ADDENDUM NO. 3

TO CONTRACT DOCUMENTS

FOR: CITY PROJECT NO. 20-009 WELL 38 ARSENIC MITIGATION AND ICF TREATMENT

July 2, 2020

NOTICE TO BIDDERS

This Addendum is attached to and made a part of the above entitled Contract Documents for the City of Turlock.

This Addendum No. 3 consists of 21 pages.

Response to Bidder's Questions

<u>Question No. 1:</u> This question is from a bolted steel tank subcontractor: We need to know if the project will require 2019 CBC approval and design to be met, or if it will fall under CBC 2016. This will determine if the concrete floor and embedded starter will be allowed or not.

<u>Answer No. 1:</u> The project shall require 2019 CBC design and does apply to the bolted steel tank. See Revisions to the Specifications Item 1 of this Addendum for clarification on the seismic uplift assumptions that accommodate Type 6 embedded connection.

<u>Question No. 2:</u> Will the Owner remove the old well pump stored on-site next to the existing maintenance shed? See photo below. This area is scheduled to receive a slurry seal.



<u>Answer No. 2:</u> Bidders shall assume that the pump materials will be relocated by City staff to provide adequate room for the contractor to place a slurry seal over existing asphalt concrete pavement.

<u>Question No. 3:</u> There is equipment, tools, ppe, kitchen appliances, etc. inside the structure scheduled for demolition. Will these items be removed prior to contractor mobilization and scheduled demolition? Or will contractor be responsible for salvaging / disposing of these items?

<u>Answer No. 3:</u> All equipment, tools, PPE, appliances inside the structure will be removed by City staff prior to demolition.

<u>Question No. 4:</u> Per the drawings on S60-01, S50-01, and SD-1, a sand layer with vapor barrier is to be placed below the floor slabs at the Maintenance Shed and Chemical Bldg. The call-outs state that this is to be placed over the subgrade but the details for the buildings appear to show another layer of material that is not identified. Please clarify.

<u>Answer No. 4:</u> See Plan Revision Item Number 5 this Addendum for an added note in the Soil and Foundation Section on Sheet S00-01.

Question No. 5: Does the City have a site which the excess spoils can be utilized?

<u>Answer No. 5:</u> Bidders shall assume that excess spoils are to become the property of the contractor and hauled and disposed off site in a legal manner.

<u>Question No. 6:</u> We would also like to formally request Loprest being named as an approved supplier on the project.

Answer No. 6: Loprest shall be an approved filter supplier.

<u>Question No. 7:</u> I was interested to know if the manganese dioxide media, also known as pyrolusite, is the only media allowed for this application or if you would also consider manganese greensand plus as an option.

Answer No. 7: Manganese dioxide shall be the only approved media for this project.

Question No. 8: The SC 200 controller that is specified for use with the Turbidimeter cannot perform predictive diagnostics. In order to get the predictive diagnostics feature, we will have to quote the SC 1000 controller instead. Is it okay for us to quote the SC 1000 instead of the SC 200? The SC 1000 controller can have up to 6 inputs. Do we want to pair this with any of the other instruments specified in lieu of the SC 200s (depending on proximity). If the instruments are too far apart, we will be limited on this. Do we want to have the predictive diagnostic feature for the pH and chlorine analyzer as well, in which case we would also need to consider the SC 1000?

<u>Answer No. 8:</u> The turbidimeter shall not require predictive diagnostics and the SC 200 shall be acceptable.

<u>Question No. 9:</u> The turbidimeter has some options: an automatic cleaning module (good for raw water or turbidimeters located in remote areas), flow meter, RFID capability (good for use with calibration) and a system check that has some basic troubleshooting diagnostic features. Should we include any of these features in the one that is quoted?

<u>Answer No. 9:</u> Options for the turbidimeter shall be as listed in Specification 40 50 30. The laboratory turbidimeter shall not be required. See Revision to Specification Item 2 this Addendum.

<u>Question No. 10:</u> Is Garco Metal Buildings acceptable equal for this project? Garco and Star are both owned by Cornerstone Building, and appears to meet spec.

