March 2019 Monthly Report

BJCJSTP Rehabilitation and Restoration Project

The following projects are either nearing completion, in construction, or in the planning stage.

Contract No.	Description	Consent Order Milestone	Status
Contract No. 1	Compost Facility Demolition	Complete	Complete
Contract No. 2	FEMA Mechanical	Complete	Complete
Contract No. 3	BAF Facility Demolition	Complete	Complete
Contract No. 4	MCC HH Emergency Replacement	Complete	Complete
Contract No. 5	BAF Restoration and Rehabilitation Civil Contract	Projected Phase 1 Substantial Completion August 31, 2019. Projected Phase 2 Substantial Completion January 2020.	Projected Phase 1 Substantial Completion August 31, 2019. Projected Phase 2 Substantial Completion January 2020.
Contract No. 6	BAF Electrical	Projected Phase 1 Substantial Completion August 31, 2019. Projected Phase 2 Substantial Completion January 2020.	Projected Phase 1 Substantial Completion August 31, 2019. Projected Phase 2 Substantial Completion January 2020.
Contract No. 7	BAF HVAC	Projected Phase 1 Substantial Completion August 31, 2019. Projected Phase 2 Substantial Completion January 2020.	Projected Phase 1 Substantial Completion August 31, 2019. Projected Phase 2 Substantial Completion January 2020.
Contract No. 8	BAF Plumbing	Projected Phase 1 Substantial Completion August 31, 2019. Projected Phase 2 Substantial Completion January 2020.	Projected Phase 1 Substantial Completion August 31, 2019. Projected Phase 2 Substantial Completion January 2020.
Contract No. 9	Secant Pile Contract	Complete	Complete

Contract No. 10	Solids Handling Renovation Civil Contract	Substantial Completion #1 – June 30, 2020; Substantial Completion #2 – June 30, 2020; Substantial Completion #3 – June 30, 2020; Final Completion - August 30, 2020.	Substantial Completion #1 – June 30, 2020; Substantial Completion #2 – June 30, 2020; Substantial Completion #3 – June 30, 2020; Final Completion - August 30, 2020.
Contract No. 11	Solids Handling Electrical	See Contract #10 Completion Dates	See Contract #10 Completion Dates
Contract No. 12	Solids Handling HVAC	See Contract #10 Completion Dates	See Contract #10 Completion Dates
Contract No. 13	Solids Handling Plumbing	See Contract #10 Completion Dates	See Contract #10 Completion Dates
Floodwall	Floodwall and New Diversion Structure		Currently in Construction. Anticipated Completion Date January 2019.

Contract Descriptions

Contract No. 1 - Compost Facility Demolition

Demolition of the upper portion of the compost facility was performed to accommodate the construction of the new Administration Building to house the plant staff as well as provide the new control room to operate the new facilities. Demolition of the lower portion of the Compost Building cleared the way for the construction of a new maintenance facility.

Contract Status: 100% Complete - Contract Closed

Contract No. 2 - FEMA Mechanical

The FEMA Mechanical Project replaces valves, equipment and other miscellaneous items damaged in the 2011 flood. It includes equipment in both the East and West Primary Sludge Pumping Stations, valves and equipment located in the Head House, and equipment associated with Sludge Thickener Pumping Station Nos. 1 and 2. The cost of the work associated with this contract is being reimbursed by FEMA due to the flood of 2011.

Status: Blue Heron has completed all of the work not deleted by change. The elutriate pumps were deleted from the scope of work and will be performed under Contract #5.

Contract Status: 100% Complete - Contract Closed

Contract No. 3 - BAF Facility Demolition

The BAF Demolition Contract removed the existing structures and utilities that conflict with the new construction work included in the BAF Rehabilitation and Restoration Project. Demolition efforts included selective demolition in the existing process tanks (C-Filters, N-Filters, and DN-Filters), buildings, mechanical equipment, and piping to ready the site for new construction.

Contract Status: 100% Complete - Contract Closed

Contract No. 4 - MCC - HH Emergency Replacement

Contract No. 4 replaced the original existing Motor Control Center (MCC) in the Head House (HH). The MCC is 50 years old and is identified as MCC-HH. The contract was bid as an emergency contract because the electrical system in the Head House was both critical to keeping the BJCJSTP in service, and because the original MCC was extremely unreliable due to the age and deteriorated condition of the gear. MCC HH Emergency replacement also replaced the existing raw sewage pump drives of the existing 50 year old equipment including new electrical feeders from the HH to the Johnson City Grit House No. 1, a new feeder from the HH to the Thickened Sludge Pump Station No. 1, and various other panel boards. The emergency work also included replacement of the existing raw sewage variable frequency drives that were located in the existing MCC HH. The new drives installed are more reliable, more efficient, and will provide better performance of the existing raw sewage pumps.

Status: All work on the MCC- HH project has been completed.

Contract Status: 100% Complete

Contract No. 5 - BAF Restoration and Rehabilitation Civil Contract

When combined with the other BAF contracts (Nos. 6, 7 & 8), Contract No. 5, the General Civil Contract, is intended to provide a functioning automated plant using a BIOSTYR system that can be modified to fit current plant configurations. It is also intended to provide functioning automated headworks and primary clarification processes upstream of the BIOSTYR system and solid handling processes downstream of the BIOSTYR system.

Major components of the work under Contract No. 5 include new coarse screens and ancillary equipment, new piping and valves for the influent pumps, new metering equipment, new fine screens and grit removal with ancillary equipment, a new primary distribution box, new mechanical equipment for primary clarifiers 1-10, new chemical equipment for primary treatment, new chemical storage building, modification of the primary clarifier structural components to replace the aged and deteriorated mechanical equipment, new secondary influent pumps for the new BAF system, a new BAF backwash tank, new CN-BAF and DN-BAF facilities, a new methanol system that will feed the DN-BAF cells, new Ultra Violet Light disinfection system to replace the existing chlorine disinfection system, new sludge thickening equipment and systems, a new administration building, new odor control equipment, two new 2MW electric generators, and a new plant outfall to the river.

Status: In March, PC only placed about 425 CY of concrete. Their progress was impacted by some days of inclement weather as well as insufficient manpower for the concrete work. PC reported in February that they had approximately 2000 CY of structural concrete remaining for both Phase 1 and Phase 2. Their subcontractor was also reporting that they had approximately 2000 CY of structural concrete remaining before placing about 700 CY in February. PC's subcontractor was reporting that they should be able to complete the concrete work for the CN Cells 1-8, DN Cells, by the middle of February 2019, but that projection is now looking like about the middle of March 2019. While we are still skeptical, if PC will supply sufficient manpower to install the rebar ahead of the concrete crews, we believe that the end of March date is achievable for concrete work for CN Cells 1-8. PC reported that they have about 1400 CY of concrete to place to complete all structural concrete.

