## Project Challenges

- Active construction site in front of high traffic FedEx entrance.
- Heavy water infiltration into 2 concrete storm water inlets and connecting 42” RCP.
- Installation of Cured In Place Pipe (CIPP) by 3rd party occurred between applications of Permacast to the box inlet and the manhole inlet.

## Solution

- GWS injected high-density, high-strength polyurethane to stop water intrusion in the 2 storm water inlets and seal 2 joints in the connecting 42” RCP.
- Handsprayed Permacast PL-10,000 at 14’ deep box inlet.
- Handsprayed Permacast PL-10,000 at 14’ deep manhole.

## Support

- Jacksonville Aviation Authority (JAA)
- Baker-Klein Engineering
- Insituform Technologies

## Outcome

- **Minimal impact:** Work was performed with no excavation. The crew completed work with no interruption to airport or construction operations.
- **Quick Installation:** The project was completed in four days.
- **Result:** Permacast installation was completed to customer’s satisfaction.