



Pre-Bid Meeting Minutes

Project:	Blower Building Project	Project No:	151600
Engineer:	Brown and Caldwell	Location:	Central Valley
Description:	Pre-bid Conference	Date & Time:	Wednesday January 15, 2020, 2 PM

INTRODUCTION

A. Owner Representatives:

- i. General Manager: Phil Heck
- ii. Assistant General Manager: Brandon Heidelberger
- iii. Field Engineer/Inspector: Kevin Gallagher
- iv. Project Manager: Neil Kunz
- v. Construction Manager: Brown & Caldwell / Mark Hansen

B. Communication:

- i. Send Questions to Project Engineer, Neil Kunz (nkunz@brwncauld.com).

BRIEF DESCRIPTION OF THE WORK

- A. Acceptance of LoneStar Blower Procurement Contract for IGT Blower Goods and Services.
 - i. Coordination with LoneStar for work related to the installation and commissioning of blower equipment.
- B. Construct a new nominal 26,000 square foot block and brick Blower building including subsurface excavation, improved subgrade, footings, walls, and appurtenant features.
- C. Furnish and install in the new Blower building:
 1. Construct new Blower Building including but not limited to the Blower Room, Mechanical Gallery, Electrical Room, Electrical Switch gear, Backup Diesel Generators (Medium Voltage) Parts Warehouse, Training Room, Conference Room, IT workspace and Offices.
 2. Provide and Install electrical and controls wiring for the new blowers and switchgear.
 3. Provide and install new transformers and duct banks for the Blower Building.
 4. Provide and install three medium voltage Backup Diesel Generators, wiring, controls, and appurtenances
 5. Protect Gas pipeline to Power Generation building new engine generators are commissioned in December of 2020.
 6. Demolish gas pipeline in yard after new engine generators are commissioned.
 7. Appurtenant support facilities such as drains, HVAC, electrical, fire suppression, instrumentation and controls.
- D. Site civil work including duct banks, miscellaneous utility extensions, concrete pads for Transformers, and concrete pads for backup generators.
- E. Restore site
- F. Coordinate Work with Owner's operations



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G. Coordinate Work with other Contractors, projects listed below, at the site and with the Construction Manager including requirements for site safety.

- i. Construction Contract 30A Blower Building
- ii. Construction Contract 10C Headworks Improvements
- iii. Construction Contact 5F 3 Water Improvements
- iv. Construction Contract 5E Secondary clarifier upgrades and additions
- v. Influent Odor Control
- vi. Construction Contract 10B – Early Out South Interconnect Project.
- vii. CVWRF Cogeneration Engine Replacement Project

H. Contractor Parking to be South of Primary Clarifiers.

I. Central Valley will have a Security gate and all contractor employees will be required to have a security badge.

J. Space will be made available for a Contractor trailer next to Egg Digesters and BC office trailer.

INSTRUCTION TO BIDDERS

A. **Contract Time:** As per Agreement Section 00 52 00-2 of the Project Manual – The work shall be Substantially Complete within **730** calendar days after the Notice to Proceed.

- i. Anticipated Notice to Proceed – 3/20/2020.
- ii. Anticipated Substantial Completion – 3/20/2022.

B. **Liquidated Damages:** As per Agreement Section 00 52 00-2 of the Project Manual, the following Liquidated Damages shall apply:

- i. **Late Completion: \$500.00** for each day or part thereof that expires after the Contract Time until the Work is Substantially Complete.
- ii. **Interruption of Services:** No interruption of services shall be caused by Contractor, its agents, or employees without the Owner’s prior written approval.

C. **Regular Working Hours:** 6:00 a.m. to 6:00 p.m., five days per week, Monday through Friday. Other hours may be requested.

D. **Utility Coordination:** Contractor is responsible to save and protect all utilities.

E. **Testing & Certification Requirement:** Contractor is required to have their own quality control program, see Standard Specification Section 01 45 20 of the Project Manual.