PC completed leak testing grit trenches and tanks in the Headworks. They have installed the concrete in the bottom of the south trench to contour the trench bottom for the grit equipment. They still have about 65 CY of concrete to complete at the Headworks and the BAF Treatment Facility. Most of that concrete is the benching for the bottom of the north grit channel. They still have not yet completed backfill around the Headworks. The backfill between the Headworks and Generator Building is making the installation of the power feeds and conduits to the Headworks difficult for Matco. We have expressed our concerns that PC is delaying work on the electrical feeders to both the Headworks Building, and BAF Treatment Facility electrical feeds. PC continued installing the brick work at the headworks in February, but we do not believe they will complete the brickwork until sometime in late March. PC continues to provide insufficient manpower to complete the pipe work and masonry work at the Headworks. The underground ductbank west of the Headworks is now installed, and Matco has installed the cables in the ductbank. PC has finally dried in all areas of the Headworks sufficiently, and Matco has a substantial work crew to install the conduit in the Headworks.

PC finally installed the aerial supports south of the BAF Backwash Treatment Facility and the headworks. This will allow Matco to install the electrical feed from the courtyard gear to the BAF Treatment Facility and Headworks. The sludge pipe in the basement of the BAF Treatment Facility is nearing completion. PC has completed rotating the plug valves that were not properly installed. PC is rotating the plug valves to comply with the manufacturer's installation instructions. Stairs in the BAF Treatment Facility have been installed. PC has not properly protected the stair treads, and they will be required to replace any treads that have been damaged during construction. We identified that the stair set to descend into the lower level of the BAF Backwash Treatment Facility were not installed in accordance with the building code. We identified this issue to PC two months ago, and they have agreed that their supplier will be fixing the stars to meet code.

PC is nearing completion of the Primary Influent Pipes to the PST's. PC has tested the 54-inch primary influent pipe between Distribution Box #1 and #2. They are also in the process of testing the 36-inch pipes from the Primary Distribution Box 1 to the PST's 1-6. The 54-inch pipe had an impact to the ductbank activities for DB EX-01 that runs between the Generator Building and the West Primary Sludge Pump Station. The duct bank provides the power to operate PST's 7-10, West Primary Sludge Pump Station, Methanol, and UV. Matco completed the ductbank installation in January. Wiring has been pulled in the ductbank. We are very concerned that the delays by PC may push the electrical feed to the west facilities to the critical path.

Work on CN Cells 1-8 is being advanced. PC completed concrete work on the upper walls for all cells. The only remaining concrete work for CN Cells 1-8 is the concrete walls for the two west drop boxes at Cell 7 and 8, as well as repair or replacement of the defective concrete for M Line in Cell No. 2. GHD has provided details for repairing the new wall on M line at CN Cells 2. The wall has an excessive amount of imperfections in the concrete. PC has completed the crack injection for all cells in the CN 1-8 with the exception of CN Cell 8 and the CN Effluent Channel. All CN Cells 1-7 have passed the leak test, and coatings are currently being installed.

PC has completed the concrete work in the DN Cells, with the exception of the concrete walls above the nozzle decks. PC is scheduled to complete placing the concrete walls and planning to complete the east most wall of the DN area on March 8, 2019. Matco has stated that PC is delaying them from installing the conduit to the UV Structure that goes on the east wall. PC has also not installed the stanchions between the DN building and UV building. These stanchions are required to allow Matco to install the power to UV. Without either power source, startup of the UV cannot begin.

PC continued installing stainless steel air pipe and backwash drain pipe in the CN 1-8 gallery and DN gallery this month. PC also continued installing stainless steel pipe in the Blower Building, Headworks, and BAF Treatment Facility. PC's subcontractor has reported that they should now finish the concrete work for the CN Cells 1-8 by the middle of March, 2019.

CN Cells 9-14 walls are also being advanced. PC is nearing completion of the concrete work for the concrete decks over the gallery at CN 9-14. The remaining section of concrete deck in the north-south utility corridor was placed in the middle of February. PC is stripping the shoring in that corridor, and is still delaying Matco from doing their work between the Blower Building and the CN Galleries. PC continued working on the backwash header in the CN Cells 9-14. PC is nearing completion of the cells on the south side of the structure and has completed all of the benching in the lower level of the cells. PC has completed setting and grouting nozzle decks in CN Cells 9-14. PC's subcontractor is now reporting that they should complete the concrete work for CN Cells 9-14 by the end of April. We remain skeptical.

Mechanical and electrical trades are working in the DN Blower Building and DN Gallery. PC continued installing the stainless steel pipe and are complete with all lower level concrete work. PC's subcontractor is now projecting that they should finish the concrete work for DN Cells by the end on March 8, 2019. We remain skeptical. Electrical equipment such as the variable frequency drives have been installed, which has allowed Matco to put substantial resources in the gallery and building. They are installing the conduit in the gallery, and in the DN Blower Building.

PC finally began installing the expansion joints in the PSTs 7-10 this month. They should be complete in March. PC also began installing the slide gates on the PST drain lines. The Primary Setting Tanks 7-10 are nearly complete. The concrete coating applications are complete and PC still needs to repair some blemishes in the coatings. PC still has to do the leak test after they complete the installation of the expansion joints. Matco has completed installing the ductbank EX-01 that provides the electrical feed to the area. It will likely be a couple of months before the Headworks is complete. We cannot take flow to the PST 7-10 until both the Headworks and SIPS are operational.

PC did very little work on yard pipe this month. The pipe work for the 54-inch primary influent pipe between Distribution Box No. 1 and Distribution Box No. 2 is complete with the exception of the hydrostatic and leak test. The installation of the 54-inch pipe held up the duct bank that runs between the new Generator Building and the West Primary Sludge Pump Station. PC should continue installing miscellaneous yard piping in the area of the Headworks and also in the area adjacent to the floodwall on the south side of the site this month. Backfill around the Headworks has not been completed, and is potentially impacting work in the Headworks.

Construction of the new Chemical Building is nearing completion, but no significant activity has been done in this building for months. The building is ready for testing, which will be several months ahead of the need for the building. Work in the East Odor Control Building is nearing completion. All work by PC has been completed, and they are requesting a partial substantial completion for the building.

Matco continued electrical work in the Blower Building this month. PC continued their process pipe installation for air and backwash pipe in the CN gallery this month. PC has completed the concrete work for the SIPS area. PC still needs to erect the metal SIPS Pump Building. The roof has been installed on the Electrical Room, which has allowed Matco to begin work there.

PC suspended work in the Methanol area, pending a resolution on their American Iron and Steel (AIS) Compliance issue. We have notified them that the fittings are not covered under the de minimis material. PC has submitted a waiver request for the fittings in order to comply with the AIS provisions of the contract. They were advised by the EPA that PC provided insufficient information to allow the EPA to do their market analysis. Either PC needs to get a variance from the EPA and EFC, or remove and replace the fittings with AIS compliant fittings.

Matco installed the exhaust for the new generators this month. Matco has completed the conduit work and has pulled the wire to various locations in the building. PC was directed to square the existing openings for the new louvers to be installed on the North wall of the Generator Building. This is extra work, and it has been authorized to be done on T&M. Startup of the generators cannot complete until the exhausts are complete and the louvers have been installed in the north wall of the Generator Building.

Kruger equipment submittals are complete. Much of the Kruger supplied equipment is being installed at Kruger's direction. Most of the preliminary Operations and Maintenance manuals as well as the startup and testing plan from Kruger are complete. PC requested a variance for leak testing the cells. Their request to be allowed to install the coatings in the lower level of the cells before the leak test is performed has been rejected by GHD. PC began cleaning the walls for testing and coating. PC has committed to a hard date of March 25, 2019 for delivery and installation of the filter media being provided by Kruger. PC's February construction schedule shows them missing that date by several months, however, PC has stated that they are now following the flawed CPM schedule. We have notified PC that they are not in compliance with the contract for providing a comprehensive schedule, and were notified that no further payments would be made until they are in full compliance with the CPM Schedule specifications.

