



Nicolás H. Bosonetto, P.E.  
City Engineer (Interim)

Date: January 3, 2018  
TO: Kevin J. Murphy, City Manager  
VIA: Tom Bellegarde, Assistant City Manager/DPW Commissioner  
FROM: Nicolás H. Bosonetto, P.E., City Engineer (Interim)

**SUBJECT: 4/11/17 Mayor Kennedy - Request City Manager consider extending the Clay Brook culvert to beyond the dam area and make it part of the Capital Plan**

The proposal to extend the Clay Brook culvert to beyond the dam area in order to alleviate flooding dates back to at least 1970. The original conceptual plans called for the brook to be blocked at the existing outfall and using two 60" RCP pipes running approximately 2,200 feet under the Pawtucket Boulevard to divert its waters to an outfall between the Pawtucket Dam and the O'Donnell Bridge. The proposal also required dredging of miles of the brook upstream.

The engineering and environmental scope of this project, not to mention the cost, have greatly increased since the original 1970 concept. The permitting application alone would cost between \$500,000 and \$1,000,000 to prepare and there is a high likelihood that the half-dozen state and federal agencies involved would not approve the permits. The project would require complete reconstruction of Pawtucket Boulevard and a large section of the retaining wall running along the river. Total project costs would likely be over \$70 Million.

Even if the project was feasible, it would not resolve flooding issues in Pawtucketville since the brook runs very flat and the proposed extension would also have very little slope. These conditions would result in continued flooding.

It is therefore my professional opinion that this project is not feasible.