



NEWPCC Upgrade Headworks Facilities

Design Build Proponents' Conference

NORTH END WATER POLLUTION CONTROL CENTRE
CITY OF WINNIPEG 2230 MAIN ST.

March 20, 2019

AECOM

Treaty One Acknowledgement

- Original Lands of:
 - Anishinaabeg
 - Cree
 - Oji-Cree
 - Dakota
 - Dene
- Traditional homeland of the Métis Nation





Safety Orientation

- Washrooms
- Emergency Exits
- Muster Point
- Site Tour

Outline

- Project Overview
- Facilities and Processes
- Procurement Process Overview
- Procurement Schedule
- RFQ Process
- Site Tour Overview
- Q&A
- Wrap-up





Project Overview

- Winnipeg
 - Capital of Manitoba
 - 663 km²
 - Near geographical centre of North America
 - 2017 population: 749,500
 - 2022 forecast population: 807,400
 - Key industries include transportation, finance, manufacturing, and agriculture



Project Overview

- Existing Facility (Liquid Train)
 - Pumping station
 - Screening and grit removal
 - Hauled waste station
 - Primary clarifiers
 - Secondary treatment with HPO reactors and clarifiers
 - UV disinfection

Project Overview

- Existing Facility (Solids Train)
 - Anaerobic digesters
 - Sludge storage tanks
 - Dewatering
 - Centrate nitrogen removal (SBR)
 - Centrate phosphorus removal (ferric chloride)





Project Overview

- Enhanced Preliminary Design completed
- Multi-phase project
 - Headworks
 - Biosolids
 - Nutrient Removal

Project Overview

- This RFQ is related to Headworks
 - New raw sewage pumping station
 - New fine screening and grit removal
 - Modifications to primary clarification
 - Standby power facility
 - New control system
 - Other non-process items
 - Decommissioning





Facilities and Processes

- New Raw Sewage Pumping Station (Headworks Facility)
 - High hydraulic capacity
 - 20 m below grade
 - Extensions to large interceptors
 - New process equipment
 - Fine Screens and Compactors
 - Grit Removal, Grit Washers and Grit Dewatering

Facilities and Processes

- Primary Clarification
 - Repairs to primary clarifier flow distribution
 - Upgrades to HVAC and electrical
 - Effluent launder covers and foul air piping
 - Scum pumping and dewatering system





Facilities and Processes

- New Standby Power Generation
 - Provide power to entire NEWPCC facility
- Migration of NEWPCC Control System
 - Plant-wide system
 - From DCS to PLC based system
 - Located in new Headworks Facility

Facilities and Processes

– Non-Process Items

- Ancillary systems
- Electrical
- Automation and control systems
- Utilities
- Site works
- Life safety systems
- Building mechanical
- Access tunnels





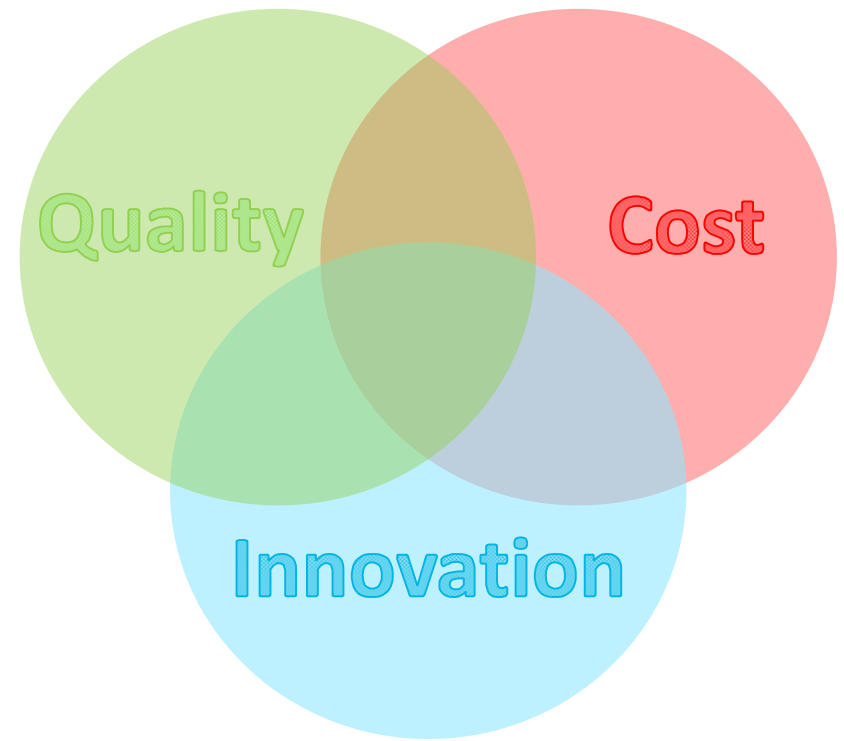
Facilities and Processes

- Decommissioning
 - Surge well
 - Raw sewage pump wells
 - Discharge chamber
 - Grit removal and aeration building
 - Salvage or disposal of equipment

Procurement Process Overview

– City Objectives

- Fair and competitive selection process
- Project on schedule with minimal disruption
- Innovative technical approach (value for public money)
- Project designed and built in efficient and quality manner



Request for
Qualifications

Request for
Proposals

Procurement Process Overview

- Two stage procurement process
 - Request for Qualifications (RFQ)
 - Maximum of 3 shortlisted firms (Prequalified Proponents)
 - Request for Proposals (RFP)
 - Issued to Prequalified Proponents
 - Select the Preferred Proponent
- P1 retained as a fairness advisor