- i. Paid for by the Owner
- ii. Coordinated by Contractor

F. **Schedule of Values:** Provide Schedule of Values within 24 hours after award. See bid form.



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- G. **Safety:** Contractor is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work and attendance of Central Valley safety orientation.
- H. **Instructions to Bidders:** Bids shall be received no later than **2 p.m. on Tuesday, March 10, 2020 at the offices of the Owner** per the Advertisement to Bid and shall be enclosed in a plainly marked package with the Project title, the name and address of Bidder, and shall be accompanied by the Bid security and other required documents. If a Bid is sent by mail or other delivery system, the sealed envelope containing the Bid shall be enclosed in a separate package plainly marked on the outside with the notation "BID ENCLOSED." A mailed Bid shall be addressed to [Central Valley Water Reclamation Facility, Attention: Phil Heck, PhD, P.E., 800 West Central Valley Road, Salt Lake City Utah 84119].
- I. **Bid Opening:** Sealed Bids for the construction of the **Blower Building Project** will be received, **from prequalified Bidders only**, by **Central Valley Water Reclamation Facility**, at the office of the **Central Valley Water Reclamation Facility, 800 W. Central Valley Road, Salt Lake City, UT 84119** until **2:00 p.m.** local time on **Tuesday March 10, 2020**, at which time the Bids received will be **publicly** opened and read.

 The Issuing Office for the Bidding Documents is: Brown and Caldwell, contact Neil Kunz, P.E. 6975 Union Park Center, Suite 490, Midvale, UT 84047, phone: 801-316-9827 email: nkunz@brwnncald.com.

 The Bid shall contain an acknowledgement of receipt of all Addenda. The addenda numbers must be filled in on the Bid Form.
- J. **Insurance:** When Owner issues a Notice of Award to the Successful Bidder, it shall be accompanied by the unexecuted counterparts of the Agreement along with the other Contract Documents as identified in the Agreement. Within 15 days thereafter, Successful Bidder shall execute and deliver the required number of counterparts of the Agreement (and any bonds, insurance documentation, and proof of a Utah General Contractor's License) required to be delivered by the Contract Documents to the Owner.
- K. **Clean Water State Revolving Fund (SRF):** The SRF supplement includes forms, requirements and certifications required of Contractor during and after the bidding period including but not limited to solicitation of subcontracts through disadvantaged business enterprise (DBE), women's business enterprise (WBE), and minority business enterprise. The SRF supplement also includes requirements for use of American Iron and Steel (AIS) on the project. Specification sections 00 20 00, Article 23, 00 85 00.



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GENERAL DISCUSSION

A. Work Sequence –Section 01 12 16

- i. Site preparation and potholing existing utilities.
- ii. Run temporary conduits, power wires, and control wires to existing equipment as necessary.
- iii. Relocate utilities as necessary for shoring.
- iv. Install shoring around proposed excavation.
- v. Install penetrations into existing structures.
- vi. Blower Building Construction. Note work is related to and has connection points to a separate contract, CC30B BNR Basins. Aeration Piping connection and Blower start up and commissioning are dependent on CC30B BNR Basin completion of Aeration piping and diffuser installation. Power feed to new electrical building and RAS selector in Contract CC30B BNR Basin is dependent on the completion of Blower Building Electrical room.
- vii. Electrical and controls sequencing
 - i. The Work as specified in the Contract Documents requires the upgrade or replacement of significant portions of the plants medium voltage electrical distribution system, as well as plantwide controls and network upgrades. The Contractor shall develop detailed step by step sequencing plans to achieve the installation with minimal disruption to plant operations. Sequencing plans shall be submitted to the Owner and Engineer for review prior to progressing with the Work. Sequencing as specified on the drawings and as described below may be used as a framework for the Contractor to develop the specified Sequencing Plans, however, they shall not relieve the Contractor from developing a specific plan for the Work. Sequencing as described below covers major portions of the Medium Voltage Distribution installation only. Low voltage and controls installation sequencing per Contractor’s plan.
 - ii. PHASE 0
 - 1. Prepare, submit and gain approval by the Engineer of the Contractor’s cost loaded design, permitting and construction schedule. The Contractor shall indicate the schedules to prepare and submit permit applications and paper work to the proper agencies for required construction, environmental, building and dewatering permits needed for on-site activities.
 - 2. No actual construction or physical work may be scheduled to be performed at the site until specific written approval by the Construction Manager is granted for said work. Such permission by the Construction Manager will only be granted if a complete price breakdown together with construction duration for all items of work have been supplied by the Contractor and approved by the Construction Manager and completion of required permitting has been successfully completed.
 - 3. Contractor shall indicate the schedule to mobilize, setup field office sites, temporary power and utilities.
 - 4. The Contractor shall apply for and obtain permits for all work to be performed as part of this project. Contractor shall coordinate with Construction Manager to



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ensure proper compliance with all Authorities Having Jurisdiction. After the installation work is complete, all such permits shall be closed out to satisfy requirements of this contract.