Answer No. 10: Garco Metal building shall be an approved equal.

<u>Question No. 11:</u> We ask that you consider the approval of American Buildings Company as an acceptable manufacturer of the pre-engineered metal buildings (PEMB) for the City of Turlock, Well 38 Arsenic Mitigation project.

Answer No. 11: American Buildings Company shall be an approved equal.

<u>Question No. 12:</u> During the Site Visit we noticed several piles of soils and/or mulch stockpiled on the site. Is it the City's intent for the contractor to remove these stockpiles? If so can the City please provide some insight into what these stockpiles consist of and if it is our responsibility to remove these, can the City please provide analytical tests to confirm that it is not contaminated for these, as it is required for us to dispose of material offsite.

<u>Answer No. 12:</u> City staff will remove stockpiles that conflict with proposed improvements.

Question No. 13: Please identify what other work is required for Bid Item #28.

<u>Answer No. 13:</u> Bid item no. 28 includes all construction contract costs not attributed to other bid items. If bidder believes that the other bid items cover the entirety of the project costs, enter \$0 under this bid item.

<u>Question No. 14:</u> Please confirm that it is the City's intent that specification Section 13 34 19 para 1.8.B is correct.

Answer No. 14: Section 13 34 19 Paragraph 1.8 B shall be revised to refer to Section 13 07 00 Seismic Requirements for Contractor Furnished and/or Installed Items. See Specification Revision Item Number 6 this Addendum.

<u>Question No. 15:</u> Per Sheet C-3 Demolition Callout #07 directs the Contractor to demolish the 4' material partition walls. However, Per Sheet C-4 Site Legend #13 shows that the contractor is supposed to replace the existing concrete slab and install new 4' partitions. Is it acceptable for the contractor to replace the walls only?

Answer No. 15: Concrete slab and walls shall be provided as shown on Sheet C-4

<u>Question No. 16:</u> Do any other foundations require vapor barriers? Only called out for Maintenance shed & Chemical Storage.

<u>Answer No. 16:</u> Vapor barriers are only required as shown in the Maintenance Shed and the Chemical Storage Building. Subgrade and barrier (if any) in the demolished section of the pump building shall be repaired after installation of the under-slab utilities.

<u>Question No. 17:</u> Please verify slab thickness on Item 13 Sheet C-4. Calls out Detail 1/D-2 8" Footing & 6" Slab. See SD3 for wall which shows a 18" thick Slab. Also alignment of wall with footing off-set or no?

<u>Answer No. 17:</u> Footing for wall shall be 4'-0" wide. Top of slab and top of footing to match. Transition to 6" slab by stepping bottom of footing. Lap every other #4 in slab to #5 in top layer of footing. See Plan Revision Item Number 7 this Addendum.

Question No. 18: 13 34 19 Section 3.4G Says to provide insulation where indicated, but no drawings actually call out

insulation. It is my assumption that the Mechanical shed will have the insulation spelled out in specification and the chemical storage would have no insulation. Please confirm.

<u>Answer No. 18:</u> Insulation for the maintenance shed shall be as specified in 13 34 19 section 2.3. The chemical storage structure does not require insulation.

<u>Question No. 19:</u> 13 34 19 Section 1.7 B calls out for 10 psf dead load for the mechanical piping and ceiling loads in addition to metal building dead load. Add 5 psf collateral load for the mechanical piping in areas where no ceiling is specified. Since there does not appear to be any ceilings attached to the building structure and we will need to add the mechanical as a collateral load. Do you want us to design the building with 10 psf or 15 psf. Additionally, will 2-3 psf be adequate for lights or any other misc. trades you plan to hang from the structure?

<u>Answer No. 19:</u> 10 psf is adequate for the mechanical loads and 2 psf is adequate for the electrical loads.

<u>Question No. 20:</u> 13 34 19 Section 2.3 of Specifications calls out for Zinc Aluminum coating on roof, galvanized G90 elsewhere.

- Please confirm "Elsewhere" Applies to walls and trim? Or only Walls?
- Section 2.11 Finishes: Calls out for Siliconized Polyester finish. Is that to be over a G90? Or can we use the standard Galvalume substrate?

