



**SAR Train A & B Blower Replacement
 BID PHASE - CLARIFICATION No. 1
 CLMC 573**

CIP Project No. 3333.028
 IFB: 6100 CLMC 573

Prepared by:

Carollo Engineers, Inc.
 8911 Capital of Texas Hwy North, Suite 2200
 Austin, TX 78759
 (512) 472-4519



The following are answers to Bidders received on the above project. These answers do not modify the Contract. Any modifications to the Contract will be through Addenda.

	Question/Request	Response
1	Document 00608 "Assignment of Procurement Contract for Aeration Air Blowers and Air Supply Control System" referenced a "contract" to be assigned to the General Contractor. The only document that is included in the Contract Documents is a quotation from Siemens. Please provide the Contract between the City of Austin and Siemens so that we can review items such as delivery schedule, payment terms, retainage, etc.	The Contract between the City of Austin and Siemens will be added to Volume 4 as part of Addendum No. 2.
2	Does Document 00608 and Document 00609 need to be included with the bid or are those documents executed with the Contract.	Document 00608 and 00609 are executed with the Contract, and are NOT submitted with the bid.
3	Can the contractors contact Siemens or the Siemens Representative during the bid period?	Yes.
4	The sequence of work described in Section 01140 indicated that the existing blowers are removed prior to full height CMU wall demo on the South side of the Secondary Treatment Building. Can the existing blowers be removed after the wall is removed?	The sequence of work is one way of prosecuting the work, but the Contractor is free to use other approaches. The key requirements are maintaining at least two functioning existing blowers until the first new blower is available, and maintaining the structural integrity of the south wall.
5	The sequence of work described in Section 01140 references "auger cast piles" for the 48" header supports and the plans indicate drilled piers. Which is correct?	Drilled piers are correct; Section 01140 has been changed accordingly in Addendum No. 2.
6	The 30" AIR from the Discharge Cone to the 48" AIR does not have any means of "field adjusting" the run length to match field conditions which will require exact and precise fabrication of pipe. Please clarify is some type of restrained coupling is permitted in this area.	The 30-inch connections at each 48-inch x 30-inch tee can be a restrained coupling other than a flange.



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7	In Specification 09714, Metal Faced Acoustical Panels, Acoustical Solution's Alphaperf is listed as an acceptable manufacturer. They cannot fabricate a panel width more than 30", and every panel listed has a width greater than 30" but one (AP14). Please advise.	Specification 09714 will be modified to remove those manufacturers that cannot provide all panel sizes required, and an additional panel product will be added as an alternative in Addendum No. 2.
8	<p>Reference: ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES</p> <p>6.6 Permits, Fees: Add the following:</p> <p>"OWNER will obtain and pay for the following permits, licenses and/or fees:</p> <p>.1 Site Development Permit.</p> <p>.2 Building Permit(s). OWNER's responsibility for obtaining and paying for the Building Permit(s) shall be limited to the following where applicable: the required Electrical Service (Aid of Construction) Fee, Water and Wastewater Tap Fees, Water and Wastewater Capital Recovery Fees, and Septic Permit Fee. The OWNER's responsibility for obtaining and paying for the Building Permit(s) <u>excludes securing and paying for the following where applicable: Driveway Permit (Concrete) Fee, Electrical Permit, Mechanical Permit, Plumbing Permit, Water Engineering Inspection Fee, Temporary Use of Right of Way Permit, the gas company's Gas Yard Line Contribution Fee, and any other permits/fees not listed above.</u></p> <p>Will the bold and underlined items be required and if so, where do we find the costs for these fees / permits?</p>	Contractor is responsible for paying all permits not obtained and paid for by the Owner. Contractor can contact the City's Permit office to obtain cost for permits.
9	During removal of the sand and grit from the basins, will we be able to dispose of this material onsite?	No. This material will need to be hauled to a landfill.