5. Prepare submit and gain approval for all equipment to be provided under this contract.
6. Coordinate with CVWRF items to be supplied by CVWRF and installed by Contractor. Review final shop drawings for CVWRF provided equipment against the Contractor's work. Identify any discrepancies between final shop drawings and installation Contract Drawings and submit required deviations from Contract Drawings if any to the Construction Manager for review. No relief will be provided for failure to review final shop drawings prior to initiating construction.

iii. PHASE 1 - See E-00-7001

1. Uninstall existing PME-9 switchgear serving as the Service Point for the plant between Rocky Mount Power's metering cabinet and plant substation T133. Replace switch with owner provided dielectric switchgear SWGR009100. Commission and test switch and connecting cable.
 - a. Re-use existing A-Side and B-Side cable provided under previous Construction Contract.
 - b. Coordinate required shut-down to replace switchgear with Rocky Mountain Power, Owner, and Construction Manager. Cogeneration System shall be fully operational and stably commissioned prior to replacing switchgear.
 - c. SWGR009100 shall be required to be manually operated until full control system is installed and commissioned under this Contract.
2. Install new Substations SUB340134A & SUB340134B
3. One feed from SWGR009100 shall be used to power SUB340134A, the other feed shall be used to power existing Substation T133. SUB340134B will not be powered at this stage.
4. Install new switchgear SWGR340133A, SWGR340133B, and SWGR340133C.
5. Install Cable Bus from Substations SUB340134A & SUB340134B to Switchgears SWGR340133A and SWGR340133B.
6. Perform no-load commissioning tests and checks for SUB340134A and SWGR340133A, SWGR340133B, and SWGR340133C using utility power.
7. Install Generators DG340133A, DG340133B, and DG340133C. Perform no-load commissioning tests and checks on standby diesel generators.
8. Provide and install load bank(s) on SWGR340133A, SWGR340133B, and SWGR340133C. Perform loaded tests on DG340133A, DG340133B, and DG340133C per manufacturer's requirements.
9. Update Controls to Existing Cogeneration System according to Standby Power System Design per 26 09 74. Install A-Side Cogen feed from existing cogeneration switchgear SWGR340134 (MV134)
10. Test Cogeneration A-Side feed to new switchgear using temporary controls as required to perform test.



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iv. PHASE 2 | PHASE 3

1. Place all plant areas on 'B'-side fed from MV133 using area substation primary switches.
2. One plant area substation at a time, disconnect and demolish the A-side feed to that area from existing switchgear MV133 and replace with new feed from new SWGR340133A.
 - a. Each area shall be commissioned prior to proceeding to cut-over for next area.
 - b. Coordinate with CVWRF and Construction manager for sequencing of areas.

v. PHASE 4|PHASE 5

1. Place all plant areas on 'A'-side fed from new SWGR340133A using area substation primary switches.
2. Manually transfer Cogeneration switchgear from 'B'-Side feed to MV133 to 'A'-Side feed to SWGR340133A.
3. One plant area substation at a time, disconnect and demolish the B-side feed to that area from existing switchgear MV133 and replace with new feed from new SWGR340133B.
 - a. Each area shall be commissioned prior to proceeding to cut-over for next area.
 - b. Coordinate with CVWRF and Construction manager for sequencing of areas.

vi. PHASE 6

1. Disconnect 'B'-Side primary feed from T133 and re-connect to SUB340134B.
2. Commission and fully test all control strategies per 26 09 76.
3. Once Standby Power System is fully commissioned, proceed with demolition of T133, MV133, and remaining control cabinets from old(Waukesha) cogeneration system under direction from CVWRF and Construction Manager.

vii. The Plan shall be coordinated with the Contractor's construction schedule and meet the restrictions and conditions specified in the Contract Documents.

viii. The Plan shall describe the Contractor's means and methods for performing the tasks listed above and the length of time required to complete said tasks.

ix. Notify the Construction Manager if any portion of the work cannot be completed as Specified. Develop alternate plan to achieve the subject portion of the work subject to approval of the Construction Manager and CVWRF.

