



Strand Associates, Inc.®

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December 1, 2014

Mr. Steve M. Sonntag, P.E.
City of Madison, Engineering Division
210 Martin Luther King Jr. Boulevard, Room 115
Madison, WI 53703

Re: John Nolen Drive Causeway Bridges
City of Madison Purchase Order 97240574-1

Dear Steve,

Field work to perform bearing measurements and assess the condition of the bearings for the six causeway bridges (B-13-332, B-13-333, P-13-753, P-13-754, P-13-755, and P-13-756) was performed on November 25-26, 2014. There are two bearing locations where we feel that corrective measures should be performed as soon as possible.

1. Bridge P-13-754, Bearing E8 (see enclosed sketch for bearing location)—The end of the girder at this location has a significant amount of spalled concrete (see attached photos). We recommend that a new steel support bracket assembly and new expansion bearing assembly be installed in front of the existing bearing. We also recommend that the spalled girder concrete be repaired.
2. Bridge P-13-755, Bearing D1 (see enclosed sketch for bearing location)—One of the two bearings at this location is completely missing (see enclosed photos). A section of concrete has broken off from the face of the pier at this location, and the bearing that was located above this section of concrete has presumably fallen into the water. The remaining bearing that is supporting the girder is located near the end of the girder where the girder concrete is in poor condition. We recommend that the pier is first repaired and restored to its original dimensions and that a new steel support bracket assembly and new expansion bearing assembly be installed to replace the missing bearing.

We are able to assist the City with the preparation of drawings and special provisions for this recommended maintenance work, if desired. Please call me with questions at 608-251-4843.

Sincerely,

STRAND ASSOCIATES, INC.®

Keith R. Behrend, P.E.

Enclosures

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