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	Question/Request	Response
10	Note 2 on Sheet 01S02 states that the pier cap is to be 6" above grade, Note 3 states that the top of pier is to be 4'-0" below grade which would yield a pier cap height of 4'-6" min. The details on Sheet 01S03 for the pier cap show a 4'-0" height pier cap. Please clarify.	The dimensions will be reconciled by addendum.
11	Specification 01140 "Work Restrictions", Paragraph 1.01-F-1 requires acid washing of existing diffusers in Train C. Is there an existing in-situ liquid acid cleaning system available for this work or does the new and/or a temporary system need to be utilized?	The existing diffuser systems have purge piping that can be utilized to pump acid into the diffuser grid. The modified Milwaukee method is also an acceptable cleaning method. See Question/Request #27 for a detailed response.



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	Question/Request	Response
12	<p>On a typical City of Austin project, the Owner performs all testing. Special Specification SS05051 "Anchorages" Paragraph 3.4 "Field Quality Control" states that the Contractor will employ a testing lab to test installed anchors. The minimum testing requirements are 10% of the installed anchors and/or reinforcing bars to 50% of their ultimate tensile capacity and if ANY of the adhesive anchors fail, the Contractor will pay for testing of the remaining 90%. Testing may also include whatever the Field Engineer determines necessary for the various types of adhesive anchors and anchor bolts.</p> <ul style="list-style-type: none"> a. Please confirm that the Contractor is performing this testing and not the Owner b. Please clarify what other testing may be required according to the Field Engineer's determinations c. Is the Contractor responsible for failures in the substrate as the majority of anchor failures in older concrete structures are not because of the anchor/adhesive, rather the quality of the concrete that the anchor is installed in. d. There are areas that may not allow proper access to pull test doweled reinforcing steel (i.e. Detail 5/02S09). Are there any areas that are exempt from this testing? 	<ul style="list-style-type: none"> a. Contractor to perform testing as specified. b. No additional tests other than the specified pull out test are anticipated. c. Contractor is not responsible for pull-out test not meeting specified strength due to substrate failure. d. Dowels shown on detail 5/02S09 is not required to be tested. Assume testing will be required at all other locations for bidding purposes.
13	<p>Special Specification SS05120 "Structural Steel", paragraph 3.3 "Field Quality Control", please confirm who is responsible for providing and paying for an independent testing and inspection agency to inspect high-strength bolted connections and welded connections.</p>	<p>Field quality control for steel construction are special inspections required per notes on G-S03 and should be part of owner's special inspections (testing lab).</p>



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	Question/Request	Response
14	Special Specification SS05210 "Steel Joints", paragraph 3.3 "Field Quality Control", please confirm who is responsible for providing and paying for an independent testing and inspection agency to inspect field welds and bolted connections.	Field quality control for steel construction are special inspections required per notes on G-S03 and should be part of owner's special inspections (testing lab).
15	Specification 01010 "Summary of Work" Paragraph 1.23-A states that the Contractor is to perform testing. Please clarify the Contractor's testing requirements.	Specification 01010 is the Summary of Work, and as such, does not specify particular testing; See related Volume 1 Specifications, and the individual Special Specifications of Volume 2 for specific testing requirements.
16	Specification 01455 "Special Tests and Inspections" indicates the Owner will employ inspectors who will provide special inspections during construction. There are numerous inconsistencies and contradictions within the specification on what the Owner will be responsible for testing and what the Contractor will be responsible for testing. Can a matrix be developed to clarify testing requirements?	See Section 00700 Article 13, Paragraph 13.3 to determine who pays for what tests. The city will pay for Special Inspections required by the IBC.
17	Keynote 14 on Sheet 02M01 and Keynote 17 on Sheet 02M02 indicate that the Contractor is to provide the blower intake transition. The list of "Shipped Loose Components" on the Siemens proposal indicated they are providing "Inlet plenum from wall to IFS." Please clarify if these are the same components and who will be furnishing these components.	The Contractor is to provide and install the transition piece on the blower intake between the wall and the intake plenum with filter housing.
18	Please confirm if the Scissor Lift to be furnished to the Owner per Section 11167 has no interim milestone date (i.e. after Stage 1 is complete).	The Scissor Lift is required to maintain valves on the discharge side of the blower. The Scissor Lift is to be provided before the first blower installation is completed.



