



**CSO LTCP
Green Infrastructure
Project Fact Sheet**



LTCP Project Number: L_OR_MF_189_S_12_A

Project Name: I-264 Off-Ramp Dry Well

Project Type: Dry well

Receiving Stream: Ohio River

Project Description: Project includes 1 dry well, at 20' deep, located within the interstate interchange open space.

- Design Parameters / Assumptions:**
- Approximately 261,400 sq ft, including 13,000 sq ft of roadway, and remaining green space within the interchange, drain to the dry well.
 - The interchange will be used for detention.
 - The project cost does not include the detention requirements.
 - Depth of dry well is 20 feet.
 - Diameter of dry well is 4 feet.
 - Estimated infiltration rate is 10 in/hr.
 - Each dry well costs approximately \$30,000.
 - The typical stormwater runoff reduction capacity per dry well during a typical year of rainfall is 150,000 gallons.

Surrounding Area Land Use: Project is located within the 'Vacant and Undeveloped' land between the off ramp from I-264 to Bank Street. The location is surrounded by I-264 to the east and 'Single Family Residential' to the west.

Apparent Utilities Description: No major utility conflicts

Estimated Capital Cost (2008 dollars): \$30,000

Capital Cost / Stormwater Reduction: \$0.20/gal

Overflow Points Addressed:

<u>CSO Number</u>	<u>CSO Name</u>	<u>2008 AAOV (MG/Yr)</u>	<u>Number of Overflow / Yr</u>	<u>CSO Area (Acres)</u>
CSO189	Northwestern San Div	175.79	37	1,148.70

**Integrated Overflow Abatement Plan
Vol. 2 - Final CSO Long-Term Control Plan**

Ohio River Sewershed
Solution ID # L_OR_MF_189_S_12_A
I-264 Off-Ramp Dry Well

Preliminary - for Budget Development Only

Legend

- Active CSO
- Eliminated CSO
- PS Pump Station
- WWTP
- BMP Footprint
- BMP Drainage Area
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Existing Drainage Line
- Streams
- MP Metro Parks
- CB County Boundary

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch = 200 feet
Scalable when printed on 11"x17" paper



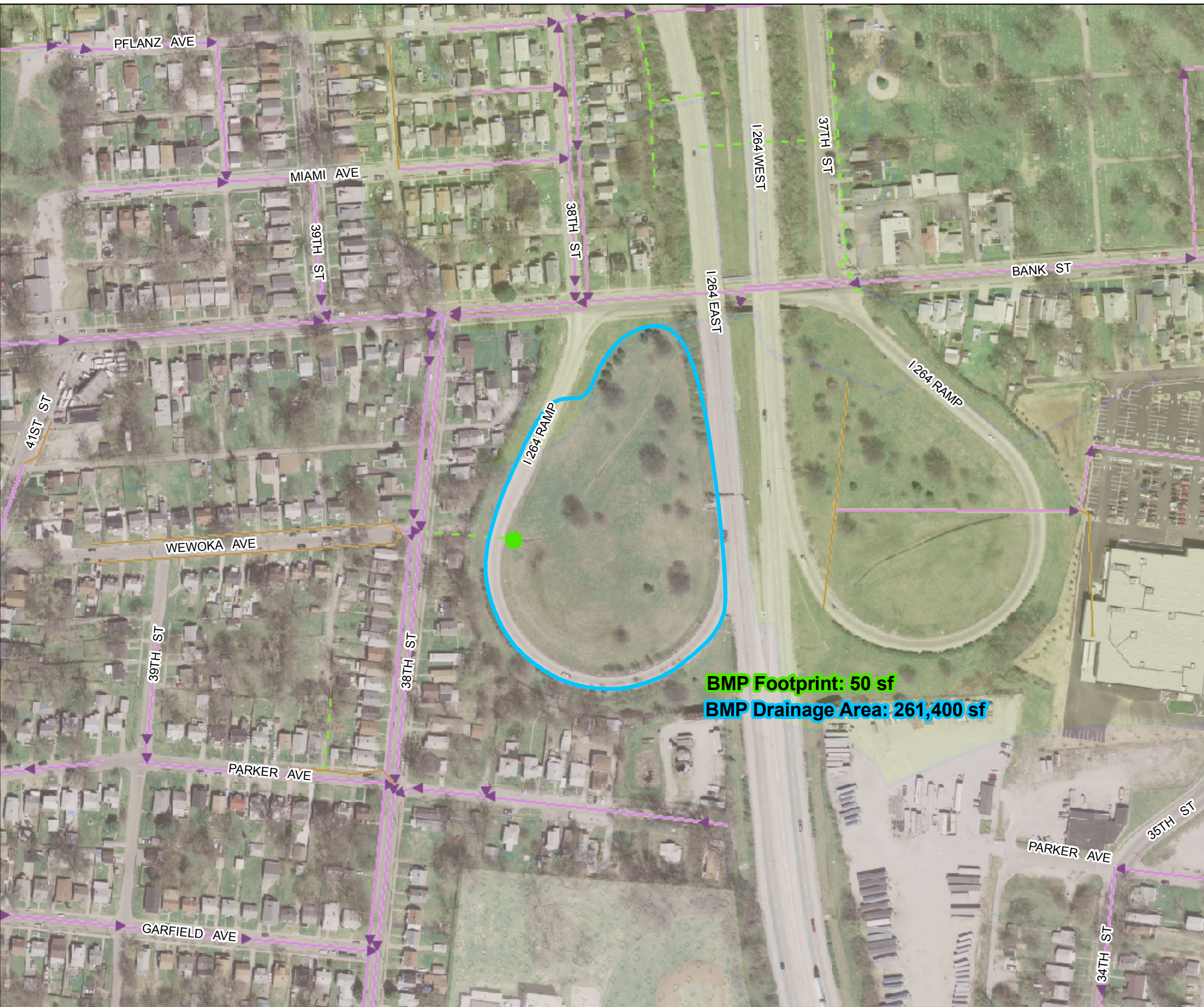
Some boundaries are uniquely symbolized within the map.

