ADDENDUM No. 01

The Corporation of the Town of Moosonee
Bay Road & Second Street Sanitary Sewer,
Watermain and Road Reconstruction
EXP Project No.: NWL-21018732
EXP Project No.: NWL-21023124 **Issued: April 19, 2022**

Prepared By: EXP Services Inc.

Requirements:

This addendum forms part of the Contract Documents and amends the original Specifications and Drawings, as noted below.

AMENDMENTS TO FORM OF TENDER

The Form of Tender page T-5 has been deleted in its entirety and replaced by page T-5 Addendum No. 1.

AMENDMENTS TO ITEM SPECIAL PROVISIONS

The Item Special Provisions pages 1 thru 7 have been deleted in their entirety and replaced by pages 1 thru 7, Addendum No. 1.

Attachments:

Form of Tender, Addendum No. 1, Page T-5
Item Special Provisions Addendum No. 1, Pages 1 thru 7

SCHEDULE OF ITEMS AND PRICES
Part 'B'

Item No.	Spec. No.	Item	Unit	Tender Quantity	Unit Price	Amount
		Contract Requirements				
1	206 SP	Earth Excavation, Grading	m^3 (P)	19618		
2	314 SP	Granular 'A'	t	12482		
3	314 SP	Granular 'B', Type I	t	27695		
4	405 SP	Pipe Subdrains	m (P)	3801.8		
5	407 SP	Adjusting and Rebuilding Manholes, Catchbasins and Ditch Inlets	Each (P)	21		
6	407 SP	Breaking into Manholes, Catchbasins, Ditch Inlets and Sewers	Each (P)	23		
7	407 SP	600mm x 600mm Catchbasins	Each (P)	9		
8	407 SP	1200mm Dia Storm Manholes Catchbasin Manoles and Ditch Inlets	Each (P)	1		
9	407 SP	Storm Structure Section Removal and Grate Installation/Salvage and Reinstall CB	Each (P)	14		
10	410 SP	300mm Dia. Pipe Storm Sewer	m (P)	189.5		
11	410 SP	300mm CSP Dia. Culvert	m	1110.3		
12	510 SP	Removal of Manholes, Catchbasis, Ditch Inlets and Valve Chambers	Each (P)	14		
13	706 SP	Traffic Control Signing	Lump Sum	100%		
14	802 SP	Topsoil, Imported	m^2	2853		
15	803	Seed and Mulch	m^2	2853		
16	805 SP	Straw Bale Flow Checks	Each (P)	4		
17	1860 SP	Geotextile and Geogrid	m^2	17029		
18	805 SP	Light Duty Silt Fence	m	30		

SUBTOTAL PART 'B'……..$_____

Table of Contents
Part 'B'

ITEM 1 EARTH EXCAVATION, GRADING

OPSS.MUNI 206, April 2019 – Construction Specification for Grading

Subsection 206.07.03.05 of OPSS.MUNI 206, is amended by the addition of the following:

Excavated material shall be stockpiled at a location specified by the owner.

ITEM 2 GRANULAR 'A'
ITEM 3 GRANULAR 'B', TYPE I

OPSS.MUNI 1010, November 2013 – Aggregates – Base Subbase, Select Subgrade, and Backfill Material, is amended by the following:

1010.05 MATERIALS

1010.05.01 General

Subsection 1010.05.01 of OPSS.MUNI 1010 is amended by the addition of the following:

The use of air-cooled blast furnace slag, nickel slag or steel slag is prohibited.

1010.05.03 Granular B

Subsection 1010.05.03 of OPSS.MUNI 1010 is amended by deleting the first sentence and by addition the following:

Granular B shall be Type I, unless otherwise specified in the Contract Documents.

1010.08 QUALITY ASSURANCE

1010.08.01 General

Subsection 1010.08.01 of OPSS.MUNI 1010, is amended by the addition of the following:

QA testing shall be carried out by the Owner for purposes of ensuring that materials used in the work conform to the physical and production requirements of this special provision. Where materials contain blended or reclaimed aggregates or both, QA samples for testing shall be performed on the final product.

1010.08.03 Sampling

Subsection 1010.08.03 of OPSS.MUNI 1010, is amended by the addition of the following:

QA sampling and testing shall be based on lots established for each aggregate type: Granular A,O,B,M, and SSM. Where more than one aggregate source is used, separate lots shall also be established for each source. Where aggregates are produced with blended or reclaimed materials or both, QA testing shall be performed on the final product.

Notwithstanding the requirements for QA sampling as indicated in this specification, the Owner reserves the right to obtain a QA sample at any time without notice.

