



Diane Nichols Tradd
 Assistant City Manager/DPD Director

Craig Thomas
 Deputy Director

MEMORANDUM

TO: Eileen M. Donoghue, City Manager *EMD*

FROM: Diane N. Tradd, Assistant City Manager/DPD Director

DATE: April 28, 2020

SUBJECT: UPDATE TO REPORT OF 9/10/2019 AND MOTION OF 4/23/19 BY MAYOR LEAHY REQUEST THE CITY MANAGER UPDATE THE CITY COUNCIL ON THE BUDGET FOR STREET LINE PAINTING AND ALSO UPDATE THE CITY COUNCIL ON SCHEDULE FOR THE UPCOMING YEAR FOR PAINTING LINES AND STREETS THROUGHOUT THE CITY OF LOWELL

Mayor Leahy requested an update to the motion response with the total cost to apply pavement markings in the City of Lowell, as required per the Manual on Uniform Traffic Control Devices (MUTCD). The Transportation staff was able to create an estimate of the cost and total linear feet of markings for City roads using traffic counts, the City Geographic Information System (GIS), additional GIS data and MUTCD requirements. Per the MUTCD, any road can be marked with a double yellow centerline as a public safety measure. However, roads that are a minimum of 20 feet wide, with an Average Daily Traffic (ADT) of at least 6,000 vehicles per day are required to have edge lines and double yellow centerlines. GIS data previously provided to the City by a consultant included the following data:

- Width over 20 feet
- ADT over 5,000 vehicles a day (*ADT over 6,000 not provided*)
- Has a bike lane
- Owned by the City

Using the data provided, Transportation Staff identified the City roads that require double yellow centerlines and edge lines, as well as bike lanes. A map of these streets is attached. This estimate is only for striping edge lines, double yellow lines and bicycle lanes. The table below shows the total cost for striping the streets identified.

Cost of Striping				
			\$ Per Linear Foot	\$ For Each
Linear Footage: DY	256,000	LF	\$ 0.08 /LF	\$ 20,480
Linear Footage: Edge	256,000	LF	\$ 0.08 /LF	\$ 20,480
Linear Footage: Bikes	40,000	LF	\$ 0.04 /LF	\$ 1,600
TOTAL				\$ 42,560

A police detail of one patrolman is needed for each night of pavement striping. In order to estimate that cost, based on previous experience, it was assumed that 150,000 linear feet can be painted per night in a 10-hour shift. The table below shows the cost for the police details needed to stripe the identified streets.

Cost of Police Detail – Truck Crew	
Total Linear Footage	806,795
# of Nights LPD Detail Needed	6
\$ per 10 hour detail	\$ 900.00
Total Police Detail Cost	\$ 5,400.00

The total estimated cost for required pavement marking is **\$47,960**. This cost does not include any work that would be performed by a hand crew, such as painting stop bars, arrows, ‘ONLY’ or parking spot delineators (known as Ls and Ts). It only includes the cost of a truck crew for long-line painting and a police detail for each night of painting.

