

Riverview Pond Options

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2/20/2024

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Federal Clean Water Act



- ❑ US Environmental Protection Agency requires each state to identify water bodies that are not 'fishable or swimmable'
- ❑ Each state also needs to identify the pollutants causing the water body impairment

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Pollutants Causing Impairment



Sediment



Phosphorus

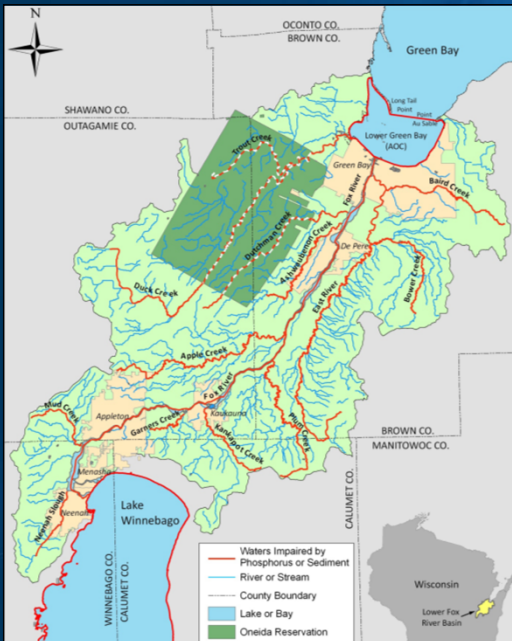
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Total Maximum Daily Load (TMDL)

- Lower Fox River Basin TMDL for phosphorus and sediment pollutants was approved by US Environmental Protection Agency on May 18, 2012



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Municipal Stormwater Permit

- ❑ Village received its initial Municipal Stormwater Permit from Wisconsin DNR in late 2006
- ❑ Wisconsin DNR renewed the Village's Municipal Stormwater Permit in 2019
- ❑ TMDL phosphorus and sediment allocations implemented thru Municipal Stormwater Permit

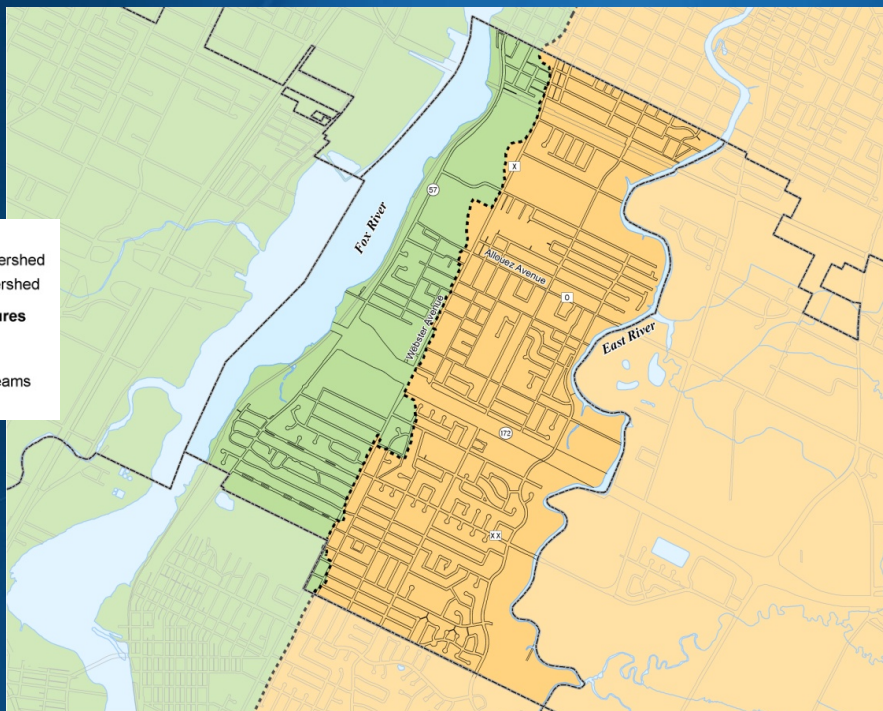


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- Watersheds**
- East River Watershed
 - Fox River Watershed
- Other Mapped Features**
- Right-of-Way
 - Parcel Line
 - Rivers and Streams
 - Surface Water