Either QA test results or referee test results, where applicable will be used for the acceptance of physical and production property requirements of this specification. QA testing for physical properties may be waived by the Engineer where the delivered quantity of Granular A, O, B, M, or SSM is less than 5,000 tonnes.

Aggregates may be rejected based on the visual identification of unacceptable materials.

QA samples shall be taken in accordance with LS-625 and shall be road samples or delivery samples obtained from the Work at a location determined by the Contract Administrator. Where required, the Contractor shall provide a front-end loader to obtain material for QA samples.

Where it is not possible to take road or delivery samples, samples of compacted material taken with the permission of the Owner will be used for QA purposes.

In the event that the Contractor is unavailable to take a sample, no further materials shall be placed in the Work until the required QA samples have been taken.

The Contractor shall provide new or clean sample bags or containers that are constructed to prevent the loss of any part of the material or contamination or damage to the contents during shipment. Metal or cardboard containers are unacceptable. QA samples shall be identified both inside and outside of the sample container. Data to be included with QA samples shall conform to the requirements of MTO Form PH-D-10 (Sample Data Sheet).

All QA samples shall have a duplicate sample taken at the same time and location as the QA sample. One of the samples shall be randomly selected for testing by the QA laboratory and the remaining sample shall be retained by the QA laboratory for possible referee testing.

1010.08.05 Acceptance

Subsection 1010.08.05 of OPSS.MUNI 1010, is amended by the addition of the following:

The QA laboratory shall carry out testing for each physical property requirement given in Table 1, as applicable for each QA sample.

QA for production properties shall consist of sampling and testing of lots selected from material delivered to the Work. The Engineer shall identify each lot according to the following schedule:

i. One lot consisting of the first 5,000 tonnes of material delivered to the Work;
ii. 5,000 tonne lots selected from within the next 15,000 tonnes of delivered material; and
iii. 10,000 tonne lots thereafter.

Each lot shall be divided into four equal sublots and one QA sample shall be obtained from each sublot. Sublots from different sources or processes shall not be combined within the same lot.

Where changes in source, production or delivery may result in an incomplete lot, the Engineer shall be given prior notification in order to adjust sublot size. If no notification is given, payment adjustments or

rejection shall be based on the number of sublots available for that lot. All lots shall be deemed to be complete at the end of each calendar year.

In the event of an incomplete lot and for sources supplying quantities less than 5,000 tonnes, the lot size will apply to the total quantity of material available. Should the size of the lot exceed the indicated quantities for any reason, any adjusted payment or removal shall apply to the entire quantity of the lot.

Where it is necessary to designate the quantity of material in a lot, or part of a lot for the purposes of rejection, the Contract Administrator's estimate of this quantity shall be used.

1010.08.05.01 Testing of Production Properties

The QA laboratory shall conduct sieve analysis (LS-602) and determine test results for each sieve designated in Table 2. The QA laboratory shall also carry out testing for percent crushed particles (LS-607), particles with two or more crushed faces (LS-617), and amount of asphalt coated particles (LS-621) as applicable.

1010.08.05.02 Acceptance of Production Properties

Test results from each sublot within a lot shall be combined to determine the mean and the range of the Lot for each test. All lot means and ranges for LS-602 and LS-607 (as applicable) will be computed to one decimal place.

A lot will be deemed to meet the applicable requirements of this specification for LS-602 and LS-607 if the mean of the lot is within the limits specified in Table 2. Where the lot does not meet the requirements of this specification, the material is rejectable.

A lot will be deemed to meet the applicable requirements of this specification for LS-617 or LS-621 if the mean value of the lot is within the limits specified in Table 2. Where the lot does not meet these requirements, the Contractor shall ensure all necessary changes required to rectify the deficiency are made. No further materials from the source will be accepted until new QC test results demonstrate that materials conform to the requirements of Table 2 for LS-617 or LS-621 have been provided to the Engineer.

The forms contained in Appendices 1010-D and 1010-E are to be used for the recording and reporting of aggregate test results.

Table 1 of OPSS.MUNI 1010, is deleted and replaced with the following Table 1.

