



McMullan & Associates, Inc.

February 23, 2018

Ms. Kitty Henderson
Historic Bridge Foundation
PO Box 66245

M&A 3575

RE: Headquarters Road Bridge Rehabilitation

Dear Ms Henderson:

As requested by my client, the Delaware Riverkeeper, and after reviewing your memo to Monica Harrower, I am writing to inform you that it is my professional opinion, that the stone masonry substructure for the Headquarters Bridge substructure can be rehabilitated to support vehicular traffic.

Our firm has investigated and designed the rehabilitation of many historic stone structures and bridges. I have personally visited the Headquarters bridge on several occasions, reviewed the PennDOT reports, and stated my opinion at several public meetings.

I agree with PennDOT's assessment that the steel and concrete superstructure has deteriorated beyond repair and requires replacement. I also agree with PennDOT's assessment that the stone masonry piers can be rehabilitated, as they have stated in the Final Individual Section 4(f) Evaluation paper. Furthermore, it is my opinion that the stone masonry abutments can be rehabilitated and do not need replacement. The reasons for PennDOT's recommendation for replacing the historic bridge appear to have more to do with non-structural considerations. I respectfully ask that you to reconsider your position on the Headquarters Road Bridge project and recommend that further investigation of the rehabilitation option for the 1812 substructure be implemented before it is replaced with modern materials.

Sincerely,

McMULLAN & ASSOCIATES, INC.

Douglas E. Bond

Douglas E. Bond, PE
Vice President