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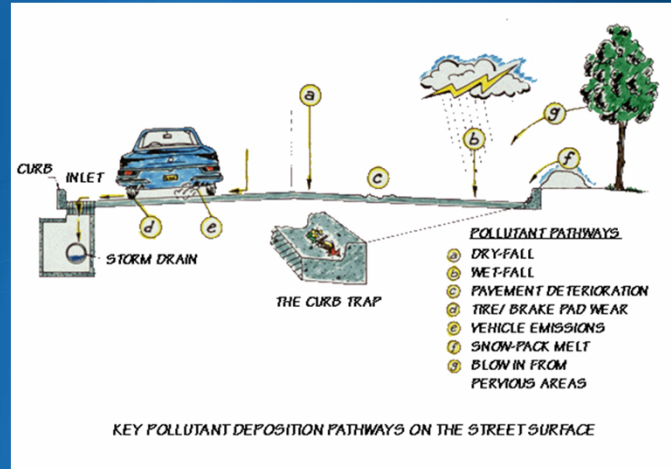
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Stormwater Pathways



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Permit Requirements

- ❑ Public Education
- ❑ Public Involvement
- ❑ Illicit Discharge Detection & Elimination
- ❑ Construction Site Pollutant Control
- ❑ Post-Construction Stormwater Management
- ❑ Municipal Pollution Prevention
- ❑ Stormwater Quality Management



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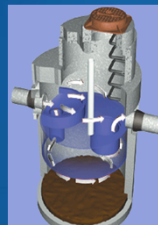
Village Wide Summary

Watershed	Acres	Required TP	Provided TP	Required TSS	Provided TSS
East River	1,929	41%	33%	52%	48%
Fox River	763	41%	25%	72%	36%

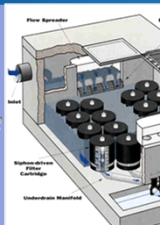
Best Management Practices



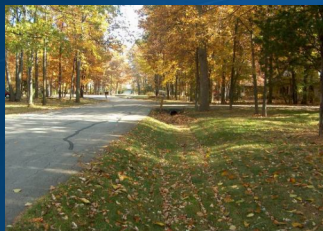
Street Sweeping



Proprietary Devices



Stream Stabilization



Grass Swales / Filters



Biofilters / Rain Gardens



Wetlands / Wet Ponds

Stormwater Quality Management - Plan of Action

Structural BMP's

- Existing BMP Watershed
- Proposed BMP Watershed
- Pond Location

Surface Drainage

- Curb and Gutter (High Efficiency Street Sweeper, Sweeping Once Per Week, Village Adopts Parking Control Ordinance)
- Curb and Gutter (Street Sweeping Twice Per Month with HE Sweeper with Parking Controls)
- Filter Strip
- Grass Swale
- No Controls
- WDNR Wetland Inventory

