### Project Challenges

- Inflow and infiltration at 25’ deep manhole and 5ea storm drain lines
- Multiple, recurring sinkholes caused by Inflow & Infiltration with 30’ radius of manhole

### Solution

- Inject URETEK polyurethane through manhole to seal
- Deep Injection Process along rim of each of the 5ea pipes at engineered locations within 30’ radius of manhole and down to 30’ depths to displace water, fill voids & stabilize soils outside of pipe.
- URETEK used in conjunction with CIPP lining

### Support

- Pre-Estimate Meeting with USACE to determine project scope
- Designed injection quantity and method to meet USACE specification
- Pre-construction meeting
- On-site installation

### Outcome

- **Minimal intrusion:** Work performed in two days with no excavation
- **Manhole Sealing:** Provided Positive Side Seal
- **Soils stabilized:** Soils stabilized to prevent future seepage and stability to soil

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