March 19, 2019

TO: SHORT-LISTED DB TEAMS

SUBJECT: REGIONAL SURFACE WATER SUPPLY PROJECT
PROCUREMENT DOCUMENTS – RFP ADDENDUM NO. 2 (Revised)

The Stanislaus Regional Water Authority Request for Proposals (RFP) for the Regional Water Supply Project Design-Build dated December 24, 2018, previously amended by Addendum No. 1 dated February 11, 2019, is hereby further amended by this Addendum No. 2, including changes to the RFP, Proposal forms, draft Design-Build Contract and draft Design-Build Contract appendices.

The RFP and related documents are modified as follows:

RFP

ITEM 1: REQUEST FOR PROPOSALS, Section 4.7.3 Water Treatment Plant

ADD the following after the sixth bullet in this section:

- Describe provisions for ensuring adequate quenching of residual ozone, including a discussion of mixing effectiveness for any quenching chemicals, measured at the end of the ozone contactors, prior to the entrance to the filters.
- Describe provisions for operating individual filters at different loading rates as part of potential future filter re-rating studies, including control and measurement of filter influent and/or effluent flow rates.

ITEM 2: REQUEST FOR PROPOSALS, Section 4.8.1 Price Proposal Forms

ADD the following:

Proposers shall note that if the SRWA is successful in its attempts to negotiate with the County the removal of County road closure fees, the Contract amount shall be reduced by an amount equal to the value assigned to such fees by the selected Proposer on Proposal Form P-1.

ITEM 3: REQUEST FOR PROPOSALS, Section 1.9 Proposers' Investigations

ADD the following as a new paragraph at the end of the section:

A Proposer, at its sole cost and risk, may install a test pit (an excavation of the ground in order to study or sample the composition and structure of the subsurface) as part of its investigation and evaluation of the Sites and underground water and soil conditions, subject to the provisions in this paragraph. The test pit may be installed within the road right-of-way of the Ceres Finished Water Transmission Main Right of Way or the Turlock Finished Water Transmission Main Right of Way or in land adjacent to those

rights-of-way. The Proposer shall be responsible for acquiring the required land access or right of entry rights from the property owner of the test pit area and the Proposer shall comply with all terms and conditions of the land access or right of entry rights. If the test pit is installed within a county or city road right-of-way, the Proposer shall obtain and comply with an encroachment permit obtained from the county or city. The Proposer also shall comply with all other applicable federal, state, city, or county statutes, regulations, ordinances, and other laws. The Proposer shall backfill the test pit area in accordance with applicable laws and the requirements of the property owner. By undertaking any test pit work under this paragraph, the Proposer agrees to indemnify, defend, protect, and hold harmless SRWA, and its officers, employees and agents from and against any claims, liability, losses, damages and expenses (including attorney, expert witness and consultant fees, and litigation costs) that may arise out of the test pit work by Proposer or its contractor.

PROPOSAL FORMS

ITEM 4: REQUEST FOR PROPOSAL, PROPOSAL FORM P-1 Base Design-Build Price

ADD the following row under the section of the table titled "Finished Water Transmission Mains":

Road Closure Fees[(k)]	--	--	$

REPLACE the row titled "Allowance for Remedial Measures[(d)]" with the following row:

Allowance for Physical Modeling and Remedial Measures[(d)]	--	--	$500,000

ADD the following footnote:

[(k)] Company may rely on Stanislaus County traffic counts for determination of road closure fees. Traffic counts have been provided as a Reference Document.

APPENDIX 5

ITEM 5: APPENDIX 5 PROJECT TECHNICAL REQUIREMENTS, Section 5.2.3.4 Raw Water Pumping System

REPLACE the seventh bullet in this section with the following:

- The Company shall conduct computational fluid dynamics (CFD) modeling and scaled physical modeling of the Raw Water Pump Station, including the Wet Well, to examine the entire facility's compliance with Hydraulic Institute (HI) standards.