<u>Answer No. 20:</u> Confirmed that elsewhere applies to walls and trim. Standard Galvalume substrate shall be acceptable.

<u>Question No. 21:</u> Chemical Storage Bracing There does not appear to be any wall bracing shown on this structure.

- Do you want us to fix the base and remove wall bracing?
- Or Provide a portal frame bracing?

<u>Answer No. 21:</u> The metal building manufacturer shall select the best location for the bracing so long as it does not interfere with the door openings.

<u>Question No. 22:</u> We would like to request Nucor Building Systems be approved as an acceptable Manufacturer – Building Systems.

Answer No. 22: Nucor shall be an approved equal.

<u>Question No. 23:</u> Spec section 26 05 00, 1.08, F. Fees, Permits and Utility Services 1. Arrange for all utility connections and pay charges incurred including excess service charges if any. Has the City been in contact with TID to establish a cost associated with the new service required for this project in order for the contractor to include it in the bid?

Answer No. 23: Contractor shall not be responsible for the new TID electric service fee.

<u>Question No. 24:</u> 46 61 21 Pressure Filter system 1.1.B.9. Please define appurtenances (vessel testing is standard but factory testing the full scope of supply including assembled manifold piping is not possible).

<u>Answer No. 24:</u> Vessels shall be hydrostatically tested in the factory and the manifold piping shall be tested in the field.

<u>Question No. 25:</u> 46 61 21 Pressure Filter system 2.2.H.1. We suggest that the spec be amended to include a hood or some form of integrated cover for the control panel and analyzers to protect from direct sun and rain.

<u>Answer No. 25:</u> The control panel shall be in a cabinet and the analyzers are already inside of a building.

<u>Question No. 26:</u> 46 61 21 Pressure Filter system 2.4.A. References contact tank but we do not see one specified or shown on the drawings. Please clarify.

<u>Answer No. 26:</u> Disregard the reference to the contact tank. No contact tank shall be required.

<u>Question No. 27:</u> 46 61 21 Pressure Filter system 2.3.D.2 and 2.5.C.1-4. Specification calls for both Wedgewire screens and support gravel. Either is acceptable but typically only one of these is necessary. Please confirm that both should be provided in this case.

Answer No. 27: Both shall be provided.

<u>Question No. 28:</u> 46 61 21 Pressure Filter system 2.8 E. We are not able to do the fusion bonded coating inside of the piping and would recommend Tnemec N140 epoxy instead. This is also in line with item 2.12 A. where the spec. reads "The interior and exterior surfaces of the vessels and process piping shall be finish coated in the factory". and goes on in B. thru D. to list the painting then in E. goes back to the fusion bonding of the piping. We believe the fusion bonding requirement should be removed in both places.

Answer No. 28: Coatings shall be as specified in 46 61 21

<u>Question No. 29:</u> 46 61 21 Pressure Filter system 2.10.A. Flowmeters are referenced here, also in 40 91 25, also shown on various drawings. It is not clear which flowmeters the Pressure Filter system supplier is to supply and which to control.

<u>Answer No. 29:</u> Each filter vessel shall have a flow meter provided by the Pressure Filter Supplier as specified in 46 61 21 and as shown on sheet G-6. Flow meters listed in 40 91 25 - 2.7 Service Conditions shall not be supplied by the Filter Supplier.

<u>Question No. 30:</u> Regarding pH sensors, there is a discrepancy between the specification and the P&ID. The specification says Rosemount or equal. We would be able to quote the Hach equivalent product. However the P&ID says Rosemount, NO EQUAL. Can we get some clarification on whether we can include the Hach equivalent pH sensor on the quote, as we will not be able to quote the competitor Rosemount pH probe

<u>Answer No. 30:</u> The P&ID does not call out manufacturer product names. The Specification allows for an equal. A HACH pH probe shall be considered equal if the submitted model met the requirements of Specification 40 50 30.