No significant change at the new Administration Building this month. The work on the upper floor of the Administration Building is complete. The final punch list and Fire Protection System testing is complete. Miscellaneous punch list items are being resolved by PC and the other trades on a regular basis. The HVAC system is now in the automatic mode. We continue to chase leaks in the existing concrete for the structure in the maintenance portion of the building. The leaks are being injected with epoxy when they can be located during rain events.

PC has not completed the storm drain installation near the Solids Handling Building. This prevented the parking lot for the Administration Building from being paved before winter. PC will not install the asphalt for the parking lot until next spring. The City decided to increase the width of the parking lot to meet Vestal Code. The parking lot will now be 60 feet wide from North to South. The asbestos containing material in the existing duct bank along the south edge of the parking lot has been abated. The material was removed via change order. PC is no longer making an effort to complete the parking lot before the asphalt plants shut down for the winter.

PC has completed the south flood wall and has completed the concrete placements at CN 9-14 to meet the Consent Order requirements for flood protection to elevation 845. In addition to the concrete work, Matco needs to complete the electrical power to storm water pump station 4. Storm water pump stations 1 and 2 are operational from a temporary generator if the need should arise. PC must finish the repair of the M line in cell #2 to allow the permanent electrical feed for PS #4 to be completed.

Contract Status: 84% Complete

Contract No. 6 - BAF Electrical

The BAF Electrical Contract supports the BAF General Civil Contract and includes all electrical and instrumentation associated with the BAF contracts. The components include installation of the new UV disinfection system, installation of the new generators, installation of the electrical feed throughout the plant, as well as installation of the instrumentation and SCADA System throughout the plant. There are approximately 40 electricians and support staff onsite.

Status: Matco has completed the conduit from the Courtyard switchgear to the MCC in the new Headworks Facility. The wire has been pulled and Matco has scheduled the manufacturer for their pre-energizing inspection for the week of April 8, 2019. This is a significant milestone for the headworks facility as it will allow the equipment to be powered and begin check out of the equipment prior to the Functional Demonstration Test and System Demonstration Test. Matco has committed to finishing the electrical and control work for the process equipment in the Headworks by the end of April. GHD has issued a revised drainage drawing to address issues with the drainage of the courtyard area as well as the area north of the Generator Building.

Installation of the major conduits and wire for the generators are complete. MATCO is nearing commissioning of the generators, the ancillary gear, and the existing plant switchgear. They are now projecting completing the new generators in April, due to PC not completing the change order work to square the openings for the new louvers on the north side of the building. J&K has installed the generator exhaust systems. They are awaiting completion of the installation of the louvers on

the north and south sides of the generator building, which required extra work by PC to square the openings for the new louvers on the north and south sides of the building. The existing louver openings were not square, so the new louvers could not be installed prior to squaring up the openings.

Matco has completed installing the underground ductbank between the Courtyard gear and the West Primary Sludge Pump Station. This ductbank feeds the power to the PST 7-10, the West Primary Sludge Pump Station, the UV reactors, and the plant Water Pump Station. Matco was delayed by PC in feeding power to all of these areas because of PC's failure to get their yard piping and backfill done in the area west of the Headworks. Matco had to wait to install their ductbank DB Ex1 until after PC completed installing their buried pipe because the 54" pipe was below the ductbank. PC refused to backfill the area to allow Matco to install their ductbank, which pushed the ductbank installation into winter conditions. Matco has a claim that they submitted that we have told them to address with PC.

MATCO continued work in the West Primary Sludge Building, the East Odor Control Building, the CN 1-8 Gallery, DN Gallery, and the Methanol Building. Matco completed installing process conduits to equipment in both the upper level and the lower level of the Blower Building, Headworks, and the BAF Backwash Treatment Facility. PC has used the Blowers in the BAF Blower Building to bubble test in the CN Cells that PC has completed the bubble pipe. PC has installed the overhead supports for several overhead ductbank, but they continue to provide insufficient access for Matco to complete their overhead ductbanks around the site. PC has been notified weekly by Matco of this delay, so they have no real excuse for failing to allow Matco reasonable access.

We continue to look at options for the installation of the conduit and electrical equipment in other locations to advance the electrical work. This is important to meet the DEC Consent Order as well as to avoid overly congested work areas at the end of construction. We keep pushing PC to open up additional areas for MATCO work, most specifically the SIPS area and CN Cells 9-14. MATCO has been making good progress in the Methanol Building, Blower Building, West Primary Sludge Pump Station, BAF Backwash Treatment Facility, and the Headworks. Matco is nearing completion of the cable tray in the north south corridor between CN Cell 8 and CN Cells 9-14. This corridor was not provided to Matco until late March 2018, despite repeated requests by the Owner.

Matco has powered the permanent pumps for Storm Drain Pump Station #4, and are completing the permanent power to storm Drain Pump Station 1 and 2 by the first week in April. All three Pump Stations were operational via emergency generators that Matco has promised to provide should the situation arise. Matco currently has about 40 electricians and apprentices on site.

Contract Status: 87% Complete

<u>Contract No. 7 - BAF HVAC</u>

The BAF HVAC Contract supports the BAF General Civil Contract and includes installation of all HVAC Systems in all STP facilities as well as revisions to the odor control systems throughout the

plant. The odor control improvements are intended to alleviate the odors that have been prevalent in the past in and around the plant.

Status: The contractor continued working on ductwork installation in various locations around the site. They are actively working in the Generator Building, SIPS, Headworks, BAF Treatment, West Primary Sludge Pump Station, DN, and UV. J&K has provided supporting information for the development of the CPM Schedule. They are coordinating with PC Construction and the other prime contractors.

Contract Status: 90% Complete

Contract No. 8 - BAF Plumbing

The BAF Plumbing Contract supports the BAF General Civil Contract and includes installation of plumbing systems for the new and existing facilities included in Contract No. 5.

Status: Danforth is working in various buildings around the site such as the Headworks and BAF Backwash Treatment Facility. They are also preparing for their work in the CN Cells 1-8. They are also supporting the effort by the BJCJSTP to have the sludge pipe in the existing Digester Control Building. They are coordinating with PC Construction and the other prime contractors and they have confirmed that they can meet the required milestones of the Consent Order.

Contract Status: 93% Complete

Contract No. 9 - Secant Pile Contract

The Secant Pile Contract includes installation of the secant piles that support the excavation for the new BAF Backwash tank as well as supporting the new CN Cells 9-14. Construction also includes excavation to the final grade for the BAF backwash tank. This project was bid separately from Contracts 5-8. In doing so, a minimum of four months on the critical path schedule was saved.

Status: The installation of the secant pile wall is complete. Close out documents were submitted to close out this project.

