



Illinois Department of Transportation

Memorandum

To: All Regional Engineers
From: Omer M. Osman, P.E. OMD/AAW
Subject: Special Provision for Waterway Obstruction Warning
Luminaire
Date: January 9, 2015

This special provision was developed by the Bureau of Design and Environment to require bronze housings for waterway obstruction warning luminaires. It also provides material requirements for the mounting assembly, lamp, and appurtenances. It has been revised to clarify the pivot assembly requirements and also correct a typo.

This special provision should be inserted in contracts requiring waterway obstruction warning luminaires.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 24, 2015 and subsequent lettings. The Project Development and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 9, 2015.

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WATERWAY OBSTRUCTION WARNING LUMINAIRE (BDE)

Effective: August 1, 2014

Revised: April 1, 2015

Revise the second paragraph of Article 1067.07(a) of the Standard Specifications to read:

“The luminaire shall have a bronze housing and shall meet the requirements set forth by the United States Coast Guard in Title 33, Part 118 of the Code of Federal Regulations. Nuts, bolts, thumb screws, hardware, thread rods, and mounting bases which are exterior, shall be stainless steel (300 series) or bronze. Hardware on the interior of the lamp cavity shall be stainless steel or bronze.”

Add the following paragraphs after the third paragraph of Article 1067.07(a) of the Standard Specifications:

“The pivot type mounting assembly shall be bronze and shall be mounted on an external vibration isolator. The pivot assembly shall include a greased bearing. A grease fitting shall be positioned such that the bearing can be lubricated from the bridge deck. A stainless steel extension tube shall run from the grease fitting to the bearing. A locking rod assembly made of aluminum or stainless steel shall secure the luminaire in the operating position and shall include padlock provisions. Stainless steel pipes shall be used to attach the pivot assembly to both the luminaire housing and the counterweights. A stainless steel locknut shall be used at all threaded connections to the pipes.

Stainless steel hook, ring, and connecting plates shall be attached to the bridge railing with stainless steel hardware or shall be anchored in the parapet. The connecting plate shall include a vandal-resistant rod locking mechanism. The service chain shall be stainless steel.”

Add the following to the end of the first paragraph of Article 1067.07(a)(3) of the Standard Specifications:

“Surge protection for the luminaire shall be integral to the fixture housing.”

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