

## **PHASE 1 - FEASIBILITY ANALYSIS**

### **Essex Street**

(Park Ave. to Mountain Ave.)

The condition of Essex street is typical for the immediate grouping of side streets between Park Ave. and Mountain Ave. Essex street is in need of reconstruction and is in similar condition to Genesee street overall.

The pavement surface suffers from extensive alligator cracking and differential settlement. Extensive alligator cracking and extensive differential settlement is observed on the street, note photo 3, 7 and 8, all show alligator cracking and settlement within different areas of the road. Elsewhere expansive longitudinal cracks are seen and the condition is anticipated to worsen in the near future. The base of the road in the form of macadam is exposed in several locations as highlighted in photo 6.

The street does have granite curbing throughout and the granite is in good condition considering the condition of the street itself. While the curbing does show some rolling and settlement, a reveal of appx 4-5" exists which is adequate to control stormwater, which drains to a low point in the middle of the road. The condition of the existing asphalt sidewalks vary, the majority of the sidewalks are in good condition although appx. 15% of the sidewalks are in poor condition.

Ultimately the curbing should be removed and reset and the sidewalks be reconstructed in concrete. Due to the fact that macadam is exposed beneath the top layer of asphalt and that differential settlement is observed, the integrity of the base of the road as a whole is questionable. This is a common condition among the immediate cluster of side streets between Park Ave and Mountain Ave.

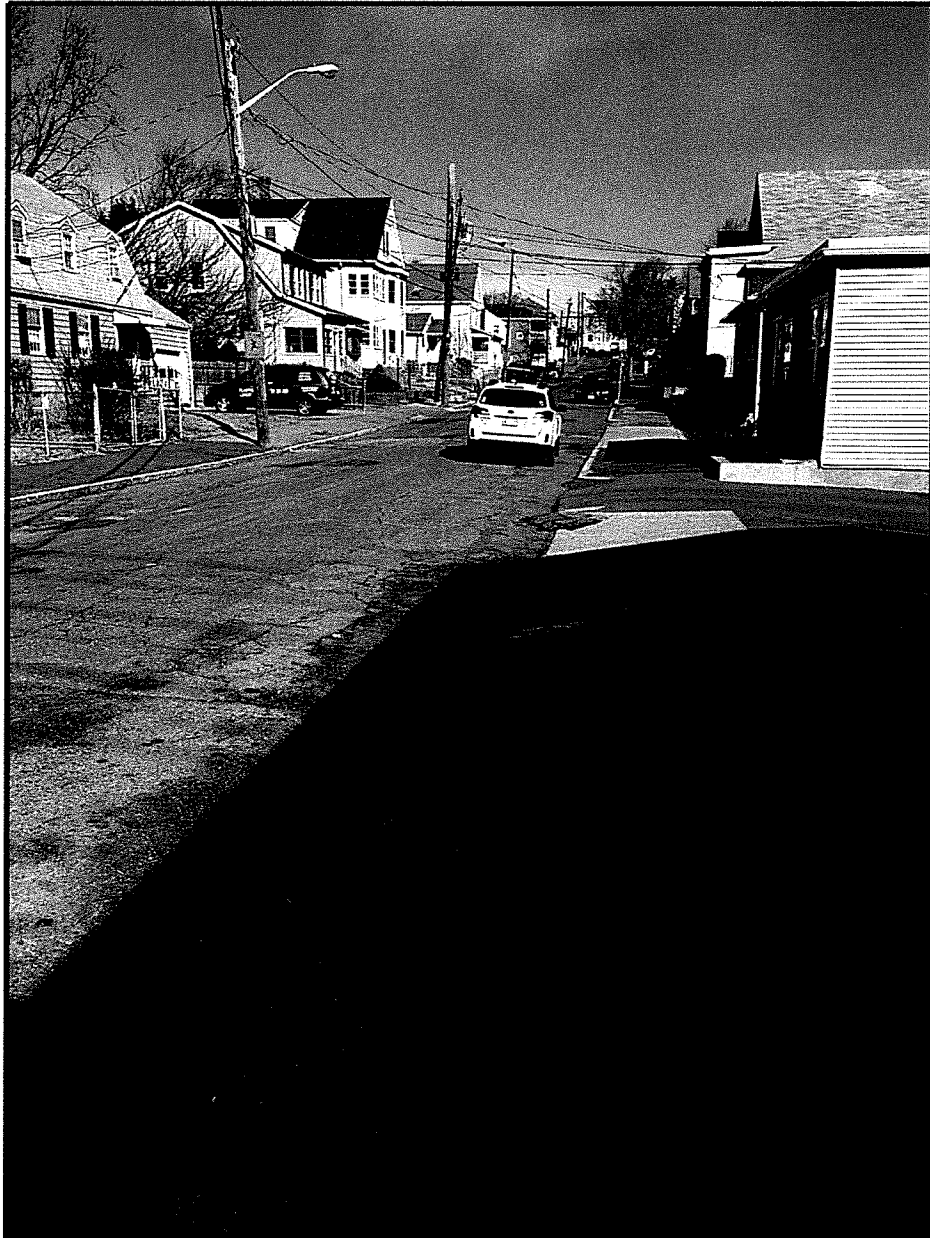
It is recommend that full depth reclamation of the road ultimately be completed concurrently with the resetting of the granite curb and reconstruction of the sidewalks in concrete.

# Essex Street

At Park Ave. looking north.

Photo shows concrete sidewalk section  
breaking up and multiple  
pothole repairs over the years.

Road is settling differentially



# Essex Street

North of Park Ave. looking north.

Photo shows poor condition of pavement  
but decent condition of granite curb  
and asphalt sidewalks.



## Essex Street

Photo showing structural failure of  
roadway and possible failure of roadway base.  
Extensive settlement and cracking.

Curb and sidewalk in decent condition.



# Essex Street

Mid-Block looking north towards Mountain Ave.

Photo shows typical condition of  
roadway, curb and sidewalks





## Essex Street

Photo shows exposed macadam.

If milled, the milling operation will take the roadway down to the base layer. Level course, binder and top course of pavement should be applied if milled.



# Essex Street

Photo showing typical roadway cracking



2/1/2016

# Essex Street

Mid-Block looking north towards Mountain Ave.

Photo shows alligator cracking of street  
and vehicles parked on sidewalk





## Essex Street

Mid-Block looking north towards Mountain Ave.

Photo shows some curb settlement but curb is mostly in decent condition.



## Essex Street

Towards the top of the street looking north  
towards Mountain Ave.

Photo shows existing pavement repairs and  
typical cracking. Some settlement of curbing  
shown as well as a poor section of  
sidewalk.



## Essex Street

Towards the top of the street looking north  
towards Mountain Ave.

Photo highlighting poor section of  
sidewalk. Curb doesn't have 6" of reveal  
but in decent condition.