Contract Status: 100% Complete - Contract Closed

Contract No. 10 -Solids Handling Renovation Civil

Contract No. 10 is intended to renovate and improve the solids handlings systems including the existing Digester Control Building, existing digesters, solids dewatering systems, and all ancillary equipment. As part of the improvement to the solids handling process the following components will be constructed or installed. The new structures include a new Solids Handling Building, a new Gas Conditioning Building, and a new Sludge Loading Facility. The new equipment being installed includes new centrifuges, new mechanical thickeners, new gas processing equipment, new microturbines, and new scum screening equipment. The scope was further developed during the design processes to include sludge blend tanks. Additionally, the contract renovates the existing

laboratory facilities at the STP. The contract was bid as a multi-prime contract consistent with New York State Construction Contract Requirements.

Status: Architectural work for the new Solids Handling Building is now complete. Concrete work for the Gas Conditioning Equipment Building was completed several months ago. Renovation for the Lab at the Headhouse is nearing completion. As soon as we can get the code inspections for the east portion of the lab in the headhouse, we can allow Quandel to begin work on the west half of the lab renovation. It should take Quandel about a month to complete the lab renovation after they are able to move the WTP staff from the west half of the laboratory to the renovated east half.

Quandel is nearly complete in installing the mechanical systems in the Solids Handling Building. They are largely waiting on Matco to complete the electrical work so they can begin pre-functional testing of the equipment. After they complete the pre-functional testing, they will be able to move into the Functional Demonstration Tests. The Functional Demonstration test should complete about the time that PC is projecting to have the headworks equipment functional. As soon as we can complete the System Demonstration Test on the equipment in the Solids Handling Building, we can divert sludge to the new centrifuges for processing. After this diversion, the existing Centrifuges can be removed to make way for the new Mechanical Thickeners that are to be installed in the current centrifuge room.

Quandel was not making any progress on the removal and recertification of the gas conditioning equipment, so we were forced to remove the work from their scope of work and the City is procuring the equipment on a sole source contract. They are alleging that they are not responsible for reconditioning the equipment. Quandel declined to quote a cost proposal to recoat the inside of digesters 1 & 2, which are the two smaller digesters. The owner is reviewing options to recoat digesters 1 and 2 before the covers are installed on them. Digester cover #3 is installed, and we had to put digester covers 1 and 2 on hold pending a decision for recoating. The next available window of time for Westech to mobilize to the site to install covers for digesters 1 and 2 is in middle of June. Quandel completed installing the coatings inside the new sludge tanks under protest. We are working hard to get Quandel to complete a digester functional equipment test plan as well as a System Demonstration Plan. We had a very productive meeting with several of the stakeholders for the startup of the Digesters, and believe that we will have a functional plan that is approvable within a few weeks for Digester #3. Implementation of that plan cannot begin until the Headworks is complete and functional. All indications are that Digester #3, the headworks, and ancillary facilities should all be ready to startup in late May to early June.

Quandel continued to work in the Sludge Thickener Pump Stations and will be able to complete the sludge grinders in the Digester Complex in early April. A segment of buried digester gas pipe is leaking and will need to be replaced. GHD has completed their design. We developed and executed a plan that saved the City in excess of $400K from the price quoted by the Contractors to clean the Digester Gas Pipe and Sludge Pipe in the Digester Control Building.

Contract Status: 92% Complete

Contract No. 11 - Solids Handling - Electrical

The Solids Handling Electrical Contract supports the Solids Handling General Civil Contract and includes installation of electrical for the new and existing facilities included in Contract No. 10.

Status: The electrical contractor is MATCO, as it is on the BAF Contract No. 6. MATCO continues to support the General Civil Contractor's schedule. Matco is working throughout the site for the Solids handling Contract. Matco stated that they will not receive the MCC for the Solids Handling Building until March 28, 2019. A significant dispute has come up between Matco and the Quandel System Integrator. The contract requires Quandel to have their system integrator install conduit and wire for all instruments that are not specifically called out to be installed by Matco. Matco claims to have installed conduit and wire associated with some of the instruments that are the responsibility of the Quandel System Integrator.

Contract Status: 66% Complete

Contract No. 12 - Solids Handling - HVAC

The Solids Handling HVAC Contract supports the Solids Handling General Civil Contract and includes installation of HVAC systems for the new and existing facilities included in Contract No. 10.

Status: The HVAC contractor is J&K Plumbing, as it is on the BAF Contract No. 7. J&K continues to install the boiler and associated piping in the Digester Control Building, and continued installing the HVAC equipment in the Solids Handling Building, sludge pumps station #1, and in the Digester Control Building. Because the heat exchanger for Digester #3 has never been put into service, and was installed before the 2011 flood, we are having J&K test the heat exchanger in advance of the need to start using the heat exchanger. They are also supporting the General Civil Contractor's schedule.

Contract Status: 82% Complete

Contract No. 13 - Solids Handling - Plumbing

The Solids Handling Plumbing Contract supports the Solids Handling General Civil Contract and includes installation of plumbing systems for the new and existing facilities included in Contract No. 10.

Status: The plumbing contractor is JW Danforth, as it is on the BAF Contract No. 8. Danforth is making good progress installing the plumbing in the Solids Handling Building and also the Digester Control Building. Danforth continues to support the General Civil Contractor's schedule. Danforth finished supporting the cleaning of the Sludge and Digester Gas Piping in the Digester Control Building. Danforth has been issued a request for proposal to replace the damaged digester gas pipe to the gas flare. As soon as we receive their proposal we will expedite a review and pricing for a change order to repair this pipe.

Contract Status: 86% Complete

Floodwall

The new floodwall being constructed at the STP is intended to protect the plant to an elevation 1.5 feet above the 2011 flood level. The floodwall includes concrete walls on the east and north sides of the STP. The project also includes two new pump stations to pump up stream out of the plant during the storm events. The new floodwall system works in conjunction with new floodwall features included in Contract No.5 BAF General Civil Construction. The floodwall systems are being funded by a FEMA recovery grant.

Status: The concrete floodwall under Streeter's contract has been completed. Startup and testing of the two storm water pump stations are complete. The access platform for the valves at the two storm drain pump stations are complete. Streeter has completed testing the 54" gate in MH#3, and testing for the 54" gate in the Sampling Structure is now scheduled to be done in early April.

Contract Status: 98% Complete

NOTES:

1. SWPPP measures continue to be maintained by all contracts. Any deficiencies noted during daily or weekly inspections are promptly remedied. The City received a Notice of Violation from DEC for SWPPP issues. We have addressed all of the issues, including the paperwork that was not modified as required for the inclusion of Solids Handling. We are attempting to get the SWPPP closed out for Streeter, and will need to transfer responsibility for the SWPPP outside the floodwall to the new WQIP contractor.

2. The WWTP Staff issued a PO to Drain Brain to clean the existing Digester Gas Pipe and Sludge Pipe. We are complete with this effort. The original quote from the Contractor was in excess of $450K for just the cleaning of both sets of lines. The final cost was about $53.6K, and was completed by December 15, 2018.

