![Winnipeg logo]

Corporate Finance Department
Materials Management Division

827-2022 ADDENDUM 4

Winnipeg

BOOKING AND SCHEDULING SOLUTION FOR PARATRANSIT AND ON-REQUEST TRANSIT

ISSUED: Feb 10, 2022
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URGENT

PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE BID/PROPOSAL

THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID/PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Add 2021-03-05

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

FORM N-REQUIREMENTS

Replace: 827-2022 Form N-Requirements with 827-2022_Addendum 4 - Form N(R1) - Requirements. The following is a summary of changes incorporated in the replacement Form A: Bid/Proposal:

Form N(R1):   Changes are in bold.

QUESTIONS AND ANSWERS

Q1:   In regards to integration testing, Section B13.6 states that:

Proposals should describe in detail the testing methodology proposed by the Proponent during the Project implementation phase, including:

(a) Integration Testing;
(b) System Acceptance Testing; and
(c) Operability Performance Testing,

I was hoping the City could provide further clarity on each item. For example, for Integration Testing, we run automated integration tests on all changes to the codebase but it is not something we specifically do during the project implementation phase. In addition, we were hoping the City could provide more clarity on whether "System Acceptance Testing" is the same as "User Acceptance Testing", a.k.a. testing different features and making sure it actually fits customer needs. Our team is not familiar with stage Operability Performance Testing so would be great to get more information on what this entails.

A1:   For Integration Testing, there may be components that will require integration beyond your standard codebase. For example, integration to the City of Winnipeg's Active Directory for single sign-on, or integration with tablets or phones supplied by the City. Integration testing would refer to these components that are not part of your standard codebase.

System Acceptance Testing would be similar to User Acceptance Testing, but with an emphasis on end-to-end testing of functionality. The SAT looks at the entire system and tests are completed to ensure that the overall functional requirements are met. Each requirement listed in the specification shall be tested or – in case it may not be feasible to test certain functions in the operational environment – evidence for correct function to be provided.

Operability Performance Testing has typically been defined as a thirty day performance test that is initiated once the SAT has been completed and operation has commenced. Through the OPT, the system

is tested under full operations to ensure that the performance requirements are met and to measure the system reliability and availability. System failures will result in the restart of the OPT.

These are typical definitions The City has used in the past. The City is not looking to prescribe the exact parameters for testing, but is rather looking to evaluate proposals for testing procedures. The City expects that testing methodology should be analogous to the above.