



Claude H.
Nix Construction
Jasco Inc.

THE BEST WORK YOU WILL NEVER SEE



FAIRWAYS AND WATER HAZARDS

JORDAN VALLEY WATER RECLAMATION

Who doesn't enjoy a nice day on the golf course, right? Well how would you feel about a few days UNDER the golf course?

The Jordan Valley Water Reclamation project provided just that opportunity for the CH Nix crew.

The project required a complex tunnel system to be bored underneath the Riverbend Golf Course, in Riverton, Utah. The Jordan Valley Water Reclamation facility needed a little over 2,000 feet of 36" carrier pipeline for their South Valley Special Improvement District project, and they had some interesting challenges to deal with in order to complete the task. The bore would need to be 58" diameter in order to accommodate the steel casing.

The design dictated three separate bores, with the longest running 787 feet. Multiple launch and retrieval

excavations for the TBM would be a must. The deepest section of the tunnel would run 35' underground, in an area where water was consistently present at just 15'. This was going to be a hydro-pumping festival, to say the least.

Deep wells were punched along the edges of the bore path for multiple dewatering systems, and the burrowing effort commenced in earnest. Even with the drainage defenses, the water still proved to be a worthy adversary. Eventually, an entire pond in the vicinity of the bore path would need to be emptied just to fend off seepage. In the end, the water lost this battle, at least long enough for the crew to get the tunnel finished. 2,040 feet later, the project was completed precisely and on time. The dewatering systems were dismantled, and the H₂O was allowed to reclaim its natural place.

In addition to the exciting water challenges, this project also has the distinction of the 787' long tunnel section being one of the longest Tunnel Boring Machine (TBM) bores that CH Nix has ever completed. At least for now...

If there's one thing we've learned in over 40 years in this business, it's that there's always a way to overcome unexpected complications, whether it be water, dirt or rock. Give us a call and we'll custom-design the perfect solution for your underground challenge.

801-479-9000

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Tunnel Specifications

Diameter	Length	Grade	Ground Conditions	Method	Notes
58" Casing 36" Carrier	3 Separate Bore Paths: 510 linear feet 743 linear feet 787 linear feet	0.25%	Heavy ground water Tunnel Depth = 32' Ground Water Depth = 15'	Jack Bore with extensive dewatering	Extremely Long TBM Bore