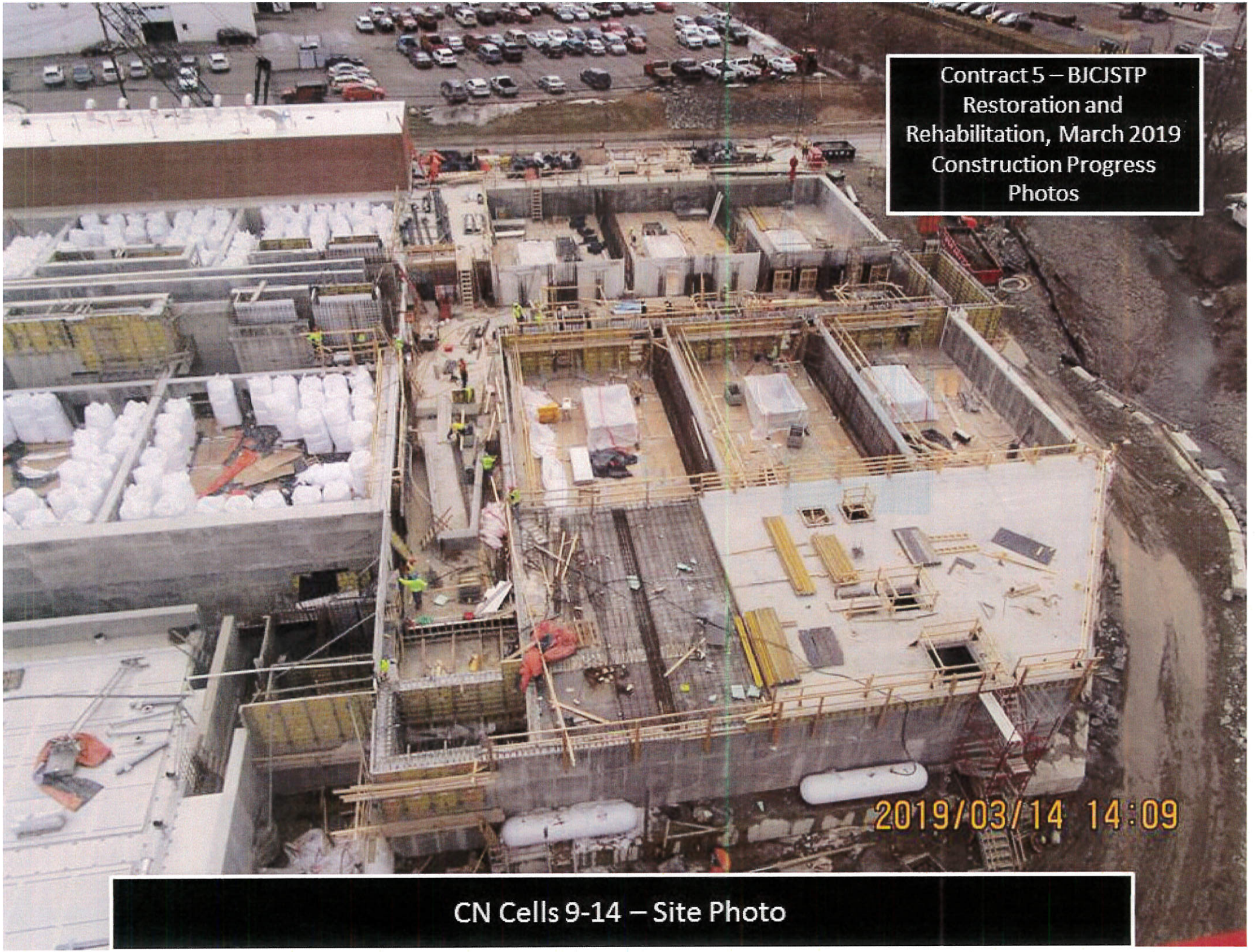
3. The City has issued a purchase order to JDV to provide the Digester Mixing Equipment for $278,620. This equipment was in need of rehabilitation and replacement, but it was not included in any contract. The cost to rehabilitate equipment that can be rehabilitated and the cost to replace the other equipment, the quote of $572,915 we received from Quandel was excessively high, and it was in the best interest of the City to purchase and rehabilitate the equipment separately. By performing this equipment purchase separately, we were also able to accelerate the delivery and installation of the equipment in advance of what Quandel was quoting. JDV has begun installing the Digester Gas

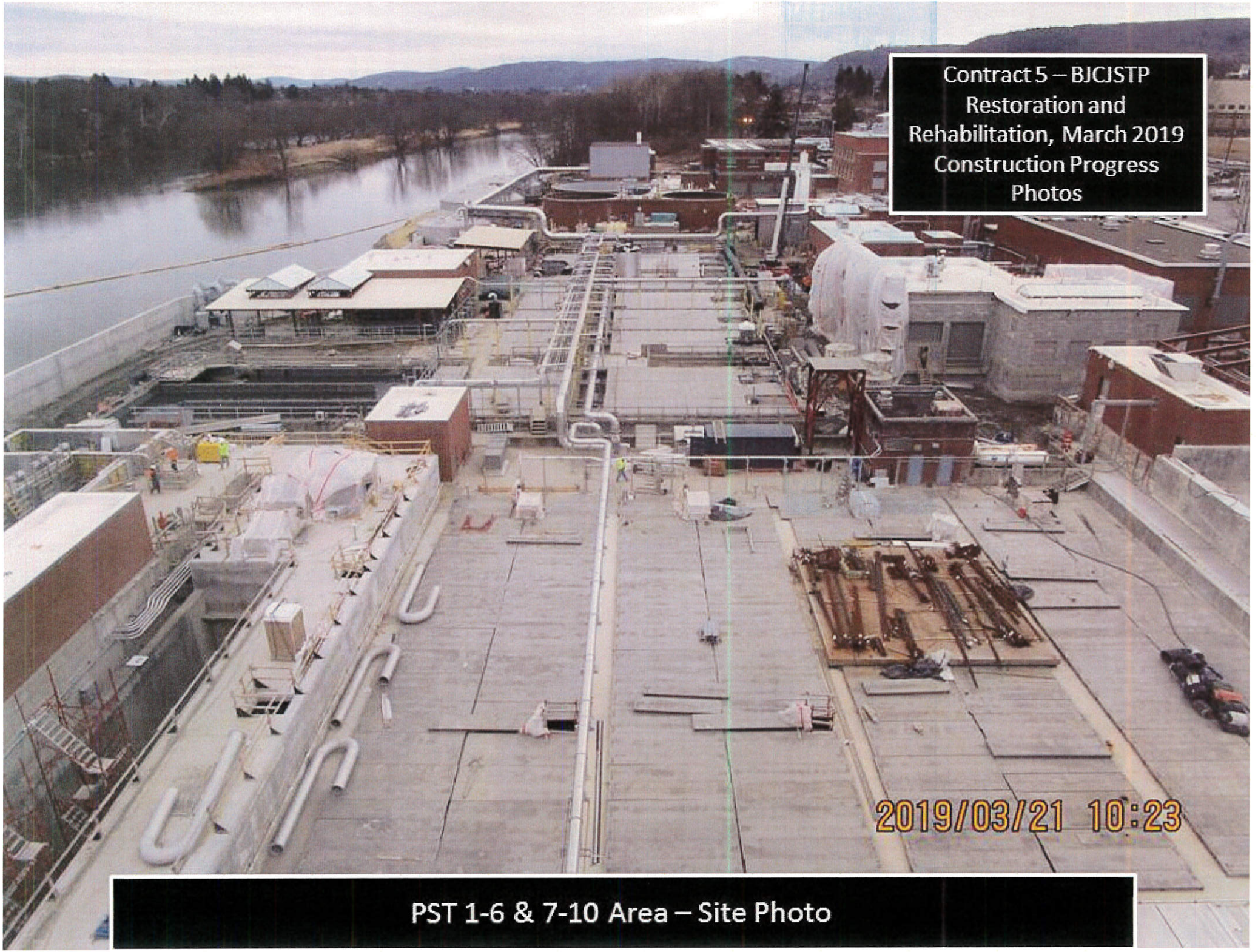
Mixing Equipment for Digester #3, and should have the Digester Gas Mixing Equipment for Digesters #1 and #2 installed in June to support the Digester #1 and #2 startup.

