Interstate Maintenance Preservation Program (IMPP)

Emily McGraw, PE
State Bridge Management Unit - NCDOT

NCDOT Live Meeting
October 28, 2010
Outline

- NCDOT/FHWA Agreement
- Eligible Activities
- Division Allocations
- Environmental Compliance
- Systematic Selection Criteria
- Pavement Example
- Other Training
Agreement Background

- Opportunity to do Preservation on Interstate System
- Develop long term plan for managing our Interstates
- Multi-year “strategic” program
- Allows NCDOT to administer program without contract specific FHWA approval
Agreement Requirements

- Eligible Activity
- Meet Requirements of Federal–Aid
- NCDOT must use Systematic Process
- Requires ROW certification
- Requires PS&E’s
- Authorized by FHWA
- No Force Account Work
- Preference for Corridor-based projects
- Inspection, certification and documentation
- Needed Safety Upgrades Reported
<table>
<thead>
<tr>
<th>Eligible Bridge Activities</th>
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<tbody>
<tr>
<td>● Deck Joints</td>
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<tr>
<td>● Painting of structural steel (complete, spot and zone)</td>
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<tr>
<td>● Deck Preservation (concrete &amp; epoxy overlays, sealers and chloride extractors)</td>
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<tr>
<td>● Deck washing</td>
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<tr>
<td>● Superstructure Preservation (structural steel repairs, concrete girder and diaphragm repairs; bearings)</td>
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<tr>
<td>● Substructure Preservation (Bent/End Bent repairs and cleaning)</td>
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<tr>
<td>● Scour Countermeasures</td>
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Eligible Flexible Pavement Activities

- Crack Sealing
- Milling/Replacing one lift of HMA (one lane)
- Micro Milling
- Seals on Flexible Shoulders (chip, fog and slurry)
- OGFC or UTBWC on Flexible Pavement
- Microsurfacing
Eligible Rigid Pavement Activities

- Clean and reseal concrete joints
- Repair expansion joints
- Diamond grinding
- Grooving
- Dowel bar retrofit
- Stitching of broken slabs
- Slab Jacking (including approach slabs)
- Microsurfacing
- Punchout repair of CRC on programmatic basis
- UTBWC
Eligible Roadside Feature Activities

Drainage
- Replace/Repair Paved Lateral Ditches
- Line/Repair Crossline Pipes
- Inlet Repair/Retrofit
- Shoulder Drains

Traffic
- Pavement Markings
- Pavement Markers
- Signs
- Guardrail
- Lighting
- Attenuators
Division Allocations

Allocation based on:
- 75% Lane Mile
- 25% Square Foot Bridge Deck

2010 TIP
- $10 Million

*Coordinate with TIP to ensure projects are not programmed by central units
## Division Allocations

<table>
<thead>
<tr>
<th>Division</th>
<th>Allocation</th>
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Environmental Compliance: Analysis

- Clean Water Act
- Coastal Zone Management Act
- Endangered Species Act
  (Bridge & Roadside Features Activities)
- Executive Order 11990 Protection of Wetlands
- Fish & Wildlife Coordination Act
- Marine Mammal Protection Act
  (Bridge Activities)
- Section 106 of the National Historic Preservation Act
Selection Procedure

- Divisions select candidate projects based on eligible activities and supporting data (Systematic Selection)

- Evaluation of field conditions are made to supplement condition information

- Projects are let to contract based on requirements and available funding.
Systematic Selection

- “Thought Out” and Documented Process
- Developed Bridge Tool
- Developed Pavement Tool

Tools demonstrate Systematic Selection Process

Tools provide guidance, not final decisions
Systematic Selection: Bridge

4 Worksheets with Supporting Documentation
Deck Activities
Superstructure Activities
Substructure Activities
Miscellaneous Activities (Deck Washing)
Systematic Selection: Bridge

- Aids in Selecting Type of Activity
- Compares “like” Activities

Theory:
The Higher the Points, the Better the Candidate
Systematic Selection: Pavement
Items Covered
- Contract Administration
- Federal Requirements from local FHWA representatives
- Pavement and Bridge systematic selection criteria tools

Recommended Participants (6-8 slots per Division)
- Division Maintenance Engineers
- Division Construction Engineers
- Division Operations Engineers
- Division Bridge Program Managers
- Division Project Managers
- Division Design Construction Engineers (DDC)
- Others?
IMPP Regional Training

- Tuesday, November 9th (Div. 4 Conference Room) 9am
  Divisions 1, 3, 4 & 6
- Wednesday, November 10th (Div. 9 Conference Room) 9am
  Divisions 5, 7, 8, 9 & 10
- Thursday, November 18th (McDowell Comm. College) 9am
  Building 19, Room 111
  Divisions 11, 12, 13 & 14
Questions???

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