All Plan Holders and Builders Exchanges for FY 2019/20 Force Main Appurtenance Project

Subject: Bid Addendum No. 1 for FY 2019/20 Force Main Appurtenance Project


1. Sheet C-7, Sheet Note 2 and Sheet C-8, Sheet Note 5 shall be revised as follows:

   2. SHUT DOWN OF ROADWAY AT THE AIR VALVE IS LIMITED TO MONDAY THROUGH FRIDAY BETWEEN 5 PM AND 6 AM. OUTSIDE OF THESE WORK HOURS, CONTRACTOR SHALL INSTALL STEEL PLATES OVER EXCAVATION TO ALLOW TRAFFIC FLOW TO OCCUR ON THE ROADWAY. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN INCLUDING PLANNED DATES FOR WORK TO OCCUR AT LEAST 10 DAYS PRIOR TO ROAD CLOSURE.

2. Technical Specification Section 02710-2.03.E, the following shall be added:

   4. HDPE Flange Adapter back up ring shall be 316 stainless steel.

3. The non-mandatory Pre-Bid Conference for the FY 2019/20 Force Main Appurtenance Project was held at 10:00 AM on January 16, 2020. The meeting agenda and sign in sheet are attached.

4. Responses to Contractor’s questions during bidding are provided as an attachment to this addendum.
Sincerely,
Schaaf & Wheeler

[Signature]

Benjamin L. Shick, PE
Principal

Attachments:

1. Pre-Bid Conference Agenda
2. Pre-Bid Conference Sign In Sheet
3. Responses to Contractor Questions During Bidding
1. **Sign-In/Introductions**

2. **Scope of Work:** The project generally consists of the following items located on the District’s existing sanitary sewer force mains:
   
   a. Removing and replacing two (2) existing plug valves  
   b. Repairing an existing 30” plug valve  
   c. Removing existing air valves and installing five (5) new air valves, concrete vaults, and associated appurtenances.  
   d. This work includes hot tapping existing large diameter force mains, new concrete vaults, hatches, coating systems, vent pipes, and other items as shown in the contract documents. The Contractor shall note the following items, which are also outlined in the contract documents:
      i. Plug Valve Replacement at Pump Station 24, Force Main 14 Plug Valve Replacement, Laderman Air Valve, and Piper Park Air Valves: The force mains can be taken out of service for a maximum of 2 hours during the day (6AM to 10PM) and 4 to 6 hours at night (10PM to 6AM, depending on the flow conditions) during dry weather. See Section 02150-1.02.C for all requirements and restrictions.
         i. These restrictions will require night work during critical phases.
      f. System shutdowns shall be performed during the dry weather season (April 15 – October 30).
      g. Bon Air ARV: Road closures can occur between 5PM and 7AM. Construction noise is limited between 8AM and 5PM.
      h. Contractor is required to have vactor trucks on standby during system outages as described in Section 02150-1.02.D
      i. Several of the specified items have significantly long lead times. The Contractor will need to expedite the submittal and procurement process to meet the Contract requirements.
      j. No substitutions will be considered for the specified Air Valves and Plug Valves as specified in Sections 01300-1.03.A.5 and 15110.
      k. Site access constraints are identified in Section 01010.

3. **Bid Opening** is Friday, January 31, 2020 at 2:00 pm at the Ross Valley Sanitary District at 2960 Kerner Blvd., San Rafael, CA 94901-5517.

4. **Engineer’s Estimate:** $1,140,000.

5. **Completion Date:** Substantial Completion of this project shall be completed within one hundred and forty (140) consecutive calendar days. Final Completion of this project shall be completed within one hundred sixty (160) consecutive calendar days.

6. **Addendums:**
   
   a. No addendums have been issued to date.
   
   b. All addendums will be available on the District’s website [https://www.rvsd.org/173/Bidding](https://www.rvsd.org/173/Bidding)  
   Bidders are responsible for ensuring that they have received any and all Addenda.
7. **Permits and Licenses**: Refer to Specification Section 01060 for the list of permits and requirements.
   1. City of Larkspur Encroachment Permit.
   2. Caltrans Encroachment Permits for the work at the FM 13 Plug Valve Repair location and at the FM 13 Air Valve at 101 On Ramp. The District has applied for a Caltrans Encroachment Permit. The application is included as an appendix to the specifications and includes traffic control plans. The Contractor is required to apply for a Double Permit.
   3. Coordination and approval from private property owners.
   4. Special Discharge Permit from Central Marin Sanitation Agency (CMSA) for discharging into existing sanitary sewers. Specified in Section 02140 Dewatering.
   5. Fees are not expected for the City of Larkspur and Caltrans encroachment permits; however, the District will reimburse the Contractor for any fees associated with these permits. The Contractor is responsible for any and all fees and charges associated with the CMSA Discharge Permit.