- Modeled scenarios shall include the 36-inch wet well influent pipes for a minimum distance of ten (10) pipe diameters from the inside face of the wet well.
- At a minimum, the Company shall utilize CFD modeling to identify the following:
  - Pump station flows of 5, 15, 30, 45 and 65 mgd.
  - Wet well water surface elevations (WSELs) of 49.5 and 68.3 feet (NAVD88) corresponding with estimated minimum and normal maximum WSELs in the Tuolumne River adjacent to the Wet Well.
  - The optimal configuration of installed pumps for all scenarios in which less than six pumps will be installed.
  - The optimal combination(s) of operating pumps when less than five duty pumps are required.
- At a minimum, physically modeled scenarios shall examine:
  - Pump station flows of 5, 15, 30, 45 and 65 mgd.
  - Wet well WSELs of 49.5 and 68.3 feet (NAVD88) corresponding with estimated minimum and normal maximum WSELs in the Tuolumne River adjacent to the Wet Well.
  - The effectiveness of the Company's proposed configurations and combinations of installed and operating pumps, as determined during CFD modeling.
  - The impact of proposed submerged sediment management measures.
  - The effectiveness of any remedial measures that are determined necessary to ensure compliance with HI standards.
- The Company shall arrange for a total of two (2) representatives of the SRWA and the SRWA Engineer to attend the physical model runs, including transportation and lodging (Company to arrange and SRWA to fund travel and lodging).
- With the exception of CFD modeling and the construction of filler walls within individual pump bays[1], the costs for scaled physical modeling and any remedial measures shall be covered by the modeling and remedial measures allowance included in Proposal Form P-1 (Base-Design Build Price).

ITEM 6: APPENDIX 5 PROJECT TECHNICAL REQUIREMENTS, Section 5.2.3.16 Landscaping

REPLACE this section with the following:

The landscape design for the Raw Water Pump Station site shall be low maintenance and water conserving, and contributes to the overall quality of the architecture and site design. Installed landscaping is required for all portions of the pump station Site,

[1] Filler walls shall provide a bay width equal to twice the design outside diameter of the pump inlet bell.

including sloped/bermed areas for erosion control. Landscape in these areas shall include, but not be limited to the following:

- Hydroseeding with low-water use, native or naturalized California species suited to the local environment and selected for drought tolerance. Permanent irrigation for hydroseeded areas is not required, however periodic irrigation of hydroseeded areas using on-site non-potable water shall be provided until the areas are established.
- On-site stormwater treatment systems including hydroseeded swales. A clear description of how swales will be planted and established shall be provided and coordinated with facility designs.
- All seed species, soil mixes and grades shall conform to local and regional stormwater requirements.
- Provide construction phase tree protection for all existing trees on site or within 30 feet (if overhanging the project limits) of the site that are not slated for removal. A certified arborist shall be on site to review active construction activities within driplines of trees to be saved. If any trees die or are damaged due to construction activities, the arborist shall prepare a tree value assessment from which damages may be assessed.

Landscaping features shall comply with the requirements of Section 5.3.3.15 (Landscape Architecture) of this Appendix (with the exception of requirements for shade trees, accent trees, shrubs and retention basin planting) and the California Code of Regulations Model Water Efficient Landscape Ordinance.

ITEM 7: APPENDIX 5 PROJECT TECHNICAL REQUIREMENTS, Section 5.2.4.1.3 Other General Requirements

ADD the following to the end of this section:

All water-containing structures, basins and tanks shall be capable of being fully drained using systems of permanently installed drain piping, valves and pumps. Reliance on submersible pumps that must be manually placed within structures during draining operations is prohibited.

ITEM 8: APPENDIX 5 PROJECT TECHNICAL REQUIREMENTS, Section 5.2.4.6 Filtration

ADD the following to the end of this section:

- Filter-to-waste piping shall be designed to accommodate up to two (2) filters in filter-to-waste mode simultaneously.
- Use of a common pipeline for filter backwash supply and filter-to-waste is prohibited.

