

Hydrovac Excavation, Daylighting, Potholing, Trenching, and Service Pits

How to avoid underground utility damage,
improve productivity and reduce cost.



EXECUTIVE SUMMARY

Traditional forms of excavation, such as excavators, backhoes, and hand tools, have been used to dig around or expose utilities for many decades. These conventional processes often resulted in underground utility damages. Today, especially in crowded urban developments, safer and less invasive equipment and methods are available by using hydrovac excavation.

An estimated 532,000 excavation-related damages to underground facilities occurred in the U.S. in 2019, a 4.5% increase compared to the 2018 estimate of 509,000 damages, per the Common Ground Alliance (CGA), a national nonprofit trade association. The study also estimated that the societal costs totaled approximately \$30 billion in the U.S. in 2019 alone.

So, why did BPG add a Hydrovac to its fleet? State-of-the-art Hydrovac excavation is a precise process that uses water and an industrial-strength vacuum. As the pressurized water softens the soil, a slurry develops that is then removed and sucked up into a debris tank by the industrial-strength vacuum, exposing buried infrastructure in a non-intrusive way.

OUR SERVICES



UNDERGROUND UTILITY MAPPING

BPG provides GPS location utility mapping services. We use GPS data collectors to determine utility location data providing customers with a permanent record of site utilities.



SUBSURFACE UTILITY ENGINEERING (SUE)

We identify underground utilities' location, depth, and characteristics as part of the design stage of constructing new infrastructure or placing new utilities. Utilizing SUE in the design stage helps eliminate project delays or redesign costs due to unforeseen utilities, avoids utility damage, and increases job site safety.

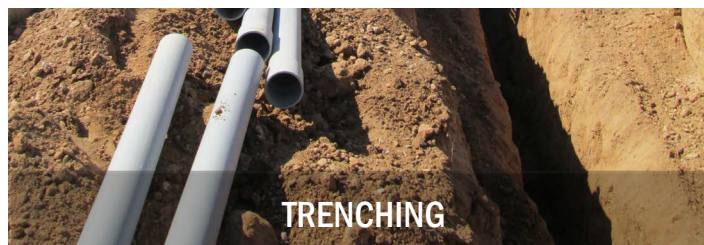
OUR SERVICES (continued)



POTHOLING / DAYLIGHTING

Hydrovac daylighting uncovers and exposes underground utilities, pipelines, and cables. Using our Hydrovac instead of hand digging or mechanical excavation reduces the risk of injury or damage to existing infrastructure. It carries a lower project cost, increases productivity, and improves project safety.

We create a test hole to expose underground infrastructure to determine the horizontal and vertical location of the buried infrastructure.



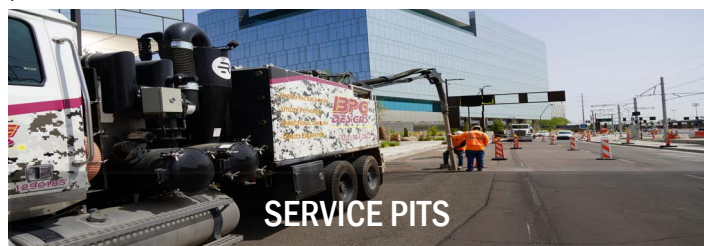
TRENCHING

Our qualified and competent Hydrovac operators can excavate narrow trenches to install fiber optic cables, conduits, pipes, or other in-ground utilities. These narrow trenches are commonly used for investigative or installation purposes.



POLE HOLES

Our Hydrovac also excavates installation holes for telecom poles, traffic signals, signs, fence posts, lights, and power poles.



SERVICE PITS

Repairs in developed urban areas do not always need manual excavation. Our skilled Hydrovac operators can excavate service repair pits, providing minimal disruption to existing infrastructure and allowing quick access to making repairs.

How Does it Work?

Hydrovac excavation is a safe, non-destructive, soft-dig alternative to conventional hard digging. This method has become the industry standard for digging precise potholes with virtually no risk of damaging utilities. Using this state-of-the-art equipment run by our qualified and competent operators improves productivity, and costs are kept down. Restoration is kept to a minimum due to the smaller excavation area.

The hydrovac system uses high-pressurized water to loosen the soil or debris. The vacuum technology then transfers the debris into the debris tank, making the need for manual removal of the debris, soil, and sediment unnecessary. Hydrovac excavation is much faster than traditional digging methods and makes clean-up and restorations much easier. With an overhead boom to maneuver the hydrovac hose, our hydrovac truck reaches hard-to-reach locations in congested urban areas, facilities, and around high-pressure pipelines. The tanks, water, vacuum, and debris tank are all contained within the Hydrovac.



MEET BPG AND THE TEAM

When you choose BPG as a partner for your project, be assured the quality of work, attention-to-detail, and overall operation maintenance from start to finish will be exceptional. The design integration, installation, and everything that comes after is unparalleled in our industry. Every service we provide is delivered with the intent to better the community we serve and make a difference in the lives of the people we work with on a daily basis.

For more information please [email us](#) or visit our [contact page](#).