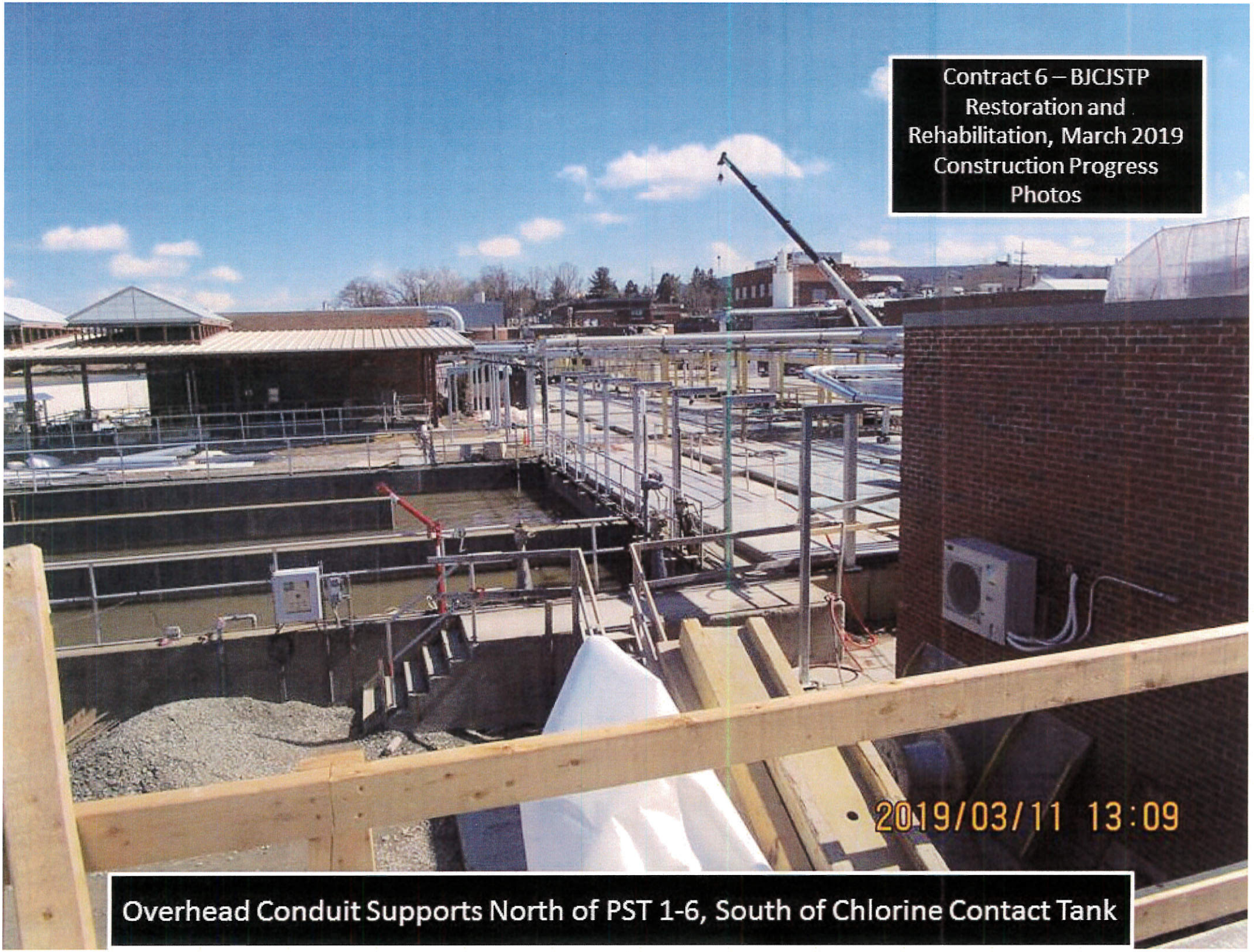
4. The City has also issued an agreement with Koester to provide replacement equipment for the digester gas safety equipment and to include installation. The agreement was issued for $639,086, and Quandel's quote was for $1,110,668. We will be seeking some recovery from Quandel for some of the $639K for the portion of the work that is included in their scope of work. Installation of this equipment for Digester #3 should begin in April.

5. Weekly meetings are held for each contract to discuss the progress of the work and identify and resolve issues and problems. Meetings between contractors on the various contracts are held as necessary to facilitate any concerns and coordinate work between all contracts.