Question No. 31:

11 00 00 1.5A This spec calls for "Contractor to guarantee all equipment against faulty or inadequate design, improper assembly or erection, defective workmanship or materials, and leakage, breakage, or other failure." Please advise if Contractor is to be responsible for design, inasmuch as we are not in control of design (i.e., either owner or manufacturer's issue).

<u>Answer No. 31:</u> Section 1.5 refers to the equipment provided by manufactures that the Contractor has hired or paid for not the Owners design.

<u>Question No. 32:</u> Spec calls for SSTL wedgewire UD laterals – not recommended or necessary with gravel support beds. Can we take exception to this spec and provide PVC laterals with SSTL UD gravel retaining nozzles?

Answer No. 32: The underdrain system shall be as specified per 46 61 21

<u>Question No. 33:</u> Pressure Filters Black iron facepiping (even though the plans almost appear to depict the piping as PVC looking at the joints/fitting connections). Can you clarify?

Answer No. 33: Face piping shall be as specified per 46 61 21

Question No. 34: Who are the approved Systems Integrators?

Answer No. 34: TESCO, PRIMEX, TSI, and Telstar shall be approved System Integrators.

<u>Question No. 35:</u> Butterfly Valve Identification – Sheet P30-02 Section C: 8" butterfly valve connecting backwash inlet to 16" distribution pipe is not labeled. Please indicate whether this is Type 1 or Type 3 per § 40 05 23.

Answer No. 35: Type 1

<u>Question No. 36:</u> Combo Air Valve Identification – Sheet P30-02 Section B: 2" combo air valve is not labeled. Detail 1 on Sheet D-5 indicates valve size is as noted on plans. It appears to be Type 1 based on size and application. Please confirm.

Answer No. 36: Detail Callout is on sheet P30-01, 1" Type 1 Combination Air Valve

<u>Question No. 37:</u> Hardware for Flanged Connections - § 05 05 20, 2.3 & 2.6 and § 40 05 00, 2.20 have conflicting specifications for bolts and washers. Please confirm hardware for steel pipe should adhere to § 40 05 00 2.20.

<u>Answer No. 37:</u> Section 05 05 20 is for structural connections. Hardware for steel pipe shall be as specified in 40 05 00

<u>Question No. 38:</u> Chemical Injection Taps – Detail 5 on Sheet D-4 shows ¾" couplings for chemical injection quills. Spec § 44 42 48, 2.5 calls for 1" NPT minimum. ¾" matches the SAF-T-FLO EB 125 Injection Assembly cited in the plans. Please confirm chemical injection taps shall be ¾".

Answer No. 38: Chemical injection taps shall be ¾ inches

<u>Question No. 39:</u> Sheet P30-02, Section C, Note 2 points to a Tiered Pipe Support and references a ½" threaded port. Is there to be a sample port coincident with the pipe support? Please clarify what this note is communicating

<u>Answer No. 39:</u> Sample port for sample tap downstream of chemical injection shown on Sheet G-5. Note details how to route tubing down the pipe support so that the sample port can be accessed from the filter pad.

<u>Question No. 40:</u> Sample Taps – Sheet P30-01 calls out a pre-filter Type 2 sample tap (Detail 3, D-4)on the 16" influent line, and Sheet P30-02, Section C calls out a Type 1 sample tap (Detail 3, D-3) on the 16" effluent line. Neither sheet shows both taps. Please clarify the number and location of sample taps as well as the preferred method of construction for each.

<u>Answer No. 40:</u> It appears the bidder is confusing the manual sample taps in the yard with the sample taps that are connected to water quality analyzers. Refer to Sheets G-5 and G-6 for clarification.

Question No. 41: Pipe Spec § 40 05 00, 2.3 calls for steel pipe 12-inches and smaller to conform to ASTM A120 and steel pipe larger than 12-inches to conform to ASTM A139. The A120 Standard was withdrawn by ASTM in 1987 and replaced with A53. Spec § 40 05 14, 2.2 also specifies materials for steel pipe: A53, Grade B. Please confirm piping shall comply with ASTM A53, Grade B.

Answer No. 41: Confirmed.

