

FRP Bridge Drain Pipe Case History

Joe Montana Bridge – Pennsylvania 2009



Service

To provide scuppers, conveyance piping and downspout piping for the bridge carrying Pennsylvania Turnpike 43 south of Pittsburgh.

Features & Benefits

Two features of an all FRP Bridge Drain Pipe system that made this project an ideal fit were the range of custom colors and the lightweight nature of the product. Engineers were seeking to blend all the pipes with the bridge to maximize aesthetics of the area so two different colors were used to accomplish this goal. Downspout piping was made concrete gray to match the concrete pillars while conveyance piping was designed to be red oxide in order to match the color of the steel beams used to create the bridge deck. Secondly, because of this bridge's extreme elevation the contractor was seeking a material that would be easy to install. By using fiberglass, a product that is up to ten times lighter than steel, workers were able to decrease the risk of injury, or even fatality, when handling the materials while suspended over the side of the bridge during installation.

Pipe System

- 1,600' of 10" Concrete Gray BDP
- 780' of 10" Red Oxide BDP
- Over 80 Custom Fittings