

ECO-STREET

PILOT STUDY

Intersection-Focused Stormwater Micro-Shed

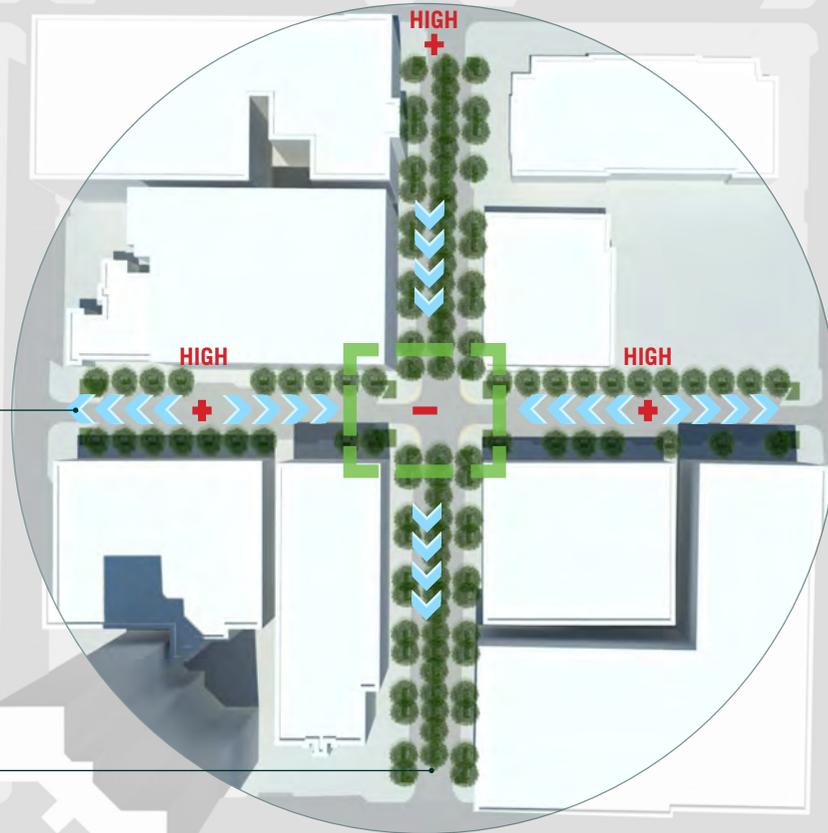
Like most urban street networks, Peoria's utilizes the intersections as the collection point for flow traveling along the curb lines.

EAST & WEST

East & west streets have a high point at mid-block with half-street length collection at intersections.

NORTH & SOUTH

North & south streets flow south with one full street length collection at intersections.



FULTON ST.

MAIN ST.

HAMILTON BLVD.

MONROE ST.

MADISON ST.

JEFFERSON ST.

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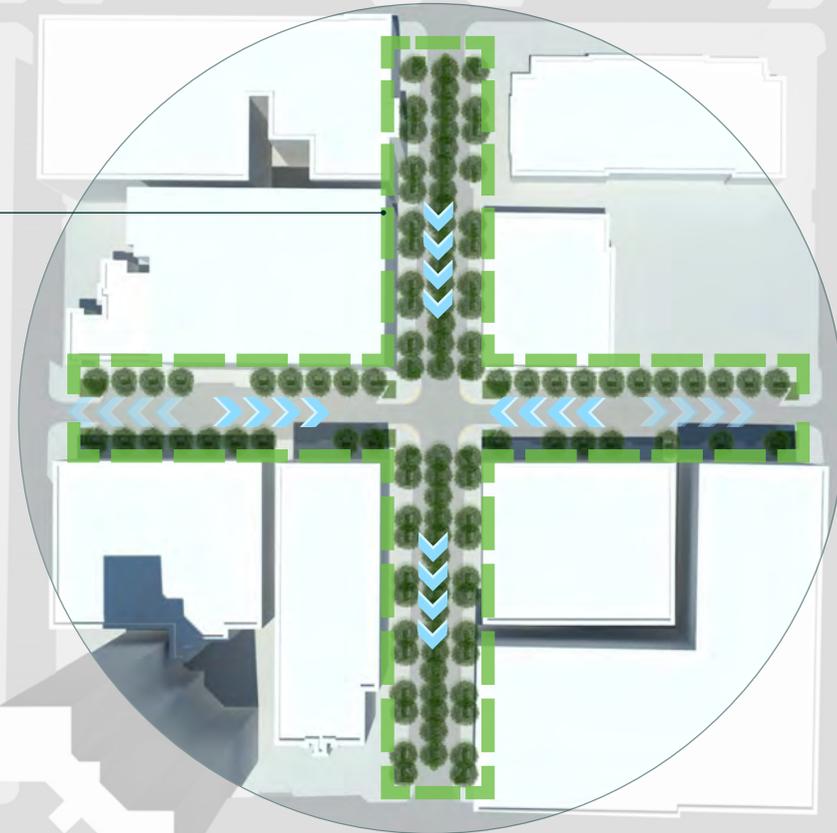
This collection paradigm defines a stormwater microshed that is intersection-focused.