<u>Question No. 42:</u> In Addendum #2, Item #9 says the chain link poles are to be 3" Diameter Standard Pipe. Can you clarify what the lineal foot weight of the standard pipe is and is the given 3" pipe size for a ID size or an OD size.

Answer No. 42: 3" standard pipe is schedule 40. OD is 3.5".

<u>Question No. 43:</u> Please provide written specs for the gate operator and the Iron Fence. There is only iron fence details and no written specs.

<u>Answer No. 43:</u> Automatic Sliding Gate operator shall be a Viking Access L3 Slide Gate Operator with Battery Backup System or approved equal. Power requirements and accessory features for Gate Operator are shown on sheet E1.1. Metal fence material, gage, thickness, coatings, and color can be found on Sheet D-1 Civil Details.

<u>Question No. 44:</u> Special Provision 5.21 as well as Spec Section 31 23 19 discuss compaction testing. Would you please clearly define who is responsible for paying for soil compaction tests, both beneath structures and in trenches? It is understood that the costs for any retests are the responsibility of the Contractor

<u>Answer No. 44:</u> Owner Shall pay for testing and Contractor shall pay for any re-testing. Refer to Revision to Specifications item No. 3 this Addendum

<u>Question No. 45:</u> We cannot seem to find any information regarding the Acoustibok sound attenuator panel per legend item #16 on Sheet P10-01. Please provide information regarding what the City requires for this item.

<u>Answer No. 45:</u> Contractor shall provide Acoustiblok All Weather sound panel with STC 37 rating or equal as dimensioned on Sheet P10-01. Foundation requirements provided in Addendum 2 Response 9.

<u>Question No. 46:</u> 1/ On sheet LA-2 Irrigation Plan, the legend does not show model or manufacturer of items. Please clarify.

<u>Answer No. 46:</u> Sheet LA-2 does callout make and model of irrigation equipment and if a City Standard exists for a piece of equipment, the City Standard Detail is listed which would list make and model of equipment.

<u>Question No. 47:</u> An over-excavation detail is provided as Detail 2 on SD-3. This detail is not referenced on any other drawing. Please clarify which concrete structures this detail applies to.

Answer No. 47: It applies to all new mats and foundations.

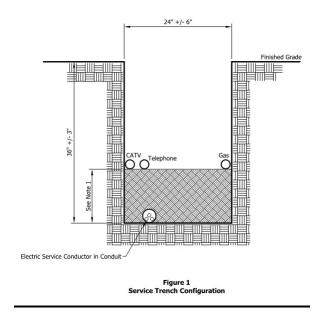
<u>Question No. 48:</u> City Standard for manholes S-15 shows a 5' ID Manhole with flat top. However, On Sheet C-10 it is called out to be 48" ID and is shown to have an eccentric cone. Which type Manhole does the City want installed?

Answer No. 48: 5 foot. Refer to Revision Item no. 5 Addendum 2

<u>Question No. 49:</u> Drawing E0.0, ELECTRICAL TITLE SHEET/GENERALELECTRICAL LEGEND, third note; STATES, - - - - CONDUIT –CONCEALED BELOW FLOOR IN EMT OR UNDERGOUND IN PVC_SCH 40 WITH IMC ELBOWS_The Drawings E3.1, 3.2, CONDUIT CABLE SCHEDULE details the CONDUIT - QUANTITY, SIZE AND TYPE for the project. Do we use this information as the basis for the quantitative Conduit take-off for this Project?

<u>Answer No. 49</u> In general, the Specification and Legend will define the type of material allowed within the project. The Conduit and Cable schedule explicitly states the quantity and material to be used for the various applications and should be the basis for your bid take off. If the Schedule is not clear then differ back to the Specifications and Legend.

<u>Question No. 50:</u> Per Detail 3/E4.2 conduit envelope is shown as red concrete. However, per T.I.D. DWG. No. 303571 G



N	O	te	s	:

1. 1'-6" minimum loose backfill, water soaked when trench is filled; or 1'-0" compacted backfill, with compaction to be not less than 95% relative compaction.

