### Project Challenges

- Inflow & Infiltration into sanitary sewer system
- Pavement failure due to loss of bearing soils
- Surface depressions due to soil migrating into manhole structure
- Manhole, joint, and lateral line encapsulation and sealing

### Solution

- Inject URETEK polymer using The Deep Injection Process and pole camera monitoring system to encapsulate and seal faulted joints from inflow and infiltration from surface.
- The Deep Injection Process at 4 distinct elevations to fill voids and densify weak base soils to prevent additional pavement settlement

### Support

- Onsite meeting with Emerald Coast Utility Authority (ECUA).
- Designed injection locations, quantities and depths
- Pre-construction and Safety meeting onsite with crew
- On-site installation
- ECUA’s vacuum truck onsite to remove Polymer outcropping.

### Outcome

- **Infrastructure Restoration:** URETEK polymer compacted and void filled loose surrounding soils to rehabilitate sanitary sewer system
- **In-situ Technology:** Restored and increased soil load-bearing capacity at depth in 1 day with minimal disruption