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## APPENDIX 3

### Construction Work Requirements

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#### 3.1 PURPOSE

The purpose of this Appendix is to set forth requirements and procedures to be used by the Company in performing the Construction Work.

#### 3.2 CONSTRUCTION WORK SEQUENCE AND CONSTRAINTS

Construction Work shall conform to all constraints imposed by Utilities and Governmental Bodies, which shall be coordinated in accordance with Appendix 1 (General Design-Build Requirements and Procedures). In addition, the following sequencing and scheduling constraints shall be observed.

##### 3.2.1 Coordinated Construction at Cities' Terminal Tank Sites

The Company shall coordinate its Construction Work and cooperate with the Cities' local facilities (terminal tank, pump station, and distribution piping) contractor(s), who may be performing and completing construction during the time the Company is engaging in Construction Work near or at the Terminal Tank Sites. The Company shall coordinate with the Cities' design engineers and operations staff regarding control system requirements and electrical interfacing at the terminal facilities early in the design process. The Company shall also coordinate specific testing and disinfection activities with the terminal facilities.

Once a City issues a notice to proceed (NTP) for construction of its project, the Company shall incorporate the City's milestones into the master Project schedule. By overlaying the Project construction schedule with the Cities' contractor(s) schedules, the Company will identify if there is any potential for interference during construction activity at each terminal facility. If potential conflicts exist, the Company will either modify its schedule to avoid the interface or, if not possible, work with the Cities' teams to clearly define and coordinate site use well in advance of the work. The Company shall develop contingency plans in the event that the completion of one or both of the Cities' local improvements are delayed.

##### 3.2.2 Dike Repairs by Turlock Irrigation District

A dike separating the river from a pond located west of the Raw Water Pump Station Site may be repaired by a different contractor, however, the timing of the repair is not known. It is anticipated that construction will take three (3) to six (6) months; however, the exact duration of construction is unknown until a contract for the work is executed. Construction of the dike repairs will generate significant truck traffic in the vicinity and may present other limitations. The Company shall coordinate its Construction Work and cooperate with the dike repair contractor to identify if there is any potential for interference during construction activity. If potential conflicts exist, the Company will work with the contractor to clearly define and coordinate ingress and egress well in advance of the work.

##### 3.2.3 Coordinated Construction with Stanislaus County Projects

The Company shall coordinate its Construction Work and cooperate with the County's contractors, who may be performing and completing construction during the time the Company is engaging in Construction Work within County rights-of-way. The Company shall coordinate with the County's design engineers to avoid conflicts. The County has notified SRWA of the following upcoming

projects in the area of the Project: Hatch Road/Faith Home bridge and intersection, Hatch Road/Gilbert Road bridge, and Taylor Road/Quincy Road bridge, however, there could be additional County projects during Project construction.

Once the County issues NTP for a construction project, the Company shall incorporate the County project milestones into the master Project schedule. By overlaying the Project construction schedule with the County's contractors' schedules, the Company will identify if there is any potential for interference during construction activity. If potential conflicts exist, the Company will either modify their schedule to avoid the interface or, if not possible, work with the County's team(s) to clearly define and coordinate site use well in advance of the work.

#### 3.2.4 Construction Near Turlock Irrigation District Facilities

No construction activities that could disrupt TID facilities or operations shall occur during the TID irrigation season. Crossings and parallel construction involving TID canals shall only be performed during the non-irrigation season, which typically extends from the end of October to early March. Exact dates can fluctuate on a yearly basis and shall be coordinated with TID.

Regardless of construction method (trenchless or open cut), all canals must be empty during the construction of any canal crossing. Pipeline construction through or within TID rights-of-way is subject to an encroachment permit, in accordance with Appendix 9 (Government Approvals, Utilities, and Landowner Coordination). Special construction restrictions by TID may apply in the vicinity of overhead power lines.

#### 3.2.5 Aldrich Road Bridge Over Ceres Main Canal

The existing Aldrich Road Bridge over the Ceres Main Canal is not rated for heavy truck traffic. The bridge shall be replaced as an element of the Design-Build Work, as described in Appendix 5 (Project Technical Requirements). Until the bridge is reinforced or replaced by the Company, truck loads must be limited. All bridge design and construction activities shall be coordinated with TID and Stanislaus County.

During the construction of the Aldrich Road Bridge, the Plant may be accessed through the existing TID access road north of the Ceres Main Canal (access road). If deemed beneficial to the Company, access to the Plant via the access road for the duration of the Work may be coordinated directly with TID. Access will require TID prior approval.

The access road shall be entered at the intersection of Hatch Road and Geer Road. The access road may only be used as a travel way and shall not be used for material storage or vehicle parking. Access for TID vehicle traffic must be maintained at all times. During the irrigation season, the access road must be clear of all construction traffic from 7:00 am to 9:00 am and from 2:00 pm to 4:00 pm. Dust control must be provided along the access road at all times. The access road shall be restored to the pre-existing condition upon completion of use of the access road. All significant rutting shall be fixed upon occurrence.