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	Question/Request	Response
19	Is Siemens providing all of the valves with motorized actuators including the 1" ball valves for the Blower Cooling Water? If not, what is the manufacturer of the motorized actuator as Specification 13447 "Electric Motorized Actuators" requires that all motorized actuators be from a single manufacturer.	The blower manufacturer is to provide the 1" ball valves with motorized actuators on the water-to-oil cooler as specified in 11375 in sub section 2.05 B 1.
20	Specification 15061 "Pipe Supports" describes maximum spacing for pipe supports and specific locations that require pipe supports such as changes in direction, both sides of flexible pipe connections, etc. The Engineer has depicted locations of pipe supports on much of the piping for this project. Are there supplemental supports not shown that will be required? Which systems are fully designed and depict all of the pipe supports on the drawings and which system do not depict all of the pipe supports?	If supports are shown on the drawings (all air piping, and Train A/B Blower cooling water piping), the maximum spacing for pipe supports listed in specification 15061 may be ignored. If pipe supports are not specifically shown (Train C Blower cooling water piping), then provide supports based on the spacing outlined by 15061.
21	Please explain why Section 09960 - High-Performance Coatings is listed as a related spec section under Paragraph 1.01-B-3 of Specification 15286 "Stainless Steel Pipe and Tubing"?	There was no need for the High-Performance Coating specification (09960) to be listed as related in the Stainless Steel Pipe and Tubing specification (15286). Specification 15286 makes no other references to specification 09960.
22	Do the interior CMU walls to be demolished at the existing chlorination room (Note 5 – Sheet 02D01 & Note 2 – Sheet 02D09) have insulation containing asbestos material in them?	No
23	Would the Owner consider adding Heavy Highway wage rates to pertain to the work to be completed in the existing Aeration Basins and Yard Piping?	See Addendum No. 2
24	What labor classification would installing the aeration equipment fall under?	See Section 00630 & wage rates, Contractor is responsible for paying the appropriate labor rates.



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	Question/Request	Response
25	Would installing ceramic diffusers on pre-packaged pipe assemblies fall under "common laborer"? This is basically, unscrewing a diffuser and cleaning it, then screwing it back on).	See Section 00630 & wage rates, Contractor is responsible for paying the appropriate labor rates.
26	What type of material/chemicals does the existing chlorine scrubber to be demolished (Sheet 02D01 – Note 14) contain? Will the Owner drain and dispose of any chemicals prior to the Contractor mobilizing and beginning work?	The existing chlorine scrubber has been drained.
27	Note 3 on Sheet 05D02 states "Acid wash and preserve all 5,958 diffuser in Train C for reclamation in new diffuser grid". Please provide clarification on the extent of acid washing to be performed, how the acid washing is going to be inspected to be deemed acceptable, and course of action if air flow through preserved diffusers is not adequate once put back into service.	The acid cleaning method must be either injection of liquid acid into the air distribution grid piping as described in 11378C or the modified Milwaukee method. The acid cleaning method described in 11378C involves pumping either formic or hydrochloric acid into the piping grid, which can be done through the existing purge line. Air draws the liquid up through the diffusers over 2-3 days, dissolving mineral scaling, and removing biological growth. The "Modified Milwaukee Method" is also acceptable, which involves a high pressure spray of diffusers, followed by a 30 minute acid soak and a second high pressure spray. The high pressure (80 psi +/- 10 psi) spray would be with water from approximately 8 inches from the diffuser for 10 seconds each. Diffusers are to be tested by running them in shallow water determining which are non-functional. If a diffuser passes a visual airflow check, they are deemed acceptable for use in the new diffuser system. Any diffusers found to be inadequate may not be reused.
28	Will the Contractor be allowed to include Siemens Energy's payment terms into the Contractor's schedule of values for the project?	The Schedule of Values should include all the costs of the project, including the payments due to Siemens.



