

QUESTIONS & ANSWERS #3

WQCF Sludge Thickener and Dewatering Unit No. 3 Project CIP 24006 & 24007

Q.3.1. Would the City consider an odor control system which utilizes a relay-based control panel and VFDs?

A.3.1. No.

Q.3.2. There is a detail referenced on the plans that I can't find. Could you forward me Carollo detail MA411.

A.3.2. Cleanout callouts in the drawings were updated to CY411 in Addendum 1. Refer to revisions to Typical Details in Addendum 3.

Q.3.3. Also detail CY411 please?

A.3.3. Refer to Q&A 3.2.

Q.3.4. Pipe Schedule shows for PD - Processed Drain Under 4" only PVC Sch 80 pipe, what are we to use for Larger than 4" sizes buried?

A.3.4. Refer to the revisions to Specification Section 15052 in Addendum 3.

Q.3.5. Pipe Schedule shows for UD 10" but, Pipe Schedule does not have this classification, can Engineer send spec data for UD 10"?

A.3.5. Refer to the revisions to Specification Section 15052 in Addendum 3.

Q.3.6. Can Engineer provide detail CY411 for Cleanouts, there is a City of Manteca detail for Cleanouts is this meant to be used for CY411?

A.3.6. Refer to Q&A 3.2.

Q.3.7. Can Engineer provide detail MA41 (Type)1, as shown on 07M201?

A.3.7. Refer to Q&A 3.2.

Q.3.8. Can we get this chart completed for the Sludge Blend Tank wall penetrations?

**WELDED SPLICE BAR**

LOCATION OF PIPE PENETRATION	THICKNESS OF ANNULAR RING "A"	WIDTH OF ANNULAR RING "B"

**NOTES:**

1. FIELD APPLY LINING AFTER WELDING IS COMPLETE.
2. CUT WALL REINFORCING THAT INTERFERING WITH PIPE. DO NOT CUT OR DAMAGE ANY OTHER BARS.
3. \* 0.40 "S" REINFORCING BAR RADIUS
4. E 70 ELECTRODE FOR GRADE 43 REINF. BARS, E 93 ELECTRODE FOR GRADE 60 REINF. BARS
5. SEE AWS D1.4 FOR WELDING PROCESS, PREHEAT REQUIREMENTS, AND OTHER DETAILS. SUBMIT WELDING PROCEDURE PER AWS.
6. USE FORMING SHEET OVER 1/2" ON BOTH WALL. FACES FOR ACCESS FOR VIBRATOR AND TO ALLOW CONCRETE TO BE PLACED UNDER SLIGHT PRESSURE. AFTER FORMS ARE REMOVED, REMOVE PROJECTING CONCRETE AND FINISH TO MATCH FINISH OF EXISTING WALL.
7. WATER CURE REPAIRED CONCRETE FOR MINIMUM OF 7 DAYS. KEEP REPAIRED AREA CONTINUOUSLY WET.

**MP532** WALL PENETRATION - EXISTING CONCRETE - STEEL  
**TYP** PIPE W/ REINF RINGS  
 SHEET 3 OF 3 12/01/22

A.3.8. Refer to revisions to Detail MP532/TYP in Addendum 3.

Q.3.9. In addition to former questions submitted on behalf of interested mechanical equipment vendors, we would also like to submit the follow questions/comments on behalf of Keaser Compressors regarding specification section 11372C - Rotary Air Compressor.

As the specification currently stands, Kaeser, the current OEM and basis of design, would need to take a blanket exception to the specification to be able to bid the supply of the compressors in a responsible fashion. Based on the mandatory pre-bid we do not believe this is the intended purpose thus we offer the following comments and requests to be able to replace the existing Kaeser compressors.

SECTION 11372C - Rotary Screw Air Compressor System

1.04 Submittals

Para. F - Owner training submittals - More information needed to be able to propose responsibly

A.3.9. Refer to Specification Section 01670 for Owner training requirements.

Q.3.10. 2.03 Design and Performance Criteria

Para A.4 - Air Dryers. Are the dryers supposed to be integrated into the compressor package (e.g. Kaeser SM10T) or are they to be furnished as stand-alone units? The current units have integrated dryers and that is what the specified model numbers would include. No additional dryers are required.

