ADDENDUM No. 1

ITB No. 4607

WTP Filter Backwash Improvements

Bids Due: December 19, 2019 at 2:00 P.M. (Local Time)

The following changes, additions, and/or deletions shall be made to the Invitation to Bid for WTP – Filter Backwash Improvements, ITB No. 4607, on which proposals will be received on/or before Thursday, December 19, 2019 at 2:00 P.M. (local time).

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum is six (6) pages, including attachments.**

A pre-bid conference was held on December 3, 2019. A conference sign-in sheet, consisting of 1 page, is included at the end of this Addendum for information only. The information disclosed in the pre-bid conference is available in the Project Manual. Bidders are reminded that oral statements made at the pre-bid conference may not be relied upon, and will not be binding or legally effective."

Bidder is to acknowledge receipt of this Addendum No. 1, including all attachments (if any) in its Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgment of receipt of this addendum will be considered nonconforming.

The following forms provided within the ITB document must be included in submitted bids:

- **City of Ann Arbor Prevailing Wage Declaration of Compliance**
- **City of Ann Arbor Living Wage Ordinance Declaration of Compliance**
- **Vendor Conflict of Interest Disclosure Form**
- **City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance**

Bids that fail to provide these completed forms listed above upon bid opening will be rejected as non-responsive and will not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the Bid document which are outlined below are referenced to a page or Section in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here. Changes to the original text are bolded and italicized.

Section/Page(s)	Change
CHANGES TO SPECIFICATIONS:	
Section 01230	Page 3, Alternate 1a: Delete the second sentence of the Description that reads "This alternative includes Contractors efforts to engage the services of Kennedy Industries to refurbish the pumps." in its entirety.

Section 01310 — Page 7. Delete this page and replace it with revised Page 7 issued as part of this Addendum as Enclosure No. 1. Note added Items 6B and 8B, also note change to final completion date in Item 13.

Section 01810 — Page 8, Paragraph 1.09, D, 4. Change the demonstration testing period that is noted in three locations from “14-day” to read “7-day,

Section 01810 — Page 9, Paragraph 1.09, F, 7. Change first sentence from “…shall initiate a 14-day Operational Demonstrations, as described…” to read “…shall initiate a 7-day Operational Demonstrations, as described…”.

Section 01810 — Page 11. Paragraph 3.03, A. Change first sentence from “…shall be a continuous 14-day (336 hours) period…” to read “shall be a continuous 7-day (168 hours) period…”.

And add the following sentences to the end of this paragraph:

Two separate Operational Demonstration periods will be required. One for Backwash Pump 1 control valve/flow meter work and another that includes Backwash Pump 2 control valve/flow meter work and overall system operation with both pumps.

Section 01810 — Page 11. Paragraph 3.03, D. Change first sentence from “During the entire 14-day Operational Demonstration period,…” to read “During the entire 7-day Operational Demonstration periods,…”

Section 01810 — Page 12. Paragraph 3.03, M. Change first sentence from “…re-start the complete 14-day, (336 hours) Operational Demonstration time period.” to read “…re-start the complete 7-day, (168 hours) Operational Demonstration time period.”

Section 15100 — Page 3, Paragraph 2.01, A. Add the following subparagraph:

5. Gaskets
   a. US Pipe, Tyton Flange Tyte bulb-style gaskets only.

Section 15100 — Page 4, Paragraph 2.03, C. Delete sub paragraph 2. completely.

Section 15100 — Page 4, Paragraph 2.03, D. Delete sub paragraphs 3 and 4 completely.

Section 15100 — Page 6, Add Paragraph 2.09 GASKETS, including the following subparagraphs:

General: Gaskets in contact with potable water shall be NSF ANSI 61 certified.

Grooved End Joints: Halogenated butyl conforming to ASTM D2000 and AWWA C606.

Flanged: 1/8-inch-thick, homogeneous black rubber (EPDM), hardness 60-80 (Shore A), rated to 275 degrees F, conforming to ASME B16.21 and

ASTM D2000.

Full face for flat-faced flanges, flat-ring type for raised-face flanges. Blind flanges shall be epoxy-lined in accordance with the system specified above.

Gasket pressure rating for a minimum of 250 psig working pressure.

Section 15110 Page 3, Paragraph 2.01 A., 4. After this paragraph add the following subparagraph:

5. Butterfly Valves (B):
   a. Henry Pratt Co.
   b. DeZurik.

Section 15110 Page 3, Paragraph 2.03, D. After this paragraph add the following subparagraph:

E. Butterfly Valves:
   1. Shall conform to the latest AWWA Specification C504 and be designed for 150 psi working pressure, except as specified in this Section or on Valve Schedule.
   2. Valve body shall be cast iron ASTM A 126, Class B or ductile iron ASTM A536. Disc shall be cast iron ASTM A 48, Class 40, ductile iron ASTM A 536, Class 65-45-12, ni-resist ASTM A 436, Type 1, aluminum bronze ASTM B 148, CL9A,stainless steel series 316. Corrosion-resistant edge material shall be furnished on cast iron and ductile iron disks. Shaft shall be stainless steel and shaft seal shall be adjustable chevron packing or O-ring. Valve seat shall be Buna-N or EPDM for water service,
   3. Valves shall be suitable for throttling service through the entire range of flow - open to closed.
   4. The flanged, face-to-face dimension for Classes 25, 75, and 150 valves shall be short body laying length as specified under AWWA C504, Table 1, unless otherwise noted.
   5. Valves generally shall be mounted with the shaft horizontal.
   6. The minimum valve body shell thickness for Classes 25, 75, and 150 valves shall be as specified under AWWA C504, Table 1.
   7. Valves shall be made to open when turned to the left, or counterclockwise.