Map Revision
August 19, 2008

Aerial Date: 2006



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BMP Footprint: 50 sf
BMP Drainage Area: 261,400 sf

CSO LTCP Green Infrastructure Project Fact Sheet



LTCP Project Number: L_OR_MF_019_S_12_A

Project Name: I-264 On-Ramp Dry Well

Project Type: Dry well

Receiving Stream: Ohio River

Project Description: Project includes 1 dry well, at 20' deep, located within the interstate interchange open space.

Design Parameters / Assumptions:

- Approximately 234,000 sq ft, including 14,000 sq ft of roadway, and remaining green space within the interchange, drain to the dry well.
- The interchange will be used for detention.
- The project cost does not include the detention requirements.
- Depth of dry well is 20 feet.
- Diameter of dry well is 4 feet.
- Estimated infiltration rate is 10 in/hr.
- Each dry well costs approximately \$30,000.

The typical stormwater runoff reduction capacity per dry well during a typical year of rainfall is 150,000 gallons.

Surrounding Area Land Use:

Project is located within the 'Vacant and Undeveloped' land between the on ramp from Bank St. to I-264. The location is surrounded by I-264 to the west and 'Industrial' and 'Single Family Residential' to the east.

Apparent Utilities Description:

No major utility conflicts

Estimated Capital Cost (2008 dollars):

\$30,000

Capital Cost / Stormwater Reduction:

\$0.20/gal

Overflow Points Addressed:

<u>CSO Number</u>	<u>CSO Name</u>	<u>2008 AAOV (MG/Yr)</u>	<u>Number of Overflow / Yr</u>	<u>CSO Area (Acres)</u>
CSO019	Thirty-Fourth Street PS	297.91	60	1,094.02

**Integrated Overflow Abatement Plan
Vol. 2 - Final CSO Long-Term Control Plan**

Ohio River Sewershed
Solution ID # L_OR_MF_019_S_12_A
I-264 On-Ramp Dry Well

Preliminary - for Budget Development Only

Legend

- Active CSO
- Eliminated CSO
- PS Pump Station
- WWTP
- BMP Footprint
- BMP Drainage Area
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Existing Drainage Line
- Streams
- MP Metro Parks
- County Boundary

BMP Footprint: 10 sf
BMP Drainage Area: 234,000 sf

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overflow abatement solutions are
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Alignments and locations may be
altered during design.**

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CSO LTCP Green Infrastructure Project Fact Sheet



LTCP Project Number: L_OR_MF_191_S_12_A_A

Project Name: I-264 and Gibson Dry Well

Project Type: Dry well

Receiving Stream: Ohio River

Project Description: Project is located on the west of I-264 just south of Gibson Lane and east of the railroad and include 4 dry wells.

- Design Parameters / Assumptions:**
- Approximately 194,000 sq ft, including 78,000 sq ft of roadway, and remaining green space within the interchange, drain to the dry well.
 - The project assumes the use of 4 dry wells.
 - Depth of dry well is 20 feet.
 - Diameter of dry well is 4 feet.
 - Estimated infiltration rate is 10 in/hr.
 - Each dry well costs approximately \$30,000.
 - The typical stormwater runoff reduction capacity per dry well during a typical year of rainfall is 150,000 gallons.

Surrounding Area Land Use: Project is located within 'Vacant and Undeveloped'

Apparent Utilities Description: There are satellite towers to the west of the proposed dry well locations.