ITEM 9: APPENDIX 5 PROJECT TECHNICAL REQUIREMENTS, Section 5.2.4.12 Chemical Storage and Addition

ADD the following to the end of this section:

- The bottom elevation of each bulk chemical storage vessel shall be higher than the elevation of the suction inlet on the chemical feed pump(s) serving the storage vessel.
- Prior to fabrication of skids containing individual chemical feed pumps and any associated discharge piping and appurtenances, provide a scaled physical mock-up of each type of skid with representative pumps, piping, valves, gauges, instruments and other appurtenances installed. The SRWA shall review the configuration of the skids and equipment for accessibility and maintainability before providing written review comments to the Company. The Company shall not proceed with skid fabrication until the SRWA's review comments have been satisfactorily addressed, including any necessary modifications to the design and configuration of the skids.

ITEM 10: APPENDIX 5 PROJECT TECHNICAL REQUIREMENTS, Section 5.2.4.20 Landscaping

REPLACE this section with the following:

The landscape design for the Plant site shall be low maintenance and water conserving, and provide an attractive civic amenity that contributes to the overall quality of the architecture and site design. Installed landscaping is required for the southern (main entry) frontage of the Plant Site, adjacent to the roadway, in parking areas, adjacent to the Administration and Operations Building, and sloped/bermed areas for erosion control. Landscape in these areas shall include, but not be limited to the following:

- Low-water use, native, or naturalized California species suited to the local environment and selected for drought tolerance.
- Canopy shade trees that shall provide a minimum of 50 percent shade for all paved areas within ten (10) years of installation. Plant materials shall be long-lived and require minimal levels of fertilization and water. Planter spaces shall be designed for adequate tree growth, locations of trees shall be appropriate for growth needs, and shade tree species shall be selected with root systems that, given appropriate growth spaces, will cause little or no damage to hardscape areas, including parking lots. Trees should be located outside of utility easements and away from underground utilities. Street trees shall be selected and placed as per local municipal code requirements.
- Accent trees and shrubs that provide additional color and wildlife habitat value.
- Landscape treatments that allow for site security and visibility into and throughout the Plant Site.
- High efficiency irrigation system such as an automatically controlled evapotranspiration-based irrigation system. Irrigation equipment shall be selected for durability and long life. An irrigation system containing 1/4" distribution tubing and

drip emitters will not be accepted. The system must operate at pressures listed in published as optimal for specified manufactured equipment. No overhead spray will be allowed in shrub beds, along pavement graded to drain away from landscape, and/or in areas less than 10 feet wide. Use of on-site non-potable water for irrigation is preferred.

- On-site stormwater treatment systems including vegetated swales. A clear description of how vegetated swales will be planted and irrigated shall be provided and coordinated with facility designs.
- All plant species, soil mixes and grades shall conform to local and regional stormwater requirements.
- Provide construction phase tree protection for all existing trees on site or within 30 feet (if overhanging the project limits) of the site that are not slated for removal. A certified arborist shall be on site to review active construction activities within driplines of trees to be saved. If any trees die or are damaged due to construction activities, the arborist shall prepare a tree value assessment from which damages may be assessed.

Landscaping features shall comply with the requirements of Section 5.3.3.15 of this Appendix and the California Code of Regulations Model Water Efficient Landscape Ordinance.

ITEM 11: APPENDIX 5 PROJECT TECHNICAL REQUIREMENTS, Section 5.3.3.15 Landscape Architecture

REPLACE the two bullets in this section with the following:

- Shade trees at 30 feet on centers along all street frontages and in parking lots
- Approximately three (3) accent trees at each corner of intersecting streets and at entrances to parking lots
- Irrigated 5- and 1-gallon shrubs within 10 feet of all public right-of-way, entry roads and parking lots
- Irrigated grass/vegetation within extents of stormwater retention basin. Grass/vegetation shall not require mowing.

