



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

ROADWAY DESIGN DIVISION
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INSTRUCTIONAL BULLETIN NO. 19-19

Update to Table 4-2

Effective immediately, Section 4 Table 4-2 has been updated to include additional item numbers and conditions. Item Numbers 411-03.22 and 411-03.23 have been to be added to Table 4-2. The rate for 411-03.23 rates vary based on project location. Region 1 and Region 2 specific counties (Bradley, Hamilton, McMinn, and Marion) will use a rate of 94 lb/sy/in. The attached section reflects these changes.

4-411.00 COMPUTATIONS FOR ASPHALTIC CONCRETE SURFACE (HOT MIX)

The computed quantity for asphalt surface mixtures is as follows:

$$\frac{\text{Compacted volume (C.Y.)} \times \text{Density (Lb./C.Y.)}}{2,000 \text{ Lb./ Ton}} = \text{Tons}$$

OR

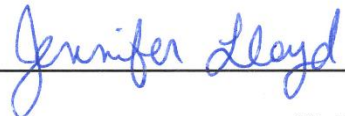
$$\frac{\text{Area (S.Y.)} \times \text{Lb per SY per inch thickness}}{2,000 \text{ Lb./ Ton}} = \text{Tons}$$

Values for mixture density, Lb. per S.Y. per inch thickness, and item numbers are provided in Table 4-2 below.

VALUES FOR COMPUTATION OF 411 ASPHALT SURFACE MIXTURE QUANTITIES			
ITEM NUMBER	DESCRIPTION	DENSITY (LB/CY)	LB per SY per inch thickness
411-01.10	GRADING D SURFACE (PG 64-22)	3816	106
411-02.10	GRADING D SURFACE (PG 70-22)	3816	106
411-03.10	GRADING D SURFACE (PG 76-22)	3816	106
411-04.10	GRADING D SURFACE (PG 82-22)	3816	106
411-01.07	GRADING E SHOULDER (PG 64-22)	3708	103
411-02.11	GRADING E SURFACE (PG 70-22)	3870	107.5
411-03.07	GRADING TL SURFACE (PG 64-22)	3816	106
411-03.08	GRADING TL SURFACE (PG 70-22)	3816	106
411-03.09	GRADING TL SURFACE (PG 76-22)	3816	106
411-03.12	GRADING TLD SURFACE (PG 64-22)	3816	106
411-03.13	GRADING TLD SURFACE (PG 70-22)	3816	106
411-03.14	GRADING TLD SURFACE (PG 76-22)	3816	106
411-03.22	GRADING OGFC SURFACE (PG 70-22)	3168	88
411-03.23	GRADING OGFC SURFACE (PG 76-22)	3168	88*

*For all Region 1 Counties, Bradley County, Hamilton County, McMinn County, and Marion County, use 94 lbs/sy/in

TABLE 4-2 COMPUTATION OF 411 ASPHALT SURFACE MIXTURE QUANTITIES



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