Proposal Submission Fee and Break Payment

- RFQ:
 - None
- RFP:
 - Proposal Submission Fee (honorarium) for proposal development costs
 - Break Payment for cancellation of Procurement Process after issuance of RFP
 - Additional details will be provided in the RFP



Procurement Schedule

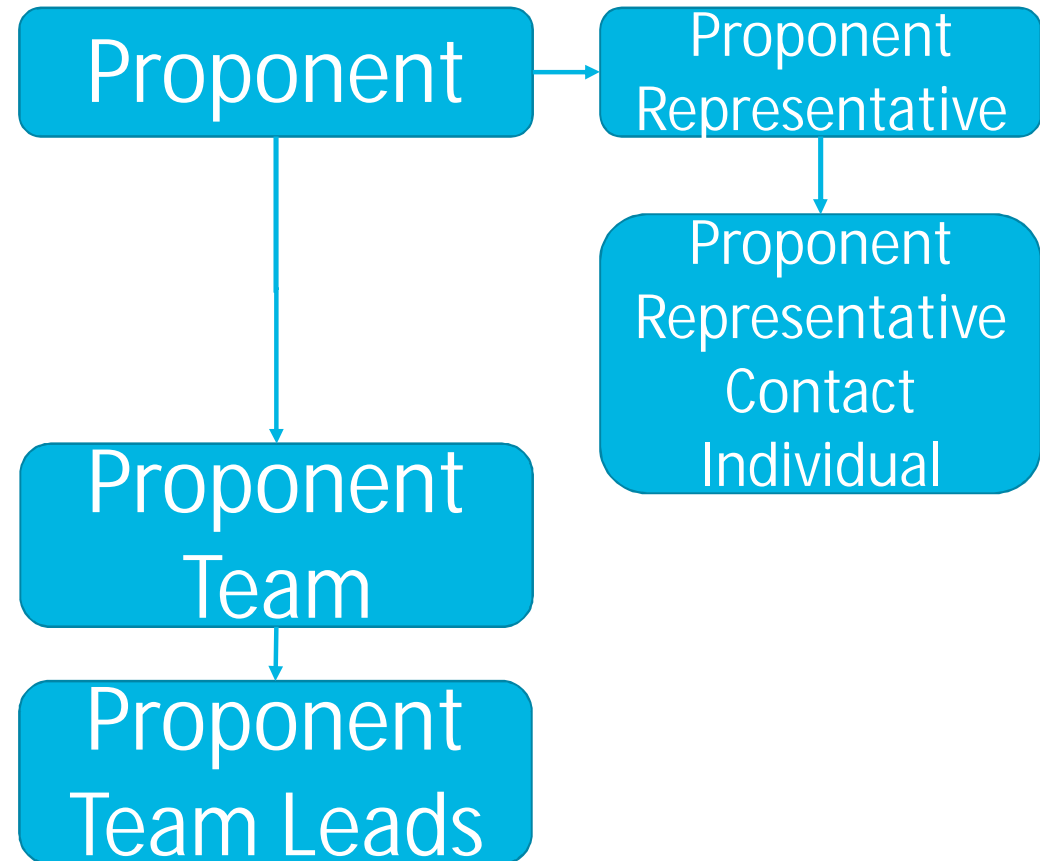
Event	Date / Time
Release of RFQ	March 6, 2019
Proponents' Conference and Site Tour	March 20, 2019
Last day to request permission to participate in more than one Qualification Submission (B19.4)	April 5, 2019
Last day for submission of: <ul style="list-style-type: none"> • Form H-6 – Financial Statement Non-Disclosure Agreement (B39.4(a)) • Information related to eligibility (B21.4) • Information related to early assessment of Conflict of Interest (B16.4) 	May 8, 2019
Last day for RFIs	May 14, 2019
Last day for City to issue addenda	May 22, 2019
Submission Deadline for Qualification Submission	June 5, 2019, 4:00 p.m.
Last day for submission of business information (B38.2)	July 25, 2019, 4:00 p.m.

