

The Soup Bowl

In the City of Lakes



Downtown

Lake Calhoun

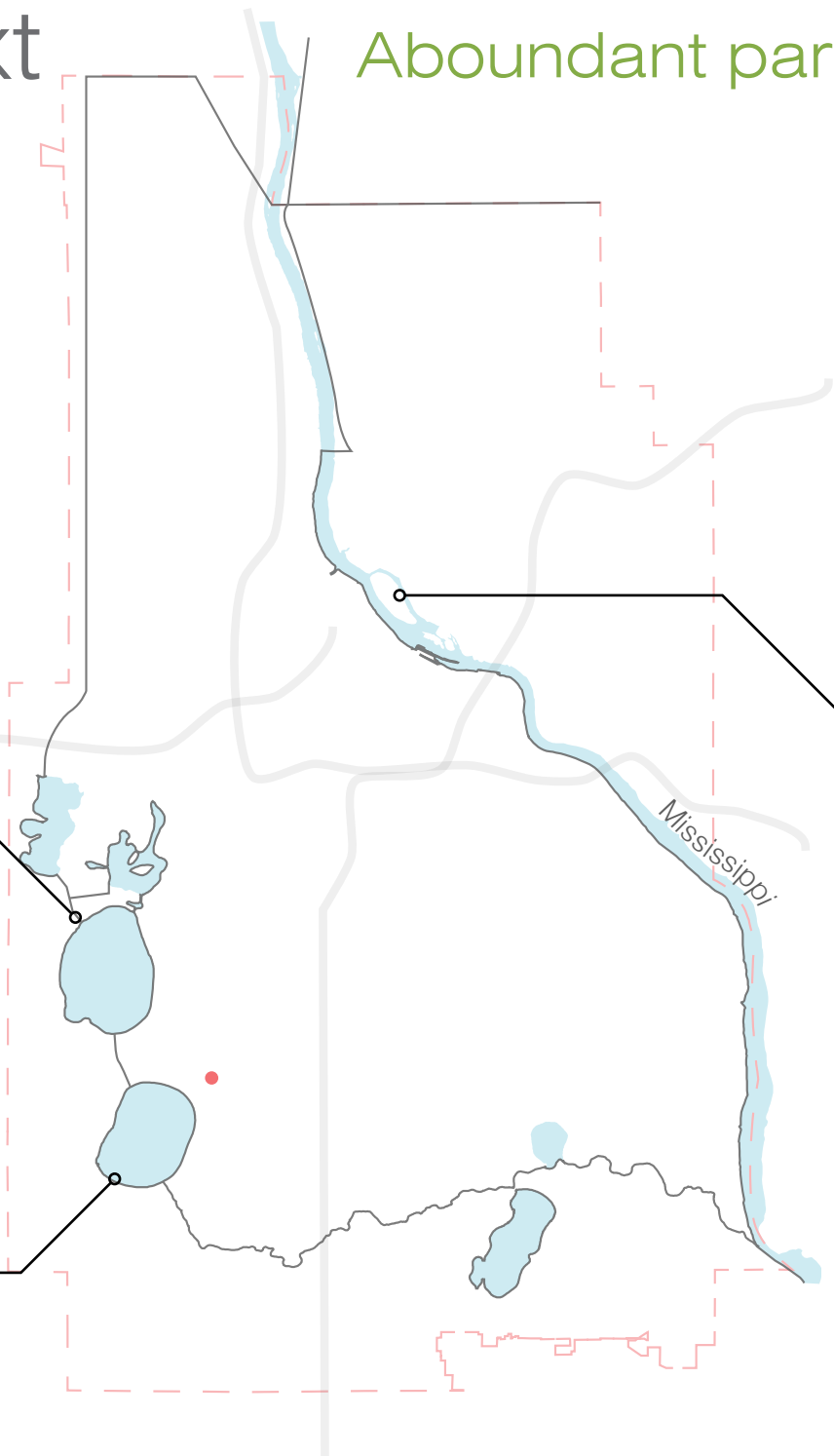
38th St.

