

Denver, Colorado

Denver International Airport Manhole Replacement



Custom fabricated Weholite® manholes

Opening in September of 1995, Denver International Airport (DIA) has become the tenth busiest airport in the world. When designing the sanitary sewer system for the airport, planners realized that HDPE pipe would be the right choice to carry the waste. However, when designing the manholes, they believed plastic lined reinforced concrete manholes would also be the right choice. This turned out to be wrong.

Now, less than 15 years since construction, airport and city officials discovered that their manholes were in need of replacement. Hydrogen Sulfide as well as Ethylene Glycol from the airport's de-icing system had breached the manhole's linings creating an immediate need for action. DIA identified 16 manholes in dire need and tasked Brown and Caldwell Engineering to find and design replacements.

Weholite Manholes were ultimately chosen as the best solution. The custom fabricated manhole risers are 72" in diameter with overall lengths ranging from 9' up to 35'. Each manhole was shipped in one piece eliminating the need to assemble in the field. The manholes contained one inlet and one outlet using 42" Weholite. Fiberglass ladders and intermediate landing platforms were also included. Weholite's lightweight and ease of handling allowed the contractor, Reynolds-Tierdael, to move each manhole around the site and into place with just a track hoe. Once excavation and site work was completed, each manhole was installed and ready for backfill in less than an hour.

Project:

Denver International Airport
Manhole Replacement

Owner:

Denver International Airport

Application:

Replace 16 RCP manholes with
72" Weholite manholes ranging
from 9' to 35' Also included ladders
and landing platforms

Contractor:

Reynolds-Tierdael Construction
Denver, Colorado