#### 3.2.6 Environmental Constraints

Mitigation measures included in the *August 2018 Stanislaus Regional Water Authority Surface Water Supply Project Environmental Impact Report (EIR)* limit air purging of the infiltration gallery to certain months of the year, and require biological surveys for activities that could impact plant and animal species during certain months of the year. Complete information is presented in Appendix 9, Attachment 9A (Mitigation Monitoring and Reporting Plan Measures and Implementation Requirements).

#### 3.2.7 Construction in Fox Grove Regional Park

The Construction Work may require temporary closures of Fox Grove Regional Park. Restrictions on the number of closures and days of the week when the park may be closed are described in Appendix 9, Section 9.3.6 (California Department of Fish and Wildlife – Fox Grove Regional Park Access Permit).

#### 3.2.8 Construction within the Central Valley Flood Protection Board Designated Floodway

The Central Valley Flood Protection Board limits construction activities and storage of stockpiled material, temporary buildings, or equipment in the floodway during the flood season from November 1 to July 15 without prior approval from the Central Valley Flood Protection Board. Complete requirements are presented in Appendix 9, Section 9.3.7 (Central Valley Flood Protection Board – Encroachment Permit).

### **3.3 24-HOUR TELEPHONE COMMUNICATION**

The Company shall maintain, throughout the Design-Build Period, a telephone number for a Company representative who may be reached by the SRWA twenty-four (24) hours a day, seven (7) days per week in the case of emergencies at the Sites. This requirement shall be reflected in the Communication Plan as described in Appendix 1 (General Design-Build Requirements and Procedures).

### **3.4 SURVEYING AND MONUMENTS**

#### 3.4.1 Construction Surveying

The Company shall perform all necessary construction surveying. The Company shall identify or establish an adequate number of benchmarks and survey control points and clearly indicate these locations on the Record Drawings.

#### 3.4.2 Preservation of Survey Monuments

The Design-Build Work shall preserve all existing property line and corner survey monuments encountered. Where existing monuments conflict with the Company's construction operations and destruction of monuments is unavoidable, the Company shall provide written notification to the SRWA and the owner of the monument prior to the removal or destruction of such monument. The Company shall retain a State of California Registered Land Surveyor to install new monuments and replace monuments that are removed or destroyed during performance of the Construction Work. The Company shall replace monuments within thirty (30) days following the completion of the specific construction operations that necessitated the removal or destruction of the monument.

#### 3.4.3 Protection of Survey/Road Markers and Points

The Company shall not destroy, remove, or otherwise disturb any existing survey markers or other existing street or roadway markers without proper authorization. No pavement breaking or excavation shall be started until all survey or other permanent marker points that will be disturbed by the construction operations have been properly referenced. Survey markers or points disturbed by the Company shall be accurately restored after street or roadway resurfacing has been completed.

#### 3.4.4 Record of Survey

The Company shall file all required records of survey associated with property boundaries and monuments affected by the Design-Build Work. A record of survey for the Sites and adjacent properties will be filed by the SRWA with Stanislaus County within sixty (60) days after title to the Sites parcel has been transferred to the SRWA.

### **3.5 TEMPORARY UTILITIES**

The Company shall supply all necessary temporary Utilities, including electricity, telephone service, Internet (minimum T3 service), potable water, fire protection, lighting, and sanitary facilities, during construction, testing and startup of the Regional Water Facilities. Prior to the Acceptance Date the Company shall disconnect or arrange for the disconnection and removal of all temporary Utility connections and services.

#### 3.5.1 Lighting and Power

The Company shall securely fasten in place and maintain all wiring for temporary electric light and power. All electrical facilities shall conform to the requirements of Applicable Law, including California Code of Regulations Title 8, Division 1, Chapter 4, Subchapter 5, Electrical Safety Orders; Code of Federal Regulations Title 29, Part 1926 (Safety and Health Standards for Construction); and the California Electrical Code (California Building Standards Code, Part 3).

Construction Work conducted at night or under conditions of deficient daylight shall be suitably lighted to ensure proper performance and to afford adequate facilities for inspection and safe working conditions. The Company shall provide a general, weatherproof, grounded temporary lighting system in every area of construction as soon as overhead floor/roof deck structure has been installed to provide sufficient illumination for safe working and traffic conditions. Circuit wiring shall generally be run overhead, and shall rise vertically in locations where it will be least exposed to possible damage from construction operations on grade, floors, decks, or other areas of possible damage or abuse.

#### 3.5.2 Water Supply

The Company shall provide an adequate supply of water, as required for construction period operations. The quality and quantity of water supplied must be suitable for all intended uses and must comply with Applicable Law.

