



#### Project Profile:

## Residential Subdivision

Village of Godfrey, Illinois  
July 2008

### Challenges

The oil and chip streets in this residential subdivision were more than 30-years old and had poor drainage. Additionally, the streets had a parabolic crown—the center was very high, causing vehicles to drag when accessing driveways. The houses were close together with limited off-street parking. There also was limited access to the neighborhood with only 3 entrances and 3 dead-end streets.

The current base material was insufficient to remove and overlay without using some type of strengthening material.

### Solutions

The existing surface and base were pre-pulverized and excess materials removed with a milling machine. The base material was then strengthened with soil cement full-depth recycling. Proper grade and slope for driveway access and drainage was completed.

Phased construction allowed morning and evening access to homes and a detailed communication plan kept homeowners notified of construction phasing.

### Construction Phasing

**Phase 1:** Pre-pulverize existing roadway, grade and compact.

**Phase 2:** Remove excess materials with half-lane rotomill.

**Phase 3:** Process cement recycling in three phases as per plans.

**Phase 4:** Trim all streets to match existing curbs and establish proper slope.

**Phase 5:** Overlay entire project with 3 inches of hot mix asphalt (overlay work performed by Charles Mahoney).

### Results

- Work completed in 15 working days (including overlay).
- Homeowners given access to driveways each night.
- 40 percent cost savings over complete removal and replacement.
- Excellent cross sections established.
- Proper draining restored.