A.3.10. Refer to the revisions to Specification Section 11372C in Addendum 3.

Q.3.11. Para A.5 - Air Receiver. A standard 200-gal tank has a 200 psig working pressure. Why the need for 250 psig or higher working pressure, since the compressors' maximum working pressure is only 125 psig? Please elaborate and respond.

A.3.11. Refer to the revisions to Specification Section 15052 in Addendum 3.

Q.3.12. Para A.6 - Air Filters. If the compressor has a built-in dryer, there's no need for an "in-line interceptor" type, which is interpreted to be a centrifugal separator.

A.3.12. Refer to the revisions to Specification Section 15052 in Addendum 3.

Q.3.13. 2.04 Rotary Screw Compressors

Para 6.b. - Why the need for food-grade lubricant? Not needed in this instance; please remove requirement.

A.3.13. This requirement will not be removed.

Q.3.14. 2.05 Refrigerated Air Dryer - Is this needed as a standalone unit or shall it be integrated in the compressor cabinet? Is there a chance the client wants both for redundancy purposes? Please address.

A.3.14. Refer to Q&A 3.10.

Q.3.15. 2.06 Air Filters - see Para A.6 above.

A.3.15. Refer to Q&A 3.12.

Q.3.16. 2.08 Vendor Control Panels

Para A - General. The compressors (and dryers) come standard with their own control panels (HMI). Is the City/Carollo looking for an additional master control panel (such as Kaeser's Sigma Air Manager 4.0) to tie all the equipment together for a single point of connection for communication with the client's SCADA system? Please advise

A.3.16. The intent is to use the compressor's own control panel and not an additional master control panel.

Q.3.17. WQCF Sludge Thickener...Bid Set Plans RED:  
Drawing No. 07D501 and 07M501

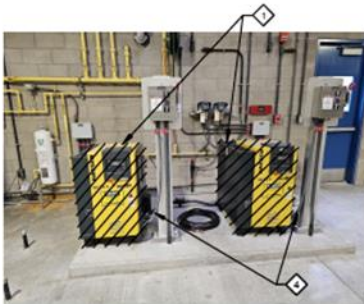
These pages suggest replacing old compressors with new compressors in the same location, but where would the separate dryers and tanks be located?

**GENERAL NOTES:**

1. REFER TO THE GENERAL DEMOLITION NOTES ON DRAWING 000001.
2. THIS DRAWING HAS BEEN REDUCED TO APPROXIMATELY 75% OF ORIGINAL SIZE.

**KEY NOTES:**

1. REMOVE EXISTING COMPRESSORS AND TRANSFER TO OWNER FOR REUSE.
2. REMOVE BRANDED SS SUPPLY HOSE AND REPLACE WITH NEW.
3. DISCONNECT CONDENSATION DRAIN ON EACH COMPRESSOR AND PROTECT IN PLACE FOR REUSE WITH NEW AIR COMPRESSORS.
4. CAREFULLY DISCONNECT POWER SUPPLY AND PROTECT FOR REUSE WITH NEW AIR COMPRESSORS.