Grand Rounds

King's Highway

City Context

Abundant parks +



- Site
- Grand Rounds
- Expressways
- Water

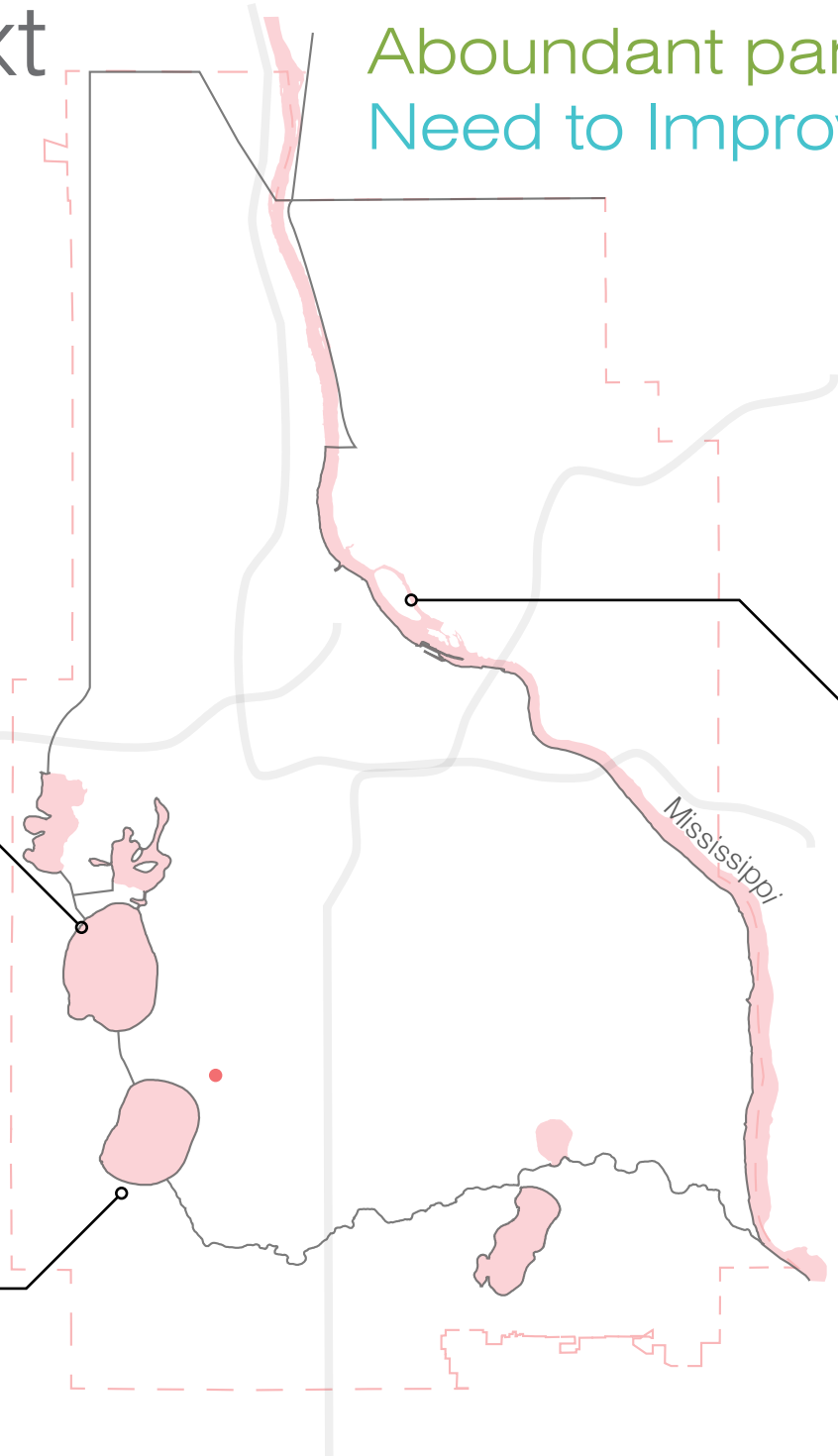






City Context

Abundant parks +
Need to Improve stormwater =