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	Question/Request	Response
29	Please provide the date that Siemens Energy is required to deliver blowers by. Please provide a date for submittal approval. If submittal approval is not achieved by this date and the delivery of blowers is delayed, will the Contractor be granted a time extension on the project?	The Project Schedule currently shows an early delivery date of March 20, 2017, and a late delivery date of April 11, 2017.
30	Notes for Blower Pad Preparation on Sheet 00GS01 requires a minimum of 2'-0" of Lean Concrete Fill for the pad subgrade. The sections on Sheet 02S11 indicate "compacted subgrade". Is the subgrade for the Blower Pads to be compacted granular material or lean concrete?	Pad preparation under blower units shall be per "Blower Pad Preparation" notes on drawing 00GS01.
31	Section 15052-3.05 Piping Schedule refers to Section 15286 for Above-ground AIR piping 3-48 inch diameter. 15286-2.01.C.1 requires Type 304L stainless steel. The Mechanical drawings detailing this piping refers to the General Mechanical Notes on DWG 00GM01 where Note No. 22 requires Type 316L stainless steel U.N.O. Is the stainless steel AIR piping to be type 304L or 316L alloy?	The air piping is to be type 304L , as specified in 15286-2.01.C.1. Addendum No. 2 will update the piping schedule (15052-3.05) to clarify this, and DWG 00GM01 Note No. 22 is being changed to 304 or 304L.
32	<p>Spec Section 01140 "Work Restrictions", Paragraph 1.04-D "Dewatering of existing process and disposal of residue" indicates the following:</p> <ul style="list-style-type: none"> a. The Contractor may be permitted to drain the aeration basins using the aeration basin drain lines if approved in advance by the Engineer b. The Contractor may haul or pump biosolids, sand, and grit from the aeration basins to the Headworks only if permitted by the Owner. <p>Can we get pre-approval of the above two items prior to bid? Should we include costs to pump, haul, and dispose of all liquid and/or solid waste to an offsite facility?</p>	<p>See Addendum No. 2 for a. & b.</p> <p>The Contractor's bid should include costs to pump, dewater (as required), haul, and dispose of solid waste to an offsite landfill.</p>