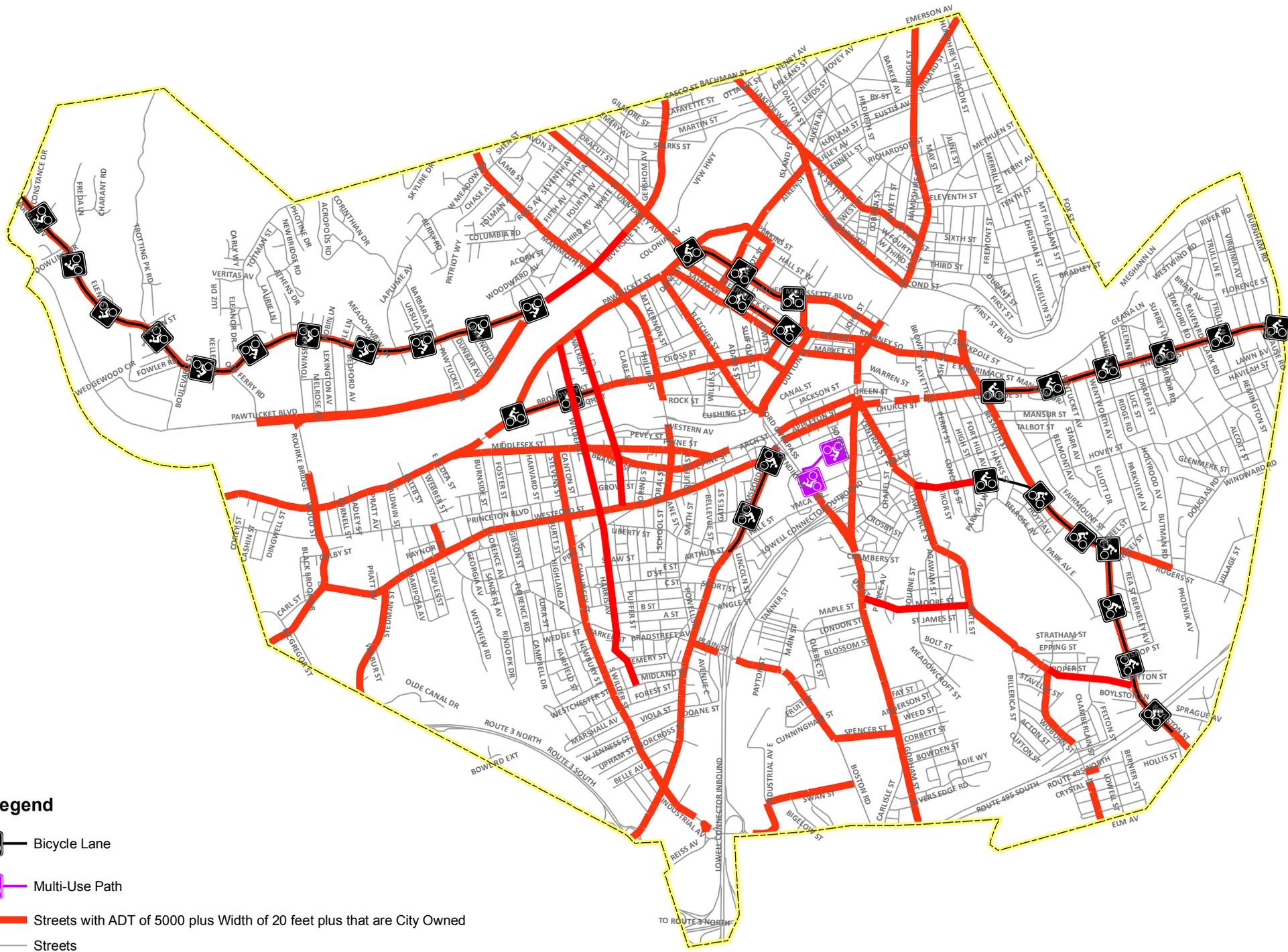
Currently, the City has a \$75,000, 3-year contract with Hi-Way Safety Systems, which is funded through the Parking Department that will expire on 6/30/2020. Due to safety concerns, as of January 2020, MassDOT revoked Hi-Way Safety Systems prequalification certificate, which means the company can no longer bid on MassDOT projects. The City’s procurement officer recommends terminating the contract with Hi-Way Safety Systems and issuing an RFP for a new contract.

With current record low levels of traffic, and with all schools closed for the remainder of the school year, it is an opportunity to refresh pavement markings near and around schools. Time and costs for that effort have not been evaluated. Prior to issuing the RFP, the City will need to determine what level of funding is required. The Transportation Engineer recommends doubling the value of the contract to \$150,000, which would enable the City to repaint all required lines, as well as repainting parking spot delineators.

NV/ah

Attachment

cc: Natasha Vance, Transportation Engineer
 Terry Ryan, Parking Director



Legend

-  Bicycle Lane
-  Multi-Use Path
-  Streets with ADT of 5000 plus Width of 20 feet plus that are City Owned
-  Streets
-  Lowell Boundary

1 inch = 3,000 feet