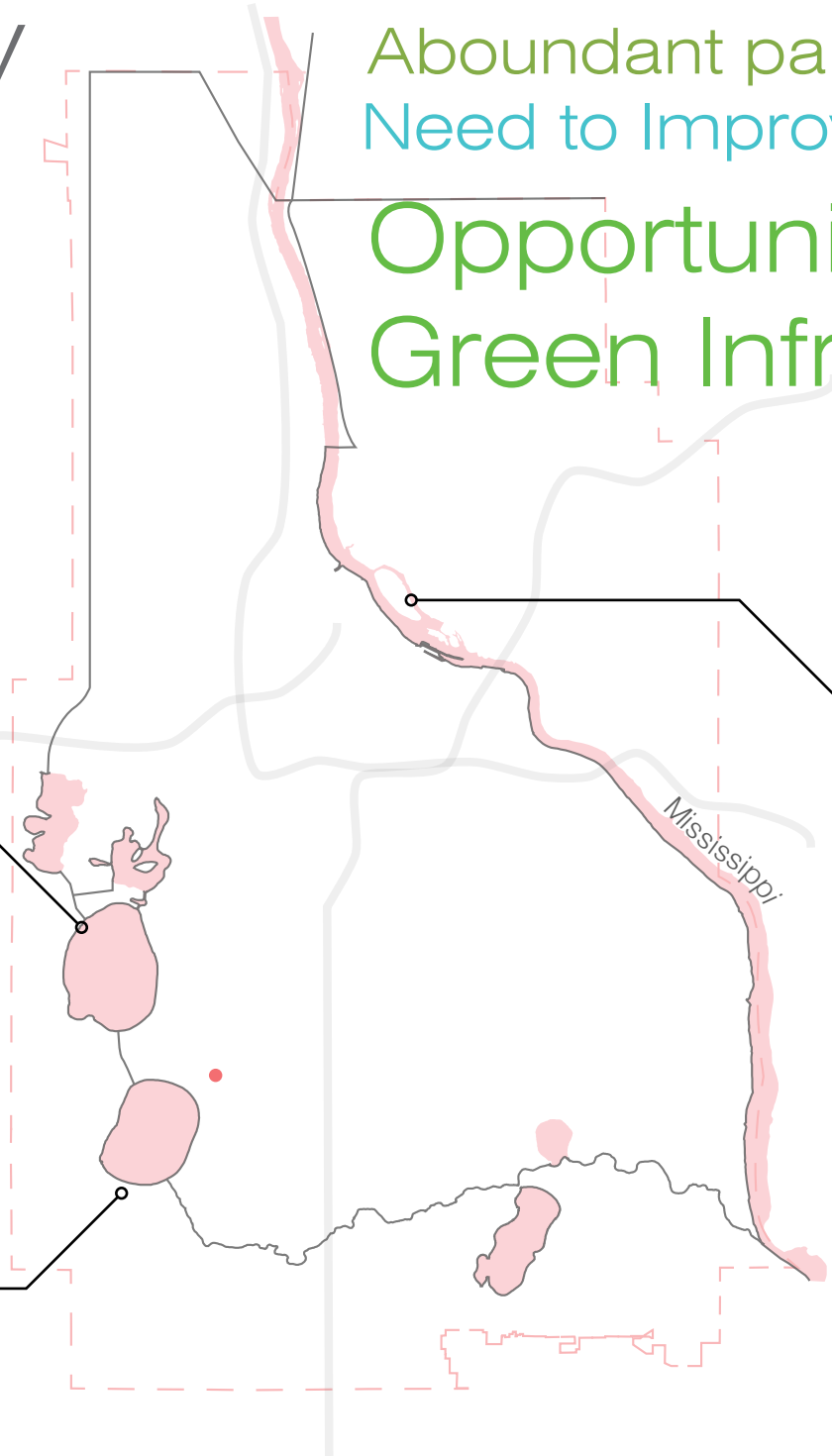


- Site
- Grand Rounds
- Expressways
- Impaired Waters

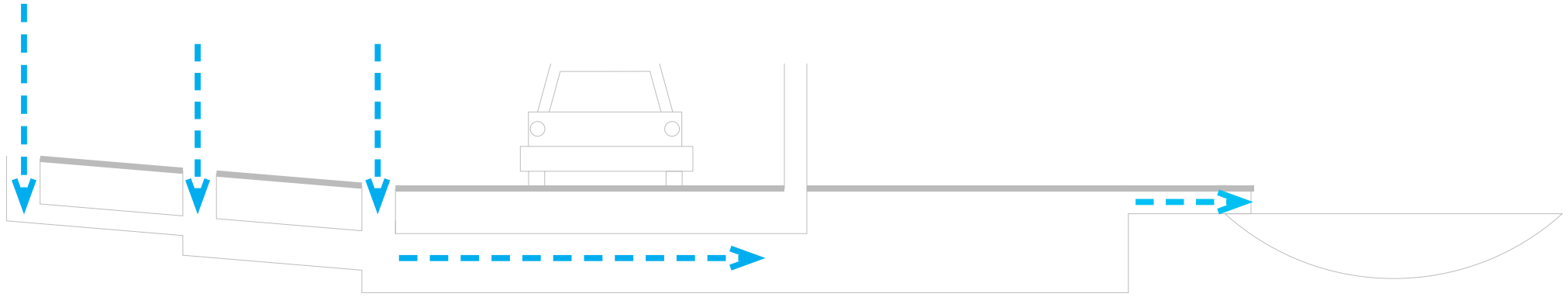
Opportunity

Abundant parks +
Need to Improve stormwater =

Opportunity for
Green Infrastructure!



