

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: January 01, 2005

SUBJECT: BITUMINOUS FOG SEAL

The MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby supplemented as follows: Delete Section S-412 - Blank at the bottom of page 4-70 and add the following:

SECTION 901-S-412 – BITUMINOUS FOG SEAL

901-S-412.01--Description. This work consists of a Fog Seal coat composed of a mixture of Asphaltic Emulsion (CSS-1 or CSS-1h) and water properly proportioned and spread on the roadway surface in reasonably close conformity with the rate of application shown on the plans or as directed by the Engineer.

901-S-412.02--Materials. Asphalt Emulsion designated CSS-1 or CSS-1h conforming to the applicable requirements of S-702 or AASHTO Designation M-208, water from a potable source, sand or other appropriate blotter material.

901-S-412.03--Dilution Procedure. Prior to application the asphalt emulsion shall be diluted with water. The order of addition shall be asphalt emulsion followed by an equal portion of water. The resulting dilution shall be mixed mechanically using caution not to over agitate causing excessive foaming or breaking of the emulsion. Diluted material should be applied the same day and not stored for later use. Dilution shall be 50% CSS-1 or CSS-1h and 50% water.

901-S-412.04--Construction Requirements. The diluted material shall be applied through a conventional asphalt distributor capable of applying a consistent rate of material across the intended surface. The application rate shall be between 0.08 and 0.18 gallon/yd² as directed by the Engineer. A test section may be required, as directed by the Engineer, when determining the appropriate application rate. The diluted material shall be applied at a temperature of not less than 80° F nor more than 150° F. The asphalt Fog Seal shall only be applied at ambient temperatures greater than 40° F.

901-S-412.05--Traffic Control. The contractor shall maintain traffic so as to keep all vehicles off the application until a sufficient cure has been achieved or as directed by the Engineer so that no tracking or discoloring of the material occurs. Normal cure time is 45 minutes to 1.5 hours. Sand or other blotter material shall be applied at the discretion of the Engineer on areas of over application or spillage.

901-S-412.06-- Method of Measurement. Bituminous Fog Seal will be measured by the gallon of diluted material applied.

901-S-412.07--Basis of Payment. The accepted quantities of Bituminous Fog Seal will be paid for at the contract price per gallon. The prices thus paid will be full compensation for completing the work.

Payment will be made under:

901-S-412: Fog Seal Mixture - per gallon