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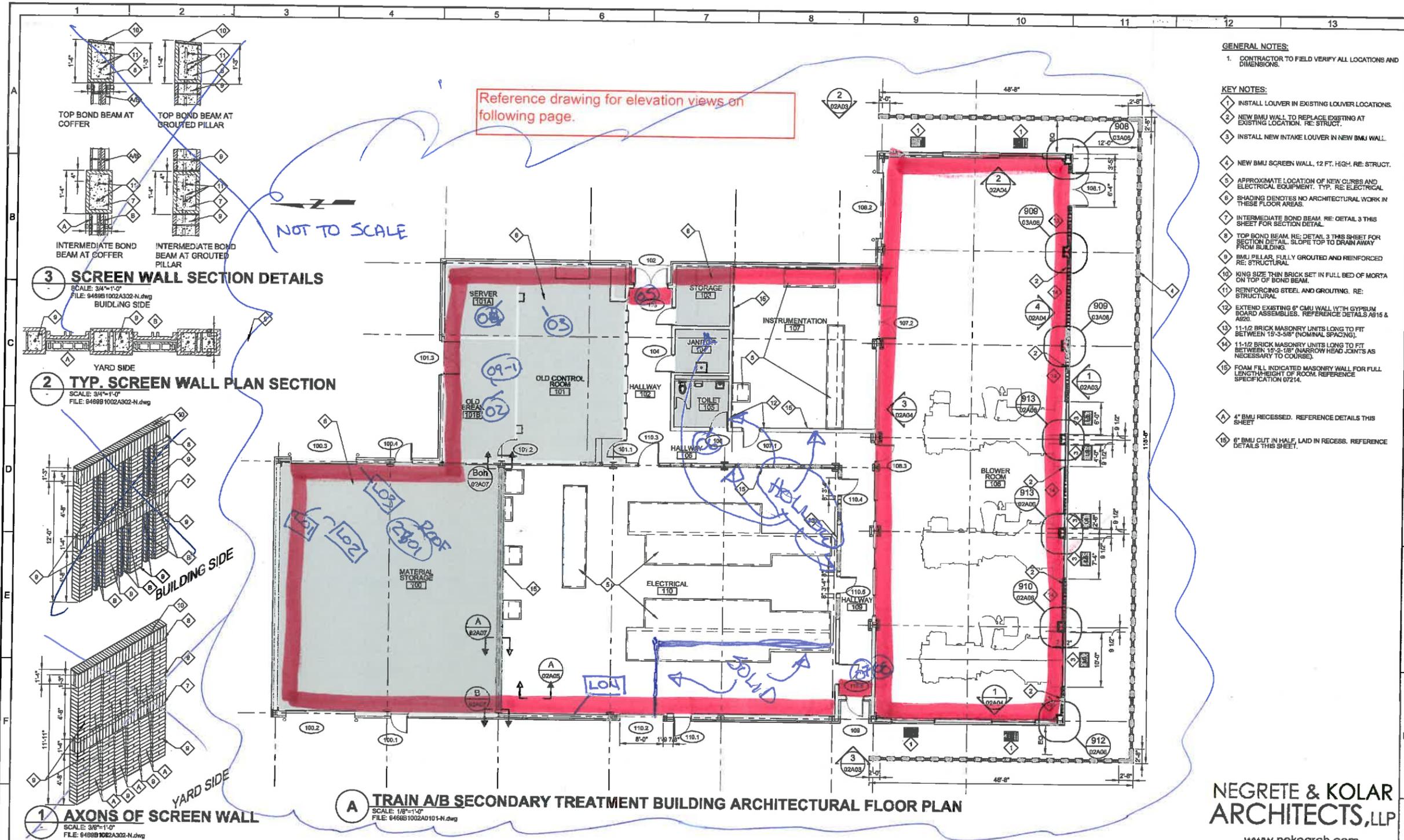
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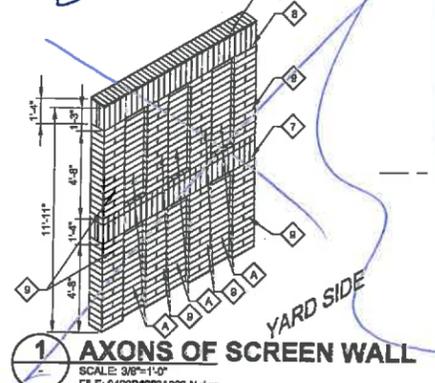
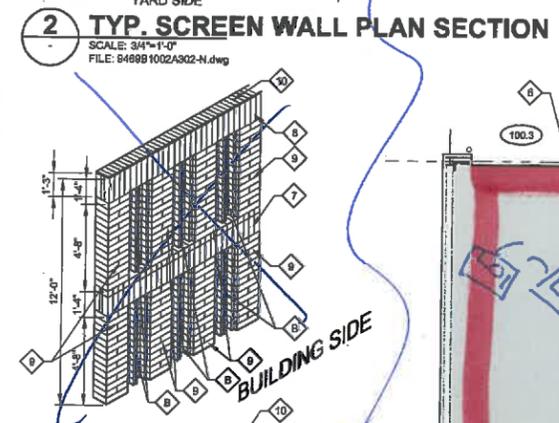
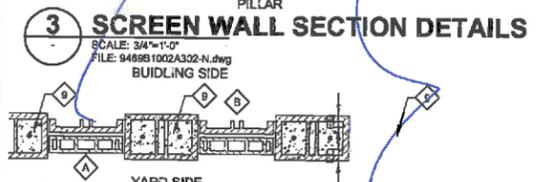
	Question/Request	Response
33	<p>We have the following questions regarding the air piping for this job:</p> <ol style="list-style-type: none"> 1. Spec. Section 15286-4 calls for type 304L for air piping 3" inches and larger. On Sheet 144, (00GM01) note 22 calls for all SS to be Type 316 or 316L. Please clarify if the air piping should be Type 304L SS or Type 316. 2. Can the flanges for the stainless air piping be provided per the AWWA C228 standard? (This standard describes stainless-steel ring-type slip-on flanges and blind flanges for use in conjunction with stainless-steel pipe used in facilities of waterworks service.) The class of flange would be selected based on the required test pressure listed in the pipe schedule. We have been told by our supplier that they have a 24 week lead time on the specified flanges. (This question was asked by our material supplier.) 	<ol style="list-style-type: none"> 1. All piping shall be Type 304L Stainless Steel. 2. Yes, flanges per the AWWA C228 standard will be allowed. However: <ol style="list-style-type: none"> a. All installation of flanges must be done in the fabrication shop; No field welding of flanges will be allowed. b. Flange thickness must be at least the same thickness as the pipe wall thickness (5/16-inch for 48-inch diameter stainless steel pipe). <p>See Addendum No. 2 for details.</p>
34	Clarification: Wage Rate Determination	See attached Wage Compliance Analysis for additional information regarding allowable wage rates.
35	Clarification: Train A/B Secondary Treatment Building walls containing insulation with Asbestos	See attached plan for additional information regarding which walls in the Secondary Treatment Building are known to contain insulation with an Asbestos component.
36	Specification Para. 2.03.B.4.a is clear that Sch. 80 PVC manifolds are required. However, the drawings show Sch. 40 PVC pipe required downstream of the SS drop pipes. Ref. 03M04.	The drawings should not call out the pipe schedule, only the material as PVC. Follow the manifold material called out in the diffuser specification (Sch. 80 PVC).