- Site
- Grand Rounds
- Expressways
- Impaired Waters

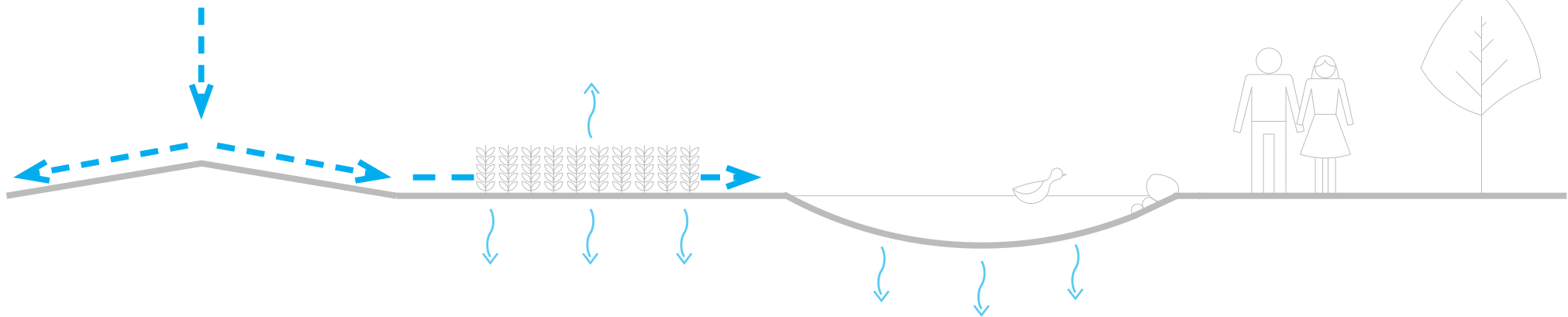


How can parks transform
stormwater from a

~~liability~~

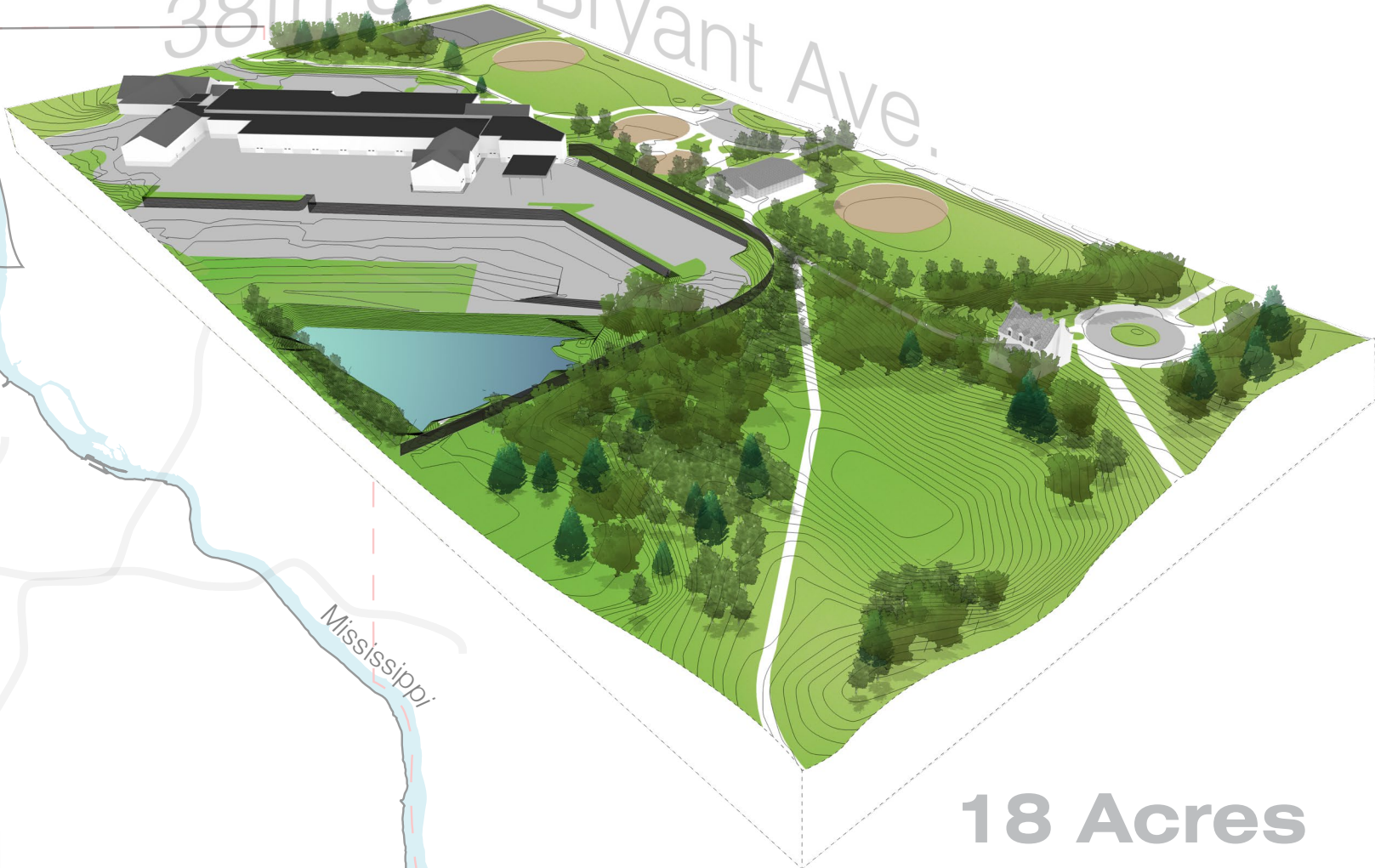
into an

amenity?

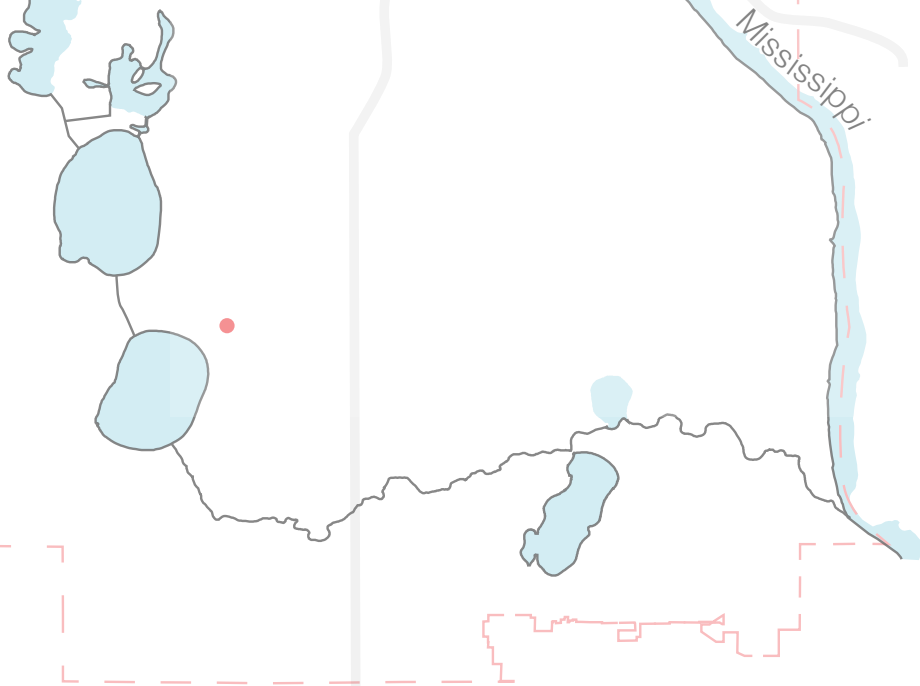


Orientation

38th St. Bryant Ave.



