

WPTP Primary Sedimentation Area Roof Structure

Contract Number C01398C20

CLARIFICATION 2

Prospective bidders are hereby notified that pursuant to §00100-1.02, King County provides the following questions and responses as clarifications of the referenced Contract Documents. This Clarification form and these clarifications herein are not part of the Contract nor part of the Contract Documents.

Ref.	Section and Page or Drawing	Questions and Responses
1.	Sheet 207 of 232. Drawing No. I&C114	<p>Q. Please confirm sheet 207 on Vol. 3 was left blank intentionally.</p> <p>R. Please see Addendum 4 for Sheet 207 of 232, Drawing No. I&C 114, Control Cable Termination Schedule 15.</p>
2.	Section 01 14 00 1.04.B	<p>Q. General note No. 1 on electrical Demo sheets indicate that temporary power must be provided to motors, equipment and devices to remain in operations during demo and constructions. Please provide and list of equipment that will require temporary power and controls.</p> <p>R. The basin will remain partially operational during demolition and construction. The basin is composed of six tanks. Three tanks will remain operational at a time. Replacement of motors, motor control stations, equipment, and devices will be performed in phases. Provide temporary power & control wiring for all motors, equipment, & devices to remain operational during demolition and construction until final raceways & wiring installation has been completed & all motors, equipment, and devices are operational.</p>
3.	Drawings E001, E330 and E331	<p>Q. We are unable to locate in the specifications Type 1, 3, 4 & 5 as called for on drawing E331? Please let us know what these cables are?</p> <p>R. Please see Addendum 4 for notes added to E001, E330 and E331.</p>
4.	Section 01 14 00 1.04G and 01 19 50 1.03.D	<p>Q. General note No.4 indicates the removal and tagging of all odor control panels and the re-installation to their original location. Please provide assets number or their locations.</p> <p>R. Asset numbers are not required for the individual odor control panels. "Tagging or numbering system" specified in 01 19 50, 1.03.D.1.a is to ensure that panels, if removed, get installed in their original location.</p>
5.	Drawings E001, E330 and E331	<p>Q. There are a few conduits called out on the demo plans (drawing sheets D-E205, E330, and E331) but no conduit is listed within the conduit and cable schedule within the plans. Can you please provide clarification on this?</p> <p>R. Please see Addendum 4 for notes added to E001, E330 and E331.</p>
6.	Section 00300 Attachment A & 01 29 00 1.02.B	<p>Q. The Section 00300 FORM OF BID, Attachment A – Bidding Schedule describes “Alternate A”, Bid Item 9 – Temporary Work Shutdown. In Section 01 29 00, 1.02, B this appears to also be described as Alternate Bid Item No. 1.</p> <p>Can you clarify that these are both the same description of work, and verify that the Bid Form Attachment A, Alternate A – Bid Item No. 9 is correct or revise Section 01 29 00 to reflect the same description?</p> <p>R. Please see Addendum 4 for change to Section 01 29 00 Measurement and Payment.</p>

Ref.	Section and Page or Drawing	Questions and Responses
7.	Sections 06 84 01 and 06 84 02	<p>Q. FRP Installer qualifications in 06 84 01, 1.04, A, 7 and 06 84 02, 1.04, 8 states experience erecting and installing FRP products for at least two similar projects in the last five years. As it stands, no subcontractors I have spoken with have ever seen or installed fiberglass decking. Please confirm if experience installing fiberglass grating counts as experience for installing fiberglass decking of if this requirement can be removed from the specifications.</p> <p>R. Installer qualifications for fiberglass grating specified in 06 84 02, 1.04.A.8. Installer qualifications for fiberglass structural shapes specified in 06 84 01, 1.04.A.7. King County will not be making changes to either spec section.</p>
8.	Drawing S402	<p>Q. Existing waterproofing on concrete is only visible on 9/S402. Please confirm that waterproofing new vertical concrete will only be required at this location and not at the Shotcrete Walls (5/S401) and Upgrade Existing Columns (11/S401) on the Lower Level.</p> <p>R. New waterproofing is not required at in-tank construction. The liner shown on detail 9/S402 is existing.</p>
9.	Section 01 04 00, 1.04.E; & 01 55 26, 1.06; Drawing C102	<p>Q. In Section 01 14 00, 1.04, E Crane Location it suggests there are locations determined in the Drawings. There does not appear to be a location for Crane operations indicated in the Drawings. Are crane operations restricted to the contractor staging areas, out of range of the propane/combustible/siren tower areas?</p> <p>R. Control stations to be replaced. Protect control station stands to remain during demolition and construction.</p>
10.	Addendum 3, Ref 3.1	<p>Q. Will there be an extension to the bid deadline in order to acknowledge any upcoming addenda? With the holiday coming up and a recent bid walk our remaining time to evaluate the scopes and schedule are limited.</p> <p>R. Bidding period was extended in Addendum 3.</p>
11.	Drawing D-E204 & E204	<p>Q. Are the control Stations and associated items for assets number BP0501 & BP0502 on sheet D-E204 to remain?</p> <p>R. Existing control stations & devices associated with asset number BP0501 & BP0502 are to remain. Protect control stations and devices during demolition & construction.</p>
12.	Drawing S460, Detail 12A	<p>Q. Sheet S460, The splice plate is listed as 3.5" plate but I think this is a typo. I assumed it was ½" plate. Please advise. (2) plates per splice?</p> <p>R. Please see Addendum 4 for an updated Drawing S460.</p>
13.	Section 40 05 93; Drawings E310, E320, E321, E322, & E323.	<p>Q. Please provide a new motor schedule. Provided one lines show existing motors.</p> <p>R. Refer to Specification 40 05 93 Electric Motors for Process Equipment, MCC elevation drawing E310, & MCC One-Line Diagrams E320, E321, E322, & E323.</p>