An existing groundwater well and pump on the Plant site may be utilized by the Company for construction water. The well is estimated to have a production capacity between 2,000 and 3,000 gpm based on a single pump test conducted in or around 1988. The existing well pump motor

is 125 hp. The well is not currently equipped with an electric service meter and has not been operated since 2017 or earlier. If the Company elects to utilize this well for construction water, the Company shall be solely responsible for the following:

- Obtaining a new temporary electric service and meter from TID.
- Verification of proper well pump rotation.
- Well operation and maintenance for the duration of its use for construction purposes.
- One-time and periodic charges associated with temporary electric service.
- Installation of any storage tank(s) and truck fill station equipment.
- Equipment demolition/disposal and well abandonment upon cessation of construction water use.
- Any other facilities, activities or services necessary for the operation of the well.

#### 3.5.3 Sanitation

The Company shall provide fixed or portable chemical toilets wherever needed for the use of employees. Toilets at construction job Sites shall conform to the requirements of Applicable Law, including Code of Federal Regulations, Title 29, Section 1926.51. Holding tanks for sanitary service shall be serviced at least weekly.

The Company shall establish a regular daily collection of all sanitary and organic wastes. The Company shall dispose of, away from the Sites, all wastes and refuse from sanitary facilities provided by the Company or organic material wastes from any other source related to the Company's construction operations in accordance with Applicable Law.

#### 3.6 ACCESS ROADS AND PARKING AREAS

Several access roads are planned for construction of and permanent access to the Sites, as addressed in Appendix 5 (Project Technical Requirements). Construction and permanent access to the Plant Site will be via Aldrich Road and construction and permanent access to the Raw Water Pump Station Site will be via Fox Grove Park.

The Company shall provide all temporary construction roads, walks and parking areas required during construction and for use by emergency vehicles. The Company shall minimize the amount of disturbance to the Sites during performance of the Construction Work. Prior to Final Completion, the Company shall pave the Plant Site access road and make other improvements as required by Appendix 5 (Project Technical Requirements) of the Design-Build Contract (Contract). All temporary roads and parking areas shall be constructed and maintained to control dust in accordance with the Environmental Mitigation Measures. Temporary roads, walks and parking areas shall be removed by the Company prior to the Acceptance Date and the ground returned to its original condition, unless otherwise required by the Contract. The Company shall keep temporary roads clean and serviceable at all times.

### **3.7 STAGING AND STOCKPILING AREAS**

The Company shall locate all construction staging and temporary stockpile areas within the limits of Sites, or if more area is required, the Company shall make arrangements for off-Site areas as needed. The costs associated with any other area necessary or desirable for the Construction Work shall be included in the Base Design-Build Price, and the Company shall not be entitled to any additional compensation for such costs.

The Company shall either incorporate any excess excavated material into the Construction Work consistent with the Design Documents or dispose of the excess excavated material off of the Sites and in accordance with Applicable Law. If any temporary stockpiles are maintained on the Sites during construction, the stockpiles shall be protected with the appropriate best management practice (BMP) from the approved Storm Water Pollution Prevention Plan (SWPPP) to minimize erosion from wind or stormwater.

### **3.8 SITE MAINTENANCE AND SECURITY**

During performance of the Construction Work, the Company shall be responsible for the overall housekeeping and maintenance of the Sites. The Company shall keep the Sites neat and orderly at all times. The Company shall clean up and remove all rubbish and construction debris from the Sites as they accumulate in accordance with the Contract.

The Company shall safely guard all Construction Work, materials, equipment and property from theft, damage or injury caused by trespass, negligence, vandalism or malicious mischief of third parties. The Company's duty to safely guard property shall include any SRWA property or other private property on the Sites from injury or loss during the performance of the Design-Build. The Company shall provide the SRWA a minimum of two (2) keys for each temporary lock.

### **3.9 PROTECTION OF DESIGN-BUILD WORK FACILITIES, PROPERTY AND UTILITIES**

The Company shall take all precautions, provide all programs, take all actions necessary to protect from damage, and assume full responsibility for the preservation of, the Design-Build Work and all public and private property and underground and surface structures and utilities on or adjacent to the Sites.

#### **3.9.1 Subsurface Investigation**

Prior to commencing any excavations, the Company shall conduct investigations as it deems appropriate, including exploratory excavations, potholing, and borings, to determine the location and type of underground structures that could be damaged as a result of the excavations. Exploratory excavations shall be backfilled, returned to the original condition (or better), and meet all road restoration agreement requirements. The Company shall repair any damage to existing utilities caused by the Company's investigations.

