

POST CONSTRUCTION EVALUATION REPORT
BROADWAY ROADWAY & SIDEWALK RECONSTRUCTION PROJECT
PROSPECT ST TO PORTLAND ST

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The City of Cambridge Department of Public Works has prepared this post-construction evaluation report to summarize changes in the Broadway corridor. Broadway is located between the Cambridge Street Tunnel and Main Street, and serves as an east-west connection between the City of Cambridge and the City of Boston. The Broadway project commenced in spring 2012 and was completed in summer 2014.

The proposed work included overall improvement of the sidewalk and pavement along the portion of Broadway between Prospect St. and Portland St. The overall scope included:

- New safe, consistent, handi-capped accessible sidewalks and crosswalks **(Figure 1)**
- New pavement and Markings
- New Trees
- Drainage and water utility improvements

The final more descriptive post construction outcome included:

Major Street and Sidewalk Improvements

1. New concrete sidewalks with attractive brick feature along Broadway. **(Figure 2)**
2. New asphalt and pavement markings on Broadway from Prospect St. to Portland St, with full depth roadway reconstruction from Portland St. to Clark St. and a cold plane and overlay from Clark to Prospect St.
3. Pedestrians:
 - a. Eleven new elevated crosswalks built on Broadway side streets, plus one along Harvard St. at Boardman St. **(Figure 3) + (Figure 4)**
 - b. New Broadway St crosswalks with bump outs at Tremont (across from Sennott Park), Elm, Clark, and Moore Streets. **(Figure 5)**
4. Bikes: New pavement markings with 7' wide parking lane and bike sharrow along Broadway, where formerly there was a white edge line 10' from the curb and no bike sharrow. **(Figure 6)**
5. Thirty-six new trees **(Figure 7)**
6. New sidewalks and street asphalt on Boardman St **(Figure 8)**



7. New street asphalt on Moore St, Davis St, Windsor St from Broadway to Market St, and on Market St, from Broadway to Clark St. **(Figure 9)**
8. Grading improvements:
 - a. Redesigned the corner of Broadway and Portland St. and Broadway at Prospect St. , to remove existing chronic puddling. **(Figure 10)**
 - b. Re-graded and install a catch basin on Windsor St, between Broadway and Market St., to eliminate chronic puddling on the east and west sides of Windsor St. **(Figure 11)**

Utility Improvements

1. Installed 19 new catch basins or gutter inlets with 4' or 6' sumps and hoods for storage of dirt and debris.
2. Installed 3 new leaching catch basing where suitable conditions were found, one at Norfolk St./Broadway and 2 at Tremont St./Broadway. Rerouted 12" diameter water pipe found obstructing 36" drain pipe at the intersection of Columbia St. **(Figure 12)**
3. Installed new 30" gate valve on the 30" water pipe on Broadway at the intersection of Boardman St. and installed a new 8" water line and 2 new fire hydrants and a new gas line on Boardman St. **(Figure 13)**
4. Replaced collapsed drain pipe leader at the corner of Broadway and Columbia Sts, to eliminate chronic puddling.

Other improvements:

1. Boardman St: The easterly sidewalk had become inaccessible due to large existing tree. Sidewalks were reconstructed to make them ADA compliant. **(Figure 14)**
2. All pre-existing non- handicapped accessible sidewalks in the project scope were made accessible. **(Figure 15)**
3. Installation of new trash and recycling receptacles. **(Figure 16)**

FIGURE 1

Pre-Existing



Constructed



FIGURE 2



Pre-Existing

Proposed

Constructed



FIGURE 3

Pre-Existing

Proposed

Constructed



FIGURE 4

Pre-Existing



Constructed



FIGURE 5



FIGURE 6



FIGURE 7

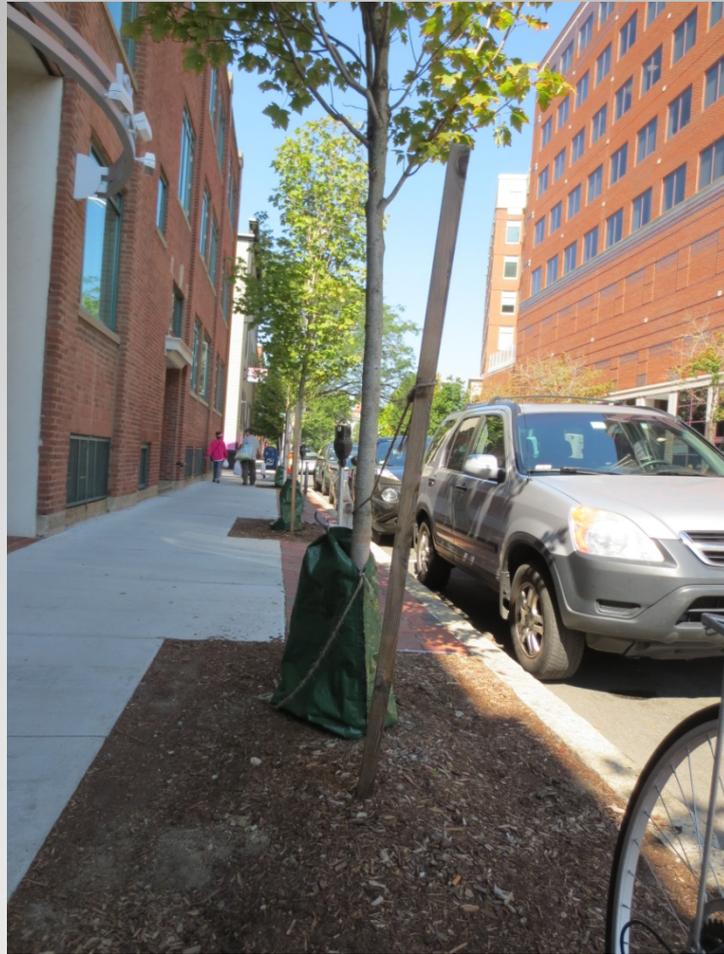


FIGURE 8



FIGURE 9

Pre-Existing



Constructed



FIGURE 10

Pre-Existing

Constructed



FIGURE 11



FIGURE 12



FIGURE 13



FIGURE 14

Pre-Existing



Constructed



FIGURE 15

Pre-Existing



Constructed



FIGURE 16

