

# CIPP REHAB OF SANITARY SEWERS

City of Madison Engineering Department

## CURED IN PLACE PIPE REHAB (CIPP)

Cured-In-Place-Pipe (CIPP) is a trenchless technology used to rehabilitation damaged and deteriorating sanitary and storm sewer. Since 2004 the City has used CIPP to rehab more than 68,000 linear feet of sanitary sewer at average cost of less than \$30/lf.

The CIPP process consists of inserting a resin-saturated felt tube into the damaged pipe through adjoining access structures. Hot water or steam is used to cure the resin and form a tight-fitting, jointless and corrosion resistant replacement pipe. After curing, the service lateral is reinstated with a robotic cutter.

Typically, the complete rehab of an individual section of sewer main is completed within eight (8) hours. By eliminating the need to excavate, CIPP provides a structurally sound pipe at lower cost, is completed faster, keeps traffic moving, and helps preserve above ground trees.

## CIPP REHAB CITY OF MADISON PREVIOUS YEARS

Pipe Size	CIPP REHAB YEAR					Totals
	2004	2006	2007	2008	2010	
6"	--	600	--	1,068	--	<b>1,668</b>
8"	8,126	15,400	6,895	17,500	7,402	<b>55,323</b>
10"	--	956	--	895	--	<b>1,851</b>
12"	--	650	2,758	2,956	--	<b>6,364</b>
24"	--	--	2,585	--	--	<b>2,585</b>
Lat. Grouting	92	250	129	167	114	<b>752</b>
<b>Rehab pipe</b>	<b>8,126</b>	<b>17,606</b>	<b>12,238</b>	<b>22,419</b>	<b>7,402</b>	<b>67,791</b>



CIPP Proposed Work Phase 2 - 2011	
City Streets Included In Contract	Estimated Length and Laterals
Dempsey Rd (Milwaukee-Cottage Grove) Douglas Trl (Joylynne Dr) Hoard St, 2900 Blk Portland Pkwy, 4100 – 4300 Blk Perry St, 2800 Blk Raymond Rd, 5700 Blk University Av (Segoe Rd) Woodley Ln, 5400 University Av (Bresse Ter) Hanover St (Drewry Ln)	8" - 4,099 LF 10" – 1,247 LF 12" – 57 LF  Laterals – 42  <b>Total Estimated Length: 5,403 LF</b>