Estimated Capital Cost (2008 dollars): \$120,000

Capital Cost / Stormwater Reduction: \$0.20/gal

Overflow Points Addressed:

<u>CSO Number</u>	<u>CSO Name</u>	<u>2008 AAOV (MG/Yr)</u>	<u>Number of Overflow / Yr</u>	<u>CSO Area (Acres)</u>
CSO191	Algonquin PKWY San Div	32.42	19	339.75

**Integrated Overflow Abatement Plan
Vol. 2 - Final CSO Long-Term Control Plan**

Ohio River Sewershed
Solution ID # L_OR_MF_191_S_12_A_A
I-264 and Gibson Dry Well

Preliminary - for Budget Development Only

Legend

- Active CSO
- Eliminated CSO
- PS Pump Station
- WWTP
- BMP Footprint
- BMP Drainage Area
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Existing Drainage Line
- Streams
- MP Metro Parks
- County Boundary

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BMP Footprint: 50 sf
BMP Drainage Area: 194,000 sf

CSO LTCP Green Infrastructure Project Fact Sheet



LTCP Project Number: L_OR_MF_191_S_12_A_C

Project Name: Russell Lee Drive Dry Well

Project Type: Dry well

Receiving Stream: Ohio River

Project Description: Project includes 1 dry well, located in median along Russell Lee Drive

**Design Parameters /
Assumptions:**

- Approximately 97,500 sq ft, including 15,600 sq ft of roadway, and remaining green space within the interchange, drain to the dry well.
- Depth of dry well is 20 feet.
- Diameter of dry well is 4 feet.
- Estimated infiltration rate is 10 in/hr.
- Each dry well costs approximately \$30,000.
- The typical stormwater runoff reduction capacity per dry well during a typical year of rainfall is 150,000 gallons.

**Surrounding Area
Land Use:** Project located within 'Single Family Residential'

**Apparent Utilities
Description:** No major utility conflicts

**Estimated Capital Cost
(2008 dollars):** \$30,000

**Capital Cost / Stormwater
Reduction:** \$0.20/gal

Overflow Points Addressed:

<u>CSO Number</u>	<u>CSO Name</u>	<u>2008 AAOV (MG/Yr)</u>	<u>Number of Overflow / Yr</u>	<u>CSO Area (Acres)</u>
CSO191	Algonquin PKWY San Div	32.42	19	339.75

**Integrated Overflow Abatement Plan
Vol. 2 - Final CSO Long-Term Control Plan**

Ohio River Sewershed
Solution ID # L_OR_MF_191_S_12_A_C
Russell Lee Drive Dry Well

Preliminary - for Budget Development Only

Legend

- Active CSO
- Eliminated CSO
- PS Pump Station
- WWTP
- BMP Footprint
- BMP Drainage Area
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Existing Drainage Line
- Streams
- MP Metro Parks
- County Boundary

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BMP Footprint: 10 sf
BMP Drainage Area: 97,500 sf

CSO LTCP Green Infrastructure Project Fact Sheet



LTCP Project Number: L_OR_MF_191_S_12_A_B

Project Name: JFK Montessori Area Dry Well

Project Type: Dry well

Receiving Stream: Ohio River

Project Description: Project includes 2 dry wells near JFK Montessori elementary school, located east of I-264 at Gibson Lane.

- Design Parameters / Assumptions:**
- Approximately 165,000 sq ft, including 27,500 sq ft of roadway, and remaining green space within the interchange, drain to the dry well.
 - Project assumes the use of 2 dry wells.
 - Depth of dry well is 20 feet.
 - Diameter of dry well is 4 feet.
 - Estimated infiltration rate is 10 in/hr.
 - Each dry well costs approximately \$30,000.
 - The typical stormwater runoff reduction capacity per dry well during a typical year of rainfall is 150,000 gallons.

Surrounding Area Land Use: Project is located on 'Vacant and Undeveloped' and adjacent to 'Public and Semi-Public' and 'Single Family Residential'

Apparent Utilities Description: No major utility conflicts

Estimated Capital Cost (2008 dollars): \$60,000

Capital Cost / Stormwater Reduction: \$0.20/gal

Overflow Points Addressed:

<u>CSO Number</u>	<u>CSO Name</u>	<u>2008 AAOV (MG/Yr)</u>	<u>Number of Overflow / Yr</u>	<u>CSO Area (Acres)</u>
CSO191	Algonquin PKWY San Div	32.42	19	339.75

**Integrated Overflow Abatement Plan
Vol. 2 - Final CSO Long-Term Control Plan**

Ohio River Sewershed
Solution ID # L_OR_MF_191_S_12_A_B
JFK Montessori Area Dry Well

Preliminary - for Budget Development Only

Legend

- Active CSO
- Eliminated CSO
- PS Pump Station
- WWTP
- BMP Footprint
- BMP Drainage Area
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Existing Drainage Line
- Streams
- Metro Parks
- County Boundary

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BMP Footprint: 25 sf
BMP Drainage Area: 165,000 sf