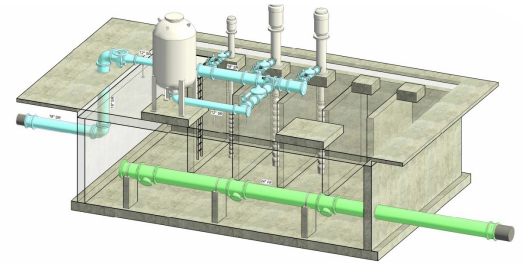
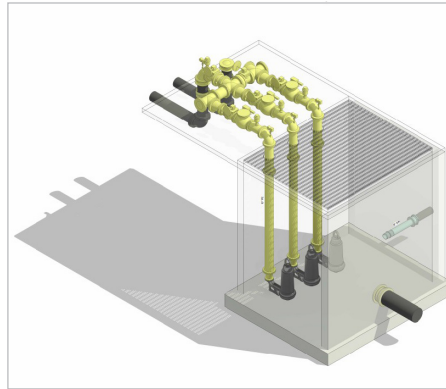


CUSTOMER CASE STUDY

CONFLUENCE PARK WATER RECLAMATION FACILITY



PROJECT OVERVIEW

PROJECT / CUSTOMER:

Confluence Park Water Reclamation Facility

LOCATION:

Washington County, UT

PRODUCT / SOLUTIONS:

Virtual Design & Construction (VDC) Services

CHALLENGE:

Complex and precise pipe routing process in a high-performance, environmentally integrated facility, constrained by tight spaces and strict environmental/safety standards and compounded by material procurement from multiple vendors

SOLUTION:

A coordinated approach involving the Ferguson Project Management tool and the Design-Build Project Management team, sales, and VDC teams to consolidate material fulfillment, design a solution that optimized environmental performance, and streamline installation for on-time, on-budget project completion.

OUR ADVANTAGES:

- Dedicated VDC experts and leading-edge technology
- Local expertise in environmental and safety standards
- Streamlined material procurement and delivery
- Enhanced project management and stakeholder coordination
- Manufacturer and vendor partner coordination for improved design support

BACKGROUND

The Confluence Park Water Reclamation Facility, spearheaded by the Ash Creek Special Service District, is a bold leap toward a sustainable future in Washington County, Utah.

Nestled in the heart of Confluence Park, this state-of-the-art facility transforms wastewater into high-quality, reusable water—supporting regional growth, conserving drinking water, and protecting local ecosystems. Blending cutting-edge technology with environmental responsibility, it's designed to serve as a model for smart, water-wise communities. The facility is designed to treat up to 3 million gallons of wastewater per day from two different cities.

As the region experiences rapid population growth and increasingly unpredictable climate conditions, the demand for reliable, sustainable water solutions is critical. This project is a powerful commitment to innovation, sustainability, and the long-term vitality of Southern Utah.

PROJECT SCOPE

The complexity and precision required in the piping routing process within a high-performance, environmentally integrated facility poses a unique challenge. Wastewater treatment plants involve a dense network of piping systems including pressurized lines, gravity-fed systems, chemical feed systems, and recycled water loops. All of these systems must function within tight spatial constraints and strictly adhere to environmental and safety standards.

METHOD

The project team engaged Ferguson Waterworks for multi-pronged project support. The Waterworks VDC group designed a comprehensive model of the project's ductile piping systems and identified constructability issues early in the process—reducing rework and contributing cost savings in the process.

Our team's experience in process-intensive environments ensured that piping layouts are both clash-free and optimized for constructability. Our model also enables fabrication-ready construction, which allows contractors to install faster on-site, saving time and reducing risk.

The VDC group's design work enabled the sales team to begin material assessment and advisement, helping the project stakeholders select on-budget product with suitable lead times. We also worked closely with the selected manufacturers, vendors, and fabricators to confirm that any changes to the BOM could be fulfilled within the project's timeline.

Our dedicated Design-Build Project Management team provided expert end-to-end support, coordinating with manufacturers, vendors, contractors, and owners to ensure alignment.

This support kept the project on track to meet the project deadline with the possibility of finishing early, a seldom feat in most infrastructure projects.

THE SOLUTION: FERGUSON

The client engaged Ferguson Waterworks because of the project requirements' complexity and sensitivity and our history of success on projects of similar scope.

Our VDC associates are experts in identifying clashes between systems (piping, electrical, structural, etc.), coordinating information and materials among trades, and leveraging Building Information Models to flow seamlessly into prefabrication and installation.

In complex projects like water reclamation facilities, these skills are critical to ensuring accuracy, efficiency, and smooth execution.