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September 9, 2021

ADDENDUM NO. 5

Oxnard Wastewater Treatment Plant Reliability Improvements Project

Specification No. PW 20-27

BID DUE DATE: 2:00 pm on **September 28, 2021**

TO ALL BIDDERS:

Acknowledge receipt of this addendum by enclosing one signed copy with your bid documents. Failure to do so may subject the bidder to disqualification. This addendum forms a part of the Contract Documents as follows:

- A. **Bid Due Date:** The Bid Due Date has been changed. The City will receive Bids at Oxnard City Hall, 300 West Third Street, Fourth Floor, Oxnard, California 93030, attention: City Clerk, until 2:00 p.m. on **September 28, 2021**. There will be a public teleconference bid opening immediately afterwards. The number to join the call is (617) 675-4444 and the pin number is 636 010 142 1202#.
- B. The following as-built drawings are provided with this Addendum and are hereby incorporated into the Contract Documents:
 - 1. Oxnard Wastewater Treatment Plant Interstate Pump Station and Digester No. 1 Improvements record drawings dated 5/10/96 consisting of 26 pages.
 - 2. Oxnard Wastewater Treatment Plant Headworks Project drawings dated July 2003 consisting of 298 pages.
 - 3. Oxnard Wastewater Treatment Plant Emergency Standby Power Generator Project record drawings dated 10/20/03 consisting of 8 pages.
 - 4. Oxnard Wastewater Treatment Plant Effluent Pump Station Improvements record drawings dated 4/13/98 consisting of 26 pages.

C. The City has received requests for information (RFI) on this project. The RFI and City responses are below:

Item No.	Request for Information	City Response
1	At the job walk on 7/20/2021, it was stated that there will be a notification in the upcoming addendum #2 about the project funding. It was mentioned that there will be State Revolving Funds. With this funding, will there be any "Buy America" or "AIS" requirements for the steel materials on this project? Please clarify.	AIS is required for this project.
2	The Bid Sheets for the project, B-5, of the "PW 20-27 OWTP Reliability Bid Package FINAL" specification, indicate descriptions for bid items B-1, B-2, and B-3. However, B-4, B-5, B-6, and B-7 do not list descriptions. What are these bid items for? Please clarify.	Bidders are instructed to discard pages B 3 through B 10 provided with the Contract Documents and replace them with the attached pages Revised B 3 through Revised B 10.
3	Notice Inviting Bids, (NIB-2) states that the Contractor must complete all work within 750 Working Days from the City's notice to proceed. This would equal 1,050 Calendar Days. However, the chart provided in 01014-13 sections 3.02, indicates multiple substantial completion and final completion dates for each project (A,B,C,D). None of these timelines equal the 1,050 days. Can you please clarify what the actual final completion days are and whether they will be in Working Days or Calendar Days? Please clarify.	750 Working Days for the entire project is correct.
4	Section 3-2 of the General Provisions states that the Contractor shall perform 50% of the contract price "except that of any Specialty Items". It then says to "See Special Provisions for work that will be considered "Specialty Items". We cannot seem to find this indication. Can you please clearly define what classifications of work are assumed to be Specialty Items for this project?	There are several subcontract requirements for specialty services, including site security, SCADA software development and others. The intent is that of the remaining work, the Contractor shall self-perform at least 50 percent with its own forces.
5	Spec. Sect. 05500-2.15 & -3.03 require welded aluminum handrail. Spec. Sect. 05520-2.01 list CV Pipe Rail, Wesrail, or equal. Both listed systems are component type. Please confirm that component systems are acceptable.	Component type are acceptable.
6	On drawing number RE-IM-04 (Sheet 4), there is a note stating that the construction gate to the site is to be monitored by a security guard hired by the Contractor. To confirm, is this security guard service to be only during the "hours of construction activities"? Or will this service be a 24hr/day service? Please clarify.	Security service to only be during the hours of construction. It is the Contractor's responsibility that the gate is closed when security is not present. Security shall be maintained if fencing is not secured outside of normal construction hours.

7	<p>The Ventura County Railway that splits the site is clearly shown on multiple drawings. Such as RE-IM-04 (Sheet 4), G008 (Sheet 108), and C-06 (Sheet 409). There does not appear to be any specific language about this in the specifications or on the drawings. For example, will there be any special railroad insurance, permitting, sequencing, milestones, railroad safety flagging by railroad entity, or encroachment requirements, etc. to be borne by the Contractor? Please clarify.</p>	<p>All Work is to be done within City property. Coordination with the County Railway is not required.</p>
8	<p>Project A, Dwgs. C11, C15 thru C19, & C21 show over 200 hundred trees being removed for new Security Fence installation. Reference is made to Note 6/C11 in all cases. Note 6 refers to trees along Perkins Rd. Note 6 says to trim trees outside and inside of the exist. fence and only remove inside if required for fence install. None of the 200 trees previously mentioned are along Perkins Rd. Dwg. C11 also has a Tree Removal Table which list as many as 285 trees being removed. It is unknown where these trees are located. Tree removal is expensive particularly when removing trees of this size, some up to 48". For bidding purposes should Contractors include removal of 285 trees per the table or the 200 shown and assume trimming everywhere else? Something quantifiable is needed.</p>	<p>This item is considered a lump sum task. Unit costs will not be required. The Contractor may inspect conditions at the plant at the times specified for site visits.</p>
9	<p>Bid Item D-12 - Electrical/Instrumentation (referenced on Bid Sheet B 8) is not listed under Specification Section 01150. Additionally, items D-2, D-8, D-9 and D-10 make mention of electrical related work within their respective descriptions. Is the intent is to carry the electrical related work in items D-2, D-8, D-9 and D-10 (not in item D-12), or should all of the electrical work for these items (D-2, D-8, D-9 and D-10) be carried in item D-12?</p>	<p>Bidders are instructed to discard section 01150 provided with the Contract Documents and replace with the attached Revised Section 01150.</p>
10	<p>Add. 2, Exh. B, pg. 26 shows \$9.5 mil. \$4.7 for Elec. Bldg., \$1.5 for Generator, & \$3.3 for SCADA. First 2 would be Project B And 3rd Project C (not sure about MCC Replace. portion).</p>	<p>This is funding and not related to the actual bid cost.</p>
11	<p>Specification 11532 describes the work required for the rehabilitation of the existing chemical wet scrubber. Please provide the original approved product submittal dated August 2005 so that we may better understand the general arrangement of the existing scrubber.</p>	<p>The equipment is a standard model of the supplier. The scope is very detailed in this specification. Additional information will be provided after the award of the Contract.</p>