Other Mapped Features

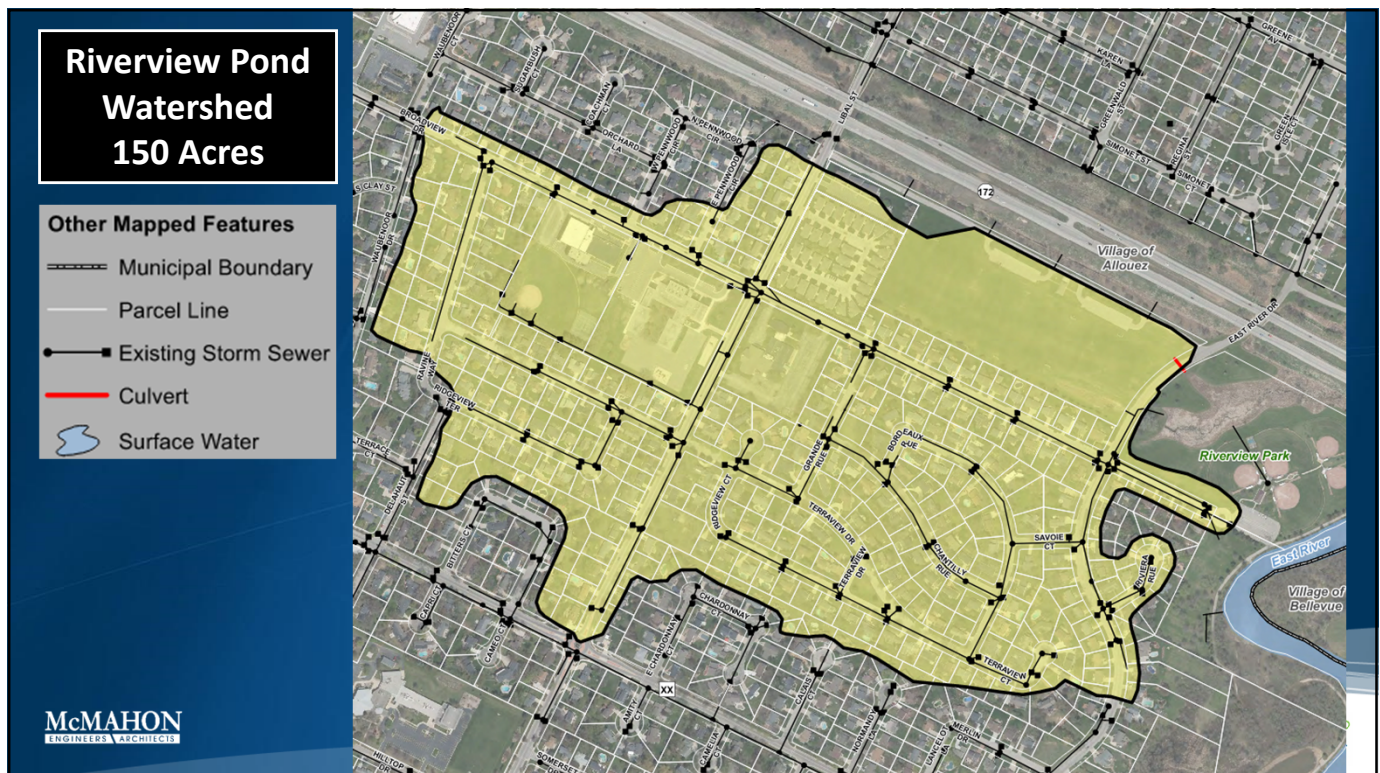
- Watershed Divide
- Municipal Boundary
- Right-of-Way
- Rivers and Streams
- Surface Water

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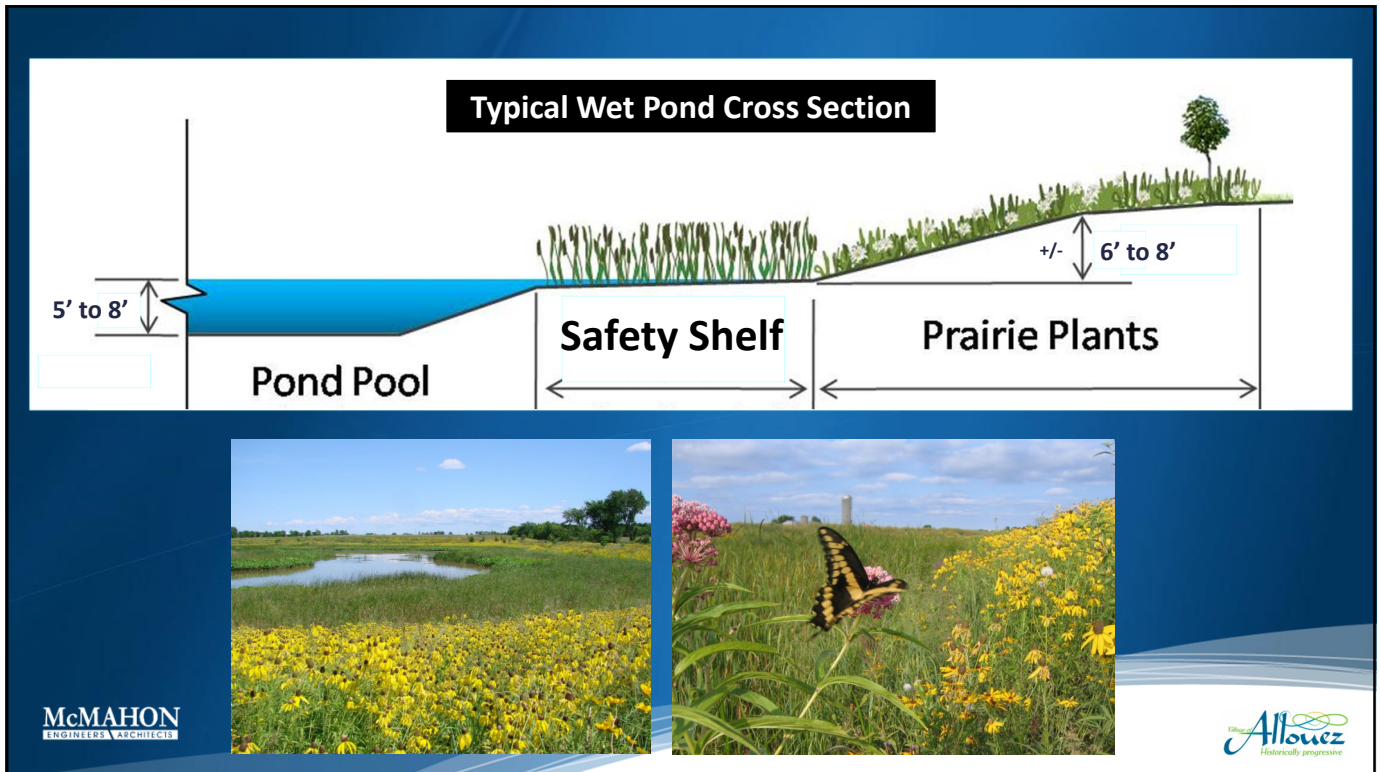
The Plan of Action is a planning document, which is subject to change based on many factors, including watershed and waterway conditions.