<u>Answer No. 50:</u> All conduits associated with TID will follow TID requirements and not 3/E4.2. Detail 3/E4.2 is for onsite, private (City owned) conduits only.

<u>Question No. 51:</u> On plan sheet D-2 the chain link fence is show as 6' high. On Plan sheets S50-02 and plan sheet S50-03 it shows the building elevations and the chain link fence is shown as 12' high. Please clarify the height of the chain link fence that is to be installed at the Chemical Storage Building.

<u>Answer No. 51:</u> Chain Link Fence at the Chemical Storage Structure shall be 12 feet as shown on Sheets S50-02 and S50-03

1) <u>Question No. 52:</u> The wrought iron fencing detailed on sheet D-1 shows an overall height of 90" tall, however the notes on sheet LA-5 calls for 7' metal fence. What is the desired fence height 90" or 84"?

<u>Answer No. 52</u>: Fence shall be constructed per the details shown on Sheet D-1 which includes the overhang and 90 inch height

<u>Question No. 53:</u> Detail D/D-1 shows a curved top picket but standard fence design for this style of fence is a bent top. What is the desired picket top finish?

Answer No. 53: Contractor shall provide fence as shown in Detail D Sheet D-1

<u>Question No. 54:</u> There are no specifications for the wrought iron fencing. Should the fence and gates be pregalvanized material with black powder coated finish or raw steel with black powder coated finish?

Answer No. 54: Raw steel with black powder coated finish

<u>Question No. 55:</u> There are no specifications for the chain link fencing. Should the material be galvanized or black vinyl coated finish? What are the post and rail sizes?

Answer No. 55: Material Shall be Galvanized. Refer to Revision Item 9 in Addendum 2

<u>Question No. 56:</u> The details and notes on sheet S50-02 call for privacy slats in the chain link mesh. Should the chain link be 9 gauge 2" mesh with hand stuffed PVC slats or industry standard 3"x5" mesh with pre-woven PVC privacy slats?

Answer No. 56: 9 gauge 2" mesh

<u>Question No. 57:</u> Detail A/SD-1 shows the chain link post embedment in the deepened edge curb but the dimension of the curb and depth of the posts in the curb is not specified. Dimensions are required for accurate post length.

Answer No. 57: See A/SD-1 for a 3" clearance to the bottom of the curb. Per the plan view the curb footing (CF1) is 12". Refer to detail A/SD-1 for the location of that measurement.

<u>Question No. 58:</u> The flowmeter schedule included in Section 40 91 25 indicates that the well pump discharge flowmeter 10-FE/FIT-001 is NEW, however, the exisitng material list on drawing sheet P10-02 indicates that it is existing

<u>Answer No. 58:</u> The existing meter shall remain per Sheet P10-02 and the meter shall receive new power and communications per Sheet E2.1. A new meter is not required. See Specification Revision Item 9 this addendum for clarification on the tag numbers in the Service Conditions.

<u>Question No. 59:</u>Specification 26 29 23-4 Calls out Expensive Filtering Requirements not shown on the detailed plan layouts (which will affect costing/sizing of equipment provided).

Answer No. 59: Shall be provided as specified.

<u>Question No. 60:</u> Specification 26 29 23-4 and 10 Calls Out RVSS Bypass Backup for Each VFD – Drawings do not reflect requirement.

Answer No. 60: RVSS not required. See Specification Revision Item 10 this Addendum.

Revisions to Plans and Specifications

The following additions, deletions or modifications shall become part of the Contract Documents:

Strikethrough text (text) indicates deletions.

Bold Italicized text (text) indicates additions.