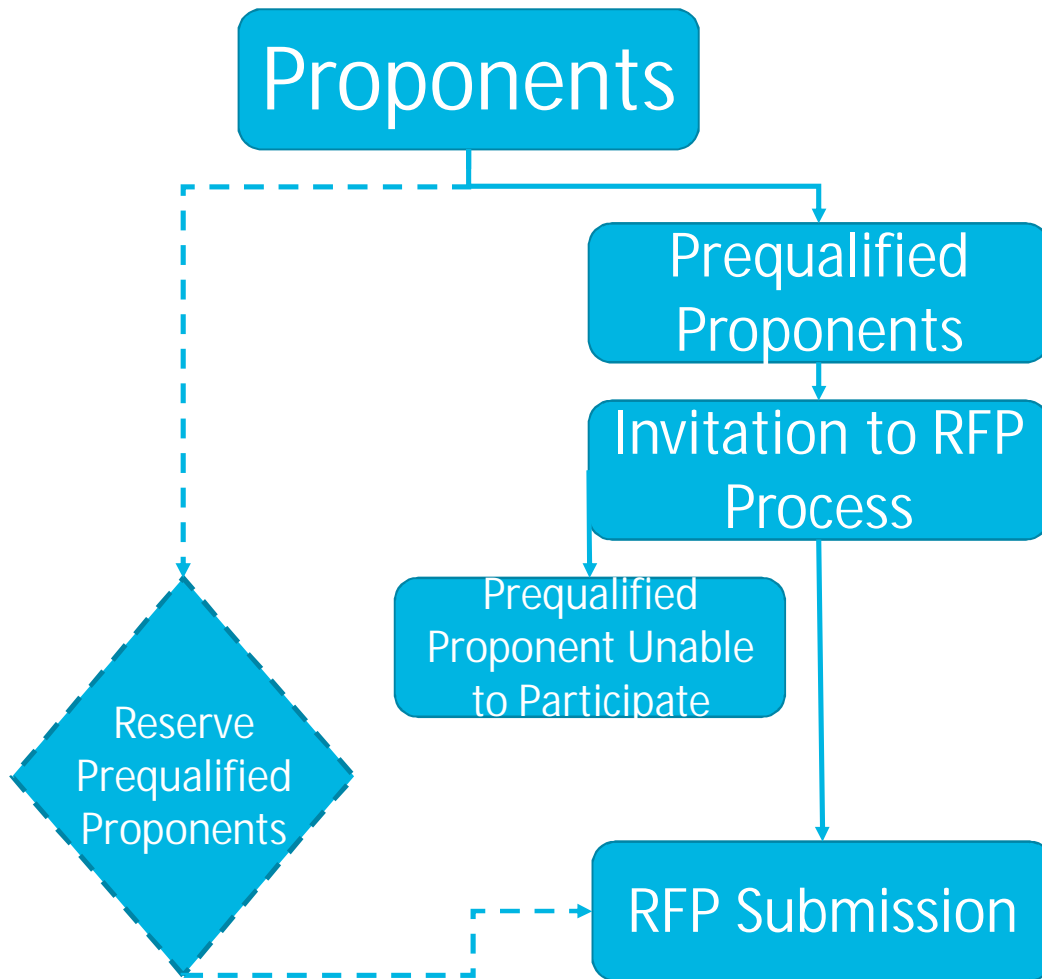
Procurement Schedule

Event	Anticipated Date
Checking references	September – October 2019
Shortlisting Prequalified Proponents	November 2019
Issue of RFP	January 2020
Commencement of Work	December 2020

RFQ Process

- Each firm that submits a Qualification Submission is referred to as a Proponent
 - Each Proponent must have a Proponent Representative
 - Sub-consultants and Sub-contractors to the Proponent are referred to as Proponent Team Members
 - Proponent Team Leads manage and are responsible for each team



