1) Sheet E-100 states to demo the pull box adjacent to the vault and intercept the existing conduits. Are we also required to demo the conduit run between the interception point and the pull box? No, the existing conduit will not require demolition.

2) Could you please provide a set of drawings that are a bit easier to read? Some of the electrical notes are difficult to decipher. The Town's normal practice is to provide all plans on-line. You can have a jump drive prepared of the plans for an additional fee.

3) Could you please provide a specification or details for the access hatches? Please see attached hatch diagram.

4) Could you please clarify the discharge pipe layout on sheet C-205. The plan shows piping straight out of the vault and what looks to be a plain-end piece of pipe. Section 2 shows a 90 degree bend after the piping exits the vault. Is this pipe to be left open-ended? Are there any pipe supports required? If so, please provide a specification or detail. The discharge pipe should run straight out toward the impoundment area. The contractor is responsible for the design of the pipe support.

5) Please confirm all mechanical hardware shall be 316 SS. Yes, this is correct.

6) Drawing sheet C-205 for the above referenced project states that the "*Proposed Pump 1600 gpm@20' TDH*" but the technical spec says the duty point is 2500gpm @ 12' TDH. I've attached the drawing sheet & excerpt from the technical specs for your reference. Can you please clarify which duty point is correct? The design is per the TDH of 12'.

7) Just a note that the design point included in the bid documents when this project 1st bid back on May 14, 2021 was 2,500gpm @ 12' TDH. If the pump is required to do 1600gpm @ 20' TDH, a different pump than the one currently specified in the bid documents will be required. The design is per the TDH of 12'.

8) Should the new vault cover and two hatches be included in the total price line and not broken out? Yes, this would be considered an appurtenance to the contract.

9) I've been told that STH will be offering a pump and panel for the project, will this setup be an approved equal? This would be considered as a substitution and be reviewed as such.

10) Sheet C205 section 2 show a penetration of the vault for new pipe that comes out of the bay side of the structure, what purpose is this pipe serving? This is the pump discharge pipe.

11) Will we be able to close the beach and boardwalk as needed for any necessary demo? Yes, the contractor will need to coordinate with the Town regarding area closures.

12) In the attachment A-Tech Specs Page 7 called page 3 Section iV D paragraph 2 specifies FVNR across the line starters. Drawing attachment b –riser diagrams and details show VFDs. Which is correct? This is a VFD system so it can be adjusted among the float settings.

13) In the attachment A-Tech Specs Page 9 called page 5 Section iV K paragraph 2 s only call for 4 floats no transducer. Most of North Beach stations utilize a transducer for level as well as some have flow meters. If VFD are required, a level transducer can monitor the level and control the speed of the VFDs. Drawings show floats but transducers will be accepted as a bid alternate.

14) In technical specs Attachment a – the LC150 controller is specified along with SJE/Primex as the panel manufacturer. On page 12 called In the same spec in the Flyght pump information it states SL offers a PLC controller with 5.7" display.
Is the PLC acceptable over the specified LC150. Substitutions may be applicable if judged by the owner to be equal or better.

15) On drawing: Attachment b details- there is a note on the drawing that conflicts with the control panel in attachment a tech specs. The drawing shows a PLC for controlling the pumps in lieu of an LC150 pump controller. Is this correct? The drawings lead the project design. As stated previously substitutions are applicable if judged by the Town to be equal or better.

16) Is the panel to have communications. In some of the North Beach sites the LC150 provides communication. Is communication required at this site? Yes, The Town uses Missions Systems as a means of communications.

17) Will the Grundfos SE2.45.A100.135 be accepted as an "equal" to the Flygt NP3153.185 identified in the Technical Specification? It meets the design and construction requirements of the Technical Specification. The Grundfos pump operates with a lower NPSH reducing the chance of cavitation, imperative to this application. The impeller listed is a brand name, but our "as equal" replacement meets the performance standards of the identified impeller. Attached is a the Grundfos SE2.45.A100.135 pump specification and catalog cut sheet with curve. Yes, This would be considered a substitution and would need to go through the review process.

18) Will a CSI Control Panel By SJE Rhombus be accepted as an "equal" to the SJE/Primex? It meets the requirements detailed in the Storm Water Management Control Specification section of the Technical Specification?" Yes, This would be considered a substitution and would need to go through the review process.

19) The pump controller identified in section IV.G.13 of the Storm Water Management Control Specification references the Evoqua Water Technologies Intrlink LC-150 View-At-A-Glance. Will the Level View Controller previously approved for this project be consider an "equal"? This project has not bid before. Please see previous answers regarding the LC-150.

20) The Storm Water Management Control Specification and subsequent drawings reference a VFD. Given a VFD is required, does the control panel still require NEMA Full Voltage across the line magnetic starters or will a starter sized and designed to work in conjunction with the VFD be acceptable? The pumps are to be operated in conjunction with the VFD.

21) The conduit is noted as "PVC C" in some places. Can you confirm if this is PVC conduit or PVC Coated Rigid Coated? Also, is this for both above and below grade? Please confirm. This project should be PVC rigid conduit.

22) Are there any permits required for this project? If so, do you know which are required and is the town providing them or should the contractor plan on getting them? The contractor will need to apply for any trade permits required.

23) Sheet C-205 note 2 calls for Tideflex Series 39 check valve. There is also a note on the overflow & check valve section view detail that notes Tideflex Series 35 check valve or equal. Both of these seem to conflict with the Series TF-1 Tideflex sheet in the specifications. Please confirm which series will be required. The existing Tide Flex valve will need to be replaced with a TF-1 Tide Flex valve.