

Rochester, Minnesota

VAULT REPLACEMENT

In Rochester, Minnesota, changes were being made to a street section that included the installation of a new roundabout. Incidentally, a single manhole was positioned in the center of this new roundabout section and the existing infrastructure was failing.

CHALLENGE

As the roundabout was being built, it was discovered that the vault needed to be replaced as it was undersized and additional capacity was needed.



SOLUTION

The contractor, TD&I Cable Maintenance, decided to use Oldcastle Infrastructure's precast, 3-piece, 612-7 vault. To solve the issue of the existing vault not having the needed capacity, it was decided that two new structures would get the job done. Each vault was positioned on opposite ends of the roundabout, eliminating the need for the single vault in the middle of the street.

This was the first install of this type of vault done by the contractor. In this case, the knockouts were removed, and this easily allowed for each section to be lowered directly into position. The pieces only needed to be moved horizontally a few inches to encase the existing duct bank. This allowed the contractor to position the bottom of the vault without having to over excavate the hole and without the risk of damaging live fiber cables. The process took less than two hours from the time the crane showed up, until it was back on the road.

According to Spencer Pannhoff, Director of Business Development for TD&I Cable Maintenance, "We really liked the product manufactured by Oldcastle Infrastructure and fully endorse the use of their vaults."



BENEFITS

Installing with Precast is Quick and Easy

The completion of this project is a great example of how easy precast is to use in comparison to pour in place.

Because precast vaults are delivered in pieces that can slide into place, installation typically takes as little as one to two hours to be completed. This means there is no waiting for cure time and roads can be opened the same day, saving time, money, and energy. Additionally, minimizing disruptions in the community and increasing safety for all workers involved.

Over-excavating Isn't Necessary

Without having to over-excavate the existing hole, less work must be done. There is no need to spend time opening additional space on all sides and then closing a larger work space. This makes Oldcastle Infrastructure's precast vaults very convenient to work with. Especially in tight locations where there are other utilities in the way.

No Interruption of Service

Because assembly of the vaults is completed on site, the entire installation process can be performed without interruption to the surrounding area's service. This lessens interference with local communities and reduces installation time as there is no need to have to turn electricity on or off.



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Using precast vaults allows for a quicker install that saves both time and money”

Ben Gehrts | Sales Manager