12	<p>Addendum #2 gave information regarding the Funding terms for the project. Specifically, in Exhibit B there is mention of the estimated cost for the total project at \$9,500,000.00. It further breaks this cost into specific categories. Is this project total for only one of the Projects? (A,B,C, or D?). Or is this for the entire project. The purpose for this question is, as should be assumed, the "overall" project will be much greater than \$9,500,000.00. Is there enough funding for all projects out to bid? (A,B,C,&D?). We know it was verbally announced at the pre-construction meeting that the City does not have an Engineers Estimate. We would formally request at least a budgetary number be provided to Contractors before they expel company costs to estimate such a decent sized project. Can you please clarify if funding is available for all the projects? And can you please provide a rough total budget amount the City is working with?</p>	<p>The funding terms are for specific grants that only apply to a portion of the projects. The City has obtained State Revolving Fund authorization and has cash on-hand to fund the entire contract.</p>
13	<p>Addendum #2 gave information regarding the Funding terms for the project. Specifically, in Exhibit B there is mention of the estimated cost for the total project at \$9,500,000.00. It further breaks this cost into specific categories. Is this project total for only one of the Projects? (A,B,C, or D?). Or is this for the entire project. The purpose for this question is, if this is in fact only for a single project like A or C. Or even A and C. Will the AIS and DBE requirements be for all projects, or just those associated with the funding. This could provide cost savings to the City if for example the funding only applies to Project A. If B,C, & D are not included in the funding they would not be held to AIS requirements and this could be a decent cost savings. Please advise if the AIS and DBE is required for all projects and if not, which projects.</p>	<p>AIS and DBE requirements shall apply to all projects.</p>
14	<p>Project "A", SHT C6A-95, Note #7 calls for a ductile iron, 6" FDC however, the model number specified – 5761 – is for a 4" unit. This particular model may not be available in ductile iron per my overview of the Potter Roemer site. Additionally, this assembly is designed to be mounted on a vertical pipe, which will not allow for an additional check valve to be placed as it is shown in the profile below on this same page. Please revise the information relating to the FDC. If allowed by the manufacturer, will the city allow the check valve to be installed vertically?</p>	<p>Model 5763 shall be used. It shall be brass construction for indoor use.</p>
15	<p>Project "A", SHT FP3-95, DTL 1 & Project "B" F501-159, DTL 6 – which of these details are to be used for fire water risers to buildings? Is it the City's intention that they be built differently for each project in which they are specified/shown? Please confirm fire water riser detail to be used/referenced.</p>	<p>Detail 1 on drawing FP3 in Project A shall be used throughout.</p>

16	Section 11381- Anaerobic Digester Equipment. Paragraph 2.03.F- Please add WesTech as a manufacturer for the Gas Circulation System. WesTech has produced and supplied this type of equipment for over 25 years. They have no comments or exceptions to the specification. Further, WesTech is a named manufacturer for the sludge heat exchanger of Section 11699. Adding them to Section 11381 will remove the bidding disadvantage they would have due to packaging of the two sections by others.	Bidders are instructed to discard section 11381 provided with the Contract Documents and replace with the attached Revised Section 11381. WesTech has been added as an approved supplier to this Revised Section 11381.
17	In addendum no. 2 there is mention of funding by CWSRF however, I can find no other supporting AIS documentation. Will that documentation follow, or can it be downloaded from within the published documentation for this project? Please provide the relevant documentation regarding domestic materials under "SRF"	AIS documentation is provided in Appendix D of Addendum 2.
18	Contract "A": 6" Fire PVC fire line (SHT C6-95) – I can find no information in the published project spec, nor within the published City spec regarding restraints for C900 piping. It will be needed for the joints running between fittings.	C900 pipe is specified in Section 02623 and thrust block details provided on City Standard Detail, Plate 320.
19	Contract "A": 4" SDR35 (SHT C6-95) – I cannot find this material within the published project spec, nor within the published City spec. While SDR35 is self-explanatory as being (D3034), are there to be gaskets joints or solvent weld joints? For the transition to S80 PVC, can this be a solvent weld adapter or a elastomeric coupling (Fernco-style)?	Gasketed joints above 2".
20	Contract "A": 12" and 15" unidentified "SD" pipe (SHTs C6-95 + C6B-95) – I was not able to determine the materials for these lines	Storm Drainage Piping is specified in Section 02630
21	Contract "A": Tracer wire - (SHT C6A-95) calls out for 8 gauge, the Published City spec calls for 12 gauge (for water), while I can find no requirement for tracer wire listed in the published project spec.	Provide 8 gauge wire as shown for this project
22	In contract "D" (SHT M-39) there is an 8" swing check valve listed as V89 – I was not able to find this valve within the published job specs. (I looked also in 11699). Have I overlooked it?	Bidders are instructed to discard section 15101 provided with the Contract Documents and replace with the attached Revised Section 15101.
23	In contract "D" the 3-way FCV (SHT M-39) is listed within spec section 11699 – does this imply that it is supplied by the heat exchange system supplier or is this replacement valve supplied by the Contractor?	It is included in Section 11699. Scope of supply should be determined by the supplier and Contractor.
24	Please clarify the information needed on the bid items. Some of the Bid items have quantities; Are we to calculate unit prices and use the given quantities to come to a total price or should we price the item per our estimated quantities?	Unit Price for each unit, then extended for full quantity. Unit price items are defined in Revised Section 01150.

25	For bid items that have quantities, are we to provide the unit cost for the quantity shown or the unit of the shown quantity? For example bid item A-7 has 1,600 square yards of pavement. Is this asking what the cost is per 1,600 square yards or per 1 square yard?	Unit Price for each unit, then extended for full quantity. Unit price items are defined in Revised Section 01150.
26	Please provide the Geotech report from AECOM	This report was provided as part of bid documents and is posted to the Cybercopy plan room.
27	Spec 16080 3.05B(1): Specification section 16080 states that 600V Insulation resistance testing is to be done by third party testing Contractor. Can this work be performed by the installing Contractor, as this is typical testing performed during installation.	Installing Contractor may perform 600V insulation resistance tests in lieu of the third party testing Contractor.
28	Drawings E502 & E503: Please clarify tagging of outdoor switchgear. Drawing E502 shows PSG-XFMR-1A/1B. Drawing E503 shows USS-XFMR-1A/1B.	Change USS-XFMR-A/B on E503 to PSG-XFMR-1A/1B to be consistent with E502.
29	Please provide make and model of MCC-GE and MCC-GB.	MCC-GB and MCC-GE are Federal Pacific Class 5310.
30	E131: Drawing shows an RTU cabinet NW corner of building. Is this a PLC panel? If so please provide details.	It is 15-ICP-SGR per Project C.
31	E111: Spare 125HP VFD shown as external, please confirm.	It is not external. It is MCC construction and connected to MCC-ND via a transition section.
32	Project A & B: Light fixture part numbers appear to not line up with vendor cut sheets. Please confirm part numbers.	Question is not clear. No vendor cut sheets are shown on contract drawings.
33	G002: Temporary equipment does not have a spec. Do these panelboards and starters need to be new equipment?	No.
34	G002: Temporary feeders also have no specification. Can these cables be aluminum?	Yes.
35	E502: To clarify. All equipment above the "SCE Demarcation" line will be not be the responsibility of the Contractor?	The only equipment is the transformers which are by SCE. Conduit is by Contractor and wire is by SCE per conduit schedule. Grounding is by Contractor.
36	Bid Items: Project B's bid items do not have an area to include the costs for the majority of the work. Should we add these costs to one of the other bid items listed?	Bidders are instructed to discard section 01150 provided with the Contract Documents and replace with the attached Revised Section 01150.
37	E3: Please clarify is lighting panel LP1 and transformer T-LP1 are existing.	Panel LP1 and T-LP1 are new. Entire building including these items are new.
38	I7-I37: Project C. Please confirm that all equipment and devices below "Existing, UNO" line are existing. Most of these items are not shown in grayscale.	Confirmed. All is existing unless noted.

