

COSTCO #357 – Void Fill & Slab Lift

Jacksonville, FL



Project Challenges	Solution	Support	Outcome
<ul style="list-style-type: none"> • Appearance of circular cracking on concrete slab. Slab depressed up to 2.5". Soil boring data showed up to 3" void beneath slab. • Debris pits buried at depths ranging from 8ft to 16ft below slab. • Buried debris consisted of mostly organic materials (e.g. trees). 	<ul style="list-style-type: none"> • Inject structural polymer into debris pit to fill voids and create a stable mass 8ft to 16ft below the cash register area. • Inject structural polymer into void area, 150 cubic feet, directly below slab. Lifted slab back to grade. 	<ul style="list-style-type: none"> • Designed injection plan • Ground Penetrating Radar (GPR) to locate the voids • Pre-construction meeting • On-site installation 	<ul style="list-style-type: none"> • Problem Solved: Four day (night-time only) installation resulted in slab being lifted to customer satisfaction and debris pits being stabilized. • Mitigated Expense: prevented COSTCO from shutting down store operation, and saved them approximately \$1.5M in lost revenue.