#### 3.9.2 Underground Service Alert

Except in an emergency, the Company shall contact Underground Service Alert at least two (2) working days, but not more than fourteen (14) calendar days, prior to commencing any excavation and obtain an inquiry identification number from that notification center. An emergency is defined as a sudden, unexpected occurrence involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of or damage to life, health, property, or essential public services. The Company shall not commence excavation without a current inquiry identification number assigned to the Company or a Subcontractor. The Company shall comply with Applicable Law in locating underground structures and in excavating.

#### 3.9.3 Sites Protection

Where Construction Work is performed on or adjacent to any roadway, right-of-way, or public place, including Fox Grove Park and all areas adjacent to and near the Tuolumne River, the Company shall provide barricades, fences, lights, warning signs, danger signals, and watchmen, and shall take other precautionary measures for the protection of persons or property and of the Construction Work. Barricades shall be painted to be visible at night. From sunset to sunrise, the Company shall furnish and maintain at least one light at each barricade. Sufficient barricades shall be erected to keep vehicles from being driven on or into Construction Work. The Company shall furnish watchmen in sufficient numbers to protect the Construction Work. The Company's responsibility for the maintenance of barricades, signs, lights, and for providing watchmen shall continue until the Acceptance Date.

#### 3.9.4 Products and Equipment Protection and Storage

The Company shall inspect all products or equipment delivered to the Sites prior to unloading. The Company shall reject any product or equipment that is damaged, used, or is in any other way unsatisfactory for use on the Project.

The Company shall protect all products or equipment in accordance with manufacturer's written directions, store products or equipment in location(s) to avoid physical damage to items while in storage, and handle products or equipment in accordance with manufacturer's recommendations and instructions.

The Company shall protect equipment from exposure to elements and keep such equipment thoroughly dry. The Company shall store pumps, motors, electrical equipment, and other equipment having antifriction or sleeve bearings in weathertight warehouses that are maintained at a temperature within the manufacturer's requirements for acceptable storage conditions, and no lower than of at least 45 degrees Fahrenheit (F). When space heaters are provided in equipment, the Company shall connect and operate heaters during storage until equipment is placed in service.

The Company shall provide a weatherproof temporary storage building specifically for the purpose of providing for protection of products and equipment. The building shall be sized to accommodate anticipated storage items. The Company shall equip building with lockable doors and lighting, and provide electrical service for equipment space heaters and heating or ventilation as necessary to provide storage environments acceptable to the manufacturers. The Company shall monitor storage area to ensure suitable temperature and moisture conditions are maintained as required by manufacturer or as appropriate for particular items. The building shall be located within a Company staging area or in a location approved by the SRWA.

#### 3.9.5 Protection of Existing Facilities

##### 3.9.5.1 General

The Company shall protect all existing utilities and improvements not designated for removal and shall restore damaged or temporarily relocated utilities and improvements to a condition equal to or better than prior to such damage or temporary relocation, including compliance with Section 4.4(E) of the Contract (Protection of Underground Utilities).

##### 3.9.5.2 Connections

Unless otherwise specified or indicated, the Company shall make all necessary connections to existing facilities, including structures, drain lines, and Utilities. When establishing such connections, the Company will minimize the impacts on such facilities and the risk of disrupting the operation of such facilities. In each case, Company shall receive permission from the owning Utility or agency prior to undertaking connections.

Connections to existing facilities that are in service shall be adequately planned in advance, and all required equipment, materials, and labor shall be on hand at the time of undertaking the connections. Construction Work shall proceed continuously (around the clock) if necessary to complete connections in the minimum time. Operation of valves or other appurtenances shall be by or under the direct supervision of the owning Utility or public agency, as applicable.

#### 3.9.6 Relocation of Existing Utilities

The Company shall be responsible for all construction activities required with regard to existing Utilities (e.g., conduits, pipelines, transmission mains and other utility equipment and appurtenances), including any relocation of Utilities, whether such construction activities are performed by the Company or by the owner of the existing utility. Residents shall be informed in advance of work that affects their utility service. A reasonable effort shall be made to coordinate with the needs of the affected residents.

### 3.10 SITE HEALTH AND SAFETY REQUIREMENTS

The Company shall maintain safety at the Sites at all times at a level consistent with the Applicable Law. Without limiting the foregoing, the Company shall:

- Take all necessary precautions for the safety of, and provide all necessary protection to prevent damage, injury or loss related to the performance of the Construction Work for:
  - Workers at the Sites and all other persons who may be involved with deliveries or inspections
  - Visitors to the Sites
  - Passersby, neighbors and adjacent properties
  - Materials and equipment under the care, custody or control of the Company or Subcontractors at the Sites
  - Other property constituting part of the premises or the Project under construction
  - SRWA property

