

# Green Infrastructure Project Completion Report

## Project C-38: OnCenter Surface Lot

DATE: January 2012

Contractor: Economy Paving

Presented herein for the noted site is a summary of issues/features related to the design and construction of the project, its current status and project metrics.

### Item #1: Stormwater Details and Specifications

- 1A. Porous Asphalt Locations.** At the OnCenter Parking Lot, porous asphalt was located around the perimeter of the parking lot to promote capture from runoff from the interior of the parking lot. However, shortly after installing new pavement and reopening the parking lot, it was discovered that two tractor trailers were parked on top of the porous asphalt. This caused minor damage (depressions) to the porous asphalt. OnCenter personnel relocated the tractor trailers once the issue was brought to their attention.

**Further Action Needed:** Property owners will be more thoroughly educated on use limitations in the time immediately after porous pavement installation to prevent damage from occurring.

### Item #2: Unforeseen Conditions

- 2A. Asphalt Thickness.** During excavation, it was determined that existing asphalt thickness (specified to be milled to a depth of 2" and repaved) was only 2" as opposed to 4" thick (as boring logs indicated), preventing milling from occurring. To achieve the specified finish asphalt thickness of 3.5" it was determined that the full thickness of existing asphalt would first be milled in place, and millings used to uniformly regrade the entire lot. A 2" binder course and 1.5" top course were subsequently installed. A change order to the contractor's contract has been processed. Additional costs of the full depth asphalt replacement are to be covered out of the OC Facilities Management budget.

**Further Action Needed:** Future subsurface borings will conduct standard split spoon characterization at 1" depth intervals for the first 2-feet below grade to more precisely characterize pavement and subbase thicknesses.

### Item #3: Trees and Plantings

- 3A. Trees and Plantings.** No trees or landscaping plantings were installed in 2011 due to the specified planting date restrictions.

**Further Action Needed:** All plantings will occur in spring 2012 during the specified planting season.

- 3B. Planting Strip between Surface Lot and Parking Garage.** After construction of the parking lot and installation of associated lighting (by OC Facilities Management), it was decided that the 6 foot strip between the parking garage and surface lot would be planted with various vegetation types. The purpose of these plantings is to mitigate traffic across the median, as well as capture some areas of parking impervious not tributary to the porous asphalt.

**Further Action Needed:** As of the date of this report, the planting scheme is being finalized and a quote for the extra work will be obtained from the contractor in 2012. Plantings will occur in 2012 during the specified planting season.

---

## Item #4: Coordination with Other Entities

- 4A. Synapse Risk Management.** Prior to construction, coordination with Synapse Risk Management for the installation of electrical car charging station occurred. However, just prior to construction commencing, it was discovered that the car charging stations were to be located in the same locations as the handicap parking spaces. This conflict was resolved and the car charging stations were relocated to the northern edge of the parking lot with only minimal delay.
- 4B. OC Facilities Management.** Just prior to construction beginning OC Facilities Management developed a plan for installing new light fixtures around the OnCenter Parking Lot. The original plan conflicted with the stormwater plan and revisions were required. The plan was revised and the light fixtures were installed with minimal delay to the project as whole.

**Further Action Needed:** For future projects on Onondaga County property (or property managed by OC Facilities Management), additional work to be completed by OC Facilities Management will be brought to CH2M HILL's attention during the design phase of the work to properly plan for the work prior to construction starting.

## Item #5: Topographic Survey

- 5A. Topographic Survey during Winter Months.** The topographic survey for the OnCenter Parking Lot was completed during the winter of 2010/2011 when parts of the parking lot were being used as snow storage areas. As a result, some details of the existing site conditions were not surveyed.

**Further Action Needed:** For all future surveys completed during winter months while snow or snow storage piles are present, the surveyor will be asked to return to the site when all snow has melted to ensure that no details were missed in the original survey.

## Item #6: Parking Lot Details

- 6A. Parking Lot Striping Plans.** A new parking lot striping plan was not developed for the OnCenter Parking Lot. Following the installation of new pavement, it was determined that the previous parking lot striping (which was to be matched in the new parking lot) did not meet ADA and MUTCD standards. The parking lot striping plan was revised to meet standards and as a result, some parking spaces were lost.

**Further Action Needed:** For future parking lot projects, the existing parking lot striping will be reviewed for compliance with ADA and MUTCD standards. In the event the existing striping does not meet standards, a new parking lot striping plan will be developed and submitted to the Owner for review and concurrence.

- 6B. Handicap Parking Space Signs.** It was determined during construction that handicap parking spaces require not only specific striping and markings, but also a handicap parking space sign. Signs will be installed in the OnCenter Parking Lot.

**Further Action Needed:** For handicap parking spaces in parking lots and on green streets, handicap parking space signs will be specified in the Contract Documents.

## Item #7: Public Outreach

- 7A. Save the Rain Website.** The primary public outreach method for this project was the Save the Rain website. The project plans and specifications, and fact sheet were uploaded to the website to inform the public of the project and what was taking place.

**Further Action Needed:** The Save the Rain website will continue to act as the primary public outreach method for all of the Save the Rain green projects. However, targeted outreach will occur in more highly populated and sensitive areas to inform the public of the project.

## Project Metrics Summary

Bid Price	\$529,040
Change Order Total (as of 12/31/11)	\$149,778.39*
Total Project Cost (as of 12/31/11)	\$529,040
Total CSO Reduction	1,676,000 gallons
Cost per CSO Reduction	\$0.32 per gallon

\*Asphalt Thickness Change Order to be paid for out of OC Facilities Management Budget