39	Project D - Dwg M-02 shows a plan called 3W Pipe Bypass Line. Please indicate where the closes valve shall be located to shut down the 3W line since there is no reference dwgs to look upon or a demo dwg shows what happens in the Chlorination Room. Please clarify	This is 3W piping which is de-energized at the 3W pumps at the EQ basin.
40	What is the duration (maximum number of days) from Bid day to contract award?	90 Calendar Days.
41	What is the duration (maximum number of days) from Bid day/contract award to NTP?	30 Calendar Days.
42	Per Dwg C3 at Fire Hydrant calling out Detail 4 / C-5A, what is the size of these Removable Bollards?	Detail 4/C-10 in Project D shows removable bollards at 4" diameter, 3 feet tall.
43	Per E401 at Generator Platform, Detail 1 / E401 shows Pre-fab AL Stairs. However, Detail 3 / E401 shows Prefab Galv Stairs. Which one is correct?	Stairs and platform shall be prefabricated aluminum.
44	For the Roof Access Ladder Platform at Digester Bldg per 8 / S221, the diagram shows a Grating but the description shows "Tread Plate". Which one is correct?	It is a stainless steel tread plate.
45	At Project D for Bollard Detail 2 / C-10, does it have an occurrence in any area?	Removable bollards are required at chemical scrubber, shown on S-10.
46	At Project D, Detail 1 / S-17 shows a Stud / Machine Bolt config for Grating attachment. In our past projects, this config has been difficult to shop weld to ensure the studs will be centered between the Grating Bars. They often need to be cut off in the field for re-welding or shipped loose for field welding. Is it acceptable to use Self-drilling screws? If not, Struct-Fast (www.structfast.com) offers alternative types of grating clips that eliminate the need for field welding. If either of these alternative config is acceptable, it will save the cost for field welding of studs in between bearing bars.	Alternative grating clips are acceptable.
47	At Project D Digester 2, what is the Material for the Base PL3/4 x 12" x 12" per Det 6 / S-15?	Plate is A36 steel, coated with eductor support.
48	At Project D Digester 2, Note 25 / M-33 shows the SS Cover PL is Steel PL 0.5" Thick. However, Detail 3 / S-13 shows this PL is 1.5" Thick Steel. Which one is correct?	Spec Section requires this plate to be designed by the gas mixing equipment supplier, minimum 0.5 inch thick steel reinforced.
49	At Project D Digester 2, for the Control Panel Sunshade per 5 / M-42, how many are there? Also, could you confirm the Roof Bent PL1/2" is the true designed thickness?	One sunshade is required for the new odor control equipment LCP. Plate thickness is correct as shown.
50	Could you send us a Plan Holders List for this bid?	The Plan Holders List is located on the Cybercopy Plan Room.
51	Is noise attenuation required for the adjacent housing development to the west?	Bidders are instructed to discard section 01560 provided with the Contract Documents and replace with the attached Revised Section 01560.

52	Do chippings from removed and trimmed trees need to be removed from site?	Chippings to be removed from site.
53	Does the weather station near the new maintenance building need to be protected in place?	The weather station needs to be moved per drawings.
54	Will flood control grant access for the fencing?	Assume access from the plant side. Minimal access is available, however storage is not allowed.
55	Are as built drawings available for the two buildings to be demolished?	No as-builts are available.
56	Can you confirm the trees to be trimmed vs. removed?	C11 specifies trees outside of the fence to be trimmed.
57	Digester No. 2 heat exchanger piping calls for hot water pipe insulation but no spec is included.	Insulation shall be manufacturer standard for heat exchanger.
58	Alternative Bid for Bar Screen Covers - It does specify if the bid item is for procurement and installation or procurement only.	Item is an allowance for procurement and installation.
59	Odor control design calls for reuse of existing pipe supports, this might be an issue with rfp pipe. To avoid conflict can replacement be specified?	Assume that existing supports can be reused. If determined in the field to be unusable, this will be addressed as a contract change.
60	Headworks concrete repair does not specify depth. Typically repair is reassessed when rebar is hit, please advise.	Depth of repair is shown in Project D, Detail 1/S-06. Assume concrete cover over rebar is 2".
61	No quantity has been provided for crack ignition. Please provide quantity in linear feet.	All crack repairs shall be included in unit pricing for Bid Item D-5.
62	Will the City of Oxnard award individual projects to different Contractors if they are the low bidder for that specific project or will this contract be an all or nothing award of all four projects? For example one Contractor being awarded project A, another Contractor awarded project B, etc.	No. The overall low bidder will be awarded for the entire package.

63	<p>Plan Sheet C-24 includes NOTE 4 which reads: "GREEN PRIVACY SCREEN TO MATCH EXISTING. FASTEN PRIVACY SCREEN TO FENCE WITH 3/8" BRASS GROMMETS AT 24" ON CENTER. ATTACH TO FENCE WITH FASTENERS.</p> <p>PRIVACY SCREEN TO BE COATED WITH ANTI-GRAFFITI COATING". Review of Project Technical Specifications did not include reference to an Anti-Graffiti coating specification. In broad terms there are two different types of Anti-Graffiti coatings; sacrificial and non-sacrificial. Sacrificial coating dissolves during graffiti removal, requiring re-application. Non Sacrificial does not dissolve Further there are different levels of sheen to the Anti-Graffiti coatings, gloss, semi-gloss, low sheen and flat. Attached are a copy of Note 4 from Plan Sheet C-24, and Product data for the two (2) different types of Anti-Graffiti coatings, available from Dunn-Edwards Paint Company.</p>	Provide sacrificial coating, semi-gloss coating.
64	<p>Spec 16361, paragraph 2.02(K); Technical Specifications Section 16361, Paragraph 2.02.K calls out for an Arc Quenching Device that must be integral to the LV Switchgear Line Up. This paragraph describes the method of installation and operation of the EATON Arc Quenching Device. We would like to know if the District will accept the solution provided by ABB. ABB uses the Fixed Mounted UFES + QRU1 devices, both installed in the MV Switchgear Line Up. The UFES does interface with the Arc Flash Detection Relays installed in both the MV and LV Line Ups to offer a reduction of Incident Energy when a fault occurs</p>	The ABB proposed solution is acceptable.
65	<p>For the collection and removal of the existing chain link fencing, will there be two or three locations on the Project site where a 40 yard roll off bin may be placed? Please advise.</p>	Refer to the laydown area map provided in the drawings.

66	<p>Specification Section 2820 CHAIN LINK FENCES AND GATES, Subsection 2.02 FENCE FABRIC, paragraph E. Vinyl Coating: Paragraph E begins with the following written statement: "The chain link fabric shall be provided with a bonded vinyl coating. The coating shall be Forest Green as selected by the Owner." Availability of Forest Green Chain Link Vinyl Coating has become a concern as manufacturer Master Halco has suspended manufacture of Forest Green Vinyl until January 2022. Attached to this Request for Information is a copy of the June 23, 2021 Memo Fence Factory received from Chain Link Manufacturer Master Halco. Mid point in the Memo Master Halco announces suspension of manufacture for green and brown vinyl coated fencing until January 2022.</p>	<p>No change. Fencing will not be required until mid 2022.</p>
67	<p>Specification Section 2820 CHAIN LINK FENCES AND GATES, PART 2 - PRODUCTS, Subsection 2.01 SYSTEM DESCRIPTION, paragraph B reads: "The Contractor shall furnish and install 6 foot high chain link fence with three (3) strand barb wire and all fence posts, rails, bracing along the perimeter of the project site prior to removal of the existing fence." CLARIFICATIONS: 1. Is it acceptable to the City of Oxnard for the Contractor to erect temporary construction fencing with barb wire in production related increments, assuring sound security in a given predetermined segment (i.e. 300 linear foot to 1,000 linear foot segments) or will the requirement be to fence the entire perimeter prior to removal of existing fencing? 2. In the spirit of economy may the County's chain link fence along the Flood Control Channel (west side of the Project) serve the purpose of temporary construction fencing? Access for installation of temporary fencing between the two parallel fence footprints adjacent to the flood control channel is minimal, potentially placing the temporary fencing west of the County's fence. 3. At the Northern boundary (shown on Plan Sheet C-22) fencing identified for replacement is located in a landscape area heavily planted with mature shrubs ranging from two to eight (2 to 8) feet tall along the northern neighboring business side of this fence. The concern is for installation of temporary construction fencing in this area.</p>	<ol style="list-style-type: none"> 1. Temp fencing to be limited to 300 feet at any time during fence construction. 2. Assume new temporary fencing is required. 3. Assume temporary fencing is required, and positioned to avoid damage to trees that will be retained.
68	<p>Project D drawing M-06 partial assembly schedule 1 refers to a 4" PVC 90 bend and pipe. Drawing M-07 refers to the same PVC pipe and fittings as size 6". Please confirm which size is correct 4" or 6" PVC pipe and fittings.</p>	<p>PVC pipe is 6-inch diameter.</p>

