



Clean Water. Healthy Life.

BEST PRACTICES *for* STORMWATER MANAGEMENT IN METROPOLITAN KANSAS CITY

RAIN GARDEN | PERVIOUS SURFACE

Leo G. Koehler Roof Rain Garden, 34900 E. US 40 Hwy, Grain Valley, Missouri

Goals

This project was specifically designed to manage stormwater and to be highly ornamental due to its close proximity to a County building. The rain garden assists in compensating for the impermeability of the roof of the facility while providing some filtration of pollutants.

Description

Native stone was used to build the 1,000 square foot rain garden that was planted with water tolerant native wildflowers and grasses. The roof of the building drains directly into the rain garden, with excess water flowing into the adjacent wetland. Also included in this project is a 380 square foot area surrounding the building's three flag poles, that was loosely covered with flagstone and native limestone boulders, then planted with drought resistant native plants.

Community Benefits & Lessons Learned

Because the public does not often visit this facility, the main benefits are infiltration and stormwater management. This project provides a good example of innovative rain garden design.

Many of the native grasses make equally handsome ornaments in the winter as well as summer. This is a good example of uncompromising landscaping also serving an environmental purpose.

Funding Sources and Partnerships

This project was funded and completed in house by Jackson County with direction from Tetra Tech EM Inc.

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Construction of the roof drained rain garden.



Ornamental planting of natives maintains a landscape aesthetic next to the building.



The flagstones provide a more pervious surface to improve infiltration of stormwater.