## State of Illinois Department Of Transportation

## CONSTRUCTION INSPECTOR'S CHECKLIST FOR HOT- MIX ASPHALT (HMA) PAVEMENT (FULL DEPTH)

While its use is not required, this checklist has been prepared to provide the field inspector a summary of easy-to-read, step-by-step requirements relative to the proper construction of Hot-Mix Asphalt Pavement (Full Depth). The following questions are based on and referenced to information found in the Standard Specifications, Construction Manual, and current policy memorandums and letters.

		you reviewed the contract Special Provisions, Supplemental ications and Plans?	
1.	GENE	<u>RAL</u>	
	Is the HMA Pavement (Full-Depth) being constructed according to the applicable portions of Section 406 of the Standard Specifications? Revenue the applicable requirements in the Construction Inspector's Checklist for Binder and Surface Course.		
2.	SUBGRADE		
	Is the subgrade prepared according to Section 301 of the Standard Specifications except Articles 301.05 and 301.06 will not apply? (Art. 407.05)		
	If a lime modified soil layer is specified, is it constructed in accordance with Section 302 of the Standard Specifications?		
	a.	The lime-modified soil layer shall be compacted to not less than 95% of the standard dry density. The in place density of the completed subgrade will be tested at least every 1500 ft (450 m).	
	b.	The surface of the lime-modified soil shall be brought to true shape and correct elevation according to Article 301.07.	
	C.	Trimmings from the lime treated subgrade shall be removed prior to placement of the binder course. (Art. 407.06)	
3.	PLAC	<u>EMENT</u>	
	Is the HMA binder and surface courses placed according to Article 406.06 and the following?		
		ompacted thickness of the initial lift of binder course shall be 4 inches nm) thick.	

	ceeding binder lifts shall be the mir no more than 4 inches (100 mm) th		ticle 406.06(d)	
be in	The compacted lift thickness of the layers of binder excluding the top lift may be increased to 6 inches (150 mm) if a vibratory roller is used for breakdown, and the required density is obtained.			
Long	gitudinal joints shall be constructed	I in accordance with Ar	ticle 406.06(g).	
Each place	n lift of compacted HMA mixture shed.	nall be clean when the	next lift is	
	ht fog of prime coat shall be applie ne Engineer.	ed between lifts of HMA	A, when directed	
a.	The application rate shall be 0.0	02 gal./square yard (0.	1 L/m²)	
HAU	ILING ON PARTIALLY COMPLET	ΓED PAVEMENT		
	ninous mixture to the paver, excep nents will be permitted according t			
	Loau		Hauling Traffic	
Total	al Lift Thickness in (mm)	, ,		
	al Lift Thickness in (mm)	Below 85°F (30°C)	85°F (30°C) & above	
	inches (100-180 mm)*	Unloaded	None	
	.5 inches (180-240 mm)*	Legally Loaded	Unloaded	
Gre	eater than 9.5 inches (240 mm)**	Legally Loaded	Legally Loaded	
** W A tra	th the last lift having cooled a mining the last lift having cooled a minum offic pattern shall be established the city behind the other.	imum of 12 hours.	of vehicles one	
Cros	sovers shall be used to transfer ha	aul trucks between roa	dways	
a.	Spaced not less than 1000 ft (3	00 m) apart.		
b.	Constructed of a material that p completed HMA layers.	prevents tracking dust o	or mud on the	
C	Constructed maintained and re	emoved at the contract	or's expense	

6.

5. PIP	E UNDE	<b>RDRAINS</b>
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Placement of underdrains, when specified, should be in accordance with Section 601 of the Standard Specifications and Standard 601001.		
Construction of underdrains shall not be started until at least 9.5 in (240 mm) of bituminous concrete binder is placed. (Art. 407.07)		
Material excavated from the underdrain trench shall not be deposited or windrowed on any portion of the full-depth pavement. (Art. 407.07)		
SURFACE TESTS		
The finished surface of the pavement shall be tested using a California Profilograph or a 16 ft (5 m) straightedge. (Art. 407.09)		
16 ft (5 m) straightedge will be used on the following pavement surfaces:		
a. Locations listed in the following Table shall be tested in the wheel		

Location	Tolerance
Ramps, Loops and Climbing Lanes	<sup>1</sup> / <sub>4</sub> in (6 mm)
Mainline Gaps ≤ 0.1 mile (160 m)	<sup>1</sup> / <sub>4</sub> in (6 mm)
Bridge Approaches	<sup>1</sup> / <sub>4</sub> in (6 mm)
Side Roads & Side Streets > 600 ft (180 m) in length	<sup>1</sup> / <sub>4</sub> in (6 mm)
50 ft (15 m) from Bridge Approaches, Wideflange Beam Terminal	
Joint, Existing Pavement or Mainline Gaps	<sup>1</sup> / <sub>4</sub> in (6 mm)
All curves ≤ 1000 ft (300 m) radius including SE transitions	<sup>3</sup> / <sub>8</sub> in (10 mm)
Acceleration Deceleration Lanes	<sup>3</sup> / <sub>8</sub> in (10 mm)
Side Streets ≤ 600 ft (180 m) in length	<sup>3</sup> / <sub>8</sub> in (10 mm)
Turn Lanes, Storage Lanes and Crossovers, Etc.	<sup>3</sup> / <sub>8</sub> in (10 mm)
Intersections	<sup>3</sup> / <sub>8</sub> in (10 mm)

b.	Mainline pavements with less than or equal to 40 mph (70 km/h) will be tested in the wheel paths with a 16 ft (5 m) straightedge set to a $^{3}/_{16}$ in (5 mm) tolerance.	
C.	Mainline pavements with greater than 40 mph (70 km/h) with a net project length of less than 1 mile (1600 m) will be tested in the wheel path with a 16 ft (5 m) straightedge set to a $^3/_{16}$ in (5 mm) tolerance.	
d.	All surface variations that exceed the above tolerance shall be removed with an approved grinding device consisting of multiple saws.	
e.	The contractor will furnish and provide jobsite transportation for the 16 ft (5 m) straightedge.	

	Prof	Profilograph – All mainline pavement shall be tested with a California Profilograph, except the mainline pavement previously specified for testing with a16 ft (5 m) straightedge.			
	a.	The Profile Index and Price Adjustments will be determined in accordance with Article 407.09(b)(1).			
	b.	Corrective work will be in accordance with Article 407.09(b)(2).			
7.	THI	THICKNESS TESTS			
		ne determination of the pavement thickness performed in accordance with cle 407.10?			
8.	DOC	CUMENTATION OF FINAL QUANTITIES			
		A Pavement (Full-Depth) will be paid for at the contract unit price per are yard (square meter) of the type and thickness specified.			
	a.	Contract Quantities – The requirements for the use of contract quantities shall conform to Article 202.07(a). Form <u>BC 981</u> , Agreement on Accuracy of Plan Quantities, must be signed and on file prior to starting work. (See <u>Documentation Section</u> of the Construction Manual).			
	b.	Measured Quantities – Pavement will be measured in place and the quantity for payment shall be computed in square yards (square meters). The maximum width for payment shall be the top width of the HMA course as shown on the plans. (Art. 407.11(b))			
	•	Light fog tack coat of prime, when required between lifts, shall be paid according to Article 109.04.			
	asso	e contract requires the contractor to furnish a profilograph, all costs ociated with maintenance and jobsite transportation will be paid for at the p sum price for FURNISH PROFILOGRAPH. (Art. 407.12)			

Revised to conform with the Standard Specifications for Road and Bridge Construction Adopted January 1, 2007

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