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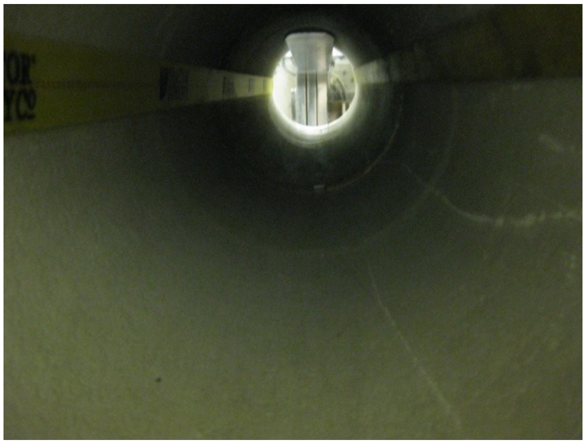
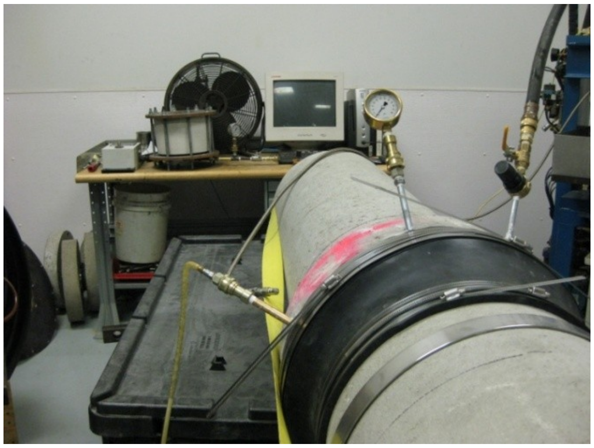
158-4G 12-18-08 ASTM C 1628-06

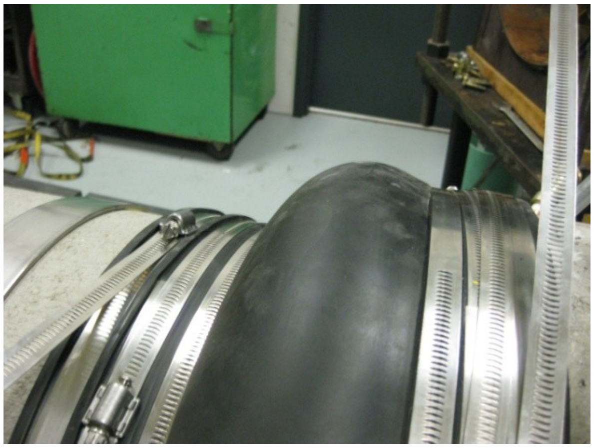
Deflection Test Rinker 12" pipe w/.326 AS & .125 AS offset

A new test was devised to simulate external pressure from ground water when a pipe joint is in a deflected position. A new piece of Rinker 8' pipe was cut in half and three holes were drilled in the bell end. Pipe fittings were secured with epoxy to attach the test hardware. A 158-4G gasket was installed on the spigot and lube was applied to the bell. A .500" shim was placed inside the bell against the back shoulder. A PSG boot was clamped to the spigot end of pipe and brought home to the bell end with two ratcheting hold down straps until contacting shim. The boot was then clamped to the bell end to create a closed external space for pressurization. City water was used to fill and pressurize test. A pressure of 10 psi was reached and maintained for 10 minutes. Ballooning of the boot was observed but there was no leakage at joint. Pressure was increased by 2 psi and held for 2 minutes until reaching 16 psi. After 2 minutes at 16 psi pressure was increased resulting in the boot coming off the bell and ending the test. At no point was leakage observed at the joint.

Testing was performed by Ron Neuhaus, Jerry Atkinson, and Scott Lockwood.








240
S M T W T F S ALARM
MIN SEC 1/100S
SPORTLINE
0
5
10
15
20
25
30
35
40
45
50
55
60
psi