



Stormwater Management Map. Map Data Source: Iowa Department of Natural Resources, "Natural Resources Geographic Information Systems Library," accessed January 2016, <https://programs.iowadnr.gov/nrgislibx/>.

Stormwater Management Enhancements

The stormwater management map highlights the proposed locations for stormwater Best Management Practices (BMP's) throughout University Heights. These areas were selected based on a cursory site review, as well as the review of information provided by community members and background information compiled by Iowa State University and summarized on boards 2 through 4.

A variety of BMPs can be implemented for stormwater management. Several options for areas within the public right-of-way are presented on this board and boards 11 and 18. In addition to bioswales and stormwater planters, another option is to replace mowed turfgrass with native prairie or pollinator strips. The deep roots of native prairie plants help with stormwater infiltration while improving the habitat. Photo edit 12 shows this concept.



Koser existing conditions.

Koser Avenue Bioswale

Residents identified Koser Avenue as a main safety concern due to the speed of vehicular traffic, as well as water pooling in the roadways and/or on sidewalks. To "calm traffic" and improve the drainage along Koser Avenue, bump-outs that integrate bioswales are proposed. Photo edit 10 illustrates this concept. The benefit of this option is that stormwater can be managed while the bump-outs function as a traffic calming element.

Another option is to implement bioswales in the existing area between the sidewalk and roadway curb as illustrated in photo edit 11. This option is not as effective in traffic calming or stormwater management. Plant selection for both options includes low-growing, salt tolerant plants that can withstand both wet and dry conditions. Bioswales can be utilized along other streets in the community.



Conceptual photo edit: 10.



Conceptual photo edit: 11.



Existing image Emerald Street.



Conceptual photo edit: 12.

University Heights

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Iowa Department of Transportation Trees Forever ISU Landscape Architecture Extension ISU Extension Community and Economic Development



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