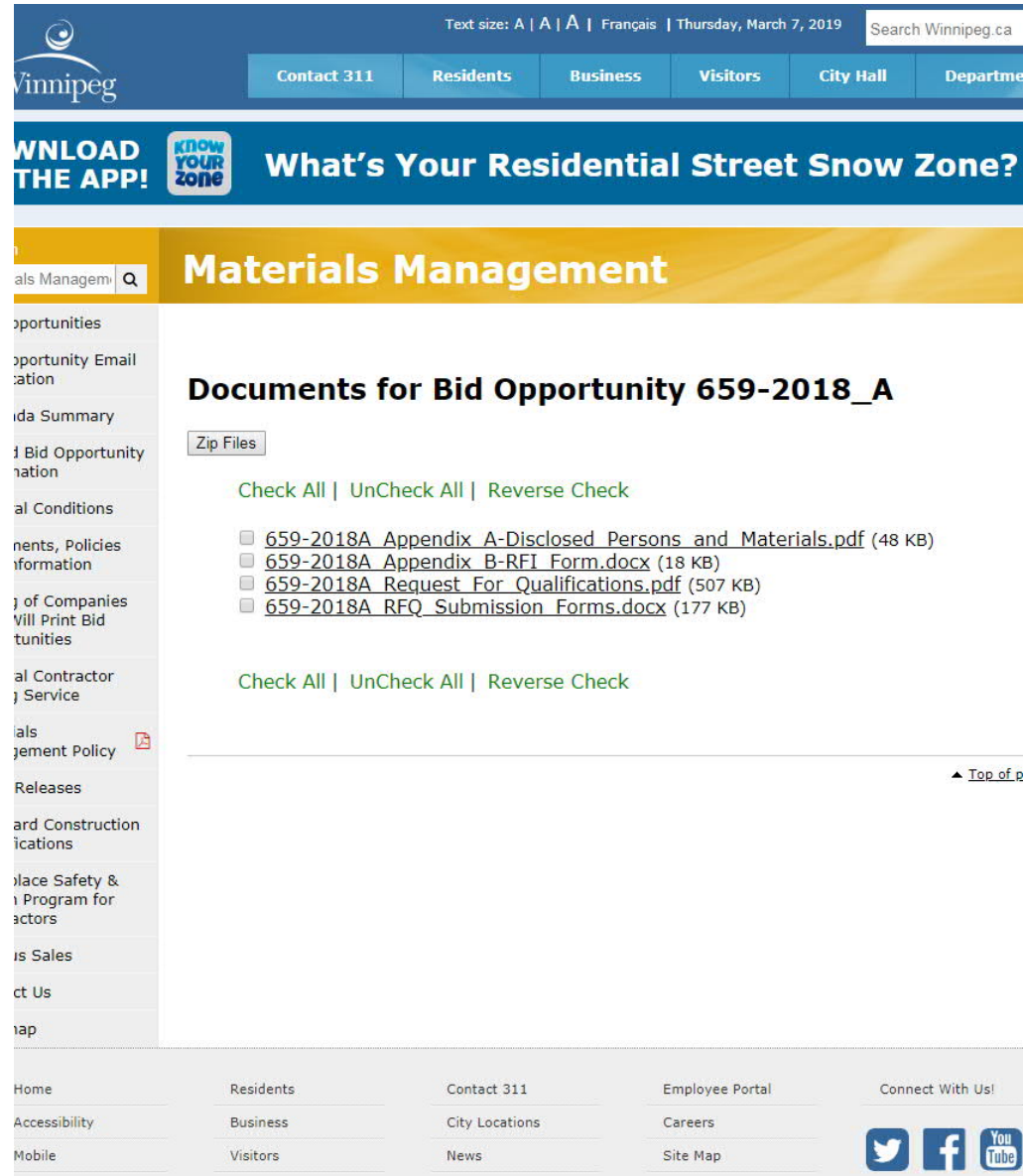


RFQ Process

- The shortlisted Proponents become the Prequalified Proponents and will be invited to participate in the RFP process
 - The other Proponents become Reserve Prequalified Proponents
 - Reserve Prequalified Proponents can replace a Prequalified Proponent in RFP process if one of the Prequalified Proponents is unable to participate

RFQ Process – RFI Procedure

- RFI Form emailed to Contact Person (Tammy DeFoort)
- One request per form
- All RFIs and responses will be posted on City Bid Opportunity Website (public)
 - Identifying information will be redacted
- Responses:
 - Do not amend the RFQ
 - Are non-binding
 - Cannot be relied on by Proponents
- The response to an RFI may trigger an Addendum



The screenshot shows the City of Winnipeg website interface. At the top, there is a navigation bar with the Winnipeg logo, text size options (A | A | A), language options (Français), the date (Thursday, March 7, 2019), and a search bar (Search Winnipeg.ca). Below this is a blue banner with the text "What's Your Residential Street Snow Zone?" and a "KNOW YOUR ZONE" logo. The main content area is titled "Materials Management" and features a sidebar with a search bar and a list of menu items including "Opportunities", "Opportunity Email", "Bid Summary", "Bid Opportunity", "Conditions", "Policies", "Information", "List of Companies", "Print Bid", "Contractor", "Service", "Management Policy", "Releases", "Construction", "Safety & Program for", "Sales", "Us", and "Map". The main content area displays "Documents for Bid Opportunity 659-2018_A" with a "Zip Files" button and two sets of "Check All | UnCheck All | Reverse Check" links. The first set is followed by a list of documents: "659-2018A Appendix A-Disclosed Persons and Materials.pdf (48 KB)", "659-2018A Appendix B-RFI Form.docx (18 KB)", "659-2018A Request For Qualifications.pdf (507 KB)", and "659-2018A RFQ Submission Forms.docx (177 KB)". The second set of "Check All | UnCheck All | Reverse Check" links is also present. At the bottom, there is a footer with links for Home, Residents, Contact 311, Employee Portal, Connect With Us!, Accessibility, Business, City Locations, Careers, Mobile, Visitors, News, and Site Map, along with social media icons for Twitter, Facebook, and YouTube.

Sun	Mon	Tue	May Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

RFQ Process

- Addenda are the only method to amend the RFQ
 - Current Addenda deadline is May 22, 2019
 - City may issue at any time prior to Submission Deadline
 - If City issues Addenda after May 22, 2019, the Submission Deadline will be extended

