Item 19

Geometric Design Practices for Resurfacing, Restoration, and Rehabilitation : A Synthesis of Highway Practice

TRANSPORTATION RESEARCH BOARD (TRB)
NCHRP Synthesis 417 • 2011

Each state transportation agency has its own design guidance and standards for nonfreeway resurfacing, restoration, and rehabilitation (3R) projects. These include enhancements to improve highway safety. The purpose of this study was to gather and synthesize current state practices related to 3R projects. Information was acquired through a literature review and a survey of all state transportation agencies. Documents that provide state 3R policies were obtained either from state websites or directly from the states.

This report is available for free download (6.6 MB):
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_417.pdf

Item 20

Operational and Institutional Agreements That Facilitate Regional Traffic Signal Operations : A Synthesis of Highway Practice

TRANSPORTATION RESEARCH BOARD (TRB)
NCHRP Synthesis 420 • 2011

Regional Traffic Signal Operations Programs (RTSOPs) are a tool that regions can use to improve traffic flow as it crosses from one jurisdiction to another. One central focus of these programs is coordination of signal timing on multi-jurisdictional arterials. Another benefit is the creation of a central forum for consideration of other traffic operations measures to improve regional mobility. Although many RTSOPs have been established through regional metropolitan planning organizations, successful RTSOPs have been established by other organizations, including state and local departments of transportation, and government corporations. Information for this study was gathered through a literature review, a survey of RTSOPs, and selected interviews.

This report is available for free download (65.2 MB):
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_420.pdf

Item 21

Recycling and Reclamation of Asphalt Pavements Using In-Place Methods : A Synthesis of Highway Practice

TRANSPORTATION RESEARCH BOARD (TRB)
NCHRP Synthesis 421 • 2011

In-place recycling and reclamation of asphalt pavements provides agencies with the ability to optimize the value of in-place materials, minimize construction time and traffic flow disruptions, and reduce the number of construction vehicles moving in and out of the construction area. This report discusses the use of hot in-place recycling, cold in-place recycling, and full-depth reclamation. Information for this report was gathered by literature review, a survey of state departments of transportation and contractors, and selected interviews.

This report is available for free download (4.9 MB):
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_421.pdf