

Tahoe Keys Sanitary Sewer Rehabilitation Project

Project Recap and Takeaways

Project Overview

- Overall, this Project was a success
  - Underground Repair Sewer crew was critical to this success
- On schedule and under budget
- No backups, minimal complaints
- District's first UV cured in place pipe (CIPP) project
- Future CIPP project design can be done in house
- Great solution to get ahead of deterioration curve
  - 10-year CIP has $8M for future CIPP



What is CIPP and how does it work?

CIPP is a trenchless rehab method that creates a jointless pipe within a pipe

1. Pipe is inspected/cleaned
2. A flexible fiberglass reinforced liner pre-impregnated with resin is pulled from manhole to manhole
3. Liner is capped at ends and inflated
4. UV light train is slowly pulled through, curing the resin
5. Laterals are reinstated via robot with camera/specialized cutter
6. Post lining inspection







Why CIPP?

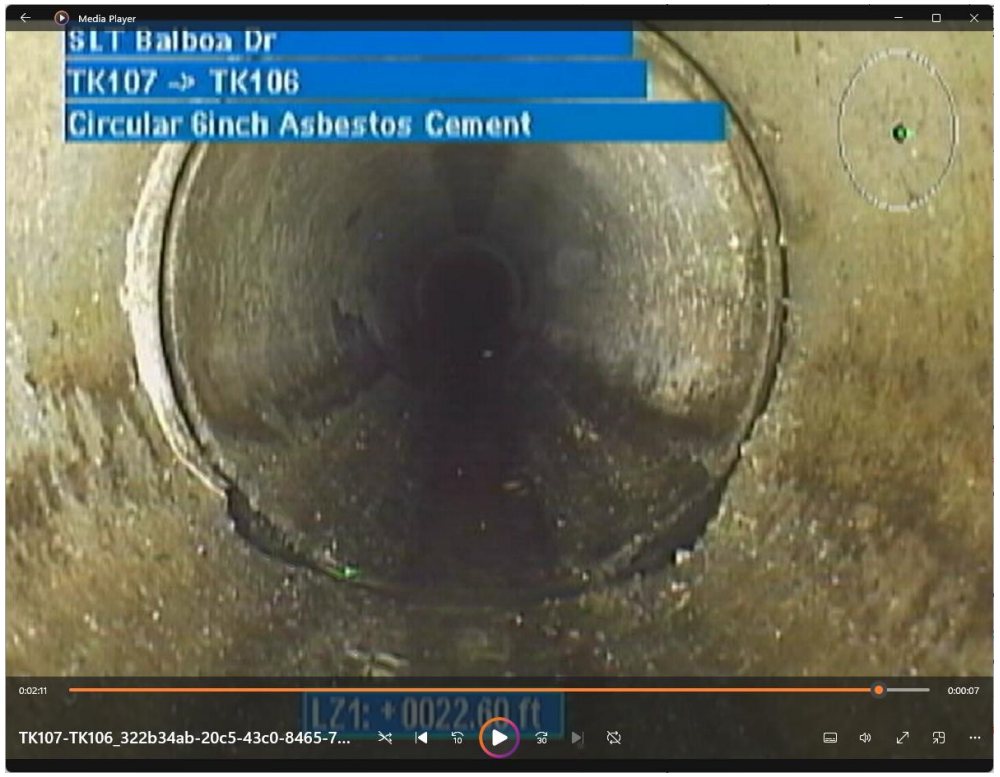
- Less expensive than sewer replacement
  - no paving or dewatering
- Less service disruption
- Effect rehab method for structural defects, roots, and I&I
- UV CIPP – less odor during curing and more effective in areas with high groundwater compared to steam cured
- 50 years of additional service life
- Less environmental impact in sensitive areas
- Improved flow capacity
- Not effective for collapsed pipes or sags





Before and After





Before and After





Before and After