[Stormwater Micro-Shed]

The area contributing runoff to a single intersection - **154,000** sf

[Water Collection Comparison]

10 Year Storm: **4.32** in/ 24 hr.
404,000 gallons
54,000 cubic feet
25 swimming pools



MONROE ST.

MADISON ST.

JEFFERSON ST.

FULTON ST.

MAIN ST.

HAMILTON BLVD.

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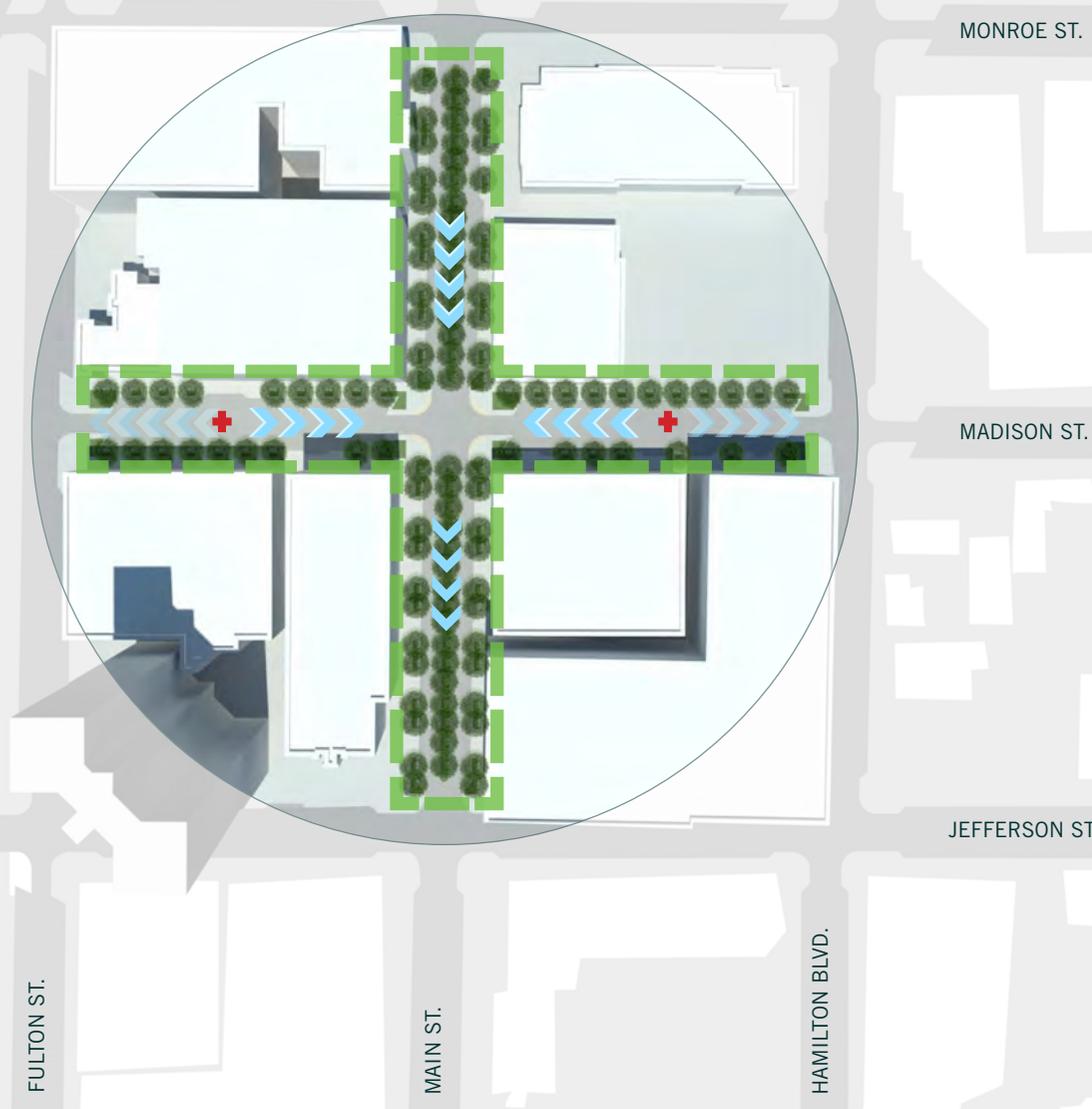
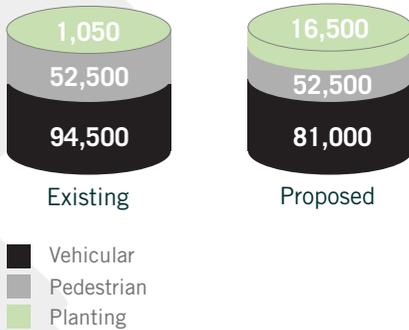
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Area Conversion

