



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

January 11, 2005

SUBJECT: FAS 78 (Shannon Route)
Project SR-78(107)
Section 02-00079-00-RS
Carroll County
Contract No. 85347
Item 41
January 21, 2005 Letting
Addendum (A)

TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

Proposal – Page 6, revised Asphalt Emulsion special provision.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal. Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Since the proposal sheets are displayed back to back, bidders are cautioned to exercise care when inserting revised and/or added special provisions into their proposals.

Please call 217-782-7806 if any of the above-described material is not included in this transmittal.

Very truly yours,

Michael L. Hine
Engineer of Design and Environment

A handwritten signature in cursive script, reading "Ted B. Walschleger" followed by the initials "AE".

By: Ted B. Walschleger
Engineer of Project Development
and Implementation

**GUIDELINES FOR
ASPHALT EMULSION FULL DEPTH RECLAMATION (FDR)
and GRANULAR BASE STABILIZATION (GBS)**

1. Description

Asphalt emulsion full depth reclamation (FDR) and granular base stabilization (GBS) consists of reclaiming the existing road with a reclaimer to obtain the width and depth specified in the plans. Asphalt emulsion will be added to the blend of materials; water will be added as needed. The material will be spread and compacted, resulting in a finished bituminous base in accordance with the plans and these specifications. This specification applies to a road that has had a site selection and material evaluation performed by the Agency or its representative.

2. Materials

- 2.1 Asphalt Emulsion - The properties of the asphalt emulsion to be used shall be determined by the mix design in order to meet the requirements in Table 1.
- 2.2 Aggregate - The amount and type of added aggregate or recycled asphalt pavement ("add rock"), if any, will be determined by the mix design in order to meet the requirements in Table 1.
- 2.3 Reclaimed Material - A mix design is required before the start of the project. Refer to Appendix 1. The reclaimed material at the recommended emulsion content shall meet the properties in Table 1. Based on road variability, more than one design may be required. The properties and quantity of asphalt emulsion, add rock, and water shall be determined by the mix design. The Contractor shall submit the mix design to the Engineer for approval prior to the start of the project.

Revised
1-11-05 *

<i>Table 1(FDR) - For mixtures containing >50 percent Recycled Asphalt Pavement (RAP)</i>	
150 mm diameter specimens shall be prepared in a Superpave gyratory compactor	
Property	Criteria
Superpave gyratory compaction, 1.25° angle, 600 kPa, gyrations	30
Short-term strength test - modified cohesiometer, ASTM D 1560-92 (Part 13), g/25mm of width (see Appendix 1 for modifications)	200 min.
Indirect tensile strength (ITS), ASTM D 4867 Part 8.11.1, 25°C, psi	45 min.
Conditioned ITS, ASTM D 4867 (see Note 1), psi	25 min.
Resilient modulus, ASTM D 4123, 25°C, psi	160,000 min.
Thermal cracking (IDT), AASHTO TP 9-96 (Based on LTPPBind for climate)	See note in appendix

* Revised
1-11-05

Revised
1-11-05 *

<i>Table 1(GBS) - For mixtures containing 50 percent or less Recycled Asphalt Pavement (RAP) or for all granular mixtures</i>	
150 mm diameter specimens shall be prepared in a Superpave gyratory compactor	
Property	Criteria
Superpave gyratory compaction, 1.25° angle, 600 kPa, gyrations	30
Short-term strength test - modified cohesiometer, ASTM D 1560-92 (Part 13), g/25mm of width (see Appendix 1 for modifications)	150 min.
Indirect tensile strength (ITS), ASTM D 4867 Part 8.11.1, 25°C, psi	40 min.
Conditioned ITS, ASTM D 4867 (see Note 1), psi	20 min.
Resilient modulus, ASTM D 4123, 25°C, psi	150,000 min.
Thermal cracking (IDT), AASHTO TP 9-96 (Based on LTPPBind for climate)	See note in appendix