- Establish and enforce all necessary safeguards for safety and protection, including posting danger signs and other warnings against hazards.
- Implement a comprehensive safety program in accordance with Applicable Law.
- Give all notices and comply with all Applicable Law relating to the safety of persons or property or their protection from damage, injury or loss.
- Operate and maintain all equipment in a manner consistent with the manufacturer's safety requirements.
- Provide for safe and orderly vehicular movements.
- Develop and implement a written site-specific Site Health and Safety Plan that includes a management commitment to maintaining a safe workplace, employee participation, hazard evaluation and controls, employee training and periodic inspections.
- Designate a safety professional with a minimum of five years of construction safety experience who is either a safety professional certified by the Board of Certified Safety Professionals or an Industrial Hygienist certified by the American Board of Industrial Hygiene to develop and sign the Site-Specific Health and Safety Plan including all safety rules at the Sites.
- Designate a qualified safety professional stationed full-time at the Sites during on-Sites construction activities whose primary/only duty shall be the implementation of safety rules at the Sites, the prevention of fires and accidents, monitoring compliance with the Company's Site Health and Safety Plan, and the coordination of such activities as shall be necessary with federal, State and SRWA officials related to health and safety.
- Require all Subcontractors to work and implement a site-specific Health and Safety Plan, to comply with the Company's safety requirements and to designate a qualified safety professional whose duty shall be the implementation of safety rules at the Sites and monitoring compliance of Subcontractor employees with the Subcontractor's site-specific Health and Safety Plan.

### 3.11 FIELD OFFICES

Both the SRWA and the Company shall occupy and utilize field offices during construction. The Company's obligations regarding these field offices are described in this section.

#### 3.11.1 SRWA Field Office

The Company shall construct, furnish, and maintain a field office for the SRWA on or before the Construction Date and until fifteen (15) days prior to scheduled Final Completion, as adjusted for delays. The Company shall submit the anticipated layout of the office to the SRWA for approval. The field office shall be located near but be separate from the Company's field office, and be in a location approved by the SRWA. The Company shall allocate at least five (5) paved reserved parking spaces adjacent to the SRWA field office marked for use by the SRWA. The Company shall pay for all permits and utilities, and shall pay for continuous electric and communications services related to the SRWA's field office.

The SRWA field office shall meet the following requirements:

- The Company shall provide a new, weather tight, insulated, mobile office trailer acceptable to the SRWA, which is specifically designed for this type of use.
- The mobile office trailer shall be manufactured by GE Modular Space, or equal.
- Steps, landings and sidewalks shall be either concrete or boardwalk with a four-foot minimum width.
- Access to the office must comply with the Americans with Disabilities Act (ADA) Standards.
- The mobile office trailer shall be a minimum of 1,440 square feet of floor space divided with walls into a multipurpose/conference room, three offices, and a lavatory.
- All floors shall be carpeted, except the lavatory floor, which shall have a new, resilient floor covering.
- All rooms shall be furnished in a manner acceptable to the SRWA and as described later in this section.
- All rooms shall have a total window area equal to no less than ten percent of floor area. Each window shall have an operable sash, screen, lock, exterior security bars, and operable venetian blinds.
- A raised wood platform shall be erected between the SRWA field office and Company's field office. The platform shall extend for the full length of the trailer.

The SRWA field office shall have the following additional features:

- Interior lighting of 50-foot candles at desktop height at night.
- Exterior light at all entrances.
- Automatic heating to maintain 70 degrees F in winter.
- Automatic cooling to maintain 75 degrees F in summer.
- A minimum of three duplex receptacle, wall-mounted electrical outlets in each room (excluding the lavatory).
- Private conference telephone service and installation charges for three (3) telephone lines and a minimum of two (2) telephones. In addition, the Company shall pay all local, long distance, and Internet service provider charges for the duration of the Design-Build Work. The conference room phone shall be new tabletop phone suitable for a large conference table (Polycom Soundstation 2 corded conference phone or equal). A speaker phone shall be supplied for each phone.
- High-speed wireless internet access and local area network with a level of service at least equivalent to that provided to the Company's field office; (minimum 25 megabits per second (mbps) download/upload speed (synchronous)). A minimum of ten (10) IP addresses shall be available to the SRWA. An Ethernet local area network shall be installed to support ten (10) computers, printers, or other network devices.

- A water dispenser with chilled and hot drinking water. The Company shall supply water for the duration of the Construction Work.
- A lavatory with hot and cold running water, mirror, tissue paper holder, paper towel holder, and flushable toilets plumbed to sanitary sewer or holding tank, with all plumbing facilities and wastewater facilities installed and operated in accordance with local codes.
- One (1) full-size stainless-steel sink with a small countertop and cabinets under the sink, to be located in the multi-purpose room and in a manner acceptable to the SRWA.
- One (1) single-pedestal 30-inch diameter hospitality table located in the multi-purpose room.
- A new copy machine with reduction, enlargement, portable document format (PDF) scanning capability, auto-document feed, 11-inch by 17-inch color copy capability, twenty-five (25) copies sorting capability, and a copy rate of no less than forty (40) copies per minute. The Company shall provide service, warranty (including toner and replacement cartridges) and maintenance for the duration of the Design-Build Work.
- Parking lot security lighting provided on two (2) pole-mounted fixtures of 1,000 Watts (W) each with photo cell control at locations to be determined by the SRWA.