ITEM NO. 1:

Section 43 41 11 Bolted Steel Water Storage Tank

Revise 1.4 Seismic Design as Follows

B. Design based on the following criteria

Parameter	Value	Units
Latitude	37.52991	• • • • • • • • • • • • • • • • • • • •
Longitude	-120.88110	
Spectral Response - 0.2 sec (Ss)	0.676	g
Spectral Response - 1.0 sec (S1)	0.267	g
Soil Site Class	D	
Site Coefficient Factors (Fa)	1.259	
Site Coefficient Factors (Fv)	2.066	
Adjusted Spectral response (SMS)	0.851	g
Adjusted Spectral response (SM1)	0.552	g
Design Spectral Response (SDS)	0.568	g
Design Spectral Response (SD1)	0.368	g
Seismic Use Group	II	
Importance Factors (I)	1.25 1.0	
Seismic Design Category (SDC)	D	
Response Modification Coefficient (R)	3	
Long-Period Transition Period (TL	12	sec
Redundancy Factor (ρ)	1.3	

C. The Bolted Steel Tank seismic design liquid level assumption shall be per the filter backwash design Per Sheet G-4 Design Criteria and shall be designed for the 30,144 gallons as listed. The volume of liquid in the concrete cone bottom may be deducted from the filter backwash design quantity.

ITEM NO. 2

Section 40 50 30 Water Quality Analyzers

Revise Section 2.4 Turbidimeters as follows removing laboratory equipment:

C. Furnish laboratory turbidimeter with the same 360° x 90° detection system as the online turbidimeter, for validation of readings from the online turbidimeter.

ITEM NO. 3:

Section 31 22 19 Finish Grading

Revise Section 1.4 Quality Assurance as follows:

1.4 QUALITY ASSURANCE

- A. Relative Compaction:
 - 1. Owner shall pay for all compaction tests and Contractor shall pay for retesting per Special Provisions section 5.21.
- B. Tests for compaction shall conform to references listed in Part 1.3 of this section Special Provisions 5.21

ITEM NO. 4:

Section 32 12 16 Asphalt Concrete Paving

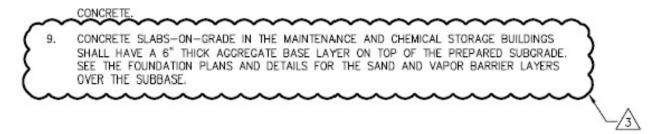
Revise Section 1.5 Quality Assurance as follows:

B. Testing required to, determine compliance for the work of this section shall be performed by an independent testing laboratory arranged and paid for by the Owner, approved by the Engineer and appointed and paid for by the Contractor. The independent testing laboratory shall be used to sample and test asphalt concrete at the job sites. One test shall be taken for each paving period and at least one test every four hours. As a minimum, results of the test shall include items A, B, C and E of the job mix formula submittal. Contractor shall pay for any re-testing per Special Provisions 5.21

ITEM NO. 5:

Sheet S00-01 Structural Notes

Add the following note under Soil and Foundation Notes



ITEM NO. 6

Section 13 34 19 Metal Building

Replace Section 13 34 19 paragraph 1.8B with the following:

Design structure to resist seismic forces. Determine V per CBC Chapter 16A (Building Category 3):

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Z = 0.40 (PGA = 0.26 g)
Soil Profile = Type S<sub>D</sub>.
Na = 1.0 source factor
Nv = 1.0 source factor
| = 1.00
R = 4.5 for moment-resisting frames.
R = 4.2 for braced frames, provided that all members and connections in braced frames be designed for 3(Rw/8) times the design seismic force.

R = 2.2 cantilevered column building
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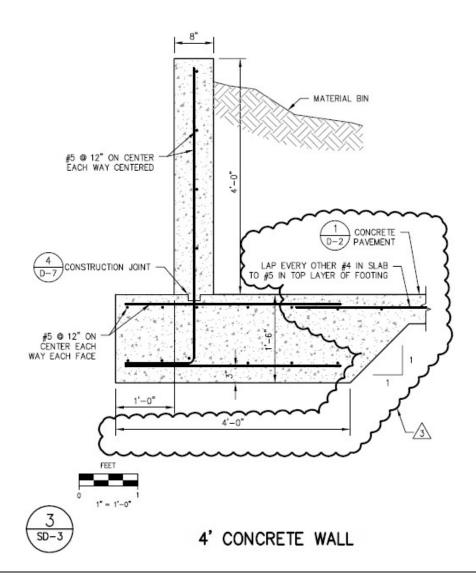
- 2 Limit drift due to seismic forces, computed at the eave, to H/200.
- 3 Design structure to carry equipment loads including, but not limited to, mechanical equipment, plumbing, electrical, suspended ceilings, interior and exterior partitions, masonry walls, and storage contents of mezzanines.