Ref.	Section and Page or Drawing	Questions and Responses
14.	Drawings S004, S005, S006 and S421. Spec 01 15 00	<p>Q. Division 01 15 00 states that the County will be responsible for Special Inspections, which is the norm, but does conditionalize that by stating “for permits that the county is responsible for”. Division 03 30 00 section 3.07 sounds like the GC is responsible for them, GCs are thinking they are too because they are calling asking for bids for testing. Can you tell me who is responsible for the Code required special inspections and is there additional GC testing required beyond that?</p> <p>R. The County is responsible for Special Inspections as summarized on S004, S005 and S006. The General Contractor shall provide additional testing or investigations where required to support his means and methods or where specially called for in the contract documents. For example, Contractor shall perform scanning for rebar in existing concrete members per detail 7/S421.</p>
15.	E201 through E208.	<p>Q. The quantity of electric motors, controllers and instruments shown in the Form_01725A_017840 – New_TAGS-100% Submittal document shows 34, 46, and 46 respectively. Plan sheets show the quantity of electric motors, controllers and instruments to be 36, 48, and 48 respectively.</p> <p>Please clarify which quantity is to be incorporated as part of this contract.</p> <p>R. Provide quantities as shown on electrical drawings.</p>
16.	Electrical Drawings D-E201 thru D-E208 and E201 thru E208.	<p>Q. Please confirm that Power Plan Demo sheets D-E201 through D-E208 show different conduit than those that are to be installed per Power Plan sheets E201 through E208. Both sets of plans reference the conduit and cable schedule sheets E330 and E331.</p> <p>R. New conduit routing may not match existing conditions.</p>
17.	Electrical Drawings E202, E204, E206, E208, E350 and Structural Drawing S460	<p>Q. Will the lighting be removed and replaced as part of this project?</p> <p>R. Yes. See sheet numbers. 149-156 (D-E101 to D-E108) for demolition plans and sheet no's. 165-172 (E101 to E108) for new lighting plans.</p>
18.	Electrical Drawings E202, E204, E206, E208, E350 and Structural Drawing S460.	<p>Q. Will the main electrical trunk that runs in the east-west direction be lowered to the deck level similar to the north-south run?</p> <p>R. No. The E-W electrical conduits will be supported on steel supports at approximately the same elevation as existing. Refer to electrical power plans, detail 2/E350 and detail 12/S460.</p>
19.	NA	<p>Q. Is there electrical equipment inside the tanks that will need to be removed and replaced?</p> <p>R. No. There is no electrical work at the "Lower Level".</p>