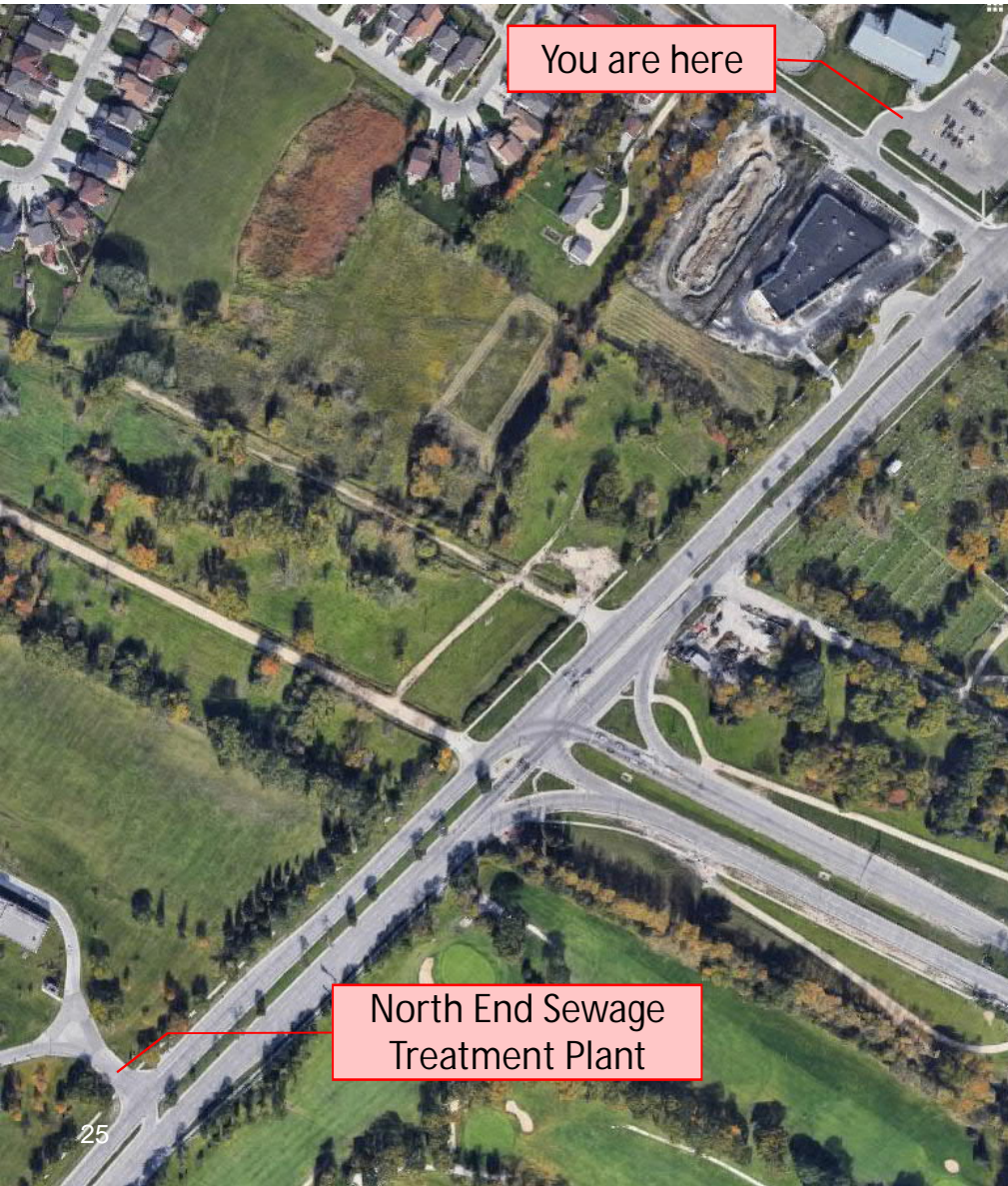
RFQ Process

- Addenda will posted on the City Bid Opportunity Website
 - Proponents advised to check site regularly
 - Proponents should acknowledge each Addendum on Form A-1 Master RFQ Submission Form

- (j) the Proponent agrees that the City is not obliged, in any way whatsoever, to carry out further clarifications, verifications or investigations of any Qualification Submission;
- (k) the Proponent understands that any omission or failure to substantially complete the Qualification Submission or failure to substantially comply with a requirement included in the RFQ may result in the Proponent being disqualified;
- (l) the Proponent understands that it must submit a substantially complete Qualification Submission in accordance with the timelines and requirements of the RFQ and a failure to do so may result in disqualification of the Proponent;
- (m) the Proponent understands that the RFQ is not an offer to enter into any contract of any kind whatsoever and is not intended to create a bidding contract (often referred to as "Contract A");
- (n) the Proponent understands that the RFQ does not constitute any offer of work by the City;
- (o) the Proponent acknowledges B16 of the RFQ and understands that the Proponent may be disqualified if the Proponent or any Proponent Team Member breaches the provisions of B16, or has been convicted of carrying out inappropriate bidding or procurement practices or engaging in unethical behaviour in relation to a procurement process in Canada;
- (p) the Proponent confirms that the Proponent and each Proponent Team Member has conducted itself with integrity and propriety and has not engaged in any inappropriate bidding practices or unethical behaviour in the course of this RFQ Process, and there are no charges or investigations by a public body or convictions related to inappropriate bidding practices or unethical behaviour by the Proponent or any Proponent Team Member in relation to a tender or procurement in any Canadian jurisdiction that:
 - (i) are related to the Project;
 - (ii) may compromise the reputation or integrity of the City so as to affect public confidence in the Project; or
 - (iii) would contravene any applicable law or could have a material adverse effect on the Proponent or any Proponent Team Member in a way which could impair the Proponent or any Proponent Team Member's ability to perform its obligations under the Design Build Agreement;
- (q) The Proponent certifies that the following addenda have been received by the Proponent and agrees that they shall be deemed to form a part of its Qualification Submission:

Addendum No. _____	Dated _____
Addendum No. _____	Dated _____
Addendum No. _____	Dated _____