1 PHOTO  
SCALE: NO SCALE  
FILE: 202646\_05D402.jpg



2 PHOTO  
SCALE: NO SCALE  
FILE: 202646\_05D402.jpg

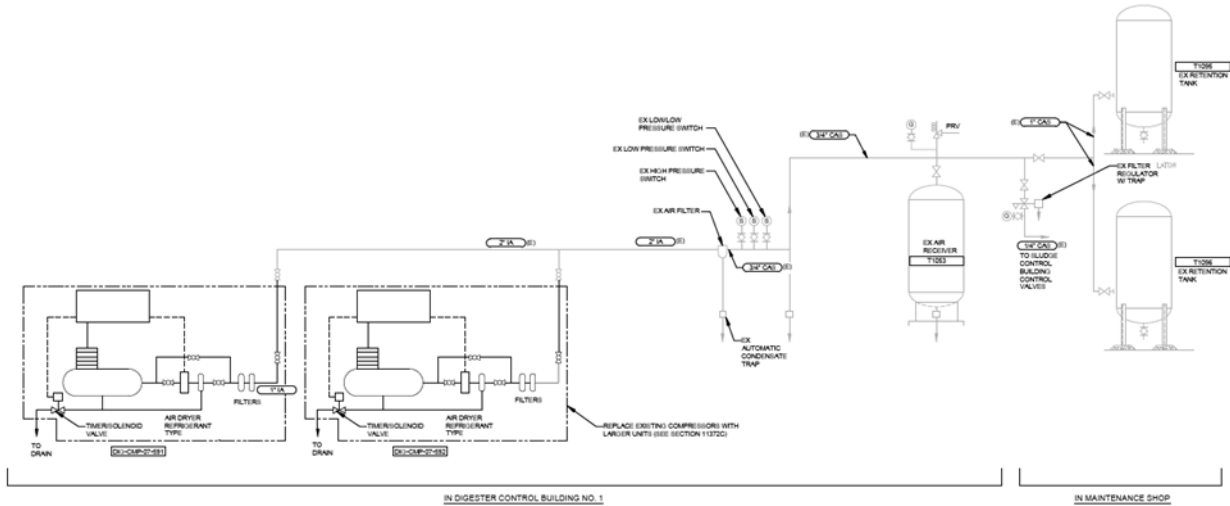
A.3.17. Refer to Q&A 3.10 and 3.11.

Q.3.18. Drawing No. 07M502:

Need clarification on the items shown inside dashed boxes DIG-CMP-07-591 and -592.

What is the "EX AIR FILTER" and associated "EX AUTOMATIC CONDENSATE TRAP" downstream of the two compressors?

Should compressor manufacturer propose one (1) receiver tank, T1053, or also tanks T1095 and T1096? If all three, are they all the same size (200 gal.)?



A.3.18. It is unclear what needs clarification inside of the dashed boxes or what information is needed for the existing air filter and automatic condensate trap. For the air receiver tank, refer to Q&A 3.11.

Q.3.19. The pipe schedule calls for RMJ or RPO for buried ductile iron piping. I don't find a spec for MJ joints in the ductile iron spec section. Will MJ fittings with wedge restraints such as Sigma One-Lok or Ebaa Iron Mega Lugs be allowed? If MJ fittings are allowed, can they be AWWA C153 compact and/or AWWA C110 full body?

A.3.19. Refer to the revisions to Specification Section 15052 in Addendum 3.

Q.3.20. Now that addendum #1 has been issued with new drawings, replacements drawings etc.. can you please provide a revised drawing index?

A.3.20. Refer to the revisions to the drawing index in Addenda 1 and 2.

Q.3.21. Specification Section 15814 FIBERGLASS REINFORCED PLASTIC DUCTWORK  
Part 2.02 SECTION A - Comment; Perry Fiberglass Products, Inc. is an established manufacturer of FRP ductwork. meets the specification.  
Question: Can Perry Fiberglass Products, Inc. be added as a named supplier?

A.3.21. Refer to Q&A 3.26.

Q.3.22. Specification Section 11395A PACKAGED ODOR CONTROL SYSTEM  
Part 2.01 SECTION C - Comment; Perry Fiberglass Products, Inc. is an established manufacturer of odor control systems. Perry meets the specification.

Question: Can Perry Fiberglass Products, Inc. be added as a named supplier?

A.3.22. Refer to Q&A 3.26.

Q.3.23. Spec 15052, 3.01, F allows the use of mechanical restraints at buried valves and fittings. The pipe schedule in Spec 15052 also allows restrained mechanical joint fittings. Spec 15211, 2.04, B, 3, b says that restrained push-on joints of the configuration which utilizes a gripping or friction force for restraint will not be acceptable. Please confirm that mechanical joint fittings/valves may be restrained with wedge action retainer glands

A.3.23. Refer to the revisions to Specification Section 15052 in Addendum 3.

Q.3.24. Spec 15211, 2.04, D calls for AWWA C110 fittings. Please confirm that C153 MJ fittings will be and acceptable alternative for buried fittings.

A.3.24. AWWA C153 fittings will not be allowed.

Q.3.25. Due to the significant scope of Addendums 1 & 2 and the late inclusion of electrical drawings and specifications, we respectfully request a (2) week extension to the bid date to ensure contractors have enough time for a thorough and responsible bid.