The SRWA field office shall have the following furnishings:

- Three (3) five-drawer desks with lap drawer and 30-inch by 72-inch side reference tables.
- A fourth five-drawer desk with lap drawer for visitor use in the multi-purpose room.
- Four (4) swivel desk chairs.
- Three (3) large plan layout tables (HON Model HON-UTM3672CLCHR, or equal)
- Three (3) 11-inch by 17-inch four-drawer file cabinets with minimum fire resistance rating of one (1) hour.
- One (1) two-door storage cabinet (36-inches by 60-inches by 18-inches).
- Overhead book shelving in each office.
- One (1) bookcase with shelving (3-feet wide by 7-feet high by 12-inches deep).
- Four (4) waste baskets.
- One (1) tack board 30-inches by 36-inches.
- Dry erase white boards: One (1) white board 36-inches by 48-inches and one (1) white board 48-inches x 96-inches (minimum), both located in the conference room; three (3) dry erase boards, one for each office; five (5) sets of five (5) write-erase pens (assorted colors) and erasers, one for each board. The white boards shall be Quartet Classic Series Melamine White Boards, or equal.
- Fire extinguishers (number as required by Applicable Law).
- Smoke detectors (number as required by Applicable Law).

- Identifying exterior sign, professionally lettered, at least 24-inches by 36-inches, with wording acceptable to the SRWA.
- A first-aid kit, to be kept stocked by the Company throughout the Construction Work.
- Maximum-minimum outdoor thermometer mounted in shade, but visible for easy reading from inside office (Fisher Scientific or equal).
- A battery-operated clock, wall mounted.
- A closet for storing instruments.
- Walk-off mats at all entrances.
- A microwave oven, coffee maker, and side tables to hold these items.
- A refrigerator with freezer (10 cubic feet refrigerator section, minimum).
- A conference table sufficiently sized for ten (10) persons, and twelve (12) chairs. The chairs shall be Safco Stacking Chair, Model SAF-4185BU, or equal.

The Company shall provide continuous maintenance of the SRWA field office, including cleaning not less than once per week. The Company shall provide soap, paper towels, toilet tissues, cleansers, sanitary supplies, disposal of toilet waste, and janitorial service and implements as needed for the duration of the Construction Work. The Company shall repair immediately any damage, leaks or defective service. Air filters on heating/air conditioning units shall be replaced as needed, at least every six (6) months. Maintenance shall be for the duration of the construction period and shall include maintenance agreements for telephones, copier/scanner, facsimile, internet service, local network, and printer.

The Company shall establish a mailing address with the U.S. Post Office and arrange for daily pick-up and delivery of mail. The Company shall provide and install a mailbox for the sole use of the SRWA. In the event that mail cannot be made to the field office, the Company shall arrange for a mailbox in the nearest commercial establishment or U.S. Post Office.

The office, together with the equipment, furnishings, network, and facilities thereof, shall remain the property of the Company and shall be removed from the Sites by the Company upon Acceptance or Final Completion (whichever is elected by the SRWA) or otherwise as directed by the SRWA.

#### 3.11.2 Company's Field Office

The Company shall provide its own field office during the construction period with sufficient room for project meetings and of quality comparable to the SRWA field office. Offices shall be provided for quality control inspection staff, in addition to the construction staff office space. The field office shall include sufficient dedicated layout area and storage. The Company's field office shall include a conference room with a conference table and chairs sufficient for twenty (20) persons, a projector and screen, telephone service and conference call capabilities, and light and temperature features as specified for the SRWA field office. The Company shall maintain twelve (12) protective helmets and other required Personal Protective Equipment (except boots) for visitor use.

The Company shall post an exterior identifying sign no larger than 4-feet by 8-feet. One (1) complete copy of the Contract shall be maintained in the Company's field office for ready reference at all times by interested parties. The Company shall remove the Company's field office upon Acceptance, or at a later time with notification to the SRWA prior to Final Completion, unless otherwise approved by the SRWA. The Company shall pay for all permits and utilities related to the Company's field office.

