

ANNOUNCEMENT: BDC18S-20

DATE: April 15, 2019

SUBJECT:Pay Adjustment Equations (PAE) for Ride Quality-Revision to the 2007 Standard Specifications for Road and Bridge
Construction, Subpart 401.03.03.

Subpart 401.03.03 of the 2007 Standard Inputs for Road and Bridge Construction has been revised to change the Pay Adjustment Equations (PAE) for Ride Quality.

The following revisions have been incorporated into the Standard Inputs (SI 2007).

401.03.03 HMA Courses

J. Ride Quality Requirements.

4. Quality Acceptance. The Department will determine acceptance and provide PA based on the following:

a. Pay Adjustment. THE TABLE 401.03.03-7 AS IT APPEARS IN THE SI IS CHANGED TO:

Pay Equation Type	Exclusions		Pay Equations		
	As shown in the	IRI≤170	PA1=PAE		
PA1	Special Provisions Table 401.03.03-9	IRI>170	PA1= -A or Corrective action		
PA2	Will include, if tested	$IRI \leq 120$	PA2 =\$0		
		$120 < IRI \leq 170$	PA2 = (IRI – 120) x (-\$10.00)		
		IRI>170	Maximum Negative Pay or Corrective action		
	Will include, if tested	IRI <t< td=""><td>PA3=PAE</td></t<>	PA3=PAE		
PA3		$T \leq IRI \leq 120$	PA3=0		
		120 <iri≤170< td=""><td>PA3=PAE</td></iri≤170<>	PA3=PAE		
		IRI>170	PA3= -A or Corrective action		
	А		А		
$PAE = \frac{R}{-37.75347 \times \log_e(T) + 194.87} - \frac{R}{-37.75347 \times \log_e(IRI) + 194.87}$					
$A = 1267.2 \left[\frac{M}{9} + \frac{PD}{150} \right]$					

P = Bid price of last lift of the pavement structure to be evaluated or price listed in table 401.03.03-7A as shown in the Special Provisions, whichever is higher, per Ton

 D^1 = Design thickness of last lift to be evaluated, Inch

M = Bid price of Milling, per Square Yard

T = Target IRI

1. For various design thicknesses of last lift to be evaluated within a segment, calculate the thickness using the following equation:

$$\frac{D_1 N_1 + D_2 N_2 + \cdots + D_N N_N}{N_1 + N_2 + N_3 + \cdots + N_N}$$

Where:

 D_N = Design thickness of the last lift to be evaluated of N sections having same mix, Inch N_N = Number of lots of N section with design thickness D_N of last lift to be evaluated

Design thickness of last lift to be evaluated (D) =

SEND EMAIL TO SME TO REQUEST MINIMUM VALUE OF P IN TABLE 401.03.03-7A FOR HMA SURFACE COURSE ITEMS WITHIN THE PROJECT AND INCLUDE THE FOLLOWING TABLE

SME CONTACT - PAVEMENT & DRAINAGE MANAGEMENT & TECHNOLOGY UNIT

FOLLOWING TABLE IS ADDED

Table 401.03.03-7A Minimum Value of P			Value of P
	Surface Course Mix		Р
	1		
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2***	*******	***********	***************************************

Implementation Code R (ROUTINE)

Changes must be implemented in all applicable Department projects scheduled for Final Design Submission at least one month after the date of the BDC announcement. This will allow designers to make necessary plan, specifications, and estimate/proposal changes without requiring the need for an addenda or postponement of advertisement or receipt of bids.

Recommended By:

Schneider

Paul F. Schneider Director Capital Program Support

PS: NP: HP BDC18S-20.doc **Approved By:**

Snehal Patel, P.E., PMP Assistant Commissioner Capital Program Management and State Transportation Engineer