A.3.25. No extension.

Q.3.26. Sometimes engineers are not aware of direct competitors on various equipment, and end up mistakenly sole sourcing a piece of equipment.  
Phi is a direct competitor to Enviromix on your project. We would like to offer our scope and pricing, but wanted to make sure that this was something you were looking for competition on.

A.3.26. Refer to project specifications Section 00100 Instructions to Bidders Item 18.

Q.3.27. We need to get Seepex as the named manufacturer for the Progressing Cavity Pumps for this project.

A.3.27. Refer to Q&A 3.26.

Q.3.28. In Addendum #1, Section 13122.2.01.A.1 was revised to remove Behlen Building Systems, a metal building manufacturer, and LGM Construction, which is a General Contractor not a building manufacturer, was added. Please clarify why a General Contractor was added to the list of "manufacturers".

A.3.28. Refer to the revisions to Specification Section 13122 in Addendum 3. LGM Construction has been removed from listed manufacturers. Behlen Building Systems has been added back as a listed manufacturer.

Q.3.29. Section 13122.2.02.A.3, calls for the rise of the roof slope to be measured on a 24" horizontal distance, the common industry practice is to measure the rise of the roof slope on 12" horizontal distance. Please confirm that this is acceptable

A.3.29. Refer to the revisions to Specification Section 13122 in Addendum 3, Acceptable.

Q.3.30. Section 13122.2.02.B.1.a, advises that in addition to the IBC, the design is to be based on the requirements listed in the Metal Building Systems Manual. Please see that attached MBMA preface, in the second paragraph it advises that the MBMA manual now focuses on how to apply the loads specified in the IBC and ASCE 7. Therefore the design shall be based on the 2022 California Building Code as specified in the design criteria on sheet 00GS001.

A.3.30. It will be noted design shall be based on 2022 California Building Code.

Q.3.31. Section 13122.2.02.B.2.a.2, requests that the loading for the building to include overhead pipe support and monorail crane system. Please provide loading for these items. For the overhead pipe support systems please provide either a specific point load that will be required at each connection to the building or a PLF load, please be sure to account for the weight of the material that the pipes will carry. For the monorail crane system please provide crane data sheet.

A.3.31. The overhead pipe weights listed below are for foul air and pipe material is FRP. The support spacing for these pipes shall be as indicated in section 15814. The monorail crane system is a delegated design and all requirements for the crane are listed in section 14624.

- a. 6-inch Ø pipe = 3.5 lb/ft
- b. 8-inch Ø pipe = 4.5 lb/ft
- c. 14-inch Ø pipe = 8.0 lb/ft
- d. 16-inch Ø pipe = 9.0 lb/ft

Q.3.32. Section 13122.2.02.B.2.b.2, requests that the roof panels are to be designed to be designed to be solar-ready for future installation. Please confirm that the 10 psf collateral load listed in section 13122.2.02.B.2.c takes into account the weight of any future solar system. If it does not, please advise what the collateral load needs to be revised to for this future application.

A.3.32. It is confirmed the collateral load listed accounts for future solar systems.

Q.3.33. Section 13122.2.02.B.2.d.3, request that the auxiliary loads be considered a live load, see attached 2022 California Building Code definition of a live load. Auxiliary loads do not fit this definition; therefore, these auxiliary loads cannot be considered a live load. Please confirm acceptance of this.

A.3.33. This is confirmed. Refer to the revisions to Specification Section 13122 in Addendum 3.

Q.3.34. Section 13122.2.02.B.3.a.2 request that the drift be measured at the ridge of the building, the common industry standard is to measure the drift at the eave of the building, is this acceptable?

A.3.34. It is acceptable to measure drift from building eave. Refer to the revisions to Specification Section 13122 in Addendum 3.

Q.3.35. Section 13122.2.03.B.4 requests that the secondary be factory pre-punched for panel connections, this is only available from Butler Manufacturing, all other manufactures use self drilling fasteners for panel to secondary attachment, please confirm this is acceptable

A.3.35. It is acceptable to provide self drilling fasteners for panel to secondary attachment.

