

# COLD IN-PLACE RECYCLING (CIR)

Rehabilitate your roads with cold in-place recycling technology, where the asphalt plant and quarry are brought to the job site and the reclaiming and recycling of the RAP material is performed in-place, lowering the construction carbon footprint compared with traditional forms of road rehabilitation.

## ATTRIBUTES

- Eliminates defects within the recycling depth
- Blocks or slows reflective cracking
- Reuses existing material in place
- Replaces 1 or 2 lifts of hot mix
- Allows for road widening where desired

-  20%-50% less expensive than conventional maintenance and reconstruction methods
-  Reduces greenhouse emissions by up to 90%
-  Reuses 100% of existing materials
-  20%-40% faster construction times
-  Adds 15-20 years (combined with appropriate wearing course)
-  Most agencies use Structural Layer (a) Coefficients between 0.30-0.38 (recent research indicates values from 0-.36-0.44 may be more appropriate)

## ISSUES ADDRESSED

- Frequent, severe, non-load distresses in top lift or hot mix
- All distresses within the recycling depth (2-5 inches)
- Reflective cracking from below CIR layer

## COMMON COMBINATIONS

- CIR + hot mix overlay (most common)
- CIR + Single or Double Chip Seal
- CIR + Micro or Slurry Surfacing
- CIR + CCPR to increase treatment depth



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