Ref.	Section and Page or Drawing	Questions and Responses
20.	01 14 00 1.04.B.1.f	<p>Q. Are there work restrictions for washing the tank walls when level is being lowered in the tanks?</p> <p>R. Tanks will be provided to the Contractor in a drained condition as described in 01 14 00 1.04.B.1.f. Any additional cleaning effort by the Contractor will be performed after receipt of the tanks.</p>
21.	Drawings M002, D-M121, E001 and Sections 01 14 00 and 23 05 93	<p>Q. Do tanks #1 - #3 need to be tested and commissioned before beginning work in tanks #4 - #6?</p> <p>R. Per 01 14 00, 1.04.B.1.d(2), tanks 1-3 must be placed back in service prior to taking tanks 4-6 out of service.</p>
22.	01 04 00 1.04.E 01 55 26 1.06 Drawing C102	<p>Q. Will there be crane access on the south side of the basins?</p> <p>R. No. The intent is to limit crane locations to the north side of the basins.</p>
23.	Drawing S400, Detail 4	<p>Q. What is expected for concrete finish once the Z-beams have been removed from the perimeter girders that are to remain?</p> <p>R. Refer to detail 4/S400.</p>
24.	01 74 23 1.03.B	<p>Q. Will there be additional cleaning of the tanks after construction is completed before the tanks are placed back into service?</p> <p>R. Construction debris shall be removed.</p>
25.	Drawings D-S111 & D-S112	<p>Q. Will all the concrete columns be removed as part of this project?</p> <p>R. Not all columns. See Sheet No. 13 and 14 (D-S111 and D-S112) for column removal.</p>
26.	Drawings M002, D-M121, E001 and Sections 01 14 00 and 23 05 93	<p>Q. Who will be responsible for putting the tanks back in service, the contractor or the treatment plant?</p> <p>R. WPTP will place the tanks back in service, however, Contractor shall provide either permanent or temporary electrical service and odor control systems as required for the tanks to be placed back in operation.</p>
27.	Reference Drawings	<p>Q. When were the existing foul air ducts installed?</p> <p>R. The odor control system was installed in the late 1990s. Refer to the KC WPTP Sedimentation Basins - 1996 Drawings, included with the Design Drawings for Existing Facilities.</p>
28.	Drawings D-S121 to D-S123 & DS125 and Section 02 84 00	<p>Q. How should the PCB caulking be treated if it is left in place?</p> <p>R. See the drawings and specification section 02 84 00 for PCB's designated for removal from project. No action required on existing caulking not designated for removal.</p>

Ref.	Section and Page or Drawing	Questions and Responses
29.	Drawings M002, D-M121, E001 and Sections 01 14 00 and 23 05 93	<p>Q. Will the basins be turned back on by King County?</p> <p>R. WPTP will place the tanks back in service, however, Contractor shall provide either permanent or temporary electrical service and odor control systems as required for the tanks to be placed back in operation.</p>
30.	01 14 00 1.04.G & 01 19 50 1.03.D	<p>Q. Do all the odor control panels have to be removed from a quadrant?</p> <p>R. No. Contractor only needs to remove those panels that interfere with construction activities but may remove all panels from a quadrant.</p>
31.	Drawings E202, E204, E206 & E208	<p>Q. Can the alignment of the E-W conduit run be shifted over.</p> <p>R. Please base your bids on the contract documents as written.</p>
32.	Drawings E001, E330 & E331	<p>Q. On plan sheet E207 a conduit is shown for installation, conduit starts adjacent to gridline 20E south of GL- C at a J-box, this conduit is than routed south approximately 10' and then turns heading west running parallel to gridline C towards gridline 15E. The conduit than turns and routes south parallel to GL 15E and continues on to page E208 until approximately GL-K where it is to terminate at another J-box. From this J-box a conduit is installed running parallel to GL-K and is to terminate at another J-Box located just east of GL 20E. From this J-Box there are (2) separate conduits that route to Control Stations HS05FN041 as well as HS05FN031, these devices are not listed on the conduit and cable schedule for the facility. The J-Box located at approximately GL 15E and GL K also has another conduit that originates from this J-Box and heads south until approximately GL-P where it routes east until GL 20E the conduit than turns and routes back north until it terminates at a J-box located at the intersection of GL-20E and GL-N, from this J-Box (2) additional conduits are installed to control stations HS05FN061 and HS05FN051.</p> <p>This entire run of conduits is not labeled and devices are not shown on the conduit and cable schedule. Please provide the conduit size for all of the conduits listed within this RFI. Please provide the conductor counts for all of the conduits listed within this RFI.</p> <p>R. Please see Addendum 4 for notes added to E001, E330, AND E331.</p>