Table 1. Physical Property Requirements

Laboratory Test	MTO Test Number	Granular O	Granular A	Granular B Type I, Type III	Granular B Type II	Granular M	Select Subgrade Material
Freeze-Thaw Loss, % Maximum	LS-614	15	-	-	-	-	-
Determination of Permeability	LS-709	(Note 1)					
Micro-Deval Abrasion Coarse Aggregate loss, % maximum	LS-618	21	25	30 (Note 2)	30	25	30 (Note 2)
Micro-Deval Abrasion Fine Aggregate loss, % maximum	LS-619	25	30	35	35	30	-
Amount of Contamination	LS-630	(Note 3)					
Plastic Fines	LS-631	NP					

Note 1: For materials north of the French/Mattawa Rivers only, the coefficient of permeability, *k* shall be greater than 1.0 x 10^{-4} cm/s or alternatively, when past field experience has demonstrated satisfactory performance. Prior data demonstrating compliance with this requirement for *k* shall be acceptable provided that such
testing has been done within 5 years of the material being used and field performance has continually been shown to be satisfactory.

Note 2: The coarse aggregate micro-Deval abrasion loss test requirement will be waived if the material has more than 80% passing the 4.75 mm sieve.

Note 3: Granular A,B Type I, B Type III, or M may contain up to 15 percent by mass crushed glass and/or ceramic material. Granular A, O, B Type I, B Type III, and M shall not contain more than 1.0 percent by mass of wood, clay brick and /or gypsum and /or gypsum wall board or plaster. Granular B Type II and SSM shall not contain more than 0.1 percent by mass of wood.

Table 2 of OPSS.MUNI 1010, is deleted and replace with the following Table 2.

Table 2. Production Requirements

Lab Test	MTO Test Number	Granular						SSM
		O	A	B (Note 1)			M	
Sieve Analysis, % passing	LS-602 (sieve)			Type I (Note 2)	Type II	Type III (Note 2)		
	150 mm	-	-	100	-	100	-	100
	106 mm	-	-	-	100	-	-	-
	37.5 mm	100	-	-	-	-	-	-
	26.5 mm	95.0-100	100	50.0-100	50.0-100	50.0-100	-	50.0-100
	19.0 mm	80.0-95.0	85.0-100 (87.0-100) Note 3	-	-		100	-
	13.2 mm	60.0-80.0	65.0-90.0 (75.0-95.0) Note 3	-	-		75.0-95.0	-
	9.5 mm	50.0-70.0	50.0-73.0 (60.0-83.0) Note 3	-	-	32.0-100	55.0-80.0	-
	4.75 mm	20.0-45.0	35.0-55.0 (40.0-60.0) Note 3	20.0-100	20.0-55.0	20.0-90.0	35.0-55.0	20.0-100
	1.18 mm	0 –15.0	15.0-40.0	10.0-100	10.0-40.0	10.0-60.0	15.0-40.0	10.0-100
	300 µm	-	5.0-22.0	2.0-65.0	5.0-22.0	2.0-35.0	5.0-22.0	5.0-95.0
	150 µm	-	-		-		-	2.0-65.0
	75 µm	0 -5.0	2.0-8.0 (2.0-10.0) Note 4	0-8.0 (0-10.0 Note 4)	0-10.0	0-8.0 (0-10.0) Note 4	2.0-8.0 (2.0-10.0) Note 4	0-25.0
Percent Crushed, minimum	LS-607	100	60	-	100	-	60	-
2 or more crushed faces, minimum, %	LS-617	85	-	-	-	-	-	-
% Asphalt Coated Particles, Coarse Agg, max.	LS-621	0	30	30	0	30	30	0

Note 1: Where Granular B is used for granular backfill for pipe subdrains, 100 percent of the material shall pass the 37.5 mm sieve.

Note 2: Where RAP is blended with Granular B Type I or Type III, 100 percent of the RAP shall pass the 75mm sieve. Conditions in Note 1 supersede this requirement.

Note 3: Where the aggregate is obtained from an iron blast furnace slag source.

Note 4: Where the aggregate is obtained from a quarry or blast furnace slag or nickel slag source.

OPSS.MUNI 314, November 2019 – Untreated Granular Subbase, Base, Surface, Shoulder and Stockpiling, is amended by the following:

314.03 DEFINITIONS

Subsection 314.03 of OPSS.MUNI 314, is amended by the addition of the following:

Tolerance – Minus: a construction working tolerance only which:

a) Means narrower than the contract standard pertaining to horizontal dimensions as measured from centerline; and
b) Means lower in elevation than the contract standard pertaining to vertical dimensions.

Tolerance – Plus: a construction working tolerance only which:

a) Means wider than the contract standard pertaining to horizontal dimensions as measured from centerline; and
b) Means higher in elevation than the contract standard pertaining to vertical dimensions.

314.07 CONSTRUCTION

314.07.07 Stockpiling of Granular Material

Subsection 314.07.07 of OPSS.MUNI 314, is amended by the addition of the following:

The Contractor must first receive written approval from the Owner before stockpiling material at site(s) not identified in the contract documents.