

Design Alternatives – Concept 1



LEGEND

- Turf
- Wood Area
- Wet Meadow
- Prairie
- Orchard Trees
- Planting Areas
- Subsurface Treatment
- Existing 1' Contour
- Proposed 1' Contour
- Proposed 5' Contour
- Existing Storm Sewer
- Proposed Storm Sewer
- Existing Footpath
- Proposed Paved Trail

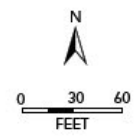


Figure 5-1

Concept Summary

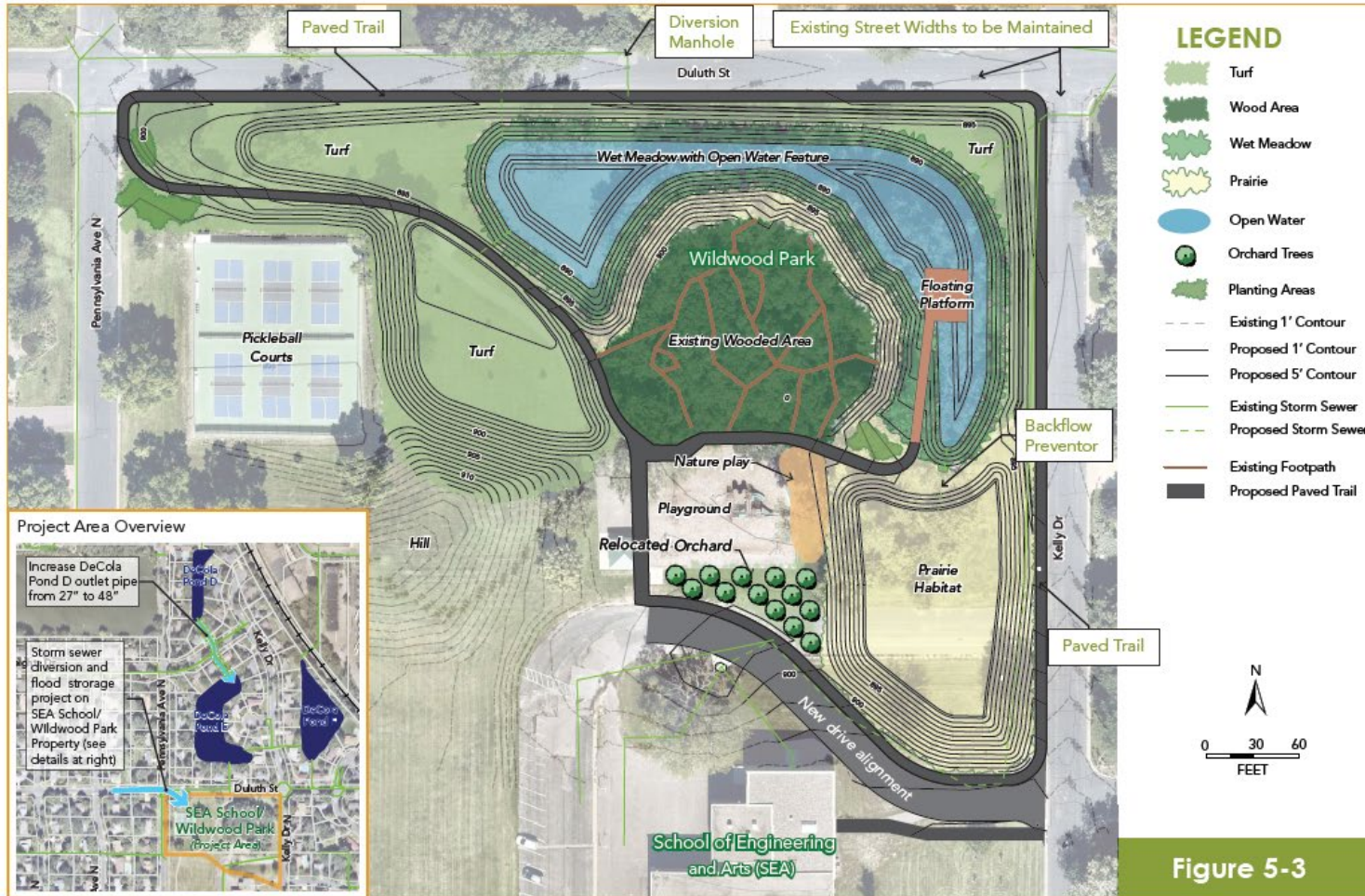
- Additional Flood Storage Created:** 9.1 acre-feet
- Improved Water Quality:** Additional 1.6 lbs/yr phosphorus removed
- Restored Wetland and Prairie habitat:** 1.7 acres total
- Restored Turf Area:** 1.2 acres total
- Tree Removal:** 45 trees total
- Reduction of Flood Level on Ponds:**

DeCola Pond	10-yr	100-yr
D	- 0.6'	- 2.8'
E,F	- 0.8'	- 0.1'

At-Risk Flooded Structures (existing/proposed):

DeCola Pond	10-yr	100-yr
D	0/0	10/0
E,F	9/6	19/19

Design Alternatives – Concept 2



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:

DeCola Pond	10-yr	100-yr
D	- 0.6'	- 2.8'
E,F	- 0.8'	- 0.1'

At-Risk Flooded Structures (existing/proposed):

DeCola Pond	10-yr	100-yr
D	0/0	10/0
E,F	9/6	19/19

Figure 5-3

Design Alternatives – Concept 3



Figure 5-4

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	100-yr
D	- 0.6'	- 2.8'
E,F	- 0.8'	- 0.1'

At-Risk Flooded Structures (existing/proposed):

DeCola Pond	10-yr	100-yr
D	0/0	10/0
E,F	9/6	19/19

*Recommended Concept