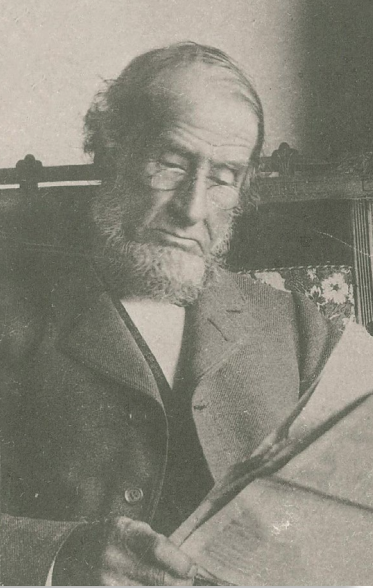
18 Acres



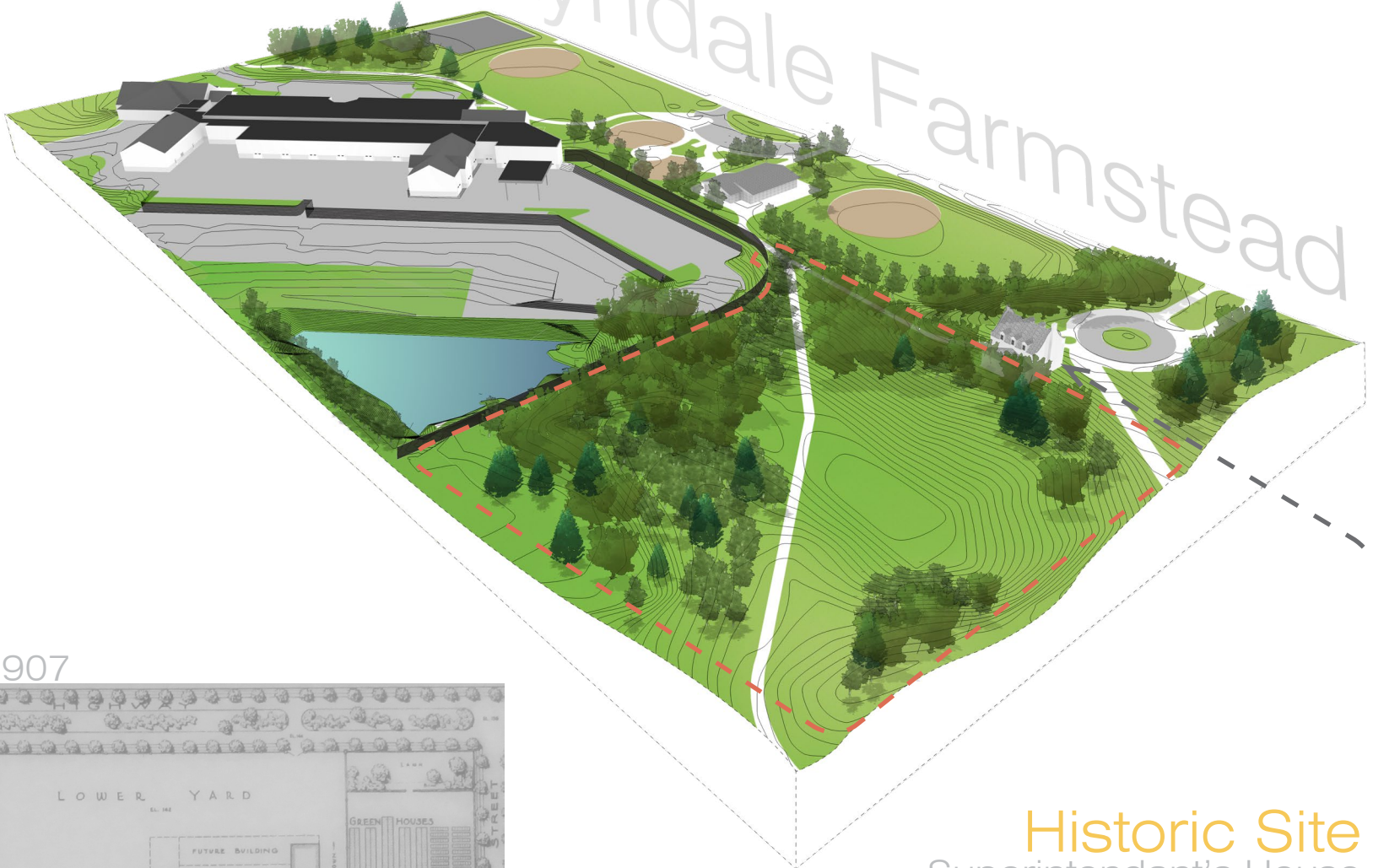
- Site
- Grand Rounds
- Expressways
- Water