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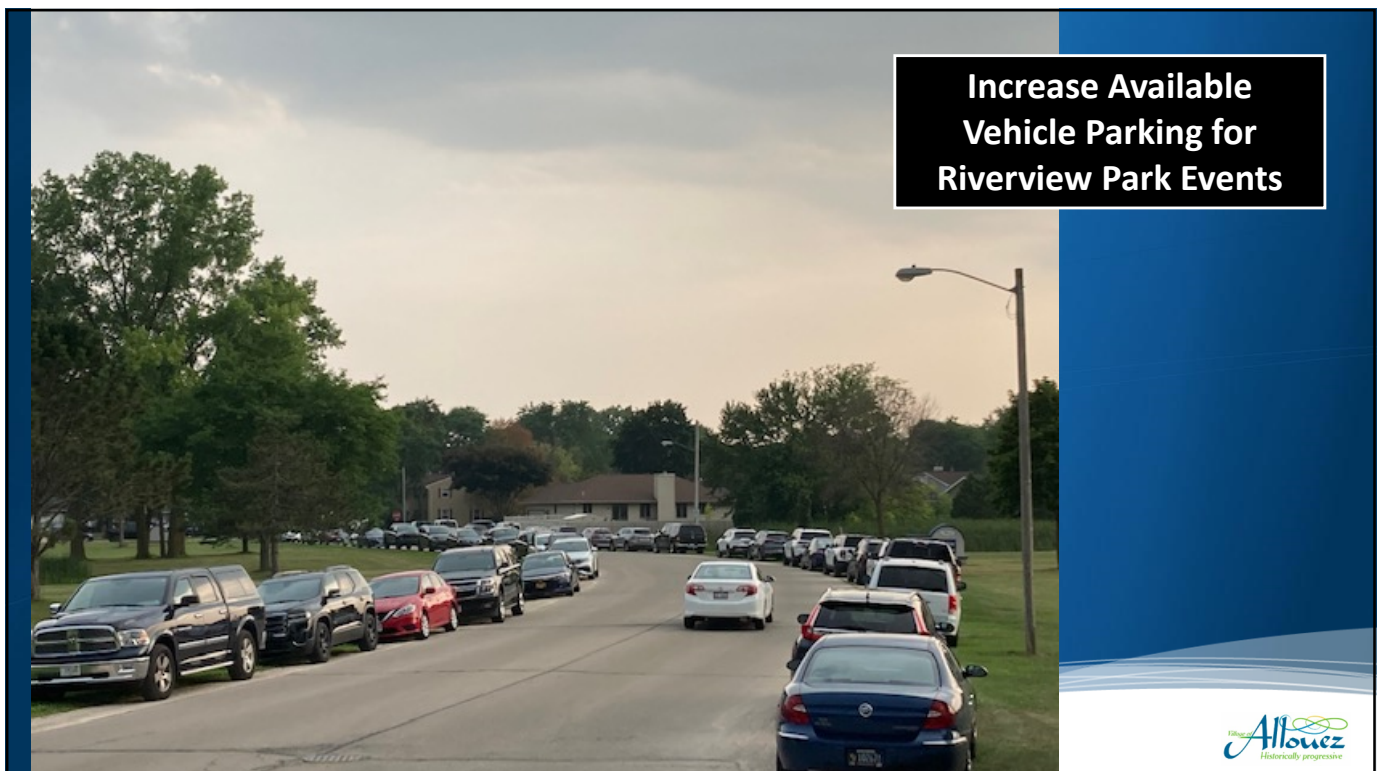
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Opinions of Probable Cost

Costs Included:

- Wet pond, storm sewer, erosion controls, riprap, and landscaping (e.g. prairie/wetlands in pond, lawn restoration).
- Baseball Diamond (only if shown to be relocated on the drawing).
- Engineering, construction contingency, and regulatory fees.
- Wetland mitigation credits (if required).

