



Title ADV. CONST. MATERIALS
PAVT. DESIGN - ODOT METHOD

Sheet No. 1 of 1

By NK 2/19/00 Chk. / /

Job No. CET-3120

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DETERMINE ODOT PAVT. SECTION FOR THE FOLLOWING
CRITERIA. URBAN ARTERIAL

$$W_{18} = 6,000,000 \text{ E-18's } \text{CRB} = 4$$

$$+ \text{ URBAN ARTERIAL } S_0 = 0.49 \quad R = 9090$$

$$M_R = 4 \times 1200 = 4800 \text{ psi.} \quad \Delta \text{ PSI} = 2.0$$

$$+ \text{ MATCH LINE} = 32$$

$$+ \text{ SN} = 5.1$$

$$+ 6'' \text{ OF } 301 \text{- AGG BASE} = 6'' \times 0.14 = 0.84$$

$$+ \text{ SN BY ASPHALT} = 5.1 - 0.84 = 4.26$$

$$+ 6,000,000 / 20 \times 365 = 822 \text{ E-18's / DAY}$$

ASSUME < 1500
USE TYPE 1

$$+ \text{ ASPHALT THICKNESS} = \frac{4.26}{0.39} = 10.9''$$

$$+ 1\frac{1}{2}'' \text{ ITEM 416} \sim \text{SURF. TYPE 1} \quad \times 0.93 = 0.045$$

$$+ 1\frac{3}{4}'' \text{ ITEM 416} \sim \text{INT. TYPE 2} \quad \times 0.93 = 0.75$$

$$+ 8'' \text{ ITEM 301} \sim \text{BIT AGG BASE} \quad \times 0.36 = 2.88$$

$$+ 6'' \text{ ITEM 309} \sim \text{AGG. BASE} \quad \times 0.14 = \underline{0.84}$$

5.11

OK