Reference drawing for elevation views on following page.

NOT TO SCALE

- GENERAL NOTES:**
- CONTRACTOR TO FIELD VERIFY ALL LOCATIONS AND DIMENSIONS.
- KEY NOTES:**
- INSTALL LOUVER IN EXISTING LOUVER LOCATIONS.
 - NEW BMU WALL TO REPLACE EXISTING AT EXISTING LOCATION. RE: STRUCT.
 - INSTALL NEW INTAKE LOUVER IN NEW BMU WALL.
 - NEW BMU SCREEN WALL, 12 FT. HIGH. RE: STRUCT.
 - APPROXIMATE LOCATION OF NEW CURBS AND ELECTRICAL EQUIPMENT. TYP. RE: ELECTRICAL
 - SHADING DENOTES NO ARCHITECTURAL WORK IN THESE FLOOR AREAS.
 - INTERMEDIATE BOND BEAM. RE: DETAIL 3 THIS SHEET FOR SECTION DETAIL.
 - TOP BOND BEAM. RE: DETAIL 3 THIS SHEET FOR SECTION DETAIL. SLOPE TOP TO DRAIN AWAY FROM BUILDING.
 - BMU PILLAR, FULLY GROUTED AND REINFORCED RE: STRUCTURAL
 - KING SIZE THIN BRICK SET IN FULL BED OF MORTAR ON TOP OF BOND BEAM.
 - REINFORCING STEEL AND GROUTING. RE: STRUCTURAL
 - EXTEND EXISTING 6" CMU WALL WITH GYPSUM BOARD ASSEMBLIES. REFERENCE DETAILS A916 & A920.
 - 11-1/2 BRICK MASONRY UNITS LONG TO FIT BETWEEN 15'-3"-58" (NOMINAL SPACING).
 - 11-1/2 BRICK MASONRY UNITS LONG TO FIT BETWEEN 15'-2"-18" (NARROW HEAD JOINTS AS NECESSARY TO COURSE).
 - FOAM FILL INDICATED MASONRY WALL FOR FULL LENGTH/HEIGHT OF ROOM. REFERENCE SPECIFICATION 07214.
 - 4" BMU RECESSED. REFERENCE DETAILS THIS SHEET
 - 6" BMU CUT IN HALF, LAID IN RECESS. REFERENCE DETAILS THIS SHEET.



A TRAIN A/B SECONDARY TREATMENT BUILDING ARCHITECTURAL FLOOR PLAN
SCALE: 1/8"=1'-0"
FILE: 9469B1002A0101-N.dwg

NEGRETE & KOLAR ARCHITECTS, LLP
www.nekoarch.com

<p>FINAL REVIEW SUBMITTAL NOT FOR CONSTRUCTION</p>		<p>DESIGNED bwm</p> <p>DRAWN bwm</p> <p>CHECKED JEA</p> <p>DATE SEPTEMBER 2015</p>	<p>This document is released for the purpose of information exchange review and planning only under the authority of Jason E. Anderson, P.E. (Texas License No. 87895) on September 21, 2015. It is not to be used for bidding, permit or construction purposes.</p>	<p>TBPE No. F-882</p>		<p>CITY OF AUSTIN, TEXAS SOUTH AUSTIN REGIONAL WWTP BLOWER IMPROVEMENT PROJECT ARCHITECTURAL TRAIN A/B SECONDARY TREATMENT BUILDING FLOOR PLAN</p>	<p>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p>	<p>JOB NO. 9469B.10</p> <p>DRAWING NO. 02A01</p> <p>SHEET NO. 84 OF XX</p>
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VERMICULITE FILL IN WALLS

SOUTH AUSTIN REGIONAL WWTP BLOWER PROJECT - SECONDARY TREATMENT BLDG.
96157637

COA REQ: 15194 (ASB)
15147 (LEAD)