Seismic design of the metal building shall be in accordance with Section 13 07 00.

ITEM NO. 7

SHEET SD-3 Structural Details

Revise Detail 3 for the Mulch Wall as follows



ITEM NO. 8

Section 33 13 00 Disinfection of Water Distribution System

Revise specification Part 1.5 and 1.1 to clarify testing responsibility as follows. This revision supersedes and takes precedent over RFI Response 10 in Addendum 1.

1.1 WORK INCLUDED

- A. Disinfection of all new potable piping, components, and appurtenances.
- B. This shall include disinfection of all potable water piping, well, filters, and pumps.
- C. New facilities shall be kept isolated from the active distribution system using a backflow, double check valve device per ANSI/AWWA C651 Disinfecting Water Mains. *The City's active distribution system is non-chlorinated.*
- D. Before allowing water from the municipal supply system to enter the new potable water system, all its components shall be cleaned and disinfected.
- E. Test and report results. Cost of all initial testing shall be borne by the Contractor. OWNER. Contractor shall pay for any re-testing per Special Provisions 5.21
- F. Connect new system and existing water distribution mains, after all required test are satisfactory and approved by the Engineer.

1.5 QUALITY ASSURANCE

A. Testing laboratory certified with the State of California for examination of drinking water.

- 1. Testing laboratory shall be selected by the Contractor and approved by the Owner.
- All samples shall be gathered and tested by said Laboratory.
- 3. Contractor shall instruct the testing laboratory to provide the test results to the Engineer immediately upon results and a copy of the written report sent directly to the Engineer.

ITEM NO. 9

Section 40 91 25 Magnetic Flowmeters

Revise specification Part 2.7 as follows

2.7 Service Conditions

		Size	Local/Remote	Flow Range
Tag No.	Service	(Inches)	Indicator	(GPM)
10-FE/FIT-001	Well Pump (Existing	16"	Local	1,000 — 3,000gpm
30-FE/FIT-001	to remain)	8"	Local	1,000 – 3,000gpm
30-FE/FIT-002	Backwash Supply	8"	Local	500 – 2,000 gpm
40-FE/FIT-001	Bypass Line Equalization Tank Outlet	4"	Local	0 – 200 gpm

ITEM NO. 10

Section 26 29 23 Variable Frequency Motor Controller

Delete reference to Part 2.02G and Part 2.12 in its entirety:

G. The AC Drive shall have a bypass solid state reduced voltage starter with

2.12 BYPASS CIRCUIT SOLID STATE REDUCED VOLTAGE REQUIRED

- A. The AC Drive shall include mechanically, and electrically interlocked isolation and bypass contactors complete with a Class 10 thermal everload relay, control circuit transformer and AFC/OFF/BYPASS switch.
- B. The operator shall have full control of the bypass starter by operation of the AFC/OFF/BYPASS selector switch.
- C. In the AUTOMATIC mode of operation, the bypass contactors shall be sequenced by the 120 volt rated auto start contact provided by the user.
- D. The isolation contactor for the bypass shall be sequenced to provide motor—isolation during a drive ready state of operation.
- E. Control power for the user inputs shall be supplied internal to the cabinet and shall be 120 Vac for all external field connections.
- F. A door mounted everload relay reset button shall be provided.
- —G. A Soft Start bypass shall be provided for units [__] HP and above asindicated on the contract drawings for the emergency bypass mode.
- H. Soft Start unit shall be Altistart 22 or Altistart 48 from Schneider Electric. If no preference is indicated the default unit will be Altistart 22 with integral shorting contactor.
- I. The combination enclosure shall have the following 22 mm door-mounted—operators:
 - 1. Power On pilot light (red)
 - 2. Drive Run pilot light (green)

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- 3. Drive Inp pilot light (yellow)
- 4. Bypass pilot light (vellow)
- 5 Hand-Off-Auto selector switch
- Manual speed potentiometer