

1996 NOVA AWARD WINNER**The “Paradigm—“ In-Place Concrete Recycling System**

Paradigm is a mobile, portland cement concrete recycling system for highway reconstruction. Where highway reconstruction calls for the use of recycled concrete to be crushed and placed as subbase, current practice requires demolition of existing concrete, hauling the broken concrete offsite for crushing, and again hauling the crushed material back to the construction site for placement. The Paradigm system combines these steps into a continuous operation. A specialized machine train breaks the existing slab, removes reinforcing steel, grades the road base, crushes and sizes the concrete, and stockpiles the new base material onto the prepared subgrade, ready for compaction. Productivity in service for the Iowa Department of Transportation averaged 2000 ft/day with all gradation specifications satisfied.

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