

Design Standards Letter

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Section/Plan No.: None

Subject: Lighting Controlled Access Highways

Body

ALL DIVISION, DISTRICT AND URBAN ENGINEERS

Section 15.1.5.2 of the Design Manual regarding the average maintained intensity of lighting on limited access highways in urban areas will be revised to provide for 0.6 foot-candles for all conditions noted.

Section 15.1.5.3 of the Manual, relating to uniformity, will be revised to provide that the uniformity ratio for 0.6 foot-candle average maintained intensity may be as much as 8:1. For continuous lighting and complete interchange lighting 400 W. 21,000 lumen mercury vapor lamps are to be used as stated in the first sentence of this section.

The spacing chart (Figure 15.8.1 in the Manual) for 0.6 foot-candles will result in a ratio within 8:1 using staggered spacing and ASA Type III distribution; however, if the luminaries are all on one side, the maximum spacing will be 230' instead of 250' using ASA Type II distribution. A 65-foot width of pavement will be the maximum for lighting from one side.

The same criteria of 0.6 foot-candles average maintained intensity and a uniformity ratio up to 8:1 is to be applied where fluorescent luminaries are used as for lighting underpasses and depressed roadways.

All lighting plans for limited access highways, with a few exceptions, now being designed or which have not been submitted to this office are to be revised before submittal. These offices concerned will be notified of the exceptions.

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