut is to be made on both sides of the broken concrete as directed by the Contractor Administrator. Bonding agents shall be applied to the saw cut edges of the invert repairs. The existing broken and cut concrete is to be removed. The pipe invert including steel shall be installed as shown on the Drawing. Any small voids encountered below the pipe shall be completely filled with concrete as part of the repair.

(c) Joint Repair

One 75-100mm wide joint gap exists within the Somerset Avenue Outfall and requires repair at the location as identified on the Drawing. Clean out dirt and debris in the gap seen between pipe segments using a wire brush. The Contractor shall not use pressurized water so as to prevent soil erosion around the pipe. Apply bonding agent around perimeter of pipe gap as per Manufacturer's product instructions and recommendations. Install sulphate resistant, non-shrink, cementitious mortar in gap between pipe segments as per Manufacturer's instructions.

E42.3.4 Cleanup

No wastes from the concrete repairs are to be allowed to enter the river system.

E42.3.5 Deficiencies

If deficiencies are found in the repaired sections the Contractor shall bear all costs of correcting the deficiencies including the cost of re-inspection to confirm that the deficiencies are rectified in accordance with these specifications.

E42.4 Basis of Measurement and Payment

E42.4.1 Internal Concrete Repairs

(a) Joint repairs will be measured on an area basis and paid for at the Contract Unit Price for "Joint Repair". The area to be paid shall be the total square meters of pipe surface repaired in accordance with this Specification, accepted and measured by the Contract Administrator.

(b) Invert repairs will be measured on an area basis and paid for at the Contract Unit Price for "Invert Repair". The area to be paid shall be the total square meters of pipe invert repaired in accordance with this Specification accepted and measured by the Contract Administrator. Payment shall cover the supply of all materials, performing all operations and all other items incidental to the Work herein described and as shown on the drawings and details.

DRAWINGS

Add: 748-2020_Drawing_ 1-03030-C0039-001

APPENDICES

Add: Appendix_E Somerset Avenue Outfall Additional Photos