Q.3.36. Section 13122.2.03.C.3 requests that the roof & wall panels be factory pre-punched for fastening, this is only available from Butler Manufacturing, all other manufactures use self drilling fasteners for panel to secondary attachment, please confirm this is acceptable

A.3.36. It is acceptable to provide self drilling fasteners for panel to secondary attachment.

Q.3.37. Section 13122.2.03.D.5 requests that all of the bolts furnished for the project to be shall be a single size & grade. Size and grade shall be as required by PEMB in order to accommodate the loads. Please confirm this is acceptable.

A.3.37. Statement is acceptable for size and grade of all bolts to be as required by PEMB.

Q.3.38. Section 13122.3.02.B.2 calls for grouting under the column baseplates, there is no grout shown on detail 5 on sheet 07S206, if grout is required for the canopy columns please advise on the thickness.

A.3.38. Refer to the revisions to Specification Section 13122 in Addendum 3 for grout thickness.

Q.3.39. Sheet 07S201, polymer tote bldg., is lacking several dimensions in order to determine layout, see attached Polymer tote bldg. plan and advise if those are dimensions are correct.

A.3.39. The included dimensions are correct for the polymer tote building.

Q.3.40. Sheet 07S202, shows the framing requirements for the mezzanine, please advise if this framing will be installed prior to framing for the PEMB canopy building.

A.3.40. The canopy framing and mezzanine framing are supported separately from each other. The construction sequence for this area is up to contractor to determine.

Q.3.41. Sheet 07S203 shows a W12x40 monorail crane beam, provide the crane data sheet so that the PEMB manufacturer can size the required crane beam, in addition please confirm that the crane beam is to be centered on the building width.

A.3.41. The monorail system is a delegated design item. The required crane beam shall be designed for the selected monorail equipment as required per section 14624. The crane beam shall be centered on the building width as shown on sheet 07S203.

Q.3.42. Sheet 07S205, please provide the minimum clearance required to the underside of the monorail crane beam, as this will determine the eave and ridge height of the canopy bldg.

A.3.42. A 3-foot clear distance from the top of equipment to the bottom of monorail lifting hook is required. Contractor shall coordinate the canopy eave and ridge heights with the selected monorail system to meet this required clear height.

Q.3.43. Sheet 07S205, please advise what the horizontal dimension is at the top of the guard rail, and provide how much drift will be occurring at this elevation as this will impact the profile and drift requirements for the canopy building so that the two systems do not come in contact with each other. This may impact the deflection limits called for in section 13122.2.02.B.3.a.2

A.3.43. The horizontal distance from grid line A to center of the guardrail is 14 inches. The calculated platform drift is 0.2-inch.

Q.3.44. Sheet 07M206, what is the distance from grid line "A" to the center of the 16" diameter FA pipe?, this will impact the frame profile.

A.3.44. The distance from grid line A to center of 16-inch  $\emptyset$  FA pipe is 2'-7". Final routing of piping for the canopy shall be coordinated with equipment manufacturer for support locations.

Q.3.45. Seeking "Approved Equal" status to offer manufacturer ABB for Sections 2.11, 2.12, 2.13, and 2.15 under Section 17100.

A.3.45. Refer to Q&A 3.26.

Q.3.46. Evoqua requests to be able to bid their ZABOCS unit which meets the treatment requirements of the specification and provides the most cost-effective option and most competitive against other named suppliers for this section.

A.3.46. Refer to Q&A 2.3.

Q.3.47. PPG Protective Coatings Engineering are specified at section 09960 High-Performance Coatings but are not included in the 09968 - CONCRETE REPAIR AND COATING in PART 2.02 MATERIALS. PPG Protective Coatings Engineering request approval prior to the bidding so prospective contractors can bid out products as well.

A.3.47. Refer to Q&A 3.26.

Q.3.47. Spec section 00700 12.01.C.2.b states that the Contractor's fee shall be five percent, but then notes 15% in parenthesis. Please confirm the fee for this section.

A.3.47. Refer to the revisions to Specification Section 00700 in Addendum 3.

Q.3.48. Could you please clarify if a bidder is allowed to submit a prime bid and also submit subproposals to the field of other prime bidders for the same project under Instructions to Bidders Section 19.00?

A.3.48. This is correct.