



**SPECIAL PROVISIONS
FOR
OTTA SEAL CONSTRUCTION**

**Jasper County
FLAP-C050(133)--6L-50**

**Effective Date
April 15, 2025**

THE STANDARD SPECIFICATIONS, SERIES 2023, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

Make the following revisions to Section 2307 of the Standard Specifications:

2307.02 MATERIALS.

Replace the Article:

Use materials meeting the following requirements:

A. Aggregates.

Use locally available aggregate meeting the gradation for Class A Crushed Stone, per Article 4109.02-1, Gradation No. 11 of the Aggregate Gradation Table. ~~Aggregate shall meet the following gradation:~~

Table 2307.02-1: Aggregate Gradation

Sieve Size	Percent Passing
3/4"	100%
1/2"	70-95%
3/8"	45-75%
#4	20-40%
#8	5-20%
#16	0-15%
#30	0-10%
#50	0-5%
#100	0-3%
#200	0-2%

B. Bituminous Material.

Provide HFMS-2s Asphalt Emulsion meeting the requirements of Section 4140 of the Standard Specifications.

C. Water.

Potable water shall be in compliance with Section 4102 of the Standard Specifications. Water for Otta seal construction shall be considered incidental and shall not be measured for payment.

2307.03, B, 2, a.

Replace Table 2307.03-1:

**Table 2307.03-1: Bituminous Material
Temperatures**

Designation	Temperature °F*
HFM-2S	120-185
* Some temperatures listed may be above the flash point of the material. Use extreme caution when handling to reduce fire hazard.	

2307.03, A, 5, Rollers.

Replace the Article:

Provide a minimum of three 12 ton gross weight pneumatic-tired rollers. The roller tire sizes, ratings, and pressures must comply with the manufacturer's recommendations. The tire pressure must be the same on all tires and the tire surface must be smooth.

2307.03, B, 5, Rolling.

Replace the Article:

- a. After the aggregate has been spread, promptly roll each lane with a minimum of 30 passes.
- b. Operate rollers at a speed of no more than 3 mph.

2307.03, B, 6, One Course Seal Coats.

Replace the title and Article:

6. One Course Otta Seal Coat Construction.

In addition to requirements of Articles 2307.03, B, 4 and 5, apply the following:

- a. **Spreading Binder Bitumen.**
Apply HFMS-2s binder at a target rate of 0.5 +/- 0.05 gallons per square yard. Binder rates may be adjusted by the Engineer based on field conditions.
- b. **Spreading Cover Aggregates.**
 - 1) Uniformly spread cover aggregate of the size specified, over the treated area promptly after the spread of bitumen has been completed on any section.
 - 2) Unless otherwise specified, use a target rate of ~~50~~ 70 pounds per square yard for all applications.
 - 3) When bituminous seal coat is placed on two lanes, spread the aggregate with a 2 inch to 4 inch overlap of the lanes to prevent longitudinal cracking.

2307.03, B, 7, Two Course Seal Coats.

Replace the title and Article:

7. Two Course Otta Seal Construction.

In addition to requirements of Articles 2307.03, B, 4 and 5, apply the following:

- a. **First Course Construction.**

- 1) **Spreading Binder Bitumen.**
Apply bitumen to the prepared base of surface at the rate shown in Table 2307.03-2 for MC-3000 or 0.5 +/- 0.05 gallons per square yard for HFMS-2s.
 - 2) **Spreading Cover Aggregate.**
 - a) Uniformly spread cover aggregate of the size specified over the treated area at the rate listed in the contract documents or ~~50~~ 70 pounds per square yard promptly after spreading bitumen on any section.
 - b) When bituminous seal coat is placed in each lane separately, spread the aggregate with a 2 inch to 4 inch overlap of the lanes to prevent longitudinal cracking.
 - c) When the full width is surfaced integrally, spread the aggregate to a width such that the junction of the two aggregate spreads is offset 12 inches from the center of the full width surface.
- b. Second Course Construction.**
- 1) **Preparation of Roadbed.**
 - a) Eight to 10 days after completing the first course for HFMS-2s or 21 to 30 days after completing the first course with MC-3000, prepare roadbed for the second course by either:
 - A vacuum machine, or
 - By lightly brooming the full surfaced width with the power broom to remove loose material.
 - b) Complete the preparation of the roadbed in sections just prior to application of bitumen for the second course.
 - 2) **Spreading Binder Bitumen.**
Apply bitumen to the prepared base of surface at the rate of 0.3 +/- 0.05 gallons per square yard for HFMS-2s.
 - 3) **Spreading Cover Aggregate.**
 - a) Spread cover aggregate of the size specified over the treated area at the rate target rate of ~~50~~ 70 pounds per square yard promptly after spreading bitumen.
 - b) When bituminous seal coat is placed in each lane separately, spread the aggregate with a 2 inch to 4 inch overlap of the lanes to prevent longitudinal cracking.