69	Project D drawing M-14 enlarged plan detail 2 calls note 5 a "36-inch FA FRP 90 bend." Detail 1 notes a damper at the end of the exact FRP pipe where the 36" 90 bend is called out. Please confirm whether a 12" damper is required or a 36" FRP 90 bend at this location.	12" damper required.
70	Spec section 03260-4 3.01A states that water stop is to be installed in construction and expansion joints in hydraulic structures or where shown on plans. There is a note on drawing S4 in project A calling for, "CJ w/o WATERSTOP". The storage building foundation plan nor any details show water stop and the structure is not hydraulic. Please confirm that there is no water stop in any construction joints in the storage building slab.	No waterstops required on this structure.
71	Drawing C2 Sheet 5 of Project A, the existing thickness of the AC paving at the parking stalls are not shown. Please provide a thickness for bidding purposes.	Assume 4 inch thickness of asphalt.
72	Drawing C2 Sheet 5 of Project A, the thickness of the existing gravel to be removed is not shown. Please provide a thickness for bidding purposes.	Assume 4 inch thickness of gravel.
73	Drawing C2 Sheet 5 of Project A, the 1-Story Storage Building is called to be removed and disposed. Please provide an as-built of this building.	We do not have as-builts of the building.
74	Drawing C2 Sheet 5 of Project A and job walk, there are existing materials stockpile within the construction zone. Please verify if the existing materials will be moved by the owner before construction begins.	City will remove prior to NTP.
75	Drawing C2 Sheet 5 of Project A, the existing PCC concrete is to be removed and disposed but the thickness is not given. Please provide an as-built of this area or a thickness for bidding purposes.	Assume 12-inch concrete thickness
76	Drawing C3 Sheet 6 of Project A, please provide details of the new sod area called out.	Sod shall match existing grass in adjacent landscaped area.
77	Drawing C3 Sheet 6 of Project A, construction lay down and stage area 4,722 SF in between two existing tanks is in conflict with Drawing RE-IM-04 Sheet 3 project location map, which shows a different staging area South of the new Maintenance building. This construction lay down area called out in Drawing C3 is also in conflict with the emergency vehicle access plan on Drawing C4. Please advise which staging area will be used for Project A.	Staging areas shown on drawing RE-IM-04 are correct. There is no staging area available near the primary clarifiers.
78	Drawing C5A Sheet 9 Project A, Note 1 of Section 2 calls for 4 inch aggregate base surfacing in exposed area North of building, but part of the aggregate area shown in the section is outside the construction limit. Please clarify the area to be surfaced with aggregate.	Area between the building and the fence, and the asphalt paving and the fence, within the construction limits, shall have aggregate base surfacing.
79	Drawing C11 Sheet 19 Project A, please provide the height and type of existing fence to replace with new fencing.	Existing fence on this sheet is 8 feet high chain link fence.

80	Please provide an overall plant flow diagram or documentation showing the process flow of the plant including MGD production.	This is not required for the project. It will be available after the award of the contract.
81	Is digester 2 currently in operation as part of the plants process flow? If not have all the connections to the rest of the plant been properly isolated?	Digester 2 has been cleaned and out of service for more than 10 years.
82	Please provide as built documents for the existing structures, equipment, and utilities.	No additional information available.
83	Drawing No. C6 shows a 2" SCH 80 PVC WTR pipeline. The enlarged plan is shown on drawing C6A with the same pipeline shown as 2" 2W and specification 15370 2.05 states that the 2W service water line shall be 316 SS SCH 40. Please clarify the correct system and material for this pipeline or where the PVC SCH 80 WTR system ends and the 2W SS system begins.	Buried 2" 2W shall be PVC. Exposed 2W shall be 316 SS, with transition below ground within 6 inches of finished grade.
84	Drawing No. C6A shows two 6" tee connections on the 6" 2W pipeline that refer to detail 5, sheet C8. It is not clear how the connection of the tee's is supposed to be. The Tee cut-in detail includes various FLG x MJ adapters and Flexible couplings. Please verify the tee connection details.	The tee and valves are Ductile iron. The spools from the tee are DI, with DI/PVC adapters shown as Flange x MJ.
85	Please clarify size of existing water main on drawing No. C107 where fire hydrant and fire line connection will tap into.	Pipe is 8-inches.
86	Drawing No. P101 Note 5 mentions "replace corroded spool piece with a new spool piece." It is unclear as to what spool piece this note is referring to. Please show details and material for new spool piece to be provided.	Spool pieces are inside the wetwell, where the pump connects to the outlet pipe. Shown as 26-inch length and 30" length respectively, on details 1 and 2.
87	Drawing M-03 partial assembly schedule 3 refers to a 6" 90 FA FRP bend. Drawing M-04 partial assembly schedule 4 refers to the same 90 as an 8" FA FRP bend. Please confirm the correct size for the FA FRP pipe and 90 bend.	These are 6" FRP pipes.

88	<p>Specification Section 02150 specifies a substandard product for liquefaction mitigation and purposely excluded Keller North America Inc to perform the project using techniques like Vibro stone Columns and Vibro Piers.</p> <p>Note that CBC 2019 1813A (attached) is the right approach to perform liquefaction mitigation where Rammed Aggregate Piers does not even has a section in Building Code as well as SP-117A (Specialty Publication).</p> <p>CGS (California Geological Survey)/NAVFAC (US Naval Facilities Engineering Systems Command Southwest)/OSHPD (California's office of statewide Health Planning and Development) also does not approve Rammed Aggregate Piers for Liquefaction mitigation.</p> <p>Please make this spec a generic specification where all Contractors specializing in liquefaction mitigation can bid this work and is not sole sourced to substandard product.</p> <p>I also noticed that performance criteria is very low. That is, it allows 0.5 inch of static settlement (reasonable) and 3 inches of differential liquefaction induced settlement (unreasonable). Assuming total settlement will be twice these numbers, 7 inch of settlement is huge for this structure and will lead to unsafe condition. Don't think this is allowed per ASCE 7-16 requirements.</p> <p>Please let us know how we can get it resolved before the bid.</p>	The rammed earth treatment is not for liquefaction mitigation. It is for static settling. Design is appropriate.
89	Project A, Dwgs. C11, C15 thru C19, & C21 require tree removal. It is assumed stump removal is also required. Please confirm.	Stump removal is required.
90	Project B, Dwg. C101 says to 'Protect in Place Concrete Trenches' during Phase 1 and 'Remove' under Phase 3. Dwg. C105 Grading and Drainage Plan show these trenches remaining. Please clarify if these trenches are 'Protected in Place' or 'Removed'. If removed please provide cross section dimensions.	These are surface drainage ditches. Dimensions vary and are approximate as shown on plans. Concrete thickness varies, but is assumed to be 8 inches thick.

