

Cover photo: Drilling operation at the Priest Rapids project site.



YEARS OF OUTSTANDING TEAMWORK LEAD TO SUCCESSFUL COMPLETION OF THE PRIEST RAPIDS PROJECT

BELLINGHAM ROEDER LIFT STATION START-UP

**LEWISTON WTP HONORED
WITH DBIA AWARD OF MERIT!**

**CONSTRUCTION OF WASHINGTON STATE'S FIRST
HYDROGEN PRODUCTION FACILITY UNDERWAY**

THE **DIRT**



Sorting on-site processed boulders for connecting embankment armoring. The upstream face of the newly constructed RCC dam.



IMCO servicing Malcom Drilling. Off-road trucks hauling away shaft excavation spoils and supplying plastic concrete ready-mix to MDCI's pump for shaft placement.

PRIEST RAPIDS RIGHT EMBANKMENT COMPLETION

After years of planning and additional years of dedication, challenging scope, and inspiring teamwork, all major construction at the Priest Rapids Dam was completed in September! Large-scale demobilization of the concrete plant and support equipment was immediately tackled following completion. The site restoration is nearing completion, with final touches expected any day, including fencing, dam instrumentation, and plantings. The last IMCO crew on site is working to finish the bridge railing on the new structure, one of the last work items, to be completed by mid-November.

“Thank you, to the entire crew at Priest Rapids! It is exciting to see this project rapidly drawing to a close. This project was a great accomplishment and a huge success. We are proud of what we have built for our client and of the way our team handled complex challenges,” said IMCO Senior Project Manager Alik Miller.



Batching plastic concrete ready-mix from IMCO's custom-built Vince Hagen dry-mix plant.

LEWISTON WTP HONORED WITH NATIONAL DBIA AWARD OF MERIT!

The Lewiston water treatment plant retrofit project has been recognized by the DBIA with a National Award of Merit in the water/wastewater category.

IMCO's design-build team used a creative approach to construction, employed the benefits of the progressive design-build delivery method to navigate challenges caused by the pandemic, and called upon incredible teamwork between the City of Lewiston, IMCO, Stantec, owner representative Brown and Caldwell, and Control Systems Technologies.

The project will be celebrated at the November 2nd awards ceremony in Washington D.C. and is also in the running for the *Best of* and *Excellence* awards, which will be announced at the ceremony.



ROEDER LIFT STATION KICKS OF CONSTRUCTION

IMCO kicked-off construction at the Roeder Lift Station jobsite on September 25th. The project will construct a new lift station with added capacity to pump wastewater to higher elevations in route to the City of Bellingham's wastewater treatment plant.

Work began with the installation of an 80-foot-long sheet pile wall along the northern edge of the site, next to the active BNSF railway. The wall is 35-feet deep, allowing for the site to be excavated to grade, and will protect the railway during construction.

In mid-October, IMCO's ground improvement subcontractor completed work to stabilize the site by installing 64 stone columns. IMCO crews will spend the next several weeks installing a sheet pile cell that will eventually house the new lift station structure. Once the sheet pile walls are complete, crews will start construction of the new permanent concrete retaining wall, on the north side of the site, inside the temporary walls. Crews will also be potholing along Roeder Avenue, in the coming weeks, to verify locations of existing utilities and allow for installation of new lines in Roeder Avenue.



Photo of the Roeder project site near Bellingham Bay, taken by IMCO's virtual design construction department.

DOUGLAS COUNTY PUD HYDROGEN PRODUCTION AND FUELING FACILITY UNDERWAY

Douglas County PUD has contracted IMCO to build Washington State's first large-scale hydrogen production facility, which will use power from the Wells Dam facility to produce green hydrogen through an electrolysis process. This contract includes construction of a pre-cast tilt-up building, a large mechanical scope, and the installation of hydrogen producing equipment. This past quarter the project team has completed all of the underground utilities and poured concrete footings and slabs at the production, restroom, and electrical buildings.



The Douglas County PUD has purchased the hydrogen producing electrolyzers from Cummins. IMCO is also being hired by Cummins to assemble three equipment packages inside of the production building, a chilled water system, a cooling water system, and an air and nitrogen system. IMCO's team plans to install the equipment in January after the production building has been dried in.

Hydrogen can be used for power without resulting in carbon emissions when burned, producing water instead, and is considered by many to be the energy source of the future. Production of hydrogen at this new facility is scheduled to begin in June 2024, following construction.

BLISS SPILLWAY TAILRACE REMEDIATION DESIGN-BUILD

Bliss Dam is located 90 miles southeast of Boise, on the Snake River. IMCO was awarded this design-build contract to rehabilitate the dam apron and the elevated spillway in order to proactively address dam safety concerns and mitigate risks of failure. The apron structure needs to be filled and capped with new concrete to repair years of wear. Sections of concrete on the elevated spillway will also need to be demolished and replaced. An exposed bedrock surface at the end of the elevated spillway will be reinforced with a series of drilled rock anchors and an embedded concrete wall structure.

This project is logistically challenging, as it is located in the Snake River Canyon with no existing access to the work areas. All scopes of work will be supported by a large crane situated on the canyon bluff above the dam spillway or with smaller equipment placed on floating work platforms in the river. Access to the work areas will be achieved using a temporary walkway bridge and scaffolding systems down to the elevated spillway and floating work platforms. An underwater concrete formwork system will need to be installed in the river to extend the spillway apron and remediate underwater voids. Divers will assist with the steel sheet pile formwork and bracing system, interface the sheet pile with the rocky river bottom, place underwater concrete, and remove the formwork system. The work performed within the elevated spillway will also require support from the crane and drill rig equipment.

The design phase was completed in December 2022, and the project is currently undergoing federal review and permitting with FERC. Construction is expected to commence in spring 2024 and estimated to be complete the following winter.