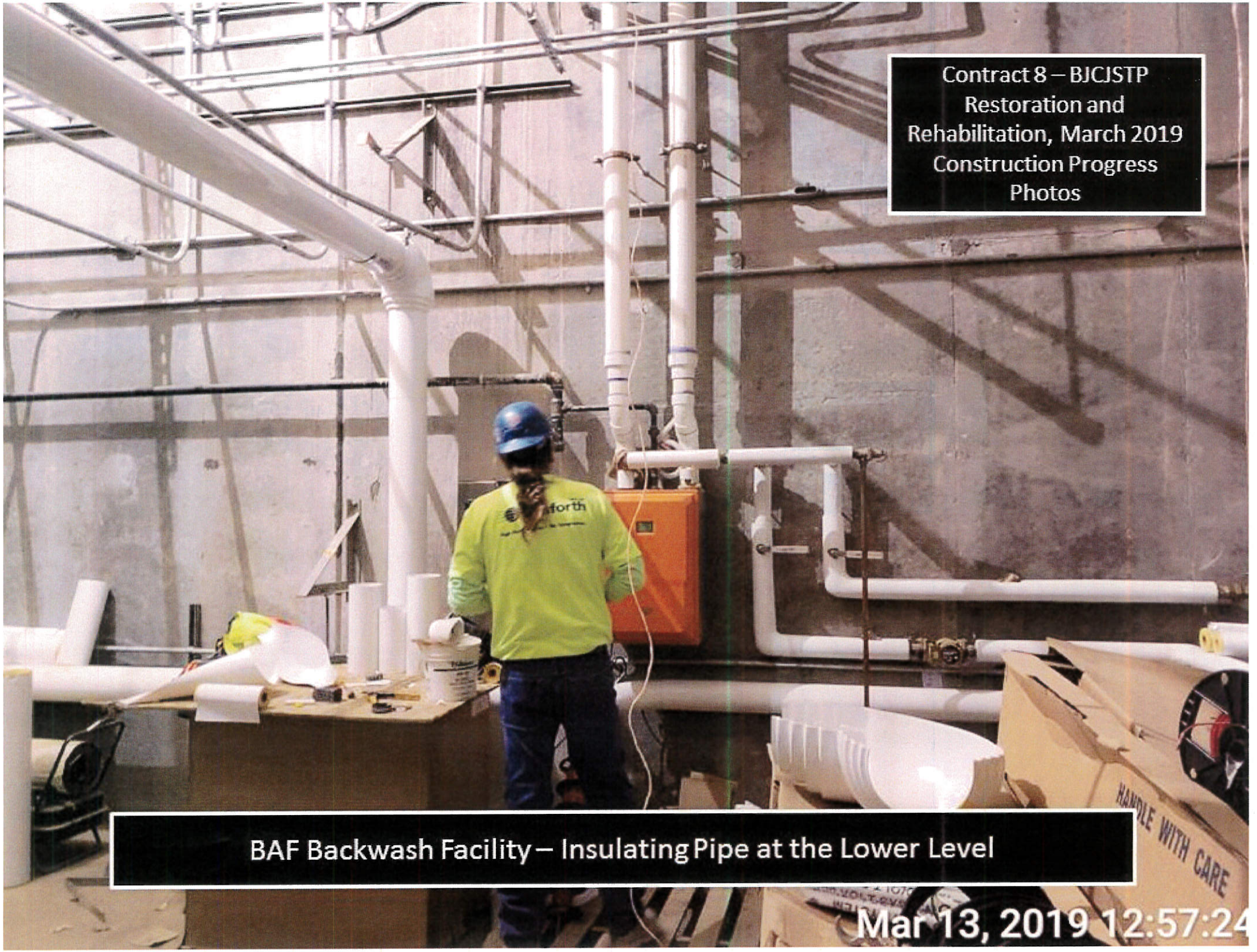

Contract 5 – BJCJSTP Restoration and Rehabilitation, March 2019 Construction Progress Photos
South Grit Chamber – Formed and Ready for Concrete
Mar 5, 2019 09:47:36

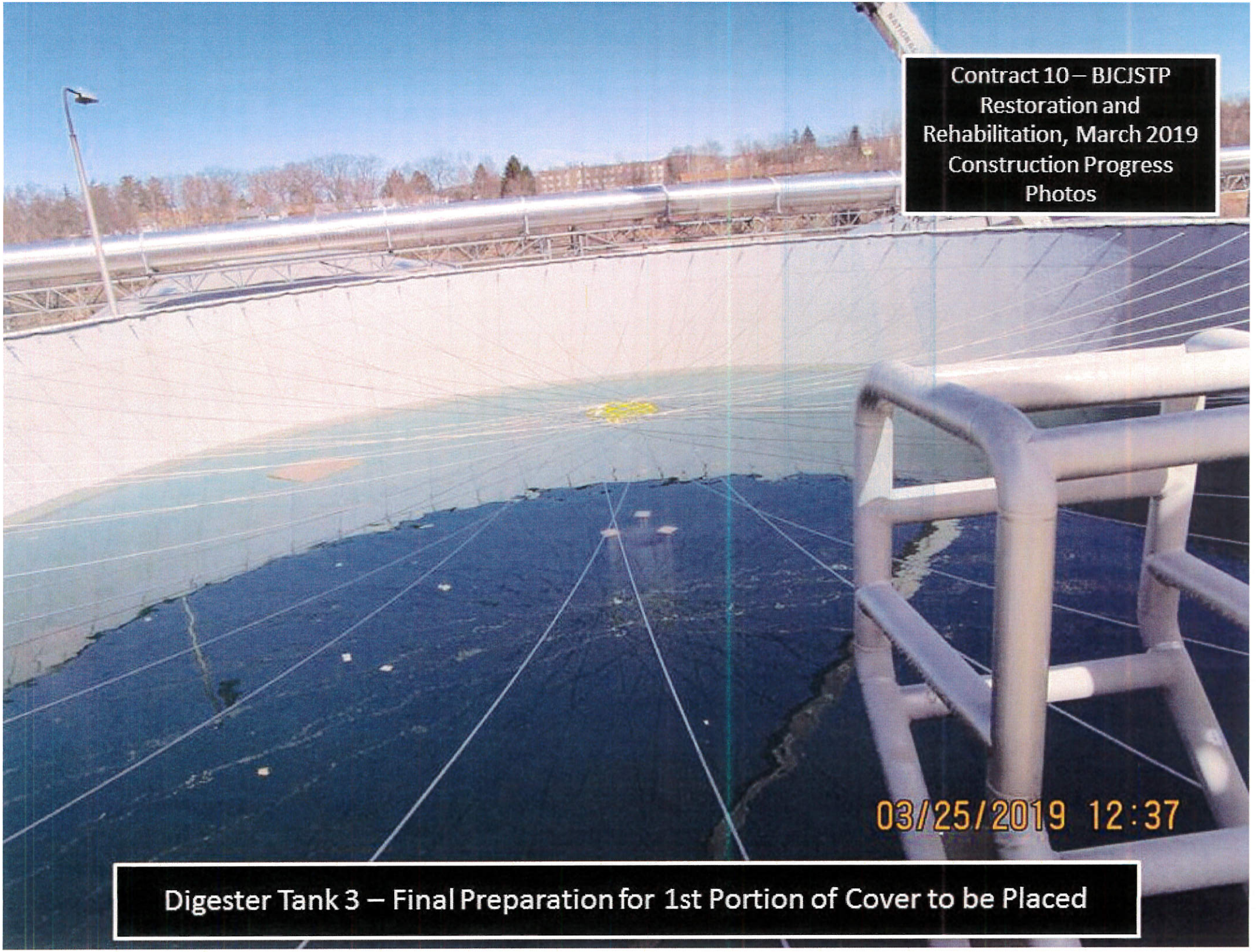

Contract 5 – BJCJSTP Restoration and Rehabilitation, March 2019 Construction Progress Photos
2019/03/14 14:09
CN Cells 9-14 – Site Photo


Contract 5 – BJCJSTP Restoration and Rehabilitation, March 2019 Construction Progress Photos
2019/03/21 10:23
PST 1-6 & 7-10 Area – Site Photo

