

SECTION 01 11 13
SUMMARY OF WORK

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Table of Articles for this Section is:

<u>Article</u>	<u>Title</u>
1.1	Section Includes
1.2	Alignment of Defined Terms
1.3	Location and Description of Work
1.4	Construction Contracts, This Project
1.5	Sequence and Progress of Work
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1.7	Easements and Rights-of-Way
1.8	Notices to Owners and Authorities of Properties Adjacent to the Work

1.2 ALIGNMENT OF DEFINED TERMS

A. The Construction Management Agreement (CM/GC) includes the following Basic Definitions:

1. Construction Documents. The architectural and engineering documents setting forth the design for the Project prepared by the Design Professional. Construction Documents also include, but are not limited to, the Specifications and Drawings, the Supplementary General Requirements, the General Requirements, and all Addenda.
2. Contract. The written document that is the evidence of the construction agreement between the Owner and the CM/GC.
3. Contract Documents. The Contract Documents include the executed Contract, any Component Construction Documents, the Construction Documents and all Change Orders.

B. To facilitate alignment and clarify understanding of various defined terms (terms shown with initial capitalization) referenced in the Specifications, the following information is provided:

1. Any and all references to the Agreement, General Conditions, Supplementary Conditions, any specific article or paragraph of the Agreement, General Conditions, and Supplementary Conditions in the Division 1, General Requirements or any of the Technical Specifications shall be understood to be referencing the Construction Management

- Agreement (CM/GC), Exhibits and Supplementary General Requirements.
2. Any and all references to the Contract Documents in the Division 1, General Requirements or any of the Technical Specifications shall be understood to be referencing the Contract Documents as defined in the Construction Management Agreement (CM/GC).
 3. Any and all references to OWNER or Owner in Division 1, General Requirements or any of the Technical Specifications shall be understood to be referencing the Owner as defined in the Construction Management Agreement (CM/GC).
 4. Any and all references to CONTRACTOR or Contractor in Division 1, General Requirements or any of the Technical Specifications will be understood to be referencing the CM/GC as defined in the Construction Management Agreement (CM/GC).
 5. Any and all references to ENGINEER or Engineer in Division 1, General Requirements or any of the Technical Specifications shall be understood to be referencing the Design Professional as defined in the Construction Management Agreement (CM/GC).
 6. Any and all references to Program Manager in Division 1, General Requirements or any of the Technical Specifications will be understood to be referencing the Program Manager as identified in the Construction Management Agreement (CM/GC).
 7. Any and all references to Contract Price or Guaranteed Maximum Price (GMP) in Division 1, General Requirements or any of the Technical Specifications will be understood to be referencing the Guaranteed Maximum Price (GMP) as defined in the Construction Management Agreement (CM/GC).
 8. Any and all references to Notice to Proceed (NTP) in Division 1, General Requirements or any of the Technical Specifications will be understood to be referencing the Proceed Order as defined in the Construction Management Agreement (CM/GC).
 9. Any and all references to Progress Schedule in Division 1, General Requirements or any of the Technical Specifications will be understood to be referencing the Construction Progress Schedule also referred to as the Overall Project Schedule (OPS) as defined in the Construction Management Agreement (CM/GC).
 10. Any and all references to Contract Times in Division 1, General Requirements or any of the Technical Specifications will be understood to be referencing the Contract Time as defined in the Construction Management Agreement (CM/GC).
 11. Any and all references to Substantial Completion and Certificate of Substantial Completion in Division 1, General Requirements or any of the Technical Specifications will be understood to be referencing Material Completion and the Certificate of Material Completion as defined in the Construction Management Agreement (CM/GC).
 12. Any and all references to “Delegated Design Professional” or “documents prepared, signed, and sealed by a design professional retained by CONTRACTOR” or similar references such as submittal documents being

required to be certified, signed and sealed in Division 1, General Requirements or any of the Technical Specifications shall be understood to be referencing the “specialty consultant” and “shop drawings or submittals requiring the seal of a specialty consultant” as described in the Construction Management Agreement (CM/GC).

