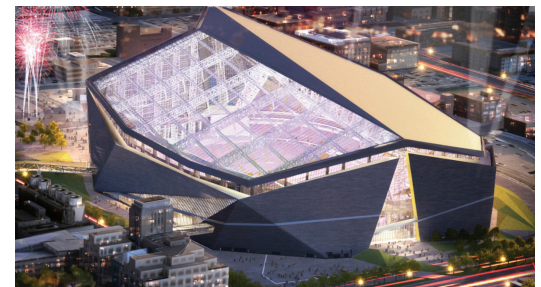




# CASE STUDY — U.S. Bank Stadium



*Sporting venues present many challenges as multiple contractors are working in the same space simultaneously. That's why pre-planning, prefabrication and computer modeling are critical to projects helping contractors to stay in front of construction schedules.*



*The Vikings NFL team played their first pre-season game at U.S. Bank Stadium in 2017 and hosted Super Bowl L11 in February 2018*

## **U.S. BANK STADIUM, HOME OF THE MINNESOTA VIKING'S \$1 BILLION PROJECT RELIED ON HUSKY COUPLINGS FOR THEIR HIGH DEMAND PLUMBING SYSTEM.**

U.S. Bank Stadium is a fixed-roof stadium in Minneapolis, Minnesota. The stadium opened in 2016 and is the home of the Minnesota Vikings NFL team. The Stadium is a one-of-a kind project. with a signature roofline is meant to evoke the bow of a traditional Viking ship according to HKS Architects. The clear, ethylene tetrafluoroethylene (ETFE) roof will be the largest of its kind in the world and will give fans the feeling of an outdoor stadium, while protecting them from Minnesota's unpredictable weather.

Harris Mechanical was the contractor employing more than 130 sheet metal workers, plumbers and pipefitters. Off-site prefabrication was employed to alleviate space issues on the build site. With BIM modeling, the contractor was able to complete more complex prefabricated plumbing assemblies. Harris Mechanical used AB&I cast iron soil pipe and fittings and Husky heavy duty couplings for their DWV plumbing systems to handle the high demands put on a plumbing system in an arena. Over 44-miles of plumbing piping was used and 2,250 plumbing fixtures.

The Stadium Authority and the Vikings worked with the architect and construction manager to make the stadium as environmentally and energy efficient as possible. The project design and construction group were committed to building a stadium that would receive Leadership in Energy and Environmental Design (LEED) certification.

