



Case History 550

Phoenix Manhole Rehabilitation and Corrosion Protection

Owner: City of Phoenix, NV
Location: 35th Avenue and Vogel
Date: November, 1998
Contact: Ray Ryan, City of Phoenix

Structure: 11' deep, 4' diameter manhole with precast and brick walls. Bench completely deteriorated.

Corrosion: Severe

Rehabilitation and Protection: The manhole was cleaned using high pressure water cleaning at 5,000 psi, 4 gpm to remove failed portland cement and prepare brick surfaces to a clean sound substrate: 2" - 3" of severely corroded concrete was removed. After Mr. Ryan's inspection, the rough aggregate was lined with 125 mils of Raven 405 in order to evaluate the effectiveness of the coating to protect the structure. Upon completion of coating, the structure was holiday tested.

Approximately one year later Bob Webb and Karl Anderson were present for a follow-up inspection. No problems were identified with the product or process at that time.