Costs Excluded:

- Streets, parking lots, trails, and sidewalks
- Retaining walls and railings
- Other park improvements

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Riverview Pond Option 1

DNR Grant \$150,000 (18%)
Village \$680,000 (82%)
Total Cost \$830,000



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Riverview Pond Option 2

DNR Grant \$150,000 (7%)
Village \$2,000,000 (93%)
Total Cost \$2,150,000

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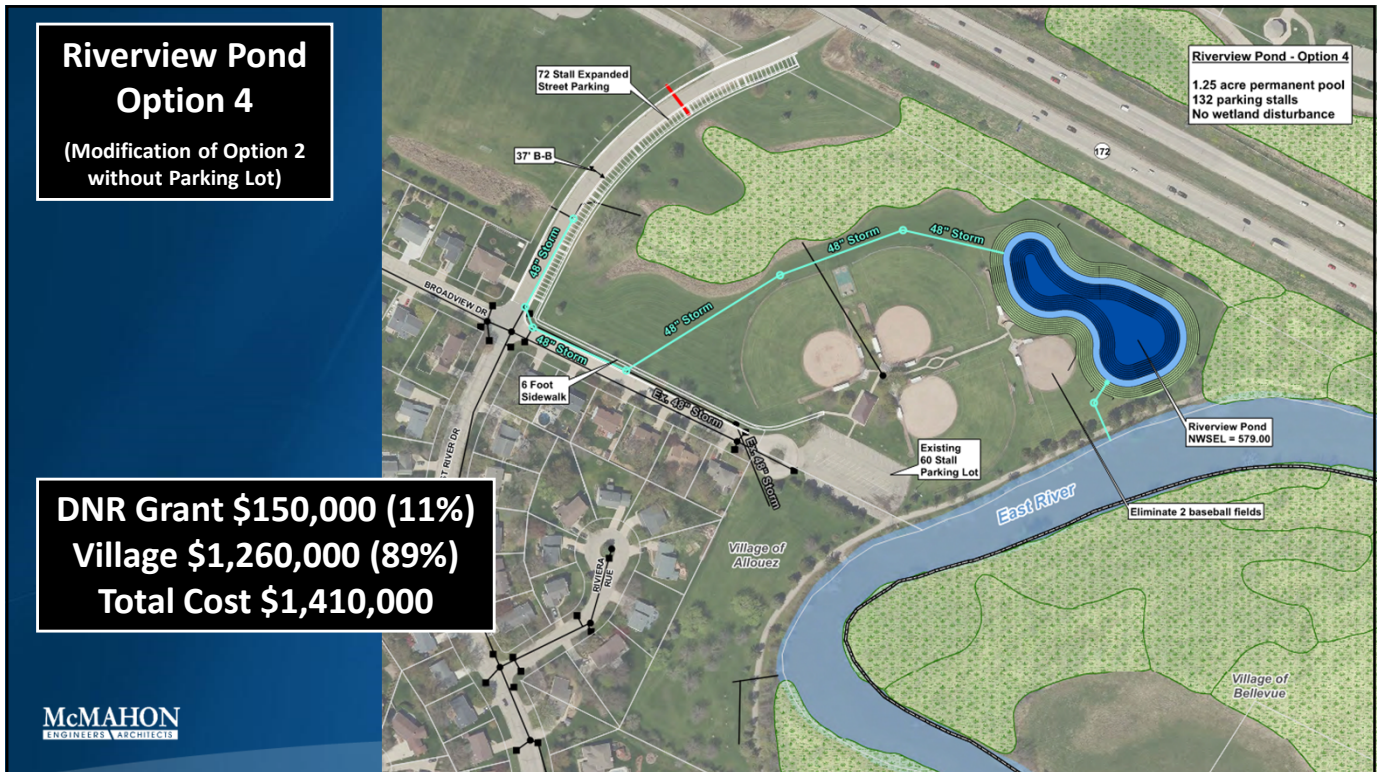
Riverview Pond Option 3