91	<p>Spec. Sect. 03730-1.01D states that the repair work specified is intended to cover the repair of concrete to a max. depth of approx. 2". It also says if an area requires repair greater than 2" or an area that requires repair or replacement of reinforcing the Contractor is to notify the Engineer so details may be provided. Sects. 03730-3.02E & F seems to provide these details and describes how to repair or replace reinforcing with active corrosion when encountered.</p> <p>Bid Item D-5 Headworks – Concrete Repairs allows for 2,000 SF of repairs, but does not indicate the depth Contractors should assume for bidding purposes. The difference per SF for a repair of ¼" v.s. over 2" with reinforcing replacement is substantial.</p> <p>Typical projects with concrete repair included usually have Bid Items for Repairs up to ½", ½" to 1", 1" to 2", greater than 2" with rebar repair, and greater than 2" with rebar replacement or something similar.</p> <p>Please add variable Bid Items as mentioned or provide a depth to assume for the 2,000 SF allowed for in BI D-5.</p>	Assume depth of repair is to reinforcing bars. If reinforcing bars are corroded, this repair shall be considered extra work.
92	Project A drawing C6 shows a 2" vent below grade and vent through roof. Please specify if this pipe will be PVC SCH 80 material.	PVC is acceptable for VTR.
93	Project A drawing C6 shows a 1/2" trap primer line. Please specify the material for this pipe line.	1/2" Trap primer shall be copper pipe.
94	Project A drawing C6 shows a 2" vent & 1/2" trap primer line. Please specify the elevation for excavation of these pipelines.	These pipes are within the concrete floor.
95	<p>Keller is submitting an RFI to clarify the performance requirements. Also, please also modify the Specifications so that it is performance based, rather than specific company (Geopiers®) product-based specification.</p> <p>In the Specifications Section 02150, under section 1.06C "Rammed Aggregate pier Design" It states that the estimated long-term differential static settlement (over 50-feet) is less than 0.5-inch (reasonable). However, below that it states that the Estimated Differential Liquefaction Induced Seismic Settlement should be less than 3-inches over 30-feet. Assuming total settlement will be twice these numbers, 7-inches of settlement is very large and will lead to unsafe conditions.</p> <p>Keller is requesting for the Specifications to be revised so that all subcontractors are able to bid the ground improvement scope of work, on a performance based specification, rather than a specific product. Additionally, please provide clarification as to the liquefaction induced settlement.</p>	Static settlement is the basis for this ground improvement. Alternative suppliers of aggregate piers technology are acceptable if approved.

96	Project D headworks process area drawing M-15 demolition note 20 mentions "Protect in-place existing duct support." Specification 15056 2.02 D mentions "Previously used and/or scrap material is not acceptable." Will the Contractor be able to reuse these pipe supports for the new FRP duct or will the Contractor need to provide all new duct supports? Please Clarify.	These FRP Pipe supports are assumed to be reusable in this instance. Section 15855 governs for this application.
97	Project D headworks process area drawing M-17 demolition note 10 mentions "Protect in-place existing duct support." Specification 15056 2.02 D mentions "Previously used and/or scrap material is not acceptable." Will the Contractor be able to reuse these pipe supports for the new FRP duct or will the Contractor need to provide all new duct supports? Please Clarify.	These FRP Pipe supports are assumed to be reusable in this instance. Section 15855 governs for this application.
98	The bid items B4-B7 on page B5 are all blank with just a 'S' in the description column. When referencing the Measurement and payment sections 'B-3' is referenced three separate times but have different titles whereas B-4 and B-5 are not called out at all. Should these items be labeled B-3, B-4, B-5 and titles correspond with the matching bid items? Please reissue page 'B 5' of the bid documents as well as pages 01150-7 and 01150-8 to show the correct titles and item numbers.	See response for Item No. 2 above.
99	Project A: Drawing C-2, Note 6 requires an asbestos and lead survey by a licensed testing agency at the "1-STORY STORAGE BUILDING" and then removed. Since the scope is not identified and if the survey shows hazardous material, please confirm the removal would be handled by a change order.	Yes. Removal will be handled as extra work.
100	Project A: The curb on the north section of the maintenance building adjacent to the northern driveway specifies PCC Curb, See Detail 3/C7. Detail 3 shows a curb and gutter detail. Should we figure Detail C1/C9B for a PCC curb?	Yes. Use Detail 1/C9B for PCC curb.
101	Project A: Drawing A8, Interior Finish Schedule specified "SPEC 03301" for "CONCRETE WITH SEALANT" for the walls. It doesn't appear as if Spec Section 03301 was included in the bid docs. If this simply a sprayed on wall sealer? If so, does the Engineer require a particular product? The same spec section is shown in the material legend for the concrete floor.	This should refer to Section 03345, and should be surface hardener coating for floors.
102	Project A: For the bollards on Drawing C-3 it stats "HSS GUARD POST SEE DETAIL 4, SHEET C7". Detail 4/C7 specified "6" SCH. 40 PIPE,...". Please clarify either 6" pipe or 6"x6" HSS.	6" Pipe is correct.

103	Project A: General Note 3 states “SEE SPEC SECTION 03300 “CAST-IN-PLACE CONCRETE FLOOR HARDENER”. Spec section 03300 doesn’t appear to identify floor hardener. If the concrete floor requires hardener we would recommend after the pour. The hardener (or powder) tends to accelerate the concrete during the pour. Please clarify.	Bidders are instructed to include the attached new Section 03345 to the Contract Documents.
104	Project A: Details 6 & 7 / A9 refers to Detail 2 on A-10. On Drawing A-10, Detail 2 is blank. Same details refer to Detail 1/S3. Detail 1 on S3 shows a typical bar bend detail. Please clarify.	Use the supplier's standard frame embedment anchors and assure the frame is flush with floor.
105	Project B: Does the Owner have a hazardous material survey for the existing maintenance building?	No hazardous materials survey was performed on the structures. Contractor shall perform this survey as specified. Any removal of hazardous materials shall be considered extra work.
106	Project B: On Drawing A502, Exterior Material Schedule, it specs CONC-1 sealer for concrete wall per 09940. Did you mean 07191?	That is correct. Section 07191 applies to exposed vertical concrete and masonry walls.
107	Project B: On Drawing A502, Exterior Material Schedule it shows Vinyl Base, VB-1. Where does this apply?	No vinyl base is required in this building.
108	Project B: On Drawing A502, Interior Material Schedule it specifies Spec Section 09900 with various coating systems. Did you mean Spec Section 09941? Also Spec 09941 only goes up to System 20 while the drawings shows up to systems 83.	Yes. References to Section 09900 should be Section 09941.
109	Project B: On Drawing A502, Exterior Material Schedule, it denotes Spec 08500 for glazing. Did you mean Spec Sections 08800?	Correct. Section 08800 is for Glazing.
110	Project B: In general Drawing A502 doesn’t seem to match Spec Section 09941. Please clarify. Also we are unable to locate the reference item numbers either on the plans or specs. Such as FE-1 or GV-1 noted in the Room Finish Schedule for Room A101.	Revised Table for A502 is located on Drawing A502.
111	Project D: Sheet M-22 show 7 new bollards but we are unable to locate the type. Should we figure Detail 2 or 4 on Drawing C-10	Per drawing S-10, use Detail 4 on C-10.
112	Spec section 08900-2 C 1.a states that the PC-1 coating be applied to the interior existing walls from top of wall to elevation 137.00', but drawing M-33 in Project D shows that the coating is applied from top of wall to elevation 132.00'. Please confirm which elevation is correct.	Coating shall be extended down to floor/wall interface, elevation 104.5.
113	Spec section 08900-3 C 3.a calls for a Vinyl Ester Coating System (PC-3) to be applied to the bottom of the existing chemical piping trench but drawing S-10 calls for PC-2 to be applied to the bottom as well as the interior surface of the walls of the trench to be coated. Please confirm which	PC-3 Vinyl Ester shall be applied to the bottom and walls of the chemical trench.