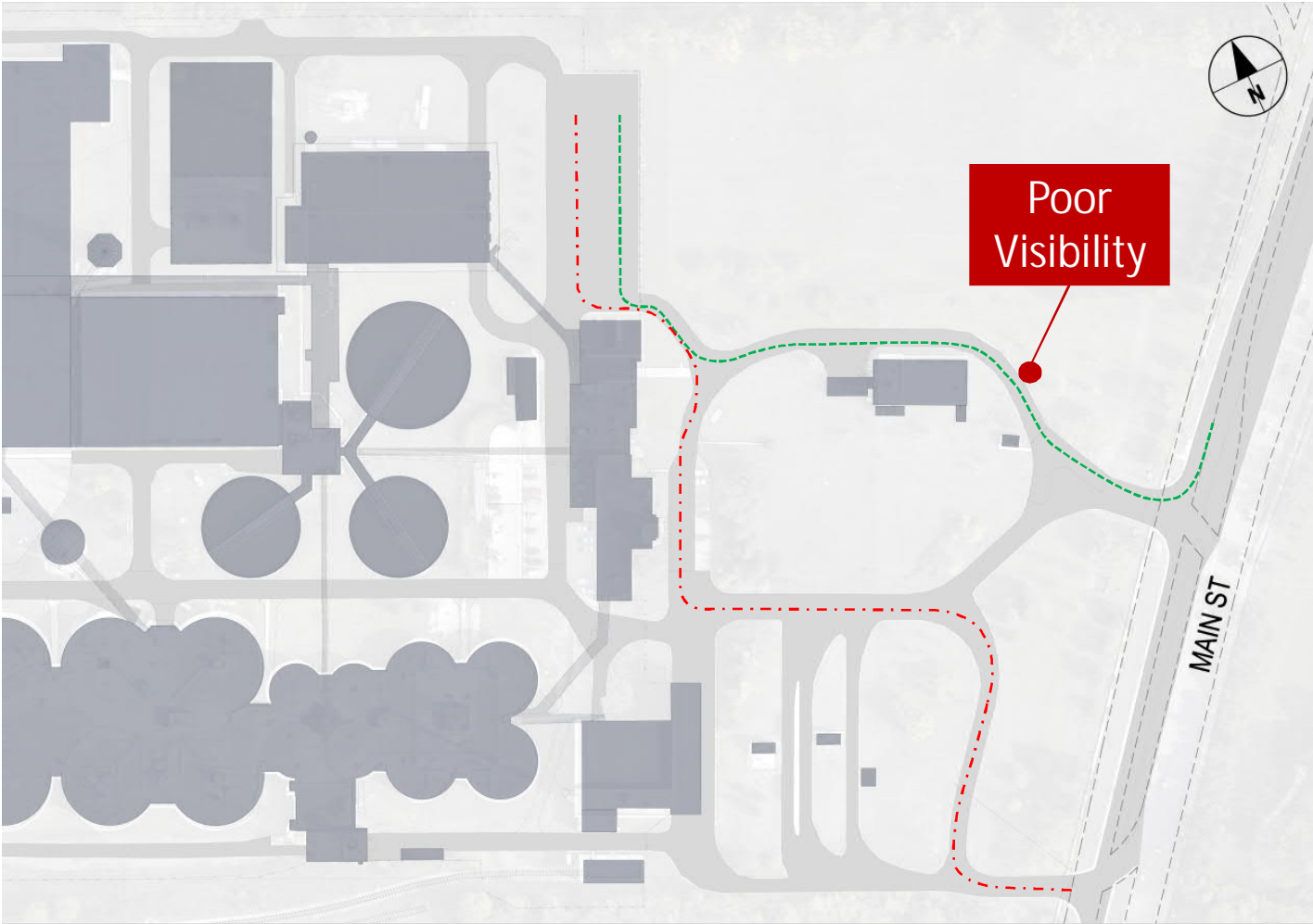
[NOTE TO PROPONENTS: Proponents to list and date all Addenda to RFQ issued by the City as part of the RFQ Process]



Site Tour Overview

- Appropriate clothing for outdoors
- PPE Requirements
 - Steel-toe boots
 - Hard hat
 - Hi-vis vest
 - Safety glasses
 - Hearing protection provided on site
- Photographs of buildings and equipment permitted
- Do not photograph plant staff

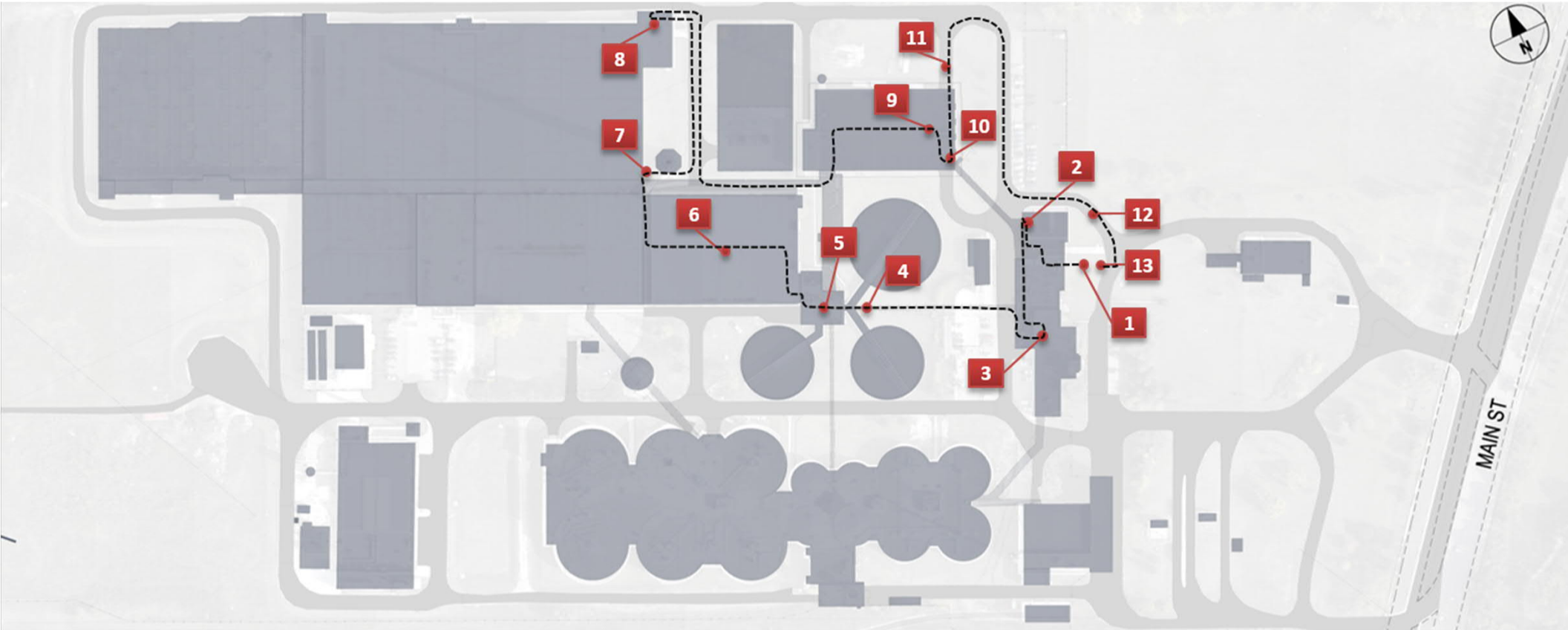
Site Tour Overview



- Path In
- Path Out



Site Tour Overview





1. Meeting Place and Starting Point

- Flagpole in front of Administration Building
- Visitors must sign-in
- Visitors must be escorted throughout the plant

