



## IRRIGATION CHANNELS - COOLIDGE, AZ

### PROJECT DESCRIPTION

Original specifications for this project called for # 4 bars at 12" O.C. as the crack-controlling reinforcement for these irrigation channels, however, the **three-dimensional, non-corrosive synthetic fiber option was very attractive from both cost-savings and long-term durability standpoints.** Having successfully passed preliminary user-friendly trials, 2-1/4" FORTA-FERRO<sup>®</sup> was used in over 250 feet of new V-ditch canal, involving over 500 cubic yards of fiber-reinforced concrete. In general, the channel base was 6" thick and the sidewall construction was 3", with control joints installed at 24 ft. intervals. Two concrete delivery systems were utilized during the project – pumping and conveyor systems – and several placement practices were used – hand-screed, roller-screed, and slip-form systems. **In all cases, the high 7.5 lbs. / cu. yd macro fiber dosage was compatible to the process, and provided a user-friendly and cost-effective alternative to conventional steel reinforcing.**

### KEY POINTS

- Long-term Durability
- Mixed and Pumped Easily
- Cost Effective

### DETAILS

**Date:** November 2011

**Location:** Coolidge, AZ

**Dosage:** 7.5 lbs. / cu. yd.

**Fiber:** FORTA-FERRO<sup>®</sup> 2-1/4"

**Owner Type:** Individual

**Application:** Pavement

Contact us for more details