	areas of the trench are to be coated and which coating system is to be used.	
114	Project B, Dwg. C101 shows 9 or 10 trees being removed along Perkins Road. Project A, Dwg. C11, Note 6 says these trees will only be trimmed as they are inside the fence unless interfering with fence installation. Do these trees get removed or just trimmed?	Trees shown to be removed on C101 of Project B are for installation of new electrical gear. They shall be removed.
115	Project B, Dwg. C101 shows 9 or 10 trees being removed along Perkins Road. Project A, Dwg. C11, Note 6 says these trees will only be trimmed as they are inside the fence unless interfering with fence installation. Do these trees get removed or just trimmed?	Trees shown to be removed on C101 of Project B are for installation of new electrical gear. They shall be removed.
116	Table 15370-1 Exposed Piping Schedule shows S.S. Digester Gas Circulation Piping being painted which is unusual. Spec. Sect. 09941-3.06 Paint Schedule does not list S.S. piping as an Item to be painted. Does stainless steel piping require painting?	Correct. Stainless steel piping will not be painted.
117	Spec. Sect. 09941-3.06 Paint Schedule Item Nos. 17 thru 20 requires existing interior concrete & masonry, existing interior steel columns, existing interior aluminum railings, and existing non-submerged pumps, piping, fittings, valves, and supports all to be painted. Associated Notes talk about testing prime coat exposed more than 6 months, repainting existing piping and concrete if modified, and changing paint systems if existing coatings are not compatible. Assuming these notes are applicable, please provide drawings indicating what scope is associated with Item Nos. 17 thru 20 as presently there is no way of quantifying. Also, if existing coatings are not compatible or not sound and need to be removed, please verify that this would be considered extra work.	This only applies to elements of existing facilities that will be modified. Unpainted concrete will not be painted.
118	Spec. Sect. 09941-3.06 Paint Schedule Item No. 7 requires Interior Insulated Ductwork to be painted. Does this apply to the Lined Supply Air Plenums shown in Project C Dwg. M210? Does it apply anywhere else?	That applies only to interior insulated ductwork. This is the only location identified on the drawings.
119	Spec. Sect. 09941-3.06 Paint Schedule Item No. 9 requires Emulsified Asphalt-Coated Ferrous Pipe to be painted. Does this apply to the project anywhere?	There is no emulsified asphalt coated ferrous pipe currently in the scope of work.
120	Project D Dwg. S-06 requires twelve stop plates with guides and base plates. As there is no specification for these it appears as though they are to be fabricated per the details given. No thickness or stiffener requirements are provided. Please provide.	Existing stop plates will be reused. Scope is for replacing guides only.

121	Project D requires significant interior work at the Headworks Area and Digester 2. Please confirm that the City will drain and clean structures prior to turning over to Contractor. If the Contractor is required to include this work please provide quantities of both solids and liquids and identify where to dispose of.	City will drain and clean the headworks structure when requested, in accordance to an agreed schedule. Digester has been cleaned and out of service for more than 10 years.
122	Aggreko generators are CARB permitted, not Ventura County permitted. Will that be a concern to Oxnard WTP? ARM (aggreko remote monitoring) is standard on our generators. The equipment does not have dial up as referenced on document. I will need to add Panel to meet the 350-A , 200-A circuit referenced. I suggest external fuel tanks to minimize fuel drops plus extend generator run time. The specs call for a single back up generator to meet both conditions 300kw or 150kw, does a single back up 300kw on site be enough?	Comply with drawings and specifications.
123	To help in your review and approving Keller who is highly qualified if not more. Per 02150-1.03.D., it states “Without exception, no alternate installer will be accepted after bid unless approved by the Engineer and Geopier Foundation Company, Inc.” Under 02150-1.03.E, 6 installers are listed. Only Western Ground Improvement is CA licensed. This leaves the work as sole sourced and no competition. Geopier website lists the licensed North American GFC installers. Except for Western Ground Improvement none appear to be licensed in California. The installers are out of state in IA, WA, VA, NH and even three in Canada.	Installers can be certified by Geopier. Alternative technologies that provide the same support may be submitted in accordance with requirements for Substitutions.
124	Sheet E-131 and E-501, are Transformers PSG-XFMR-1A and 1B and XFMR MSB-1A and 1B supplied By SCE?	Refer to E-502. Transformers XFMR-MSB-1A and -1B are by SCE. PSG-XFMR-1A and -1B are not transformers, they are switchgear and provided by Contractor.
125	Throughout the projects there are not many control cables identified to be extended/replaced via a cable schedule. To estimate the number of new terminations, and cables that need extended/pulled new should we just apply a multiplier to the 900 I/O points identified on Attachment A of the PLC replacement specification? With that said, are there any documents that detail what cable types and quantities that are to be used for control cables for the MCC replacement scope? A basis of bid or allowance would be helpful to estimate the control/instrumentation cable changes for the projects.	Bid Item No. C-18 has been added to the revised bid from.

126	Project D drawings M-23, M-24, and M-26 show a 1" NaOCL pipeline coming from the existing chemical trench connecting to the new sodium hypochlorite chemical metering pumps. Drawing M-27 photograph 2 shows the same pipeline as existing 1" CPVC. Please clarify if this is a new NaOCL CPVC pipeline to be furnished and installed by the Contractor or if the Contractor will use the existing pipe. If the Contractor will use the existing pipeline please clarify the tie in points and what is existing pipe versus new pipe to be installed.	Where the pipe is shown as existing, and not upsized it will remain. Connection points are shown on the drawings.
127	Drawing C101 Sheet 12 of Project B, the 1-Story Storage Building including slab is called to be removed and disposed. Please provide an as-built of this building.	As-builts are not available for this structure.
128	On page 210 of Dewatering Spec 02240-1, it states that a limited capacity to discharge the plant drainage system will be allowed. Please provide a maximum discharge rate to the city for bidding purposes.	Dewatering rate discharge to the plant drainage system shall be limited to 700 gpm.
129	On page 210 of Dewatering Spec 02240-1, it states that a limited capacity to discharge the plant drainage system will be allowed. Please verify if any desilting or treatment is required before the groundwater is discharged to the plant or different location.	Turbidity of dewatering liquid shall be limited to 200 NTU. No treatment is anticipated.
130	Drawing C2 on project A note 6 states that Contractor is to conduct HazMat testing of the Storage building to confirm there are no Hazardous Materials in the building. Spec section 02050 3.02 F states there has been a HazMat study conducted and no hazardous materials were found. Please confirm that the Hazardous material testing has already been conducted and the Contractor will not have to perform any additional HazMat testing.	Note on C2 is correct. No hazardous materials evaluation has been completed to date. Contractor shall perform these evaluations on buildings to be demolished.
131	Spec section 02317 Trenching and Backfill - 1.04 A 3 states we shall submit the of Asbestos test results, please clarify what substances/materials are to be tested for asbestos in regards to trenching and backfill.	Imported fill shall be tested and certified to meet the required asbestos standard.
132	Project D drawing M-28 mentions to protect in place a portion of existing 10" GC CS pipe that will not be part of the demolition per Note 27 on drawing M-29. Drawing M-33 calls out the same pipe to be joined and welded per note 12 on drawing M-34. Please clarify the work to be done on this section of pipe or if it will remain protect in place.	These spools go through the existing catwalk and will be protected. See detail 3 on M-36.
133	Project D drawing M-33 note 26 calls for an 8" SS 90 elbow connecting to 8" CS pipe system DS inside the digester. Please clarify if this elbow will be carbon steel or stainless steel.	Everything above the new meter is stainless steel, as noted on M-34.
134	Project D drawing M-33 Digester No 2 piping section B shows a 6" SN CS pipe to be furnished and installed. Please specify if this is epoxy lined and coated pipe.	This is a fusion bonded epoxy lined pipe.

