



# CITY OF CONCORD

## REPORT TO THE MAYOR AND CITY COUNCIL

**FROM:** David Cedarholm, City Engineer

**DATE:** April 30, 2018

**SUBJECT:** Resolution Repurposing City CIP Funds and De-authorizing State of New Hampshire Funds Related to the Horseshoe Pond Drainage Improvement Project

### **Recommendation**

Accept this report and approve the attached resolution.

### **Background**

The Horseshoe Pond Drainage Improvements Project CIP #571 was initiated in 2002 after stormwater runoff from intense rainstorms caused flooding at the intersection of Bouton Street, I-393, and North Main Street when it backs up and overtops the curb and sidewalk and directly impacts the Kimball-Jenkins Estate and School of Art. The flooding at this location has been attributed to an undersized 20-inch diameter drainage pipe that runs between the Kimball-Jenkins Estate and I-393. This drainage pipe receives stormwater runoff from approximately 50 acres of City neighborhoods with more than 20 acres of impervious surface as well as runoff from a portion of I-393.

The project has been a joint effort between the City and the State of New Hampshire Department of Transportation (NHDOT). The City has worked collaboratively with NHDOT and local residences and businesses to develop a permanent solution. A watershed study was initiated in FY 15 to analyze impacts to Horseshoe Pond related to this effort. After considering a number of options, the preferred and least expensive solution was to install a large overflow pipe down North Main Street and discharge the excess stormwater into Horseshoe Pond. This option was not supported by two key property owners in the Horseshoe Pond area and subsequently rejected.

### **Discussion**

The Engineering Division has since re-examined this issue and is now proposing a phased approach designed to not increase the stormwater discharge to Horseshoe Pond by building greater resiliency in other parts of the drainage system. This multi-phase approach will

separate the drainage system into manageable components and provide greater flow and storage capacity in each leg of the system. Phase 1 will focus on surface treatments and stormwater system improvements at the Bouton-393-North Main Street intersection to ensure the stormwater no longer backs up and overtops the curb. The proposed design will include modifying the pavement grades and curbing at the intersection, upgrading the stormwater structures and pipe sizes, and providing subsurface stormwater detention in various locations including within the City's right-of-way beneath the north extension of North Main Street. Later phases will focus on upgrades and improvements in other legs of the drainage system to provide more storage capacity and greater overall system resiliency including the State of New Hampshire's I-393 portion of the drainage system which would be the State's responsibility to fund and construct.

The attached resolution proposes to repurpose the remaining City funds in CIP #571 towards designing the Phase 1 improvements, with a goal to construct Phase 1 in FY 2019-20. The resolution also de-authorizes the NHDOT funds that had been originally committed towards the rejected project. These dollars were never received from the State.

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