South Austin Regional (SAR) WWTP Trains A & B Blower Replacement

Wage Compliance Analysis (CLMC573)

Currently the project is being solicited with Building Construction (BC) wage rates. A request has been made to evaluate the inclusion of the Heavy and Highway wage schedule to the following work activities:

1. Demolition work for Train A & B Aeration Basins
 2. The removal and replacement of ceramic diffusers
 3. Installation of a 48 inch pipe
-

SELECTING THE PROPER WAGE DETERMINATION(S)

Referring to the U.S. DEPARTMENT OF LABOR PREVAILING WAGE RESOURCE BOOK, DB WAGE DETERMINATIONS

Consider these three basic factors in selecting Davis-Bacon wage determinations:

1. Location

Travis County

2. Type of Construction –

Projects of a similar character:

DOL has distinguished four general types of construction for purposes of making prevailing wage determinations:

- a. building construction,
- b. residential construction,
- c. heavy construction, and
- d. highway construction.

All Agency Memoranda Nos. 130 and 131 provide guidance in the application of this policy.

3. Current Wage Determination(s)

Prior to selecting the appropriate “Wage Determination” the CCO Wage Specialist *conducts an analysis* and reviews the following:

- Project Manual
- Scope of Work (**Includes mostly building applications**)
- Pay Items (**Building Pay Items**)
- Project Location (**Water Treatment Plant**)
- Plans (**Plans identify the structure**)
- Site Analysis (**an on-site visit was conducted by Rick Wilson, Sam Hernandez, Baldemar Maldonado, with Steve Parks COA project manager providing a technical overview of the project**)

All Agency Memorandum No. 130 – “Application of the Standard of Comparison Under the Davis-Bacon and Related Acts” states:

“Definition of Building Construction:

Building Construction includes the construction, rehabilitation and repair of sheltered enclosures with walk-in access for the purpose of housing persons, machinery, equipment, or supplies. It includes all construction of such structures, the installation of utilities and the installation of equipment, both above and below grade.”

In the previous analysis of the entire project it was determined that it meets the definition of building construction; and therefore, only the Building Wage Determination was included in the solicitation.

In response to the request for further consideration to include the Wage Determination for Heavy and Highway, the “other characteristics of the project” were analyzed to determine if there is support for adding the Heavy and Highway Wage Determination for those specific parts of the project.

All Agency Memorandum No. 130 also stipulates the need to consider “**Other Characteristics of the Project**” as follows:

“It is also necessary to look at ***other characteristics of the project***, including the construction techniques, the material and equipment being used on the project, the type of skills called for on the project work* and other similar factors which would indicate the proper category of construction.”

Analysis:

1. **Demolition work for Train A & B Aeration Basins**

The demolition work will be followed by new construction; therefore, we cannot exclude Building Construction rates. Heavy equipment operators, cement workers, form builders, common laborers will be required to perform the work. Although both BC and

HH determinations include these classifications, the nature of the skills required are more characteristic of building construction. Also, the demolition work will be within the building structure.

2. The removal and replacement of ceramic diffusers

The use of power tools in construction excludes the common laborer classification, per DOL application of regulations. Installation of diffusers would require the use of power tools. The COA Wage Compliance program mirrors DOL enforcement as the established standard. This work could be performed by a laborer – pipelayer under the Building Construction determination. This work is also being performed within the confines of a structure.

3. Installation of a 48 inch pipe

This scope of work can be performed under the Heavy and Highway determination, as it is outside and extends beyond a 5 foot perimeter of any building or structure, and does not require the use of any specific skills unique to building construction.

Recommendation:

The Wage Compliance team recommends that both wage scales be used for this project. We further recommend that language be incorporated into the contract that specifically states only the outside pipe work will be covered by the Heavy and Highway wage scale.

Resources of guidance include, but are not limited to:

- *Code of Federal Regulations, Title 29*
- *U.S. Department of Labor Prevailing Wage Resource Book*
- *U.S. Department of Labor Field Operations Handbook*
- *All Agencies Memoranda*
- *U.S. Wage & Hour Division Senior Investigator Advisor, San Antonio*
- *Case Law*
- *Trade Organizations and Unions*