135	If the 6" SN CS pipe on drawing M-33 is epoxy lined please clarify the connection to existing pipe. Note 12 mentions "weld existing CS gas" while specification 15072 section 2.07-B mentions "field welding of epoxy lined pipe is not acceptable." Will this connection be a welded connection or a sleeve coupling connection as mentioned in specification 15072 section 2.08-A?	Existing pipe is not epoxy lined and can be welded.
136	Project D drawing M-06 note 1 mentions a 4" PVC 90 bend and note 3 mentions a 4" PVC duct and fittings. Drawing M-07 note 6 mentions the same pipe as a 6" FRP. Please clarify the correct material and size for this pipe.	M-07 is correct. This is a 6" pipe.
137	Project D drawing M-35 detail 2 shows a sample well detail with a water stop ring. It is not possible to install a water stop ring into existing concrete. Please provide a detail that shows accurate installation of sample well and clarify installation details.	This is a new concrete roof.
138	Project D drawing M-35 detail 3 shows a thermowell detail with a water stop ring. It is not possible to install a water stop ring into existing concrete. Please provide a detail that shows accurate installation of thermowell and clarify installation details.	This is a new concrete roof.
139	Project A Drawing C5 calls out for a new junction box to be installed on the South side of the site. Drawing C6 calls for a doghouse manhole. Please verify which type is to be used for this project.	Junction structure is referenced to Detail 5 on C-10.
140	Spec 16250, Electric Motors, states that speed of the motor for the Interstage Pumps shall be rated at 900 RPM, 4 Poles. Based on the MFG's called out, 900 RPM 4 poles does not exist. There is a 900 RPM, 8 Poles motor or a 1800 RPM, 4 poles motor. Please clarify the design requirement for the Aurora Pump Motors.	Provide 900rpm, 8-pole motors.
141	Project D drawing M-17 note 11 states "existing damper, protect in place." Drawing S-08 section A calls out new dampers to be provided and installed. Please clarify and confirm if new dampers will be required for the FRP vents and if the demolition of the existing dampers is necessary.	All dampers and pipe connections shall be replaced. M-17 will be modified.
142	Project A Drawing C6 does not provide an elevation for the new 2 inch schedule 80 PVC Water line. Please provide an elevation.	Minimum cover on pipes less than 6" diameter is 36 inches.
143	Contract "A", SHT A9-95, DTLs 6 & 7 call out for "...painted per system no. 10, section 09900.". I was unable to find section 09900. Additionally, section 05530, 3.02 specifies bituminous coating. Is that what system "System No. 10" was to be? Please clarify trench grate coating (if any required)	These gratings should be coated per Section 05530.

144	Contract "D", SHT M-39-95, does not appear to show a check valve nor a plug valve on the 4" HRS line from the pump to the heat exchanger. These valves are shown on the P&ID SHT I-06-95. Please confirm if the 4" check valve and plug valve are required for the HRS to the heat exchanger.	Check valve is shown on Section A and called Item 8. Plug valves are shown and called out as item 10. Check valve is specified in new Revised Section 15101 as stated in Item No. 22 above.
1453	Please provide finalized drawings from SCE for electrical utility work	Finalized SCE drawings will be provided to the Contractor after award of contract.
146	Contract documents – notice inviting bids - state that the duration of the project is 750 working days. Spec section 01014 3.02 A states that final completion being 900 calendar days. Which duration will project completion be based on?	750 Working Days for the entire project is correct.
147	Will the Contractor need to clean out digester 2 prior to completing restoration? If so what is the current state of the digester 2 interior?	Digester 2 has been cleaned and out of service for more than 10 years.
148	Please provide additional drawings describing the method of installation for the aluminum covers for the headworks area.	Details and specifications are adequate. Means of installation shall be submitted by the supplier and Contractor.
149	Spec Section 16250 -- Electric Motors -- states the new motor shall be a 900 RPM, 4 Pole motor. Upon speaking with vendors, this rating does not comply with vendor products. 4 pole motors require a rating of 1800 RPM. 900 RPM motors, require 8 pole rating. There is also additional missing information regarding the new motors including: enclosure details, torque rating , VHS or VSS, and Inverter duty requirements. Please re-issue Spec Section 16250 to include all necessary information for procuring the correctly rated motor.	See response to Item No. 140. Provide inverter rated motor per spec 2.01.Q. Provide WP-1, solid shaft per spec 16250-2.01.M.
150	Section 11699 Tube in Tube Sludge Heat Exchangers. 1.04.A.3 Please clarify if controls are part of the heat exchanger suppliers scope of supply. 1.04.A.5 Please clarify if a boiler is to be part of the heat exchanger supplier's scope of supply.	No boiler is required. Hot water is supplied from the Cogeneration system.
151	Section 11381 Anaerobic Digestion Equipment. 1.03.A.1 Can a manufacturer provide ISO certification and evidence of 10 installed gas mix systems, though not of the same configuration in lieu of just 5 installations of a similar nature in the past 10 years? WesTech has provided gas mix equipment for the past 30 years and has provided a variety of configurations for gas mix equipment for digesters, not just the gas lance system and would like to be included as an approved supplier of this equipment.	See Item No. 16 above.

152	In Project A, Drawing E2 Site Electrical Plan and Drawing E5 Exterior Site Lighting Upgrade does not specify whether the conduit runs require concrete encasement. Please verify if the conduits need to be encased. If call for direct bury, please provide a standard detail.	All underground conduits in Package A may be directly buried except concrete encase the two 2" conduits from the existing maintenance building to the new maintenance storage building. Trench details are described in specification section 16402.
153	In Project A Drawing E6, please verify the existing AC paving thickness at the Primary Sedimentation Tank can be assumed to be 2 inch per Boring Log R-18-02.	Assume asphalt in this area of the plant is 2 inches thick.
154	In Project A Drawing E7, please verify the existing thickness of concrete sidewalk North of the Admin building where the conduit runs are connecting new LED bollards.	Assume the concrete sidewalk is 4 inches thick.
155	Project D drawing M-27 detail 6 shows a photograph of two new 1-1/2 diaphragm valves. Drawing M-25 partial assembly schedule 9 calls out a 1-1/2" ball valve V46 to be installed. There is no V46 in the specifications. Please confirm if these are the valves shown on photograph 6 M-27 or they are different valves that are needed.	Hypochlorite valves shall be diaphragm valves, V19 in Section 15101.
156	In project A Drawing C2, note 4 calls for removal of all existing irrigation piping within limits of construction, cut and cap irrigation extending outside limits of construction. please provide an as-built of the site plan or an approximate linear footage for bidding purposes.	Irrigation system piping shall be designed and submitted for review.
157	Project D drawing M-33 shows a 8" THS GLDI pipe. This same pipe is called out as 10" LSG SS. Please clarify material, size, and detail of this pipeline.	Not able to see the conflict. Thickened Sludge (THS) piping is 8" and smaller, and shall be GLDI. Gas piping is stainless steel.
158	Project B drawing C107 shows a new fire hydrant and new backflow preventor to be furnished and installed that will tap into an existing water main pipeline. Please clarify the size of the hydrant and backflow preventer pipelines.	6" diameter.
159	Spec Section 02315-6 calls for over-excavation of 2 feet below the bottom of foundation or slab. Please clarify if this is only required for the new electrical and storage building.	Over-excavation is required for the new electrical and storage buildings. Over-excavation is not required for the new odor control scrubber foundation.
160	Materials have been quoted as A.I.S (domestic) as we found in addendum 2 that funding, at least in part, was provided by CWSRF.	Correct.
161	Project "D", SHT M-39 there is an 8" swing check valve listed as V89 – we were not able to find this valve within the published job specs. Materials are quoted subject to engineer's stamped approval.	Check valve is specified in Revised Section 15101, see Item No. 22 above.
162	We found no specification for the sump pumps. Materials are quoted highly subject to the engineer's stamped approval.	Notes have been added to the drawings specifying sump pumps.

