

Mayfield Heights Green Infrastructure Demonstration & Showcase Projects

Project Goal: Utilize City Hall to demonstrate the use of Green Infrastructure to improve water quality, reduce runoff through infiltration into native soils and vegetation, decrease the number of inflow/infiltration occurrences, lessen basement flooding, improve air quality and provide carbon sequestration, reduce pollution & particulates, create habitat, reduce downstream erosion, and enhance the desirability of mature neighborhoods and businesses.

Estimated Total Project Cost: \$221,800

Public Outreach: -Public Meetings -Interpretive Signage -Mayfield Middle School planting installation -Chagrin River and Euclid Creek Watersheds will provide educational newsletters, website recognition, residential raingarden design manuals -Field days to educate business owners, residents and public officials -City Hall “statement” of community greening



Located along the busy commercial corridor of Mayfield Road, the high visibility of green infrastructure at City Hall will showcase Mayfield Height’s initiative to become a more sustainable and environmentally responsible community.

**Raingardens
(Residential Demonstration)**



The raingardens at the front door of City Hall will be sized to capture roof runoff from disconnected downspouts the equivalent size of a typical residential roof, demonstrating the use of raingardens to enhance water quality, provide basement flood relief and beautify a neighborhood.

**Forested Parking Lot
(Commercial Demonstration)**



A forested parking lot contains shade tree bumper islands, permeable concrete strips, and bioswale end islands, functioning as the canopy, understory and soil/duff layers of a mature forest to capture rainfall & parking lot runoff, create habitat, provide carbon sequestration and reduce the urban heat island effect.

**Permeable Parking
(Public Demonstration)**



Permeable concrete parking bays will replace impervious asphalt to infiltrate road and parking lot runoff and capture pollutants, demonstrating how permeable pavements can be used to replace crumbling parking lanes on streets, sidewalks, and driveways.