2. Control and Server Rooms

- Located in Administration Building
- New Control and Server rooms required in Headworks Facility
- Decommission existing Control and Server rooms





3. Raw Sewage Pump Wells

- Located in Main Building
- New Raw Sewage Pump Station required in Headworks Facility
- Decommission existing pump wells and associated electrical and controls

4. Primary Clarifiers 2 and 3

- Install covers on effluent launders of Primary Clarifiers 1, 2 and 3
- Convey foul air from covers to existing stack



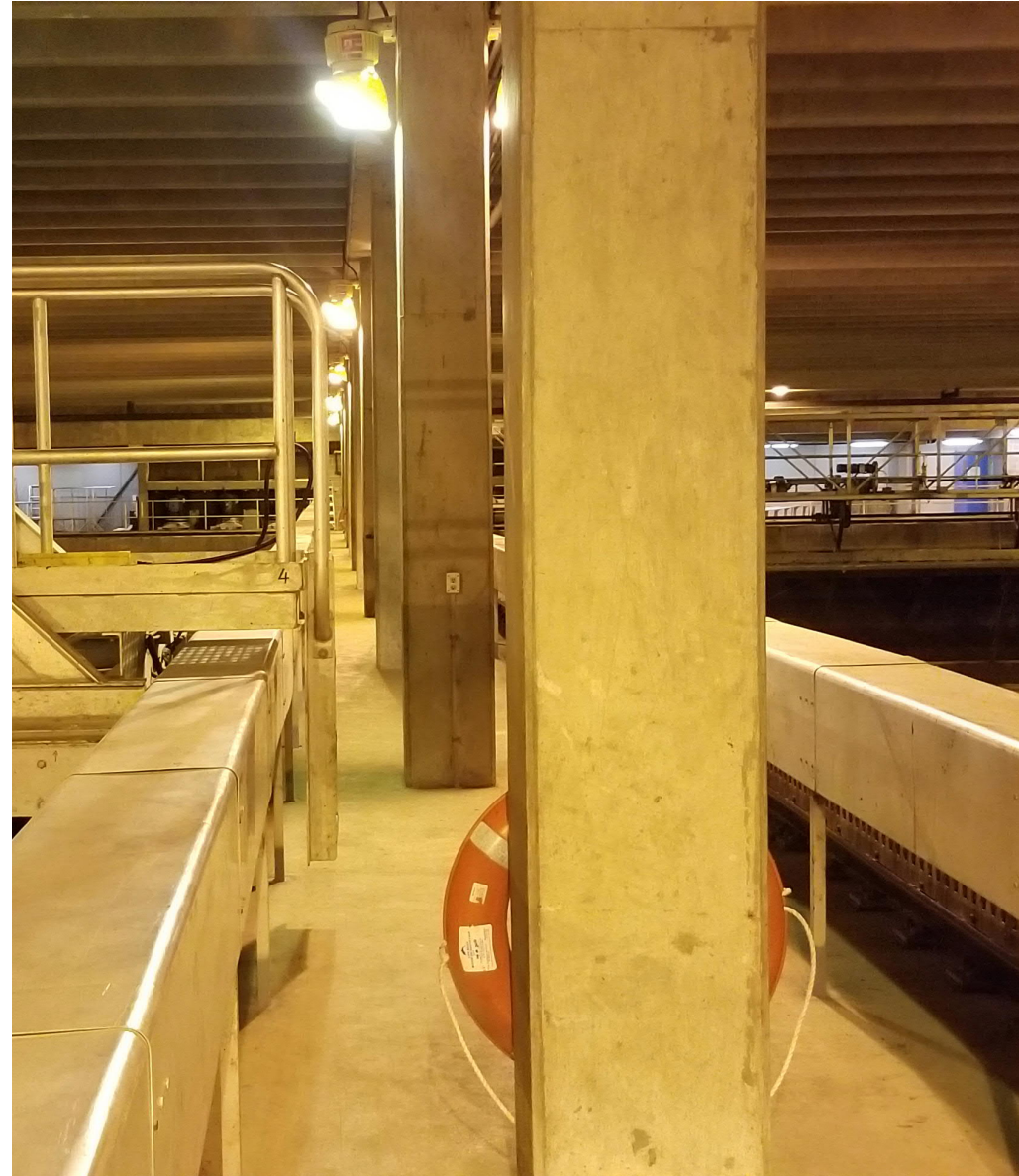


5. Primary Clarifiers 1, 2, and 3 and Distribution Chamber

- Improve flow distribution to primary clarifiers
- Upgrade HVAC in the control chamber building
- Replace equipment and components not currently appropriate for the hazardous area classification

6. Primary Clarifiers 4 and 5

- Provide new scum pumping and scum dewatering system located in new scum dewatering building
- Limited space between the columns and the moving bridge