History

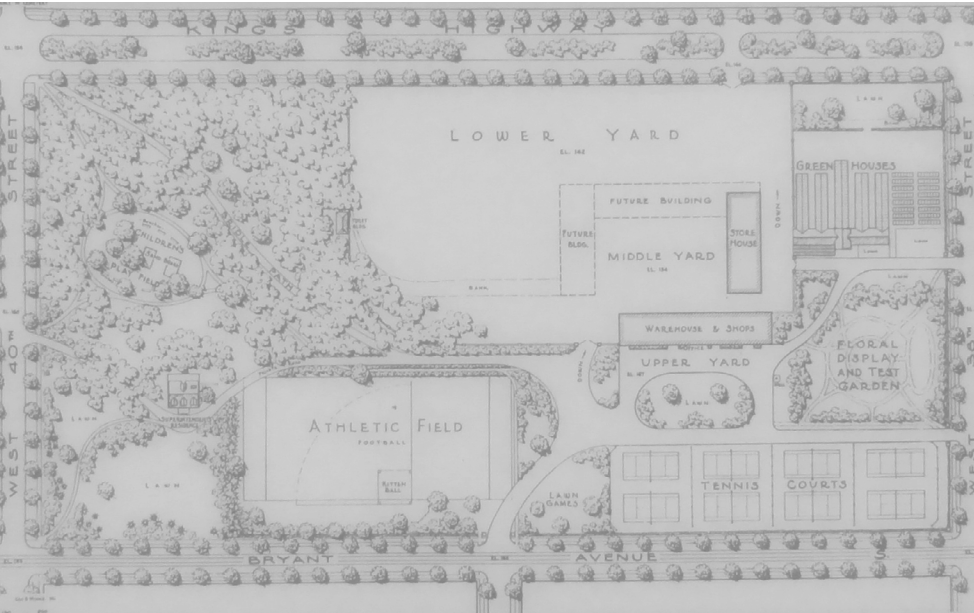
H.W.S Cleveland



Lyndale Farmstead



Wirth Site Plan - 1907



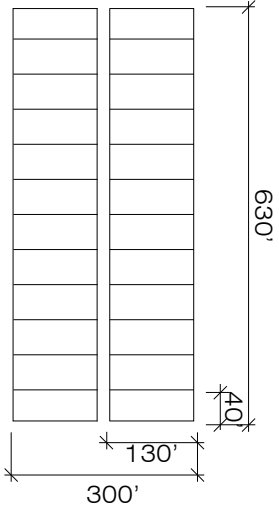
Historic Site Superintendent's House



Community



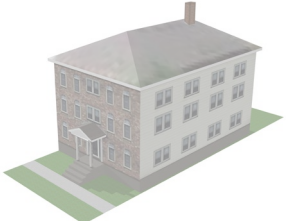
Block Dimensions:



Building Types:



House + Detached Garage



Multi-Story Apartment



Downtown

Lake Calhoun

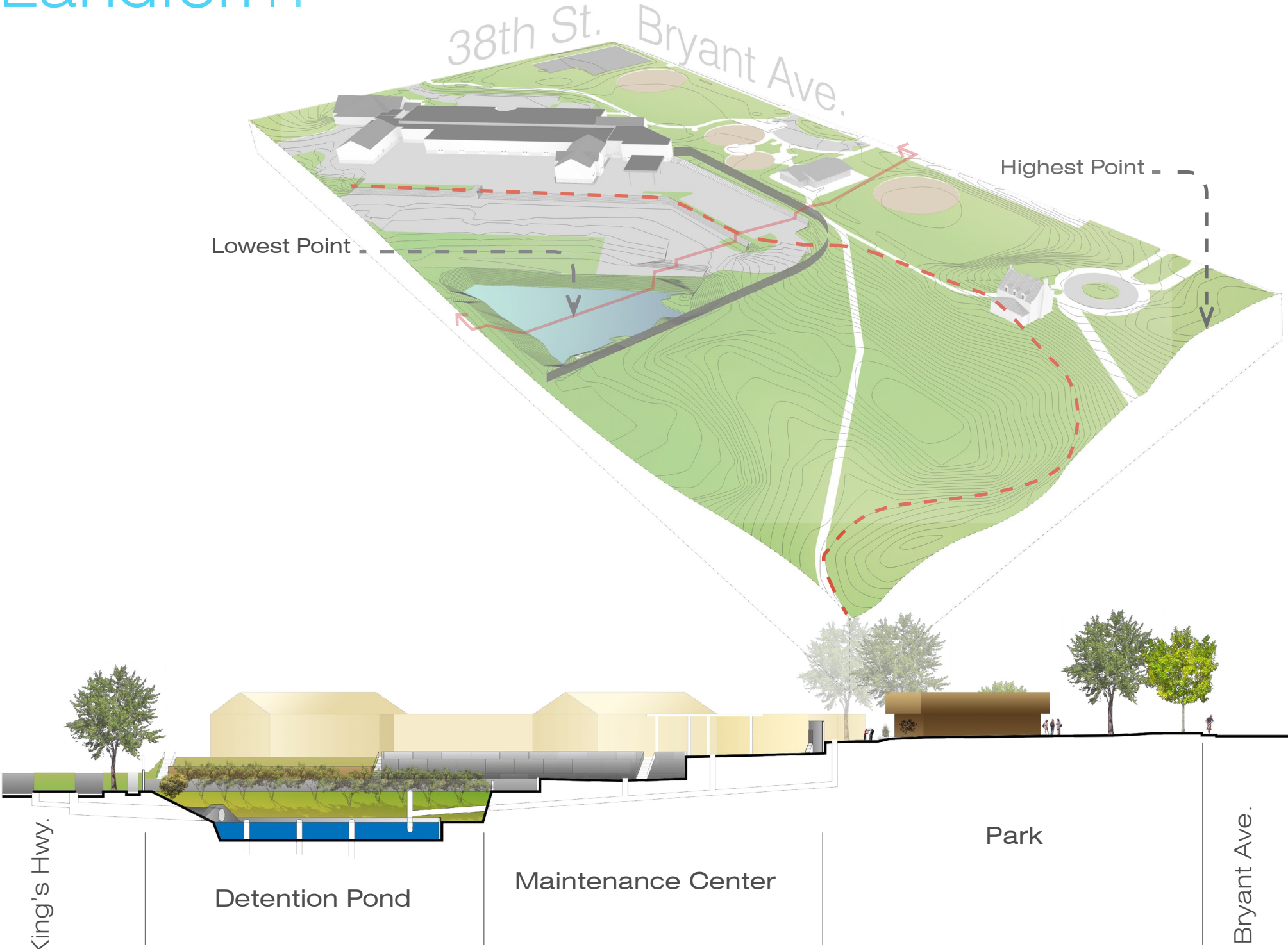
38th St.

Grand Rounds

King's Highway

Catchment

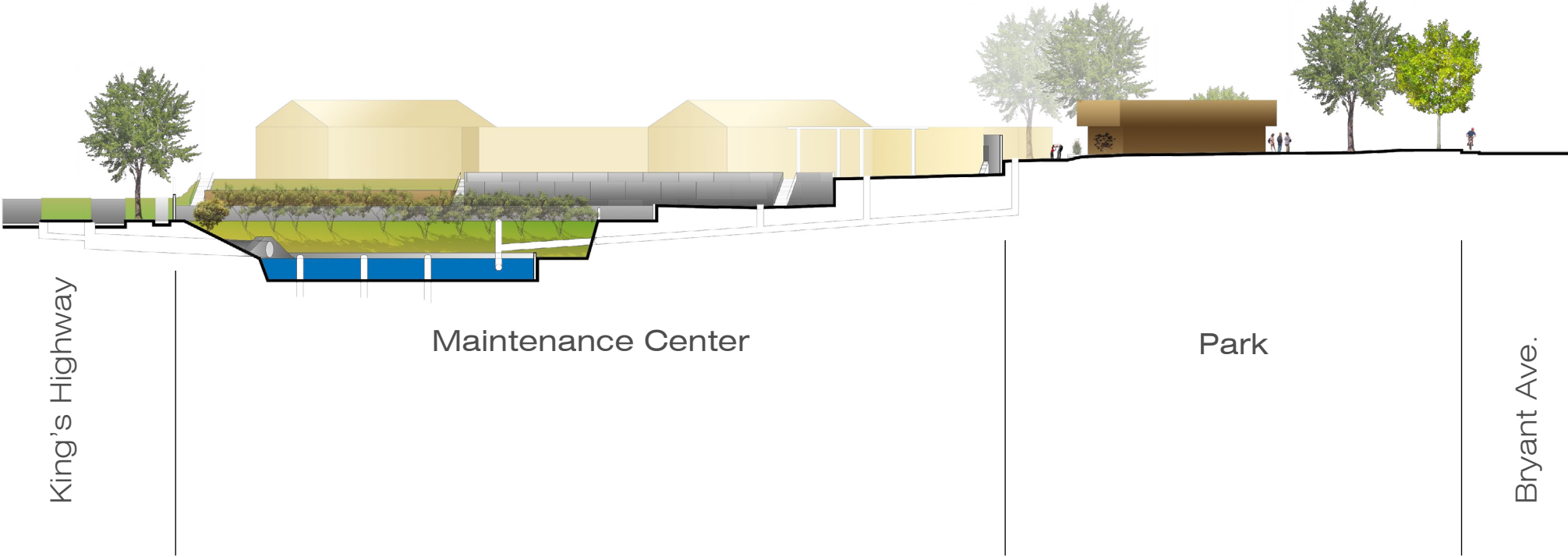
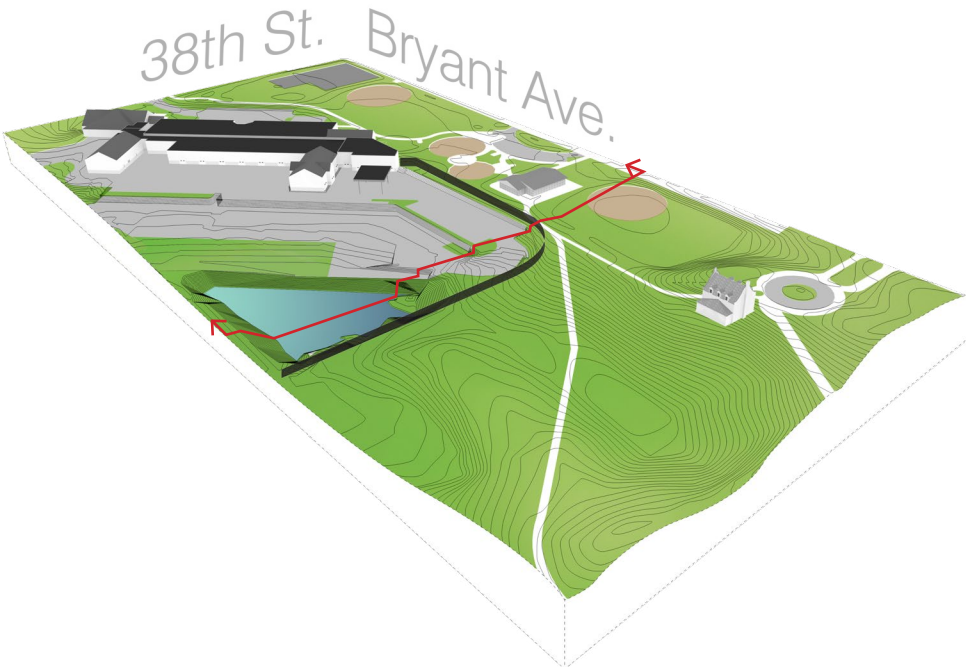
Landform



Runoff Volume

Roof - 2 acres = 12%
Asphalt - 5 acres = 31% } **42% Impervious**

Turf - 5.5 acres = 33%
Wooded - 4 acres = 24% } **68% pervious**

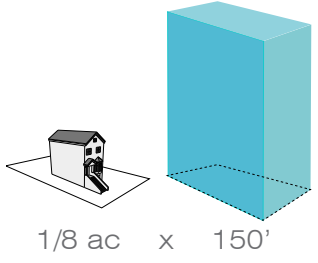


0' 5' 10' 25' 50' 100'

Runoff Volume

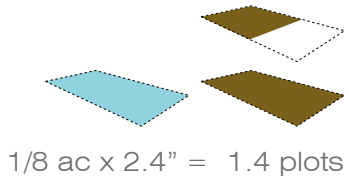
Annual [29.1 inches]

22.4 ac =



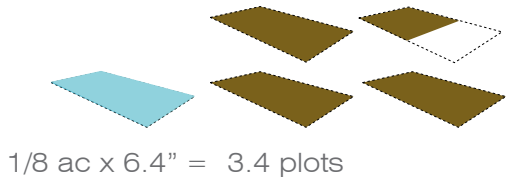
First Flush [.5 inches]

.4 ac =

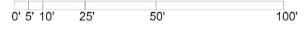
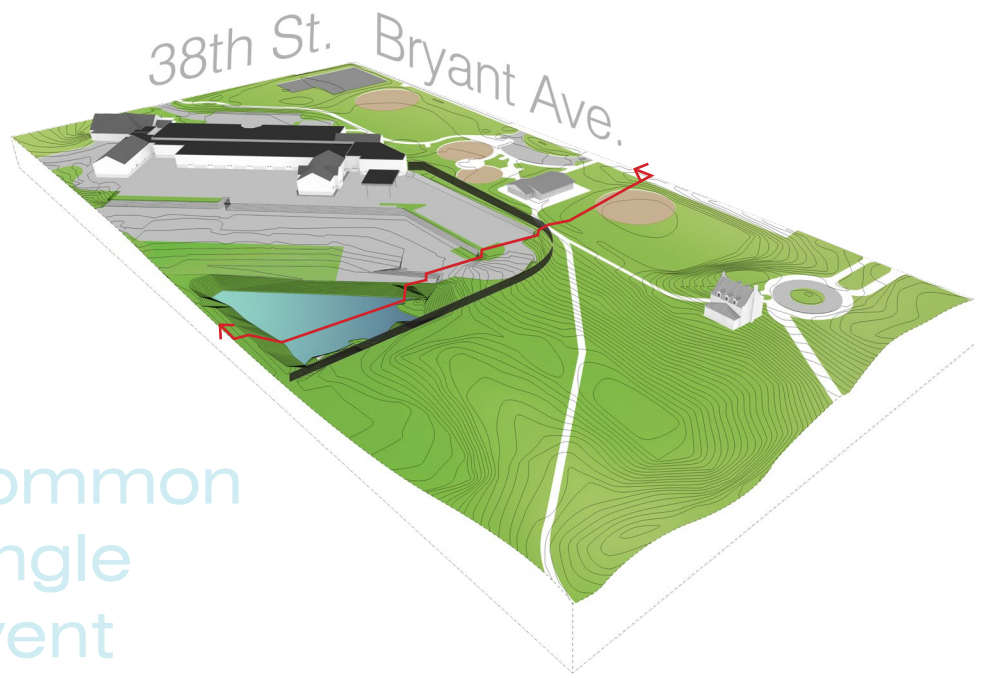


2yr / 1hr [1.25 inches]

1 ac =



Common
Single
Event
Range



Runoff Cost

Water Use [122,860 gallons]

\$ 490

Sewer [122,860 gallons]