#### 3.12 CONSTRUCTION VIDEO AND PHOTOGRAPHS

The Company shall retain a professional photographer to record and organize video and photographs for the Project, subject to the following minimum requirements:

- Preconstruction Video: The Company shall provide a preconstruction video showing rights-of-way, construction access roads, all public and private streets used for access to and from the Sites, environmentally sensitive areas, and other such areas (as directed by the SRWA) that may be disturbed or disrupted, or which are to be protected from the performance of the Construction Work. The Company shall notify the SRWA of the scheduling of the video so that the SRWA may accompany the Company during video recording. The Company shall deliver one (1) copy of the video to the SRWA at the pre-construction conference. The SRWA will review the video for content, coverage and quality prior to the beginning of construction. The Company shall retake any portion of the video not of clear focus, color or adequate coverage, as determined by the SRWA. The Company shall deliver one (1) copy of the final video to the SRWA prior to the commencement of the Construction Work.
- Preconstruction Photographs: The Company shall provide a sufficient number of preconstruction photographs so as to resolve any disputes that may arise regarding the condition of the Sites prior to and subsequent to construction.
- Construction Photographs: The Company shall provide at least (50) digital construction photographs per month to illustrate construction progress. The SRWA shall be given the option each month to request any specific photographs to be taken. Photographs shall be taken at the end of the month (or during the month if subsequent construction activity will obscure the progress to be depicted). In addition, photographs shall be provided for all structures and equipment to be buried. To show construction progress over time, the monthly photos should be taken from the same vantage points. These locations shall be determined jointly with SRWA prior to the Construction Date.
- Aerial Photographs: The Company shall quarterly record at least one (1) set of aerial photographs of the Sites during construction and one each at Acceptance and Final Completion of the Project. The Company shall obtain SRWA approval prior to taking aerial photographs.
- Completed Design-Build Work Photographs: The Company shall provide a minimum of 300 photographs of the completed or substantially completed Project after Substantial Completion, but prior to Final Completion. Photographs shall depict final landscaping. The quality and content of the completed Design-Build photographs is subject to SRWA acceptance.

- Post-Construction Video: The Company shall provide post-construction video illustrating all areas recorded on pre-construction videos, including structures, property lines and easements, access roads with improvements, fencing and hardscape improvements, finished grade, erosion control measures, and revegetation. The Company shall notify the SRWA of the scheduling of the video so that the SRWA may accompany the Company during the videotaping. The Company shall record video and deliver one (1) copy to the SRWA after Substantial Completion and prior to Final Completion. The SRWA will review the video for content, coverage and quality prior to Final Completion. The Company shall retake any portion of the video not of clear focus, color or adequate coverage, as determined by the SRWA. The Company shall deliver one (1) copy of the final video to the SRWA prior to Final Completion.
- Video files shall be recorded and delivered in a high resolution Moving Picture Experts Group MPEG-4 Part 14 (MP4) or comparable format acceptable to the SRWA. Final submittals shall be stored on digital versatile discs (DVDs).
- Photographs shall be in Joint Photographic Experts Group (JPG) or comparable format acceptable to the SRWA. In general, photographs shall be a minimum of 1,200 by 1,800 pixels at 300 dots per inch (dpi). Individual photograph files shall not be larger than 3 megabytes (MB). Final submittals shall be stored on DVDs.
- The Company shall submit two (2) hard copies (standard weight prints with a satin finish) of the quarterly aerial photograph sets at a scale of 1 inch = 100 feet for the Sites.

Photographs shall be uploaded and organized onto a photography website that is accessible by the SRWA. For all digital photographs, the Company shall provide thumbnail images (at approximately 100 by 100 pixels) on photograph index pages to allow viewing of multiple photographs at once and shall link them to the larger images for viewing details of the photograph. The Company shall coordinate with the SRWA on website development and the posting therein of photographs and videos.

The following information shall be included in the photograph log and on the website for each photograph:

- Date photograph was taken.
- SRWA-assigned Project title.
- Description of view shown in photograph, including indication of direction, where applicable.
- Name and contact information of the photographer.
- Photographer's numbered identification.

The photographs and videos shall be the property of the SRWA with all copyrights and other rights of ownership transferred to SRWA at the time of SRWA receipt of the photographs and videos. The Company and its photographer are prohibited from publishing photographic or video records of the Construction Work without the express written consent of the SRWA. The Company shall include transfer of copyright and the publication restriction in its arrangements with the photographer.

At the completion of the Project, all photographs and videos shall be provided to the SRWA on DVDs or on an external hard drive, as determined by the SRWA.

### 3.13 CONSTRUCTION SIGNAGE

The Company shall develop and furnish large road-side signs to inform the public about the Project and display a contact phone number. Signs shall prominently incorporate the Company logo, the SRWA logo and the project name: “Regional Surface Water Supply Project”. The signs shall remain in place for the duration of construction activities. Signs shall be strategically placed at each major construction area, at major construction crossings, and other locations as necessary for clear public communication. The signs shall be provided at least at the following locations:

- Plant Site
- Raw Water Pump Station Site
- Fox Grove Park entrance adjacent to Geer Road
- Intersection of Geer and East Hatch Road
- Other major crossings
- Key intersections along route for traffic to Plant site (e.g., Aldrich and Fox Roads)

Requirements for the California Drinking Water State Revolving Fund (DWSRF)-compliant signs are specified in Appendix 13 (State Revolving Fund Requirements). The Company shall submit proposed sign layout(s) for approval by the SRWA. Layouts for signs required by DWSRF shall also be submitted for approval to DWSRF following SRWA approval, in accordance with the requirements of Appendix 13 (State Revolving Fund Requirements). The Company shall erect and maintain signage in good condition through Final Acceptance. The Company shall remove signs upon approval of SRWA, and at a time subject to requirements of the DWSRF program.