Ref.	Section and Page or Drawing	Questions and Responses
33.	Drawings D-E203, D-E204, E203, & E204.	<p>Q. Drawing D-E204 indicates conduit C06205 originates from a J-Box located adjacent to GL-3W just south of GL-L, this conduit then continues north parallel to GL-3W and terminates at another J-Box located north of GL-E adjacent to GL-3W it is shown as conduit C06203 on plan sheet D-E203. Key note one is indicated on drawing D-E204 key note #1 states “Conduits are to be demolished after new raceways are installed refer to E204. Provide temporary support as required.” After referencing plan sheet E204 as well as E203 neither of these conduits are indicated for re-installation. The above-mentioned conduit Id’s are also not referenced within the conduit and Cable Schedule. Please provide the following information.</p> <p>Please provide conduit size and conductor count for conduits C06205 & C06203 as shown on plan sheets D-E204 & D-E203. Please also confirm that these conduits are not required for re-installation since they are not shown on the installation plan sheets shown on E203 & E204, if these conduits are required for installation please provide conduit ID if different than what’s shown on the demo plans as well as the conduit size and conductor count.</p> <p>R. Key Note 1 is a general note for existing conduit & wire to be replaced under this contract. The indicated raceway & conductors noted be demolished & not shown to be replaced as new work need not be temporarily supported or replaced.</p>
34.	Electrical Drawings J101 - J112	<p>Q. Throughout the Demo plan sheets of D-E201 through D-E208 key notes #3 & #5 indicate the contractor is to demolish Torque Switches and Control Stations as well as their associated conduit. The installation plans depict the installation of Torque Switches and Control Stations at various locations throughout the sedimentation tanks. It is assumed King County would like new control stations as well as torque switches for the re-installation. Please clarify the following:</p> <p>Please provide a detail for the functionality of the control stations, one-line diagrams, or technical specs. These additional details are needed to accurately provide what is required. The plans and specifications given only include generic manufacturer models; however they do not provide a functionality detail. Additionally, within the specifications the “New Asset” Excel sheet has been provided that lists drawings for reference such as E0605 & E0606 & E0607, etc., the current bid set does not account for these drawings.</p> <p>Please clarify the functionality of the Torque Switches required as well.</p> <p>R. Refer to Reference Drawings J101 through J112.</p>
35.	Drawing E350	<p>Q. Key Note 2 on drawing E101 says “Route conduit on Tank Deck. Provide “Threshold” as Required”. Please provide more information on what is meant by “Threshold”?</p> <p>R. Refer to Detail 5 on sheet E350.</p>
36.	01 14 00 para 1.06	<p>Q. Spec 01 14 00 Work Restrictions Spec section 1.06 calls for liquidated damages for failure to achieve substantial completion and final acceptance. Are the substantial completion milestone dates for in-tank concrete upgrades listed in Spec section 1.03 also subject to liquidated damages?</p> <p>R. No.</p>

Ref.	Section and Page or Drawing	Questions and Responses
37.	Drawing D-S121	<p>Q. DWG D-S121 Keynote 4 calls for removal of existing membrane roofing from all flat roof areas. What is the existing roof system comprised of?</p> <ul style="list-style-type: none"> - type of roof (BUR, single ply)? - type and size of insulation and method of attachment? - has it been tested for ACRM (Asbestos)? <p>R. The existing roof is a built-up roof (BUR) with gravel. The BUR roof was applied directly to the concrete. Method of attachment is unknown. The BUR was not tested for asbestos.</p>
38.	Drawing S421	<p>Q. DWG S421 S421 Detail 7 - the weld symbols are confusing and potentially conflicting with that of Detail 4, which calls out "Do Not Weld" for Angle per 7/S421</p> <p>R. Please see Addendum 4 for weld call-outs revised on Detail 7/S421.</p>
39.	Drawings S123 thru S128	<p>Q. DWG S123-S128 "DO" is an abbreviation for DITTO per S007. However, its use on the roof level plans, for example, is unclear. The use appears sporadic and it could be interpreted that DITTO means W10x17 or W18x35. For the roof framing specifically, can DO be replaced with the required member size?</p> <p>R. The DO's on grids C, E, H, L and N are W10x17s.</p>
40.	Drawing S003 and S430	<p>Q. DWG S430 Detail 12/S430 shows field welding between 6" pipe station and base plate - can the field welds be done in the shop? If adjustment is needed in the field, we would recommend leaving the bolt holes out of the base plate and drilling those in the field, this would give some field adjustment. Field touch up of galvanized metal is not ideal and field welding causes a lot of touch up.</p> <p>R. Please see Addendum 4 for sheets S003 and S430. Weld symbol revised from field weld to shop weld per comment. Note 54 on S003 revised to allow Contractor to use either shop or field welds for fabrication and erection.</p>
41.	E101 through E108	<p>Q. Clarify whether the lights listed as an Egress light for the project are required to be circuited from an emergency power source? Is the emergency power source to come from a panelboard, or is the "self-contained cold weather battery backup" considered the emergency power source?</p> <p>R. Provide lighting fixture with self-contained cold weather battery backup per luminaire schedule where indicated on plans.</p>
42.	NA	<p>Q. Confirm there are enough Egress fixtures for the area to be constructed, there are a total of 6 egress lights (S2-1E) for the entire East & West tank structures. In the event of a power outage there will only be a total of 6 lights that will remain illuminating.</p> <p>R. Provide lighting fixture with self-contained cold weather battery backup per luminaire schedule where indicated on plans. Additional egress lighting fixtures not required per NFPA 101 Chapter 11, 11.2.2.8, 11.2.2.9, 40.2.8, and 40.2.9.2 (1).</p>