1.3 LOCATION AND DESCRIPTION OF WORK

- A. The Work is located at the site of the new Richland Creek Reservoir (Reservoir Intake and Water Treatment Plant (WTP)) and the Etowah River Intake and Pump Station at the locations shown in the Drawings. The Work is associated with the construction of the new Richland Creek Reservoir, intakes, and WTP.
- B. The Work to be performed under this Contract includes, but is not limited to, constructing the Work described below and all related appurtenances. The Work shall be as follows:
 - 1. Etowah River Intake and Pump Station and associated piping and equipment including discharge pipeline to the extent shown in the Drawings. Includes electrical building and electrical and I&C infrastructure.
 - 2. Reservoir Intake and Pump Station and associated piping and equipment. Includes electrical building; sodium hypochlorite storage and feed system; flow meter and vault; and electrical and I&C infrastructure.
 - 3. Raw water pipeline from Reservoir Intake to WTP.
 - 4. Administration Building including process laboratory.
 - 5. Pre-engineered metal Maintenance Building.
 - 6. Chemical Facility including chemical storage tanks and feed systems for the chemicals noted below, and including the associated day tanks, pumps, piping, valves, and appurtenances.
 - a. Aluminum sulfate.
 - b. Sodium hypochlorite (storage of 6% solution).
 - c. Chlorine dioxide (bulk raw chemical storage and chlorine dioxide generation equipment).
 - d. Fluoride.
 - e. Coagulant aid polymer.
 - f. Liquid lime.
 - 7. Dual rapid mix and dissolved air flotation (DAF) basins, including enclosure of the DAF separation zones and associated recycle pumps, air compressors, saturation vessels, sludge removal systems, and associated piping, valves, and appurtenances.
 - 8. Dual media gravity filters with low profile stainless steel underdrains and associated piping, valves, appurtenances, control room, and upper gallery canopy cover.
 - 9. Dual air scour blowers and associated piping and appurtenances.
 - 10. Filter effluent weirbox and associated granular activated carbon (GAC) feed pumps and associated piping, valves, and appurtenances.
 - 11. GAC pressure vessels and associated concrete pads, piping, valves, and appurtenances.

12. GAC electrical/control building including ancillary GAC support systems and associated piping, valves, and appurtenances.
13. Clearwell splitter box and associated piping, valves, weirs, and appurtenances.
14. Pre-stressed concrete ground storage tank clearwell.
15. Finished Water Pump Station (FWPS) including four canned vertical turbine finished water pumps and two backwash supply pumps and associated piping, valves, appurtenances, concrete pad, and access platforms.
16. Gravity thickener and associated pumps, piping, valves, and appurtenances.
17. Residuals Handling Building including centrifuge, polymer and dechlorination storage and feed equipment, conveyor, and associated pumps, piping, valves, and appurtenances.
18. Washwater Lagoon.
19. Main Electrical Building.
20. Process, plant water, chemical feed, storm, and other yard piping, including various vaults, junction boxes, manholes, and appurtenances.
21. HVAC, plumbing, fire protection, electrical, security, and I&C systems supporting each facility.
22. Site improvements including excavation, backfill, grading, access roadways, parking areas, bridges, curb, gutter, sidewalks, and appurtenant civil/site improvements. Topsoil used shall be the material stockpiled by Others as may need to be screened and/or amended to suit the project requirements.
23. Provision of temporary construction trailers at the consolidated site, to include trailers for the dam/reservoir contractor and OWNER/ENGINEER/Program Manager. Refer to Section 05 51 05 for additional temporary utilities information.
24. Finish grading and paving of the WTP access road.