DNR Grant \$0 (0%)
Village \$1,070,000 (100%)
Total Cost \$1,070,000

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Public Comments

- ❑ Neighborhood is not in favor of a pond or parking lot placed in backyard or across from home (Options 1 and 3). In favor of Option 2 pond location.
- ❑ Softball association is not in favor of losing ball diamonds. Parking is an issue.
- ❑ Reconfigure pond in Option 2 to avoid losing both ball diamonds.
- ❑ Keep pond and need for additional parking as two separate projects.
- ❑ Look to add on-street parking before expanding parking lot.
- ❑ Review need for parking after more is known about potential YMCA project.
- ❑ Avoid and minimize wetland impacts.
- ❑ A number are concerned about pond safety, odors, and mosquitoes.

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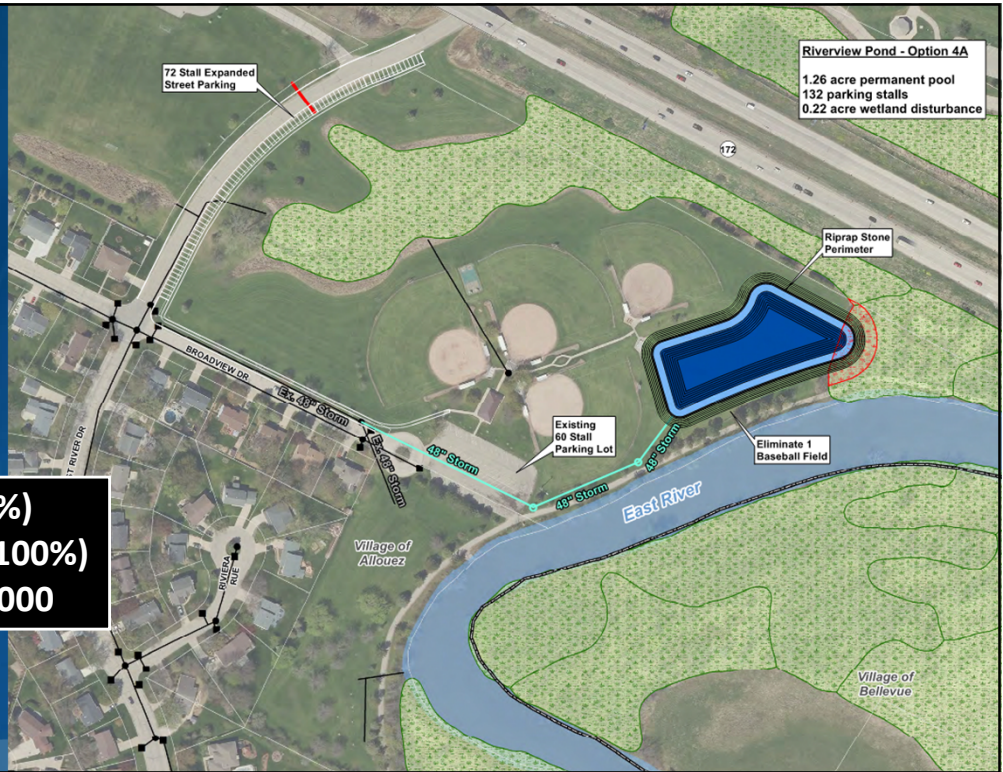
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Riverview Pond Option 4A

DNR Grant \$0 (0%)
Village \$1,390,000 (100%)
Total Cost \$1,390,000

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Riverview Pond Option 4A



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**Riprap Stone at
Pond Perimeter
(included in cost)**



**Cast in Place Concrete
Form Liner Retaining Wall
(excluded from cost)**

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Option 4A Considerations

- ❑ Limits impact to one ball diamond and works toward regulatory stormwater quality requirements for East River.
- ❑ Includes a riprap slope leading into permanent pool, which affects pond cost.
- ❑ Includes some wetland impacts (+/- 0.22 acres).
- ❑ During the December 13th 2023 meeting, the Joint Committee recommended that a modified Option 4 be prepared, with the goals of saving the north ballfield and maximizing the pond size to meet stormwater regulations.

Tentative Pond Schedule

- ❖ DNR Grant Application Due:
April 15, 2024
- ❖ Construction Start:
April 15, 2025
- ❖ Construction End:
September 15, 2025
- ❖ Prairie & Wetland Planting:
Summer and Fall, 2026



Thank You for inviting us to present today!

Questions?

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