8. **Field Visits**: Contractors are urged to visit all sites prior to bidding to become familiar with the site conditions and constraints identified in the contract documents.

9. **Questions**
<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Nolan</td>
<td>Ranger</td>
<td>1790 Yosemitte</td>
<td>415-822-5700</td>
<td><a href="mailto:john.nolan@ranger-pets.com">john.nolan@ranger-pets.com</a></td>
</tr>
<tr>
<td>Julian Trejo</td>
<td>Macdonald / Gillotti</td>
<td>555 Dublin St., Street San Rafael, CA 94901</td>
<td>415-459-8640</td>
<td><a href="mailto:julian@macgolden-gillis.com">julian@macgolden-gillis.com</a></td>
</tr>
<tr>
<td>Dennis Gavilas</td>
<td>RVSD</td>
<td></td>
<td></td>
<td><a href="mailto:davilla@rbsd.org">davilla@rbsd.org</a></td>
</tr>
<tr>
<td>Nori Sandoval</td>
<td>RVSA</td>
<td>2200 Range Ave, #201</td>
<td>707-528-1948</td>
<td><a href="mailto:nori.sandoval@rbsd.org">nori.sandoval@rbsd.org</a></td>
</tr>
<tr>
<td>Ben Sticher</td>
<td>School</td>
<td>2200 Range Ave, #201</td>
<td>707-528-1948</td>
<td><a href="mailto:bshick@rbsd.org">bshick@rbsd.org</a></td>
</tr>
</tbody>
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Ross Valley Sanitary District
FY 2019/20 Force Main Appurtenance Project
Response to Contractor Questions During Bidding

The following bidder RFI responses are being provided for clarification:

**PS #24 Plug Valve (C-1)**

**Question #1**

RESPONSE: Yes, there is a valve to isolate the valve to be replaced from the 42" force main.

**Question #2** - What is the approximate flow into PS#24 during the night hours. Can we utilize a large tanker truck to keep the level of PS#24 down to extend the 4-6 hour night window?

RESPONSE: See response to question #13 below.

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**FM #14 Plug Valve (C-2)**

**Question #3** - The required work at this location cannot be completed in the allotted 4-6 hour time frame. Assuming that the work area is excavated, dewatered and shutdown there is no way to complete the following work in 6 hours.

Is it possible to shut down the force main, drain the line, remove the plug valve and install a blank cap on the existing WYE/FCA on nite 1 then leave the system running into the 42" SSFM. Plan notes indicate existing 20" PV is closed currently which would imply that the wastewater is already moving this way currently.
This would allow us to prep the downstream side of pipe and pre-bolt up several pieces. Then come back 2nd night, shutdown system and complete installation?

**RESPONSE:** Yes, it would be allowable to install a restrained cap and perform the work over multiple nights as described and shown above.

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**FM #13 ARV (C-5)**

**Question #4** - Has a Hot Tap Been considered for this location in lieu of a shutdown?

**RESPONSE:** The District would prefer to shut down the upstream pump stations during the tapping procedures.

**Question #5** - How much wastewater should we anticipate to pump if we don’t Hot Tap the new ARV?

**RESPONSE:** The FM #13 ARV is located at the high point in the force main. Therefore, it is anticipated that 1,000 gallons or less will need to be handled, conveyed, and disposed.

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**BON AIR ARV (C-7&8)**

**Question #6** - Sheet C-7 Note 2 - Shutdown roadway M-F 7AM to 5PM, Sheet C-8 Note 5 - Shutdown 5pm - 7AM. Please clarify which is correct for hourly rates in bid.

**RESPONSE:** The allowable roadway shutdown hours are Monday through Friday between 5PM and 6AM (night work required), see addendum for revised sheet notes.
**Question #7** - Once shutdown is performed on PS#13 how much wastewater can we expect to have to drain from line to perform the work?