7. Stack

- Currently vents foul air from Primary Clarifiers 4 and 5 and Secondary Clarifiers
- Reuse stack to vent foul air from new effluent launder covers on Primary Clarifiers 1, 2 and 3
- Must be reused to vent the Secondary Clarifiers

8. Fan Room

- Fan room ventilates Primary Clarifiers 4 and 5 and Secondary Clarifiers





9. Grit Building – Screens and Grit

- Coordinate with changes to electrical room as a result of Power Supply Project
- Power Supply Project may be complete prior to Commencement of Work
- Horn may sound to indicate equipment will start-up
- Decommission screens, aerated grit tanks and blowers, odour control and associated electrical and controls

10. Grit Building – Flushing Water Pumps

- Existing flushing water pumps to remain
- Connect new flushing water system in new Headworks Facility to existing flushing water supply





11. Greenfield for Standby Power Generation Facility

- Provide new Standby Power Generation Facility to provide back-up power for entire North End Sewage Treatment Plant

12. Greenfield for New Headworks Facility

- Existing interceptors will be connected to new wet wells
- Headworks to contain new
 - Raw sewage pump station
 - Wet wells and dry wells
 - New fine screening system including compacting
 - New grit removal system including washing and dewatering
 - New main control room
- Utilities and other underground structures may be present in this area



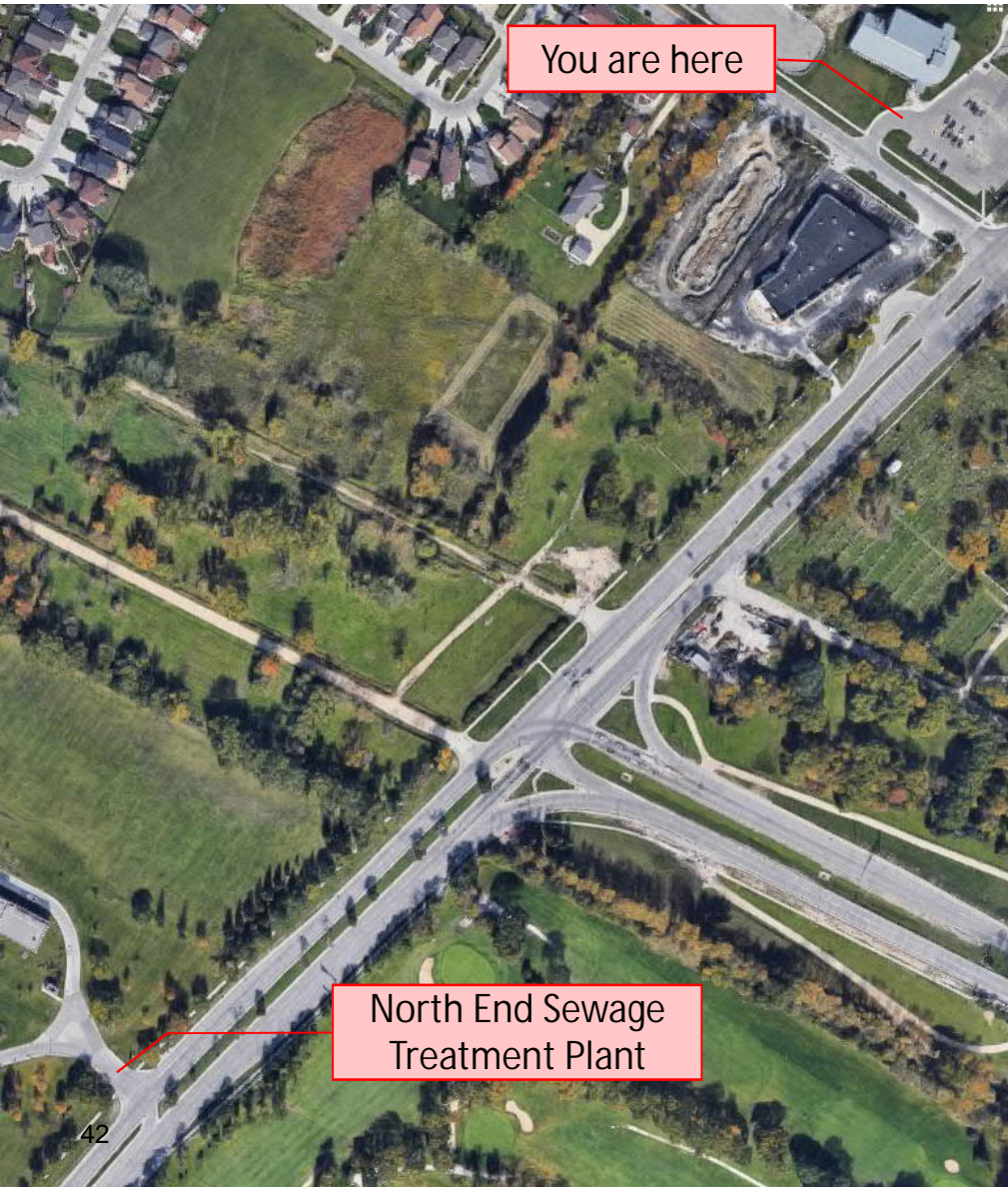


13. End of Tour

- Visitors must sign-out
- Self-guided tours not permitted

Questions and Answers





Closing Remarks

- Please vacate the gymnasium by 4:30 pm
- Site Tour begins at 4:30 pm
- Limited parking on site

AECOM Imagine it.
Delivered.