



DESIGN SOUTH PROFESSIONALS, INC.

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'28 YEARS OF RESPONSIVE SERVICE'

MONTHLY PROGRESS REPORT

To: Terry Pruitt
General Manager, Pioneer Rural Water District

From: Greaton Sellers

Project: ***Lake Hartwell Water Treatment Plant, Raw Water Pump Station and Intake, Raw Water Transmission Main
Pioneer Rural Water District***

Project No.: 0743

Date: September 4, 2018

For the period beginning August 1st and ending August 31st, 2018, the following construction activities have been accomplished for each project area.

RAW WATER INTAKE AND PUMP STATION

Area 02 – Civil:

- No work was done during this time period.

Area 20 – Raw Water Intake:

- No work was done during this time period.

Area 30 – Raw Water Pump Station:

- Metal shoring for the pump station building slab was installed at the top of the caisson.
- Masonry walls were constructed in the following rooms:
 - Room 302 – Electrical Room.
 - Room 303 – Storage Room.

- Steel angle supports were installed, and hollowcore panels were set in the following rooms:
 - Room 302 – Electrical Room.
 - Room 303 – Storage Room.
- Concrete was placed in the following locations:
 - Raw water pump pads.
 - Electrical room equipment pads.
 - Hollow core panel perimeter.
- Installation of the raw water pump discharge piping and valve assembly began.
- The raw water pump sole plates were set and leveled.
- Light fixtures were installed for the pump room and in the electrical room.
- The pump station motor control center was installed.
- The MB30 panelboard was installed.
- Electrical unit heaters 30-UH-1 and 30-UH-2 were installed.
- Pump station exhaust fan 30-EF-1 was installed.
- Air conditioning unit 30-AC-1 was installed in the pump station electrical room.
- The metal coping cap was installed for the membrane roofing system.
- The roof drain downspouts were installed.

RAW WATER TRANSMISSION MAIN

Area 02 – Civil:

- No work was done during this time period.

WATER TREATMENT PLANT

Area 02 – Civil:

- The natural gas line was installed to the Membrane Filtration Building.



Area 40 – Pretreatment:

- The sludge collection local control panels 40-LCP-1 and 40-LCP-2 were installed.
- Light fixtures were installed in the utility room.
- Panel RIO40 was set in the utility room.

Area 60 – Membrane Filtration Building:

- The membrane feed pumps were set.
- Installation of the membrane feed pump influent piping and discharge piping was completed.
- The membrane strainers were installed.
- The membrane air compressors were placed.
- Installation began for the membrane compressed air piping.
- The membrane piping skids were placed.
- The membrane CIP tank was set.
- The CIP pump was installed.
- Installation began for the stainless-steel CIP piping.
- Exit signs were installed in the Membrane Filtration Building process area.
- Light fixtures were installed in the electrical room and the blowers and compressors room.
- The drop ceiling grid was installed throughout the office area.
- Light fixtures were installed in the office area drop ceiling.
- Ceiling panels were installed in the laboratory drop ceiling.
- The wooden casework was installed in the laboratory and break room.
- Installation began for the membrane roofing system metal coping cap.
- The roof drain downspout heads were installed on the Membrane Filtration Building.
- Metal downspouts were installed on the west side of the Membrane Filtration Building.



- HVAC duct was installed between the building roof and 60-AHU-1.
- Gas fired heater 60-GH-3 was installed in the Membrane Filtration Building.
- HVAC air diffusers and intakes were installed in the office area ceiling.
- Air conditioning units 60-AC-1 and 60-AC-2 were installed in the electrical room.
- The exhaust duct was installed from the roof into the fluoride room.
- Exhaust fan 60-EF-1, 60-EF-2A, 60-EF-2B, 60-EF-2C, 60-EF-3, and 60-EF-4 were installed on top of the Membrane Filtration Building.
- The guardrail for the mezzanine level was installed.
- Guardrails were installed above the electrical room.

Area 70 – Finished Water Storage:

- No work was done during this time period.

Area 75 – Finished Water Pumping:

- The pump check control valve control panels were installed.

Area 80 – Chemical Feed:

- The chemical day tanks were set and restraints were installed.
- The sodium hypochlorite, citric acid, sulfuric acid and sodium bisulfate dosing panels were installed.
- The water softeners, water heater, water chiller, booster pumps and interconnecting piping were installed for the hypochlorite system.
- The hypochlorite dilution panel was installed.
- The hydrogen dilution blowers were installed in the hypochlorite containment area.
- The PVC hypochlorite storage tank hydrogen vents were installed.
- The PVC vent was installed for the brine tank.
- The hypochlorite storage tank ladders were set.
- Panelboard RP260 was installed on the exterior of the fluoride room.



- The light fixture was installed in the fluoride room.
- The inside of the fluoride room was painted.
- The chemical containment concrete coating was applied in the containment areas.
- The fiberglass wall louver was installed in the fluoride room.

Area 95 – Residual Handling:

- No work was done during this time period.

PERSONNEL AND EQUIPMENT

1. Harper Corporation:

- Kubota SVL 75-2 Compact Track Loader.
- Caterpillar D5G LGP Bulldozer.
- Takeuchi TB135 Excavator.
- Caterpillar 314C LC Excavator.
- Caterpillar 930K Loader.
- Caterpillar 330L Excavator.
- Komatsu PC 138US-LC Excavator
- Eleven workers on site.

2. Hayes and Lunsford:

- Bobcat E39 Excavator.
- Five workers on site.

3. State Commercial Roofing, Inc.:

- Two workers on site.

4. Southern Painting and Maintenance Specialists, Inc.:

- Two workers on site.

5. MCG Mechanical Services:

- Two workers on site.



6. American Fire Protection, Inc.:

- Two workers on site.

7. G&S Services, Inc.:

- Six workers on site.

8. Feltman Bros., Inc.:

- Five workers on site.

9. Superior Surfacing Specialists:

- Five workers on site.

10. Commercial Casework Industries, LLC.:

- Four workers on site.

11. Payne, McGinn and Cummins:

- One worker on site.

MATERIALS DELIVERED

- Xylem, Inc. – Raw Water Vertical Turbine Pump: 2 each.
- Snyder Industries, Inc. – 550 Gallon Chemical Day Tank: 3 each.
- H2O Innovation, Inc. – Clearlogx Coagulant Control Panel: 1 each.
- Marley Engineering Products – Qmark Vertical Unit Heater: 2 each.
- Twin City Fans and Blowers – 36B206 Propeller Wall Fan: 1 each.
- Twin City Fans and Blowers – 420D Centrifugal Roof Exhauster: 1 each.
- Twin City Fans and Blowers – 480D Centrifugal Roof Exhauster: 3 each.
- Twin City Fans and Blowers – Fiberglass Upblast Centrifugal Roof Ventilator: 1 each.
- Twin City Fans and Blowers – 360D Centrifugal Roof Exhauster: 1 each.



PRECIPITATION

- 6.16 inches of precipitation fell during this time period.
- There were no days of lost work due to precipitation during this time period.

GWS:ala

c: Debi Green, Area Specialist, USDA/Rural Development
Heather Bryant, Pioneer Rural Water District

