



Case History 558

Brick Manhole Structural Enhancement and Corrosion Protection

Owner: City of Charleston
Location: 11th and Grove Street
Date: August, 1998

Brick manhole 15' deep, 4' diameter, with 30" CIPP rehabbed line and 10" dead line. Pipe joint leaking, bench severely eroded with voids. Rehabilitate and coat to low flow... unable to divert or plug lines. Hydraulic cement was used to fill large voids where mortar missing 1/2" and greater. The bench was rebuilt, voids filled and chemical grouts were injected up to 2' into the annular spaces surrounding the CIPP line where infiltration was visible. Raven 405 was applied at minimum of 125 mils providing structural enhancement and corrosion protection.