CHANGES TO DRAWINGS:

Sheet D-103 VALVE SCHEDULE, BCV. 1.1 & 2.,
Remarks – Add the following note to the Remarks column for these valves.
SIZING CONDITIONS;
MAX 6 MGD, P1 = 19.5 PSI, P2 = 16.0 PSI AND MIN 1.5 MGD, P1=47.5 PSI, P2=1.3 PSI

II. QUESTIONS AND ANSWERS

Q: Is there a domestic requirement on this project as to ductile iron pipe flanges & BFC's?
A: No domestic requirement.

Q: Do you have a specification for the proposed butterfly valves?
A: See revisions to 15110-3, as part of this Addendum No. 1.

Q: The Milestone and Works Constraints Summary (Table 1) within the project coordination specifications does not show the 14-day operational test. Can this table be revised to show when the operational test can take place as to not interfere with the substantial completion deadline?
A: See multiple revisions to 01810, as part of this Addendum No. 1.

Q: Do you know the current and/or required flow and pressure rates through the ball control valve?
A: See revisions to Drawings, Sheet D-103 as part of this Addendum No. 1

Respondents are responsible for any conclusions that they may draw from the information contained in the Addendum.

Enclosures:

No. 1 – 01310-7a (1 page)
No. 2 – Sign-In Sheet (1 page)

ADDENDUM #1 – ENCLOSURE #1: This page replaces page 01310-7.

Table 1. Ann Arbor WTP Filter Backwash Improvements
Milestones and Work Constraints Summary

Item	Work Description	Notice to Owner	Maximum Work Duration	Dates and Deadlines	Liquidated Damages
1	Anticipated Notice to Proceed (Not Guaranteed)			March 1, 2020	
2	Cistern drained for Field Measurements and Planning	7 days	2 days		$1000/day
3	Recovery Week for WTP to Backwash Filters and Prepare for next Item of Work		7 days		
4	Remove Backwash Pump No. 1 and Coordinate Delivery to Kennedy Industries for Inspection and Refurbishment	14 days	6 weeks	Complete before May 30, 2020	$1000/day
5	Backwash Pump No. 1 Out of Service for associated control valve and meter installation (Base Bid), discharge valves and suction valve replacement (Alternates No. 2 and 3) and motor starter replacement (Alternate No. 4)	14 days	5 days	No sooner than September 1, 2020	$1000/day
6A	Recovery Week for WTP to Backwash Filters and Prepare for next Item of Work		7 days		
6B	Demonstration Period 1		Part of work item above.		
7	Backwash Pump No. 2 Out of Service for associated control valve and meter installation (Base Bid), discharge valves and suction valve replacement (Alternates No. 2 and 3) and motor starter replacement (Alternate No. 4)	14 days	5 days	No sooner than September 15, 2020	$1000/day
8A	Recovery Week for WTP to Backwash Filters and Prepare for next Item of Work		7 days		
8B	Demonstration Period 2		Part of work item above		
9	Final debugging, programming and testing of backwash system using new control valves	14 days	3 days	No sooner than October 1, 2020	$1000/day
10	Remove Backwash Pump No. 2 and Coordinate Delivery to Kennedy Industries for Inspection and Refurbishment	14 days	5 weeks	No sooner than October 9, 2020	$1000/day
11	Remove existing venturi meter and control valve in cistern, install piping	14 days	3 days	No sooner than October 19, 2020	$1000/day
12	Substantial Completion			November 15, 2020	See Contract
13	Final Completion			December 1, 2020	See Contract

Notes:

1. During periods of backwash pumps out of service, Contractor shall work overtime, including Saturdays and Sundays, to complete this work as soon as possible.
2. Liquidated damages shall apply for each item in Table 1 that exceeds the assigned maximum duration or deadline. Liquidated damages in Table 1 shall be in addition to liquidated damages in the Contract for Substantial and Final Completion.

CITY OF ANN ARBOR
WATER TREATMENT SERVICES

Sign-in Sheet

Water Treatment Plant Filter Backwash Improvements
Pre-Bid Meeting
ITB# 4607
Date: Tuesday, December 3, 2019 @ 2:00 p.m.

List of Attendees:

Name (Please Print)	Company	Email Address/Phone Number
1. Ed Theisen	Henroe Plumbing & Heat	edt@henroeplumbing.com
2. Jason Axelson	Weiss Construction	JAxelson@Weiss-construction.com 313-567-4500
3. MATT Bow	JF CAVANAUGH	MATT@JFCAV.COM 810-333-0819
4. Mike Binder	Erie Welding	mbinder@erieweldingandmechanical.com 734-848-8361
5. Brian Rubel	Tetra Tech	brian.rubel@tetratech.com 734.213-4081
6. Emily Schlander	Fishbeck/AA	eschlandercr@a2gov.org
7.		
8.		