**RESPONSE:** Once the force main is taken out of service the District will partially drain the force main back into the wetwell; therefore, pumping and conveyance of wastewater is not expected at this location. The Contractor will be responsible for purging air out of the force main on a daily basis during the force main shutdown period as detailed in specification Section 02150-1.02.C.

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**Question #8** - What are the Day and Night durations for shutdown at these locations, not indicated on plans?

**RESPONSE:** Force Main #13 at the Bon Air Center Air Valve location can be taken out of service and bypassed for an extended period of time during the dry weather season. It is expected that the force main will be taken out of service for several days or weeks during the removal of the existing air valve and installation of the new flanged outlet and valves.

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**Piper Park ARV#1 (C-9) & Piper Park ARV#2 (C-10)**

**Question #9** - How much wastewater can we anticipate to drain once (E) ARV is removed?

**RESPONSE:** See specification Section 02150-1.02.C. It is anticipated that 1,000 gallons or less will need to be handled, conveyed, and disposed of once the existing air valve is removed.

**Question #10** - In anticipation of high groundwater and constant infiltration, what is the nearest discharge point to these locations?

**RESPONSE:** The closest sanitary sewer manhole is near the intersection of Doherty Drive and Rose Ln as shown on Sheet T-4

**Question #11** - Can a dewatering line be placed along path if needed?

**RESPONSE:** A temporary dewatering line along the pathway may be allowed with the approval of the City of Larkspur. All temporary facilities shall meet ADA requirements and shall be adequately protected.

**Question #12** - What are the Day and Night durations for shutdown at these locations, not indicated on plans?
RESPONSE: See specification Section 02150-1.02.C. The force mains can be taken out of service for a maximum of 2 hours during the day (6AM to 10PM) and 4 to 6 hours at night (10PM to 6AM, depending on the flow conditions) during dry weather.

**Question #13** - The specs indicated how many vactors are required on standby. Are these trucks planned to be pumping down stations and dumping to facilitate the timelines of shutdowns? If not are they just for emergency situations? If so, can we add large tankers to our bid to extend shutdown hours at any locations if needed? Does the district have any volume data for the stations available?

**RESPONSE:** The standby vactor trucks specified in Section 02150-1.02.D are intended to handle unexpected high inflows to the pump stations during the specified shutdown period. The pump stations can typically be shutdown without bypass assistance for the specified durations; however, the specified vactor trucks are necessary for contingency. It may be feasible to provide additional storage and/or conveyance facilities to extend the shutdown period; however, some of the pump stations have significantly high inflows. The Contractor will be required to handle all influent wastewater to the upstream pump station(s) if the shutdown period is to be extended beyond the specified durations. The Contractor will be required to plan for handling/conveying the peak dry weather inflow (PDWF) identified in the table below.

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Project Location</th>
<th>Upstream Connecting Pump Station</th>
<th>Estimated Average Dry Weather Inflow Rate (gpm)</th>
<th>Estimated Peak Dry Weather Inflow Rate (gpm)</th>
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</thead>
<tbody>
<tr>
<td>C-1</td>
<td>Valve Replacement at PS 24</td>
<td>Pump Station 24</td>
<td>100</td>
<td>320</td>
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<tr>
<td>C-2</td>
<td>FM 14 Plug Valve Replacement</td>
<td>Pump Station 14</td>
<td>300</td>
<td>960</td>
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<tr>
<td>C-5</td>
<td>FM 13 Air Valve at 101 On Ramp</td>
<td>Pump Station 12 (Pump Station 13 will be bypassed around this location during the tapping procedures)</td>
<td>100</td>
<td>320</td>
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<td>C-6</td>
<td>Laderman Air Valve Replacement</td>
<td>Pump Station 22 and Pump Station 33</td>
<td>Not Available</td>
<td>Not Available</td>
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<td>C-7 and C-8</td>
<td>Bon Air Center Air Valve Replacement</td>
<td>PS13; however, it will be bypassed around this location during removal and installation of force main appurtenances.</td>
<td>Not Applicable, Pump Station and Force Main will be shut down and bypassed.</td>
<td>Not Applicable, Pump Station and Force Main will be shut down and bypassed.</td>
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<tr>
<td>C-9</td>
<td>Piper Park Air Valve #1</td>
<td>Pump Station 14</td>
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<td>960</td>
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<td>C-10</td>
<td>Piper Park Air Valve #2</td>
<td>Pump Station 14</td>
<td>300</td>
<td>960</td>
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