



INTERNAL PIPE

HydraTite®

JOINT SEAL

Market

Water / Utilities

Challenge

The challenge was leaking joints in an elevated trestle pipe with deteriorated surface due to biologically influenced corrosion.

Engineered Solution

HydraTite extra wide seals utilizing an engineered fastening system for irregular shaped piping to eliminate leaks while allowing flexibility within the joint were proposed as a solution.

Scope

The project included 32 joints that required rehabilitation to prevent leaks in the elevated trestle pipe. The pipe was irregular in shape with a round bottom and square overhead.



Solution

To eliminate the leaks, the HydraTite® seal was chosen utilizing an engineered fastening system. The application required the use of the HydraTite® flat seal design, typically used in box culverts and flat surface applications, in combination with the standard HydraTite® seal for round and elliptical profiles. The deteriorated surface was repaired with hydraulic cement prior to installing the seals. Top corners of the pipe were radiused to provide an inside filler to the straight sides of the pipe. All 32 joints were installed and tested to be leak free at a fraction of the cost and time it would have taken utilizing traditional repair and replacement methods.



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