Proposed Flow Patterns

DeCola Ponds - SEA School-Wildwood Park Flood Storage Project

LEGEND
- Project Area
- Railroad
- Subwatersheds
- Parcels
- Storm Sewer
- Existing Flow Path
- Proposed Flow Pattern
- Overflow Path (during high flow events)

Overflow from high flow events continues along road and storm sewer towards DeCola Pond E (similar to existing conditions)

Storm sewer diverts most flows to SEA School/Wildwood Park property

Increase DeCola Pond D outlet pipe

Flow reconnects to storm sewer bypassing DeCola Ponds E and F

Overflow Path (during high flow events)
Existing Conditions

DeCola Ponds - SEA School-Wildwood Park Flood Storage Project
Concept 1: Underground Storage with Stream

Estimated Cost (-20%/+30%) = $4.1 Million

Concept Summary

Additional Flood Storage Created: 9.1 acre-feet

Improved Water Quality: Additional 1.6 lbs/yr phosphorus removed

Restored Wetland and Prairie habitat: 1.7 acres total

Restored Turf Area: 1.2 acres total

Tree Removal: 45 trees total

Reduction of Flood Level on Ponds:

<table>
<thead>
<tr>
<th>DeCola Pond</th>
<th>10-yr</th>
<th>100-yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>-0.6'</td>
<td>-2.8'</td>
</tr>
<tr>
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At-Risk Flooded Structures (existing/proposed):

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<td>9/6</td>
<td>19/19</td>
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</table>

DeCola Ponds - SEA School-Wildwood Park Flood Storage Project
Concept 2: Open Water
Estimated Cost (-20% / +30%) = $2.9 Million

Concept Summary

Additional Flood Storage
Created: 8.6 acre-feet

Improved Water Quality:
Additional 1.8 lbs/yr phosphorus removed

Restored Wetland and Prairie habitat:
1.6 acres total

Restored Turf Area:
1.3 acres total

Tree Removal:
54 trees total

Reduction of Flood Level on Ponds:

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</table>
Concept 3: Wet Meadow
Estimated Cost (-20%/+30%) = $3.1 Million

Concept Summary
- Additional Flood Storage Created: 8.5 acre-feet
- Improved Water Quality: Additional 4.1 lbs/yr phosphorus removed
- Restored Wetland and Prairie habitat: 2.3 acres total
- Restored Turf Area: 0.7 acres total
- Tree Removal: 54 trees total
- Reduction of Flood Level on Ponds:
  - DeCola Pond
    - 10-yr: D - 0.6', E,F - 0.8'
    - 100-yr: D - 2.8', E,F - 0.1'
- At-Risk Flooded Structures (existing/proposed):
  - DeCola Pond
    - 10-yr: D - 0/0, E,F - 9/6
    - 100-yr: D - 10/0, E,F - 19/19

DeCola Ponds - SEA School-Wildwood Park Flood Storage Project
About the Bassett Creek Watershed Management Commission (BCWMC)

The vision: stewardship of water resources to protect and enhance our communities

About the BCWMC
- Regional government organization formed in 1969 to focus on flood control along Bassett Creek
- Operates under 1982 Metropolitan Surface Water Management Act
- Focused on providing flood management and improving and protecting the water quality of Bassett Creek and lakes/streams
- Nine member cities: Minneapolis, Golden Valley, Plymouth, Crystal, New Hope, Robbinsdale, St. Louis Park, Minnetonka, Medicine Lake
- Area: approximately 40 square miles

Commission funding
- Contributions from nine member cities (approximately $550,000 per year)
- Hennepin County tax levy for major projects (approximately $1.5 million per year)
- Grant funds and permit fees (varies)

Commission activities
- Implements capital improvement projects that reduce flooding and improve lakes, streams, and wetlands throughout the watershed
- Monitors water quality, performs studies, maps resources
- Provides water resource education
- Provides watershed-wide coordination of activities and watershed “point of contact” for all stakeholders

EXAMPLE BCWMC CIP PROJECTS
- Wirth Lake outlet
- Bassett Creek main stem restoration (before and after)

DeCola Ponds - SEA School-Wildwood Park Flood Storage Project