



CURRENT AND PLANNED PRACTICES FOR THE USE OF RUBBERIZED AND RECYCLED ASPHALT

Public Works Department

Transportation Board
FEBRUARY 7, 2018

RiversideCA.gov

CALRECYCLE

1. The California Department of Resources Recycling and Recovery (CalRecycle) provides the Rubberized Pavement Grant Program (Grant) to Public Entities.
2. The Grant promotes markets for recycled-content surfacing products derived from waste tires in California and decreases the adverse environmental impacts created by unlawful disposal and stockpiling of waste tires.



2

RiversideCA.gov

GRANTS

1. City of Riverside (City) utilizes both types of projects provided by the Grant; Rubberized Asphalt Concrete (RAC) and Stress Absorbing Membrane (Chip Seal).
2. Since 2003, the City has been awarded with \$870,425 in grants from CalRecycle.



3

RiversideCA.gov

RAC TREATMENT

1. RAC – Ideal for overlaying high volume roads, typically Arterial streets.
 - A. Cost-Effective – Increased longevity and durability.
 - B. Noise Reduction – Twice as effective at reducing road noises versus conventional pavement overlays.
 - C. Reduces Landfill Disposal – A two-inch thick resurfacing project uses up to 2,000 scrap tires per lane mile.



4

RiversideCA.gov

CHIP SEAL TREATMENT

1. Chip Seal – Ideal for preservation of existing road way or as an interlayer in conjunction with conventional or RAC overlay.
 - A. Cost-Effective – Provides additional resistance to reflective cracking and rejuvenate the existing asphalt.
 - B. Reduces Landfill Disposal – A chip seal project uses up to 600 scrap tires per lane mile.

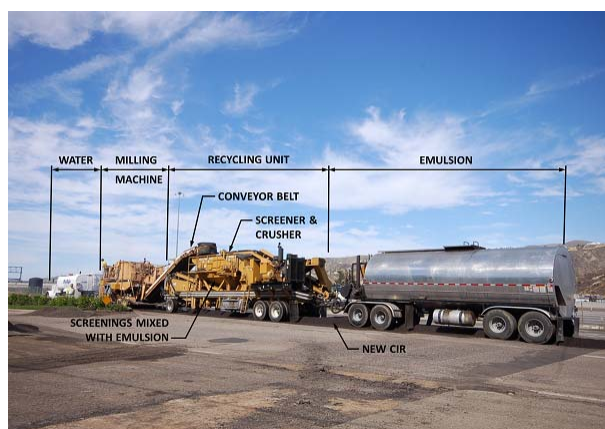


5

RiversideCA.gov

COLD IN-PLACE RECYCLING (CIR)

1. CIR – Ideal for rehabilitating wide range of pavement distresses and failures at a reduced construction traffic impact.



6



RiversideCA.gov

PROS AND CONS

1. CIR – Pros

- A. Cost Effective – Compare to Conventional Pavement
- B. Green Process – Restores and reuses the existing material while reducing amount of outside materials required to be hauled to the site.

2. CIR – Cons

- A. Limited suitable sites – Requires adequate existing pavement depth/strength and long/relatively straight stretch of streets to be effective.



7

RiversideCA.gov