C. Contracting Method: Work shall be constructed under one Construction Management Contract.

1.4 CONSTRUCTION CONTRACTS, THIS PROJECT

- A. Other construction contracts have been or will be awarded by OWNER that are in close proximity to or border on the Work of this Contract. Work under these other contracts is briefly described as follows:
1. Raw water pipeline from the Etowah River Intake and Pump Station (point of coordination as shown in the Drawings) to the Reservoir.
 2. Reservoir and dam and associated appurtenances. The contractor responsible for this work shall stockpile topsoil obtained from the area between the WTP and the Reservoir Intake and Pump Station for use on the Work defined herein.
 3. Distribution system improvements including the finished water pipeline (point of coordination as shown in the Drawings).
 4. Rough grading of the WTP area to the approximate initial grades shown in the Drawings (+/- one foot of finished grades shown), along with grading of the construction trailer area and entry access road (as a subbase road) from Highway 61 outside the extent shown in the Drawings. Erosion control

measures in the area of the work will also be installed, along with temporary power and water being brought to near the construction trailer area.

5. The OWNER will contract directly with a security vendor for completion of the work associated with the security related systems. The CONTRACTOR shall coordinate with the security system vendor scope of services to ensure the system as a whole shall be complete and operational. In general, the security system vendor shall provide all wiring, devices and control panels, and the CONTRACTOR shall provide a complete raceway system including junction boxes and other appurtenances so the security system vendor may pull wire from the field devices to the headend equipment. Refer to the security system vendor scope of services for additional details.

1.5 SEQUENCE AND PROGRESS OF WORK

A. Sequencing:

1. Incorporate sequencing of the Work into the Progress Schedule.
2. Sequencing Requirements:
 - a. Site preparation including access road (as a subbase road), erosion control measures, construction trailer area grading, provision of temporary power and water to a location generally north (plant north) of the Maintenance Building, and rough grading completed by others prior to commencement of this Work.
 - b. Etowah River Intake and Pump Station construction shall be sequenced in coordination with Reservoir and raw water pipeline construction (by others), so as to allow start-up and operation of the River Intake and Pump Station to allow filling of the reservoir in time for WTP start-up and in coordination with the completion of the dam and reservoir to allow filling to take place.
 - c. Reservoir Intake and Pump Station construction and installation of the pipeline to the WTP shall be sequenced to allow completion of the necessary intake work prior to filling of the reservoir, and to allow for start-up of the WTP by providing Raw Water as required to avoid any delays to Start-up and completion of the WTP.
 - d. Major electrical work shall be sequenced and coordinated with new utility power supply service to allow for start-up and testing of the intakes and pump stations at the proper times as well as for the start-up and testing of the WTP at the proper times.

1.6 CONTRACTOR'S USE OF SITE

- A. CONTRACTOR will have full use of the Site for storage and operations of workers. CONTRACTOR shall coordinate Work to allow other construction contract activities that may interface with or be integral with the Work.
- B. Where applicable, move stored products that interfere with operations of OWNER, other contractors, and others performing work for OWNER.

- C. Contractor shall limit operations on Site(s) to areas shown on the Drawings.
- D. CONTRACTOR shall provide for and coordinate with vehicular and personnel access by other contractors needing use to the Site for access to adjacent sites, such as the reservoir/dam.

1.7 EASEMENTS AND RIGHTS-OF-WAY

- A. Easements and rights-of-way will be provided by OWNER in accordance with Construction Management Agreement (CM/GC). Confine construction operations within OWNER's property, public rights-of-way, easements obtained by OWNER, and the limits shown. Use care in placing construction tools, equipment, excavated materials, and materials and equipment to be incorporated into the Work to avoid damaging property and interfering with traffic. Do not enter private property outside the construction limits without permission from the owner of the property.

1.8 NOTICES TO OWNERS AND AUTHORITIES OF PROPERTIES ADJACENT TO THE WORK

- A. Notify owners of adjacent property and utilities when prosecution of the Work may affect their property, facilities, or use of property.
- B. Notify utility owners and other concerned entities at least 72 hours prior to cutting or closing streets or other traffic areas or excavating near Underground Facilities or exposed utilities.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

++ END OF SECTION ++