ITEM 12: APPENDIX 5 PROJECT TECHNICAL REQUIREMENTS, 5.3.9.5.3 Process Piping

ADD the following to the end of this section:

- All process piping subject to degradation by UV light, including flexible tubing or hoses used for conveyance of chemicals, shall be protected from direct exposure to sunlight. For flexible tubing or hoses, coatings shall not be considered acceptable protection from sunlight.

DRAFT DESIGN-BUILD CONTRACT

ITEM 13: DRAFT DESIGN-BUILD CONTRACT, Section 6.2 Design-Build Price

MODIFY Subsection (F) to read as follows:

(F) Unit Price Items of Work. The concrete rubble removal and additional road pavement ~~paving~~ overlay work shall be paid for based on unit prices and the actual quantities of the final work in accordance with this subsection. Pavement overlay work means the application of one inch or more of asphalt to the road pavement surface. The unit price for the concrete rubble removal work shall be $xxxx/cubic yard and the Base Design-Build Price assumes (and has been priced to include) 1,200 cubic yards. The concrete rubble removal unit pricing applies only to the removal and disposal of the concrete rubble along the Raw Water Transmission Main underneath and near the Geer Road Bridge. The unit price for the additional road pavement ~~paving~~ overlay work shall be $xxxx/ square yard and the Base Design-Build Price assumes (and has been priced to include) 11,000 square yards. The additional road pavement ~~paving~~ overlay unit pricing shall be used to determine the price for the restoration of the adjacent road pavement areas ~~travel lanes~~ along Hatch Road, John Fox Road, and Berkeley Road, that, other than construction traffic, are not to be disrupted as part of transmission main trenching. For areas where pipeline trenching will occur within the road pavement area, the road pavement overlay and other road restoration work as ~~for areas where pipeline trenching will occur and other road restoration~~ required by county or city encroachment permit conditions shall be included in the Base Design-Build Price and not subject to adjustment by the additional pavement ~~paving~~ overlay unit prices. The unit price for the additional pavement overlay work also shall not apply to the minor repair of any road surface that is scraped, scratched or nicked by Company or its Subcontractor in the course of the Design-Build Work or for potholes that form along travel lanes used by construction traffic; rather, such minor road repairs shall be included in the Base Design-Build Price and not subject to adjustment by the additional pavement overlay unit prices. The unit prices shall be the basis for the final price. Payment at the unit prices will be calculated based on final actual measured quantities of the two work items. The Company shall track and substantiate its final actual concrete rubble removal quantity and additional pavement ~~paving~~ overlay work quantity. The final quantities of work will be subject to review and approval by the SRWA Construction Manager. The unit prices shall be applied to the final actual work quantities to determine the final prices for these portions of the work. If the actual final work quantities are more than or less than the assumed quantities set forth above, the Base Design-Build Price shall be adjusted accordingly by Change Order to reflect the final actual quantities and fixed unit prices. However, if the final actual quantity of work for either item exceeds the assumed quantity by more than 25%, then, at SRWA's discretion, the work in excess of 125% may be paid for at the unit price or at the Company's actual cost pursuant to the principles in Section 10.8 (Cost Substantiation of Work Already Performed).

PLEASE MAKE THESE CHANGES IN THE PROCUREMENT DOCUMENTS IN YOUR POSSESSION BEFORE YOU SUBMIT YOUR PROPOSAL.

You must acknowledge receipt of all addenda on Proposal Form G-1 to be considered a valid proposal.

This Addendum No. 2 is being sent to you via email, and is also posted on the SRWA Procurement SharePoint site.

Please follow the communication protocol included in Section 3.3 of the RFP if you have any questions regarding this addendum.

Sincerely,

Lindsay Smith
SRWA Project Engineer