163	Project "A", SHT C6A-95, Note #7 calls for a DI 6" FDC, however the model specified (5761) is a 4" unit and may not be available in ductile iron. Additionally, this unit is designed to be mounted on a vertical pipe, which will not allow for an additional check valve to be placed horizontally as shown.	See response to Item No. 14 above.
164	Project "A", SHT A9-95, Details 6 & 7 call out for "...painted per system no. 10, section 09900.". We were unable to find section 09900. Additionally, section 05530, 3.02 specifies bituminous coating. Materials are quoted subject to verification.	References to Section 09900 have been replaced with 09941,
165	If insulating flanges are required at the heat exchanger (CI unit flanges to CS piping), they can be quoted upon request.	Insulating flanges are required between dissimilar pipe materials.
166	Project "D", SHT M-35-95, DTL 6 – Note #4 states that these couplings must be rated for 300 degrees. We found no other information within the specifications that requires materials to be rated to this temperature (for related systems). If such a temperature is required, materials may need to be reevaluated and re-quoted. This information must be verified prior to placing order. Additionally, the number of rods for these couplings have been assumed and for estimating purposes only. Contractor to determine actual qty and adjust his estimate accordingly.	Working temperatures will be 180 degrees F or less.
167	Project D drawings M-21 to M-27 in the Headworks chemical area show chemical lines NAOCL and NAOH called out to be 1" CPVC. Specification 15070 Double-Wall Containment Pipe states "Furnish a complete double-containment piping system..." There is no mention of the chemical piping to be double contained in the drawings. Please specify if any or all the chemical pipelines NAOH and NAOCL will be double-wall containment pipe and fittings.	All exposed chemical piping in containment areas and trenches shall be standard piping. Buried piping will be double-containment pipe. No double containment pipe in current scope.
168	Dewatering for the ductbanks in project B is expected to be in the 1000's of gallons per day. Please confirm the plant has the capacity to handle this level of dewatering discharge.	Addressed in Item No. 128 above.
169	on Drawing C107 Sheet 18 of Project B, the depths of the new ductbanks shown are very deep (up to 20' deep trench excavation) and will greatly affect cost of trenching and shoring schemes as well as dewatering costs based on the boring logs stating the ground water is encountered at +2 elevation. Please verify that the Contractor can change the elevation of the ductbanks when conflicting utilities allow to mitigate these costs.	Depth of the duct bank was based on underground utility information. If utilities can be avoided with limited slope change between manholes, depth can be adjusted.

170	<p>On the 6-inch 2W fire line C900 pressure pipe underground on Project A; Per Spec 02615, Paragraph 2.03.A.2 to .3, calls out certain accessories “as indicated”. We are unable to locate these accessories on the drawings (or as indicated). Please confirm not applicable. Per Spec 02615, Paragraph 2.03.C.1 to 4, indicates restrained joint on pipe and fittings “where indicated”. Do you mean serrated bell restraint harness assembly for the pipe and wedge fitting restraint MJ gland pack at the fittings? We are unable to locate these on the drawings (or where indicated). Please confirm not applicable. At the coupling locations noted on the drawings do you require bolted coupling restraint harnesses?</p>	<p>C900 pipe is specified in Section 02623. No restrained joints are allowed on the C900 pipe. Thrust block details provided on City Standard Detail, Plate 320.</p>
171	<p>Per Paragraph 5.4.4 of the soils report it denotes “Some of the onsite soils within the project site, are generally considered suitable for use as structural fill provided it does not contain rocks or hard lumps greater than 3 inches in maximum dimension and shall have at least 80 percent passing the ¾-inch sieve, at least 25 percent passing No. 4 sieve and less than 10 percent passing the No. 200 sieve. It is recommended that “Structural Fill” be used beneath all foundations and floor slabs.” AND “Structural Fill materials should have an Expansion Index of 30 or less when tested in the laboratory in accordance with ASTM D4829. Based on the results of the field exploration and laboratory testing it is concluded that the some of the onsite soils satisfy the requirements of structural fill. Should we consider the on-site soil acceptable for the pipe bedding zone & bacfill zone (for example C9A) and all other backfill areas except for the CAB below the concrete slabs (for example Detail 1 / S6) or figure pricing out imported material related to Projects A, B, C and D?</p>	<p>Pipe bedding shall be imported fill. Structural fill may be used in backfill zones and in structure backfill.</p>
172	<p>"Unsupported temporary slopes with conditions similar to those encountered during the geotechnical report exploration (Cal/OSHA Type C soils) should be made at an inclination no steeper than 1.5:1 (horizontal to vertical), or flatter if field conditions so dictate." Will the Contractor be allowed to dig a steeper trench if a competent person approves the steeper slope?</p>	<p>Supported temporary slopes are allowed. If soils are determined by the Contractor's consultant to be stable at steeper slopes, that must be submitted to the Engineer for approval.</p>
173	<p>Project B page C116 shows a "51" primary effluent line - elevation unknown". Please provide as-builts for this line to identify the elevation of this line.</p>	<p>Estimated depths in the profile locations are based on underground utility investigation data. As-built data is not reliable and should not be used.</p>
174	<p>Project C: Please provide interconnecting and schematics for existing RTU and MUX panels that require rewiring. This will allow us to provide an accurate estimate of the time required to retrofit each cabinet.</p>	<p>See as-built drawings provided with this Addendum.</p>

175	Please provide as built of the Main Electrical Building.	See as-built drawings provided with this Addendum.
176	Project B, Dwg. C101 requires removal of Generators #1 & #2 including concrete slabs. No thicknesses of concrete slabs are shown. Sometimes generator slabs are quite thick. Please provide thicknesses.	See as-built drawings provided with this Addendum.
177	Project D Dwgs. S-04 & S-05 Headworks Concrete Restoration does not provide any cross sections in the E-W direction to clarify geometry of channels/basins. This information is needed to bid access/scaffolding for concrete restoration and coating. Please provide as-built dwgs. or at least E-W cross-sections.	See as-built drawings provided with this Addendum.
178	Project D Dwg. S-4 Key Note 5 requires existing concrete channel to be coated. Please provide cross-section dimensions to figure quantity of coating as none are provided. Dwg. M-22 shows 3 new chemical lines being added to this same channel. Are there other existing pipes or conduits in this channel? If so, please provide details as they likely will need to be removed and replaced to provide aforementioned channel coating.	See as-built drawings provided with this Addendum.
179	Please provide reference drawings or as built drawings on existing Interstage Pump motors as well as all other existing equipment	See as-built drawings provided with this Addendum.

Addendum No. 5 Received: Date:

Contractor's Name

Address

Authorized Signature

City State Zip Code

Name and Title

Telephone Number, Including Area Code