



**To: All Vendors Bidding on The College of New Jersey  
Permanent Reverse Osmosis System**

**From: Lauren Manning  
Finance & Business Services**

**Date: March 6, 2024**

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**ADDENDUM NO. 1**

**ISSUE DATE: March 8, 2024**

**REFERENCE:** The College of New Jersey  
Permanent Reverse Osmosis System  
Bid No. AB240011

Date of Original Bidding Documents: February 26, 2024

**INTENT:** This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and Prior Addenda if any, as identified above.

**VENDOR QUESTIONS:**

**Question 1:** Is Raw water hardness level known (Grains per Gallon or mg/L as CaCO<sub>3</sub>)?

**Response:** Hardness range is 60 - 80ppm which is approx. 3.5 - 4.7 grains per gallon.

**Question 2:** What Utility provides water to the Site?

**Response:** Trenton Water Works (City Water).

**Question 3:** What is the Minimum Temperature of water arriving at the site?

**Response:** 40F.

**Question 4:** Existing Storage Tank (or other makeup Demand/Call for water signal):

What type of level measurement signal can we receive from the tank?  
How tall is the tank?

**Response: Tank is 60" height has 4-20milli amp level control existing.**

**Question 5:** Is Anti-Scalant injection Preferred over a Water softener?

**Response: Yes.**

**Question 6:** For a softener, to you prefer Salt pellets or Truck-brine?

**Response: N/A**

**Question 7:** Are FRP Tanks Acceptable on pretreatment (Softener and Carbon)?

**Response: Yes.**

**Question 8:** What is the Flow rate capacity of drains? Backwash of carbon will be highest by a large margin. (70-100 GPM for standard models but Low-clearance form factor units may be even higher)

**Response: It can take most all flow as there are numerous large floor drains available.**

**Question 9:** What is maximum voltage of nearby transformer in proposed location? (affects NEC clearance requirement, 48" if over 151 VAC)

**Response: 480V is max, but we only need 36" of clearance from it. 48" is for working clearance, we will be working on this when needed in a de-energized state.**

**Question 10:** Is it acceptable for VFD's to be on RO skid?

**Response: Yes, see below.**

**Question 11:** Is the Installed Height floor-to-ceiling, over the Softener/Carbon pretreatment equal to the space for the skid? (84").

**Response:** Yes.

**CLARIFICATIONS:**

1. RO unit to have Allen Bradley Compaq logic control with panel view plus This will be able to integrate to our SCADA when needed.
2. Carbon filters to have Fleck control valves for operation.
3. RO unit to be able to produce 80 gpm even in winter months. Currently our water supply can be 40 F in the winter, this will affect operation by approx. 30% reduction in output. With a design of 80 gpm even, it will produce approx. 56 gpm. Unit should be sized for approx. 120 gpm output to be able to provide 80 gpm in winter months.
4. The RO with this added needed capacity for cold water usage will require approx. 24 membranes now.
5. RO unit to have VFD drive on unit to maintain tank levels at all times. Contractor will have to wire signals for this operation into panel.

END OF ADDENDUM NO. 1