



**CITY OF NORTHAMPTON, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
125 Locust Street
Northampton, MA 01060**

**413-587-1570
Fax 413-587-1576**

Donna LaScaleia
Director

Memorandum

To: Mayor David Narkewicz

From: Donna LaScaleia, Director of Public Works

Date: March 19, 2021

RE: FY2022 Northampton Roadway Improvements

The Department of Public Works (DPW) has developed a plan to improve the condition of several City streets in FY2022. This memorandum identifies the selected streets, the approximate cost of improvements and the current schedule for bidding and construction.

For FY2022, as part of your five year Capital Improvement Program, the City bonded \$1,500,000 for street resurfacing. We have received a FY2022 apportionment of \$1,017,335 in Chapter 90 funds from the Commonwealth. Additionally, we can allocate funding from other sources such as traffic calming or utility enterprise funds as appropriate.

Generally, the DPW uses data and analysis provided through the Vanasse Hangen Brustlin, Inc (VHB) Pavement Management Program as the primary guide for pavement management. In addition, the DPW applies our field knowledge of roadway usage, current repair conditions, and consideration of recent and upcoming underground utility projects when developing candidate streets for pavement improvement. The types of improvements proposed and the streets where the work is planned are described below.

ROADWAY PAVING

The pavement reclamation process involves mechanically grinding and removing all existing layers of pavement. The reclaimed material can be used to repair or supplement the road's gravel base as needed. Excess material is stockpiled for use by the DPW. The road base is graded and compacted before binder and top courses of new pavement are installed. Catch basin and manhole structures are adjusted and may be rebuilt if required. The expected repair life is typically 18 – 22 years.

Reclamation treatment measures will be used on the streets listed below.

Reclaim Streets

Loudville Road (S): Easthampton City line to Westhampton Town line

Loudville Road (N): Westhampton Town line to 200' south of Route 66

Meadow Street: Spring Street to Lilly Library Driveway Entrance

Pine Street: Maple Street to South Main Street

Warfield Place: Finn Street to Prospect Street

Hayes Avenue: Prospect Street to end

Construction Schedule: Construction will occur in the summer and fall of 2021. The approximate total value of the 1.5 miles of roadway paving is \$2,080,000.

ROADWAY PAVEMENT MARKINGS

There are various types of pavement markings used throughout the City. These include, but are not limited to, solid yellow lines, solid and broken white lines, turn arrows, crosswalks, speed hump markings, and only markings. These markings fade over time and are repainted for visibility. Project areas for this contract are generally chosen based on visual inspection. For FY2022, \$100,000 is budgeted for this work.

Pavement Marking Schedule: Two contracts are planned. A contract for repainting only crosswalks is scheduled for fall of 2021. A full contract for painting all markings is expected to bid in early 2022.

STATE CHAPTER 90 PROJECTS

Chapter 90 is a state reimbursement program for projects that involve maintaining, repairing and reconstructing City streets. Other eligible uses include engineering design services and personnel for site inspection. Several construction and resurfacing projects listed on the previous pages are partially funded using the Chapter 90 program. Funds for each community are determined by the number of accepted road miles, the population and employment data. The following design projects span multiple fiscal years:

King Street Corridor Construction Administration (\$38,450)

Fuss & O'Neill has a contract for construction administration during the reconstruction of King Street between Bright Street and the signalized rail trail crossing which began in April 2021. This includes pre/post bid services, shop drawing & submittal reviews, construction field visits, responses to requests for information, meeting attendance, and preparation of as-built record drawings. The construction is expected to be completed by fall 2022.

Pavement Management Services (\$12,000)

The City has an annual contract with Vanasse Hangen Brustlin (VHB) for pavement management services. VHB evaluates the pavement condition for a quarter of the City's streets each year and updates the database. This allows the City to see the condition of all road segments.

Hotel Bridge Rehabilitation Design (\$55,000)

Greenman-Pedersen, Inc has a contract for the rehabilitation design of the Hotel Bridge for pedestrian and bicycle access only. The construction of the single lane, iron truss bridge was completed in January of 1881. The bridge was closed to vehicle traffic in 2004 after being deemed structurally deficient by MassDOT. An engineering assessment will be completed in FY2020 to determine the preferred construction strategy for reopening the bridge to pedestrian and bicycle traffic.

Leeds Bridge Scour Remediation Engineering Services (\$72,190)

Greenman-Pedersen, Inc. has a contract for engineering services associated with repair of the scour and undermining of the bridges carrying Main Street over the Mill River in the Leeds section of Northampton. The deficiencies were identified by MassDOT Bridge inspection reports. The planned repairs include work within the Mill River, its banks, and on the masonry piers supporting the bridge.