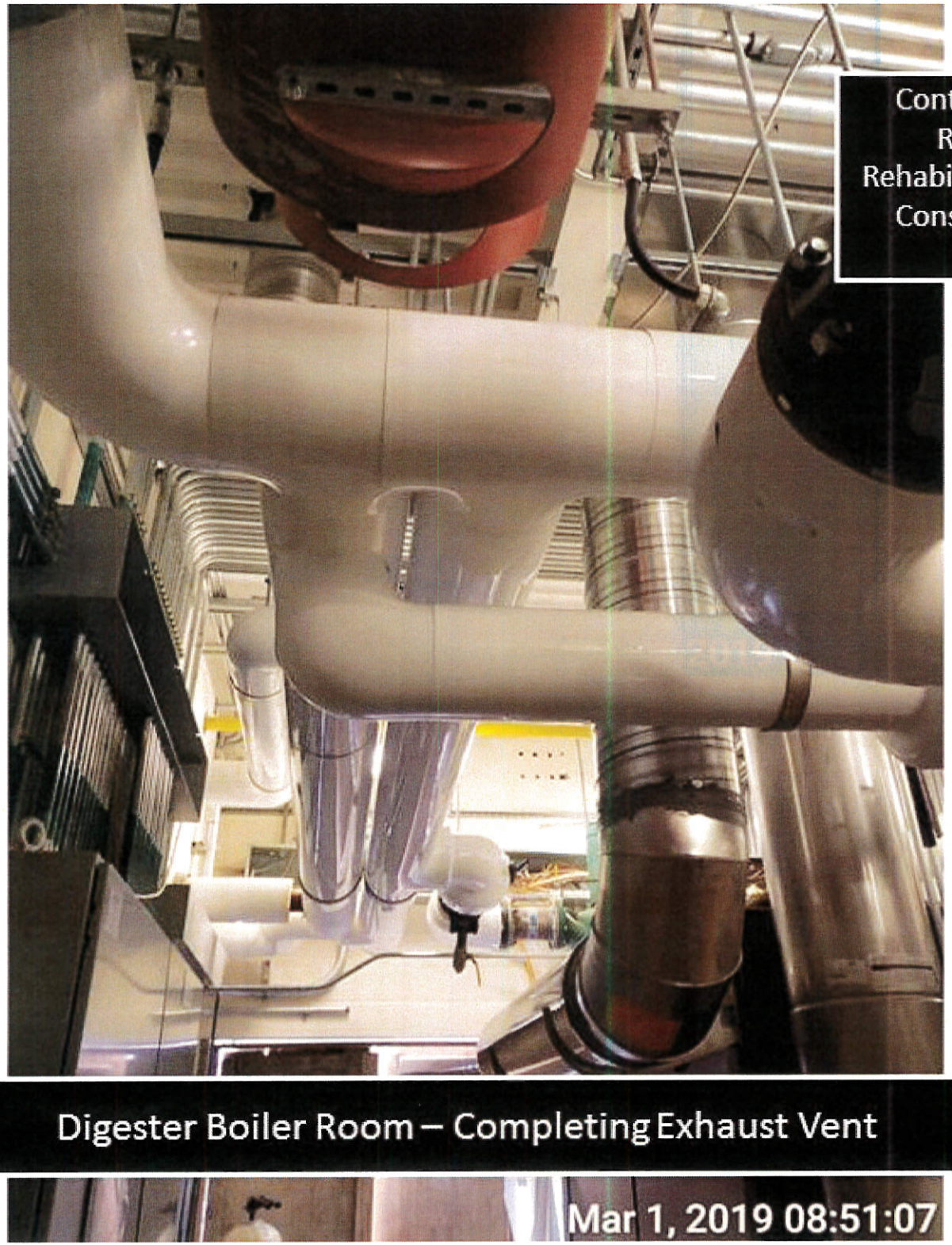

Contract 6 – BJCJSTP
Restoration and
Rehabilitation, March 2019
Construction Progress
Photos
2019/03/11 13:09
Overhead Conduit Supports North of PST 1-6, South of Chlorine Contact Tank


Contract 7 – BJCJSTP Restoration and Rehabilitation, March 2019 Construction Progress Photos
9
Generator Building – West Wall Louvers & Supports
Mar 11, 2019 10:26:39

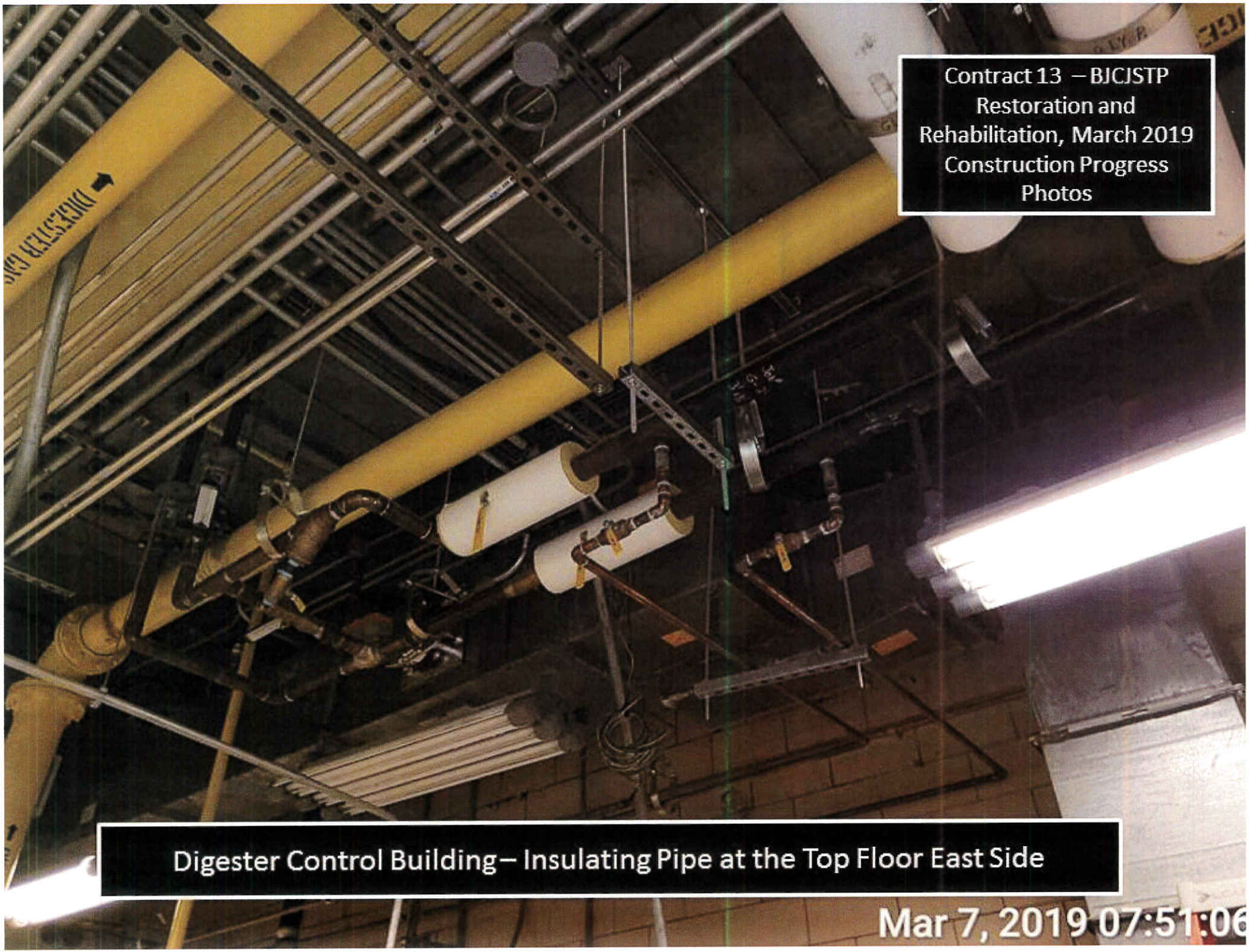

Contract 8 – BJCJSTP Restoration and Rehabilitation, March 2019 Construction Progress Photos
BAF Backwash Facility – Insulating Pipe at the Lower Level
HANDLE WITH CARE
Mar 13, 2019 12:57:24


Contract 10 – BJCJSTP Restoration and Rehabilitation, March 2019 Construction Progress Photos
03/25/2019 12:37
Digester Tank 3 – Final Preparation for 1st Portion of Cover to be Placed

Contract 12 – BJCJSTP Restoration and Rehabilitation, March 2019 Construction Progress Photos



Digester Boiler Room – Completing Exhaust Vent


Contract 13 – BJCJSTP Restoration and Rehabilitation, March 2019 Construction Progress Photos
Digester Control Building– Insulating Pipe at the Top Floor East Side
Mar 7, 2019 07:51:06