Ref.	Section and Page or Drawing	Questions and Responses
43.	E101 through E108	<p>Q. Verify that the nightlights indicated on the plan as “NL” are only to be wired to an unswitched circuit. So that the 6 nightlights called out as S2-1E are the only lights to be provided with a “self-contained cold weather battery backup”.</p> <p>R. Provide unswitched conductors for nightlights (NL) as indicated per general note 6 on drawings E201 through E208. Provide lighting fixture with self-contained cold weather battery backup per luminaire schedule where indicated on plans.</p>
44.	E201 through E208	<p>Q. Are the junction boxes shown on drawing E201 between Grid Lines 15W and 14W supposed to be Explosion proof? These boxes don't have a “XP” designation by them or any designation other than “J”. Per General note 1 on drawing E201, we are confused.</p> <p>R. All new wiring located from tank lid to 36 inches above the tank lid shall be provided in accordance with installation practices that comply with NEC Article 500, Class 1, Div 2 locations as indicated in general note 1 on drawings E201 through E208.</p>
45.	E001	<p>Q. Are the junction boxes shown on drawing E101 between Grid Lines 19W and 15W supposed to be Explosion Proof? These boxes have a “WP” designation near them and not a “XP”</p> <p>R. Designation "WP" indicates weatherproof as indicated in List of Abbreviations shown on drawing E001.</p>
46.	Section 00440-A1, 00700, and 00800	<p>Q. Spec 00440-A1, Spec 00700 - With regard to the WPTP Primary Sedimentation Area Roof Structure, in Volume 1 of the Bidding Requirements and Forms General Terms and Conditions, Section 00440-A1, page 4, item 1.5.A states that “The Bidder... shall perform work equivalent to at least 25% of the total Bid Price for Labor, excluding taxes, insurance and bonding.”, whereas in section 00700, page 9, items 3.0.E states “The Contractor shall perform at the Site, and with its own forces, work equivalent to at least twenty-five percent (25%) of the Contract Price. Please confirm that the Contractor is only required to complete work equivalent to 25% of the Contract Price, and that all non-subcontracted work included in the Contract Price can be counted towards the 25%.</p> <p>R. Please see Addendum 4 for changes to Section 00800.</p>
47.	Section 00020	<p>Q. Will the County consider a bid extension to give the contractors and suppliers time to process the information from Clarification #2 and Addendum #4 when they come out?</p> <p>R. No. King County is not considering another bid extension at this time.</p>
48.	Section 05 50 00	<p>Q. Please confirm the number of stainless steel swivel hoist rings required for each of the portable stairs per Section 055000, 2.07, A. The portable stairs are to include four of the manufacturer's standard lifting lugs for each stair per Section 055000, 2.09, A, 6.</p> <p>R. See Addendum 4 for changes to Section 05 50 00 Metal Fabrications.</p>
49.	Section 26 50 00	<p>Q. Specification 26 50 00 section 3.03.B.2 (a-g) details the type of fixtures required for the project. The descriptions within this specification for the emergency fixture appears to contradict what is called out for installation within the luminaire schedule located on sheet # 188 E332. The lights listed as (P2-1E, P4-1E, P4-2E, and S2-1E) indicates that these light fixtures are to be connected to an emergency power</p>

Ref.	Section and Page or Drawing	Questions and Responses
		<p>source for use as egress illumination. However, within the luminaire schedule there is only one type of Egress Fixture listed as a S2-1E fixture. This fixture is to be provided with a “Self-Contained Cold Weather Battery Backup”.</p> <p>R. Please see Addendum 4 for changes to Section 26 50 00. Provide lighting fixture type S2-1E with self-contained cold weather battery backup as shown. Connect new lighting fixtures to existing Square D PowerLink panels as indicated. Lighting fixture types P2-1E, P4-1E, & P4-2E are not used.</p>

This Clarification will not form a part of the Contract Documents. Bidders are reminded to review addenda for changes to the Invitation to Bid documents.

Issue date: 12/4/2020

Contract Specialist: Megan Saunders, megsaunders@kingcounty.gov , 206-263-6813

Back-Up Contract Specialist: Liz Evans, levans@kingcounty.gov, 206-263-7898