### 3.14 RECORD DOCUMENTS

#### 3.14.1 Content of Record Documents

The Company shall prepare and maintain record design and construction documents (Record Documents), including calculations, engineering analysis, modeling results, design reports, Record Drawings, technical specifications, addenda, approved shop drawings, photographs, Change Orders, Contract Administration Memoranda, design change notices, other modifications of SRWA documents, test records, survey data, Company field orders, and all other documents pertinent to the Design-Build Work. Record Documents shall include global positioning system (GPS) locations for all major buried features, including valves, pipe bends, pipe connections, electrical ductbanks, electrical vaults, manholes, conduits, etc.

The Record Documents shall be updated on a continuous basis, and shall never be more than two (2) Working Days behind the current state of the Design-Build Work.

#### 3.14.2 Record Drawings

The Company Engineer shall prepare and maintain Record Drawings, which are modified Design Documents showing all changes to the original Drawings and other Design Documents made during the course of construction and providing a record of the Design-Build Construction Work as constructed. The Record Drawings shall note all changes made during construction, including, but not limited to:

- Depths of various facility foundations in relation to datum.
- Horizontal and vertical locations of underground Utilities and appurtenances referenced to permanent surface improvements.
- Location of internal utilities and appurtenances concealed in construction in reference to visible and accessible features of the surrounding structure(s).
- Field changes of dimensions and details.
- Changes made by Change Order, Contract Administration Memoranda or Company field orders.
- Details not on original construction Drawings and other elements not originally specified.

Record Drawings shall be maintained in hard copy and electronic (computer aided design – most recent version of AutoCAD) format with the electronic files backed up weekly on a compact disc-read only memory (CD-ROM) or tape. The backup CD-ROM or tape shall be stored in a well-protected area that is sufficiently separate from the original electronic copy, such that fire, flood, vandalism, or other calamity shall not imperil both the original and backup copy simultaneously. The SRWA will verify the up-to-date maintenance of the Record Drawings on a monthly basis.

#### 3.14.3 Document Location

Record Drawings and specifications, addenda, approved shop drawings, test results, testing records, photographs, Change Orders, Contract Administration Memoranda, design change notices, other modifications of SRWA documents, survey data, and Company field orders shall be available at the Company's field office at all times for inspection by the SRWA and its representatives. All other Record Documents shall be available at the Company's field office or a design office at all times for inspection by the SRWA and its representatives.

Record Documents shall also be posted to the Project web site and accessible to the SRWA. Web site features shall be in accordance with the Document Submittal Plan specified in Appendix 2 (Design-Build Work Submittal Requirements and Review Procedures).

#### 3.14.4 Submittal and Certification

As a condition of Substantial Completion of all Design-Build Work, the Company shall submit to the SRWA a complete and final set of Record Drawings on CD-ROM in PDF and AutoCAD in the release to be requested by the SRWA at the time along with five sets of 11-inch by 17-inch paper prints and a set of record technical specifications on CD-ROM in Microsoft® Word, latest edition, with one paper print, modified to clearly and accurately show all changes made during the performance of the Design-Build Work. Record Drawings and technical specifications shall be designated in a revision block as “construction record” and shall be signed and sealed by the engineer(s) in responsible charge of the design work representing the lead design firm.

The Company shall provide the SRWA with a certification signed by the Company and signed and sealed by the engineer(s) in responsible charge of the design representing the lead design firm or its designated design firm that the “construction record” drawings and technical specifications are accurate and are consistent with the design intent.

As a condition of Final Completion of all Design-Build the Company shall submit to the SRWA a complete and final set of Record Documents (including all documents prepared to complete the design, including but not limited to: calculations, engineering analyses, modeling results, and design reports), exclusive of the Record Drawings and technical specifications, which are required prior to Substantial Completion.

Record Documents, as defined in Section 3.14.1 (Content of Record Documents) shall be submitted to the SRWA electronically in an organized and clearly labeled format. Change Orders, Contract Administration Memoranda, design change notices and Company field orders, shall be numbered and assembled in chronological order of issuance. Numerical data, including but not limited to GPS coordinates of major buried features, shall be submitted in a non-proprietary, electronic file format (spreadsheet or database) that allows easy access to the data set.