The proposed design reduces vehicular area and converts it to planting, leaving pedestrian areas more or less unchanged.

Area of Use Comparison

for **150,000** sf Stormwater Microshed



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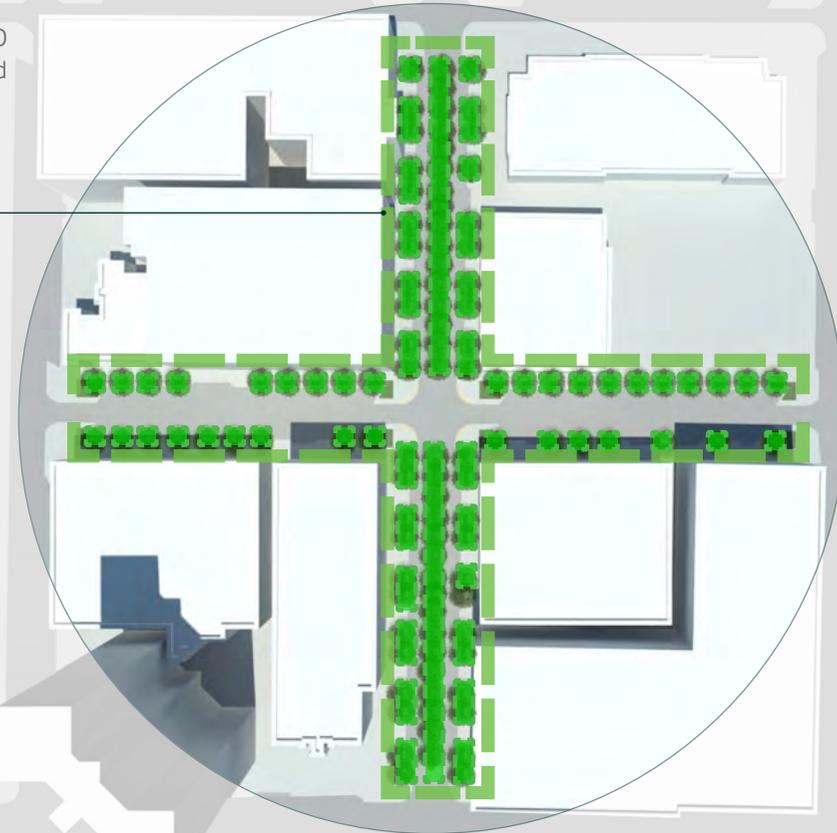
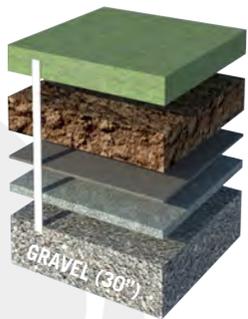
Intersection-Focused Stormwater Microshed

[Zero-Discharge Streets]

The proposed design allows for full infiltration of the CSO design storm (the 10 year storm) which can be accomplished in a number of alternative ways.

[Bio-Retention System]

Infiltrate entire microshed at all landscape elements; gravel layer = 2.5 feet deep over area of all landscape elements.



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