

Concrete Pavement Preservation Manual Update



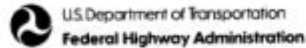
**Asheville, North Carolina
Sept 23, 2103**

CONCRETE PAVEMENT PRESERVATION WORKSHOP

FHWA Publication No. FHWA-HIF-XX-XXX (to be assigned by FHWA)

February 2008

Draft Reference Manual

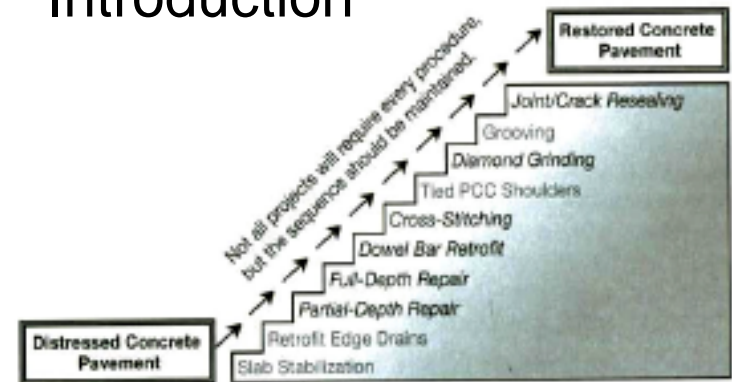


Prepared for
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Current 2008 Concrete Pavement Preservation Manual

- Contains 10 Chapters on Preservation Techniques plus Introduction



- 10 Training Modules and Instructor Guide
- Held Numerous Workshop for State DOTs

Concrete Pavement Preservation Manual

- Project Started April 2013
 - Complete Update 2013
 - Complete Training Materials Spring 2014
1. Introduction
 2. Preservation concepts
 3. Pavement evaluation techniques
 4. Slab stabilization and slab jacking
 5. Partial-depth repairs
 6. Full-depth repairs
 7. Retrofitted edge drains
 8. Load transfer restoration
 9. Diamond grinding and grooving
 10. Joint /crack sealing
 11. Overlays
 12. Strategy Session

**Aggressive schedule
(bi weekly chapter
deliveries and
conference calls)**



Preservation Committee

Name	Agency
Gina Ahlstrom	FHWA
Thomas Van	FHWA
John Roberts	IGGA
Larry Scofield	IGGA/ACPA
Vince Perez	CTS Cement
Wouter Gulden	Retired GA DOT & ACPA-S
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Kevin Merryman	Iowa DOT
Craig Hennings	Southwest Concrete Pmnt ssc
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Chapter 1: Introduction

Changes:

- Purpose and Objectives
- Describes Updates and Revisions



Chapter 2: Preventive Maintenance and Pavement Preservation Concepts

New Additions:

- Pavement Management Importance
- Trigger Values in Identifying Candidate Pavements
- Incorporation of Recent Research (e.g., SHRP R26)



Chapter 3: Concrete Pavement Evaluation

New Additions:

- Information on Joint Distress Study
- Update on Evaluation Tools-GPR, MIT Scan, MIRA, etc.
- Noise Considerations
- Inclusion of FHWA - ASR Initiatives



Chapter 4: Slab Stabilization and Slab Jacking

New Additions:

- Updated Information on GPR
- Additional Information on Polyurethane Materials



Chapter 5: Partial Depth Repairs

New Additions:

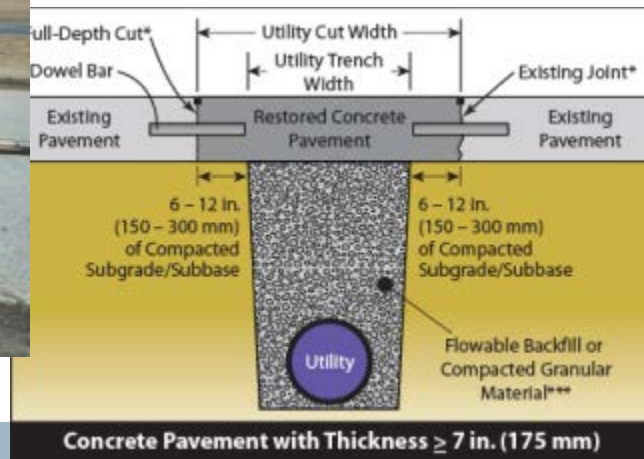
- Incorporate New PDR Techniques
–(2012CP Center Guide)
- Update on PDR Materials (resins)



Chapter 6: Full Depth Repairs

New Additions:

- Precast Repairs
- Utility Cuts
- CRCP Guidelines



Chapter 7: Retrofitted Edge Drains

New Additions:

- Streamlining of Information
- Importance of Maintenance



Chapter 8: Load transfer Restoration

New Additions:

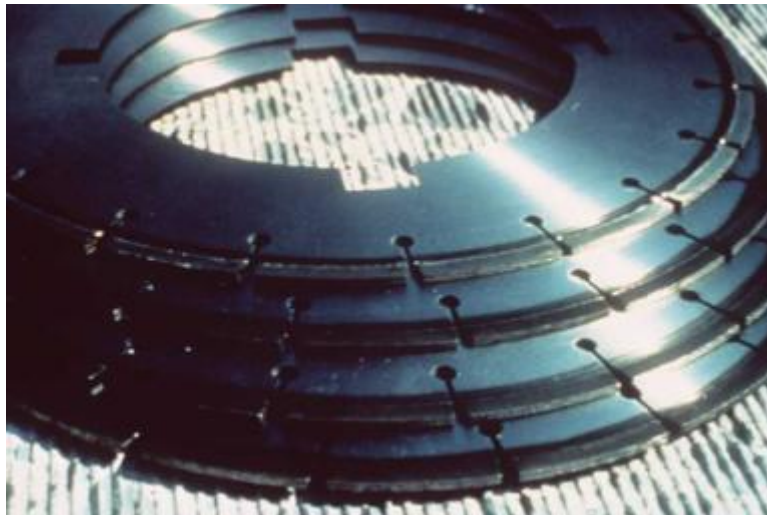
- Update Long term Performance of DBR
- Update Cross Stitching and Slot Stitching



Chapter 9: Diamond Grinding and Grooving

New Additions:

- New Information on Slurry Management
- Update on Equipment Capabilities
- Introduce Next Generation Concrete Surface



Chapter 10: Joint Resealing and Crack Sealing

New Additions:

- General Chapter Update
- Improve Troubleshooting



Chapter 11: Concrete Overlays

New Additions:

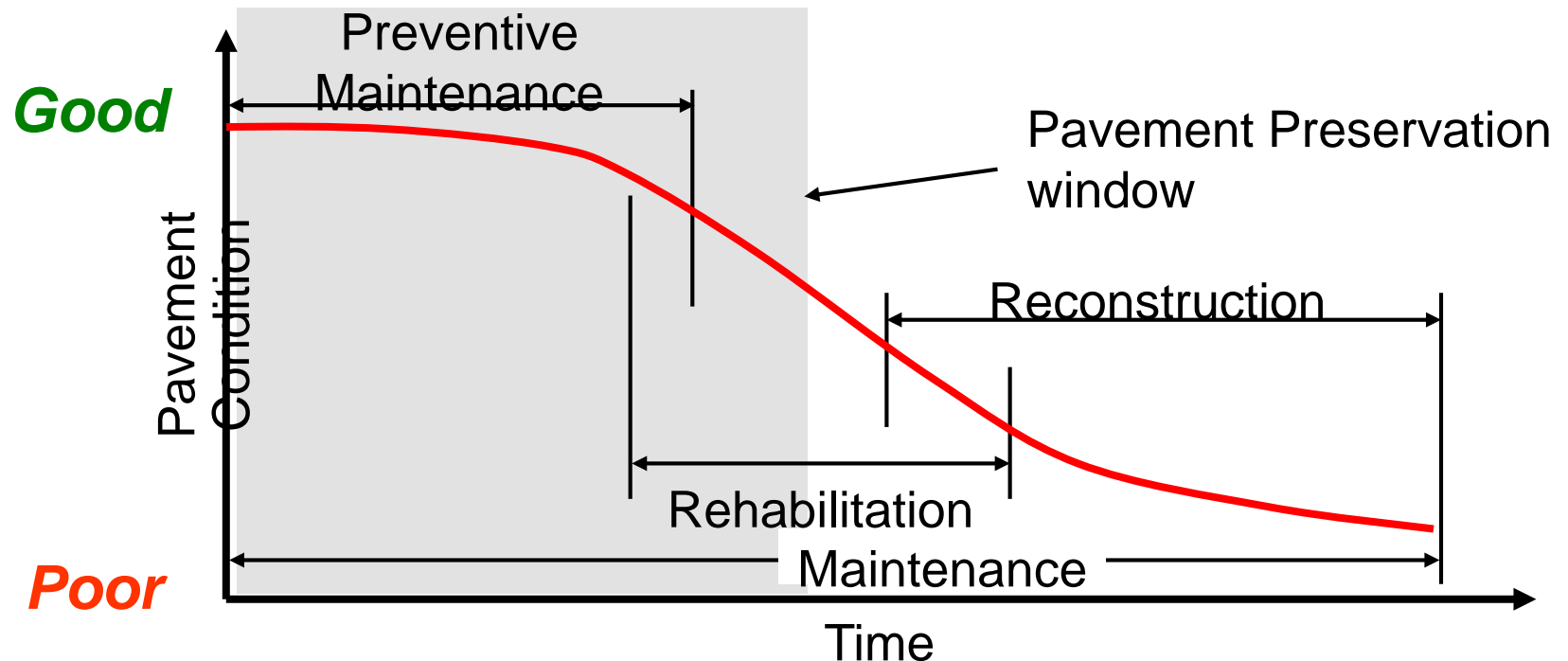
- New Chapter
- Information from 2013 Overlay Guide Update
- Lessons Learned From Projects (2008 to 2012)



Chapter 12: Strategy Selection

New Additions:

- Sustainability Considerations
- How key Concepts Enter into Selection
- Update Selection Process and Treatment



THANK YOU!

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