B. The Contractor shall observe the following restrictions:



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- i. The Contractor is responsible for ensuring that treatment processes and plant operations are not compromised by Contractor’s actions. The treatment plant is to remain operational during the execution of this contract.
- ii. The Contractor shall not adjust or operate serviceable or functioning equipment or systems except as specifically required by this contract.
- iii. Equipment presently installed in the treatment plant must always be available to plant personnel for use, maintenance and repair.
- iv. Contractor equipment, materials or any material included in the work shall be placed in areas which do not interfere with the plant operations.
- v. The Contractor shall not schedule any outages or testing and commissioning events without prior approval of the Construction Manager. The Contractor shall notify the Construction Manager 14 days in advance of any required shutdown or service. Written authority from the Construction Manager is required for all intentional power interruptions.
- vi. The Contractor is to provide whatever temporary piping, pumping, power, and control facilities required to maintain continuous plant operations and complete treatment.
- vii. The integrity of the existing plant utilities shall always be maintained by the Contractor.
- viii. Contractor to provide a Maintenance of Plant Operations (MOP’s) tracking list to detail work sequence and system shut down periods.
 - 1. 3W Cooling tie in.
 - 2. 3W High Pressure tie in.
 - 3. 3W Low Pressure tie in.
 - 4. 1W tie in.
 - 5. Natural gas system for tie in.
 - 6. Shutdown of Mixed Gas feedline.
 - 7. Aeration Basin connection to CC30B BNR Basin
- ix. The 3W Cooling water system is to remain in operation during the construction and shutdowns shall not exceed 2 hours. Shutdowns are to be coordinated with the Construction Manager.
- x. Shutdowns of the 3W High, and Low-Pressure systems shall not exceed 4 hours. Shutdowns are to be coordinated with the Construction Manager.
- xi. Shutdowns of the 1W system shall not exceed 2 hours. Shutdowns are to be coordinated with the Construction Manager.
- xii. Shutdowns for natural gas tie ins shall not exceed 2 hours. Shutdowns are to be coordinated with the Construction Manager.
- xiii. Contractor to provide setup and startup plans.

C. Survey and Layout Data – 01 32 23

- i. Horizontal and Vertical - Field Verify



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- D. Environmental Conditions – 01 11 80
 - i. Winter and Summer Conditions
 - ii. Pathogens
 - iii. Historic uranium processing tailings
 - iv. Flow Conditions – Peak: 117.7 MGD
- E. Temporary Facilities and Controls – 01 51 00
- F. Geotechnical Instrumentation and Monitoring – 31 09 00
 - i. Undocumented fill
- G. Sheeting, Shoring, and Bracing – 31 41 00
- H. Vibro-Replacement Stone Columns 31 23 42

QUESTIONS

Introduction and review of project.

Review of project schedule and delaying bid opening. Bid opening will be delayed to March 10, 2020.

SRF MBE/WBE goals are listed in Section 00 85 00. Construction goals are MBE 4% and WBE 2%.

Stone Column design is by contractor. Specification list basis of bid as 24" diameter columns spaced 7 feet on center. With a 30 foot depth for the entire building including the basement. The 30' depth can vary depending on contractor installation (ie if top 2 to 3 feet are excavated for the footings and duct banks then length would be 27 feet.)

Contractor is responsible for the Arc Flash Study.

Stone column depth increase will be determined by testing and allowable bearing pressure. Test results will be reviewed with Geotech and Construction Manager, column depth may be increased if required bearing pressure is not achieved.

There is one additional row of stone columns outside the entire building perimeter.

Requests to approve additional manufacturers are to be sent to Neil Kunz. Answer will be provided by addendum.

CVWRF will provide one (1) 480 V 60 amp breaker for construction power.

Building permit cost to be paid for by CVWRF.

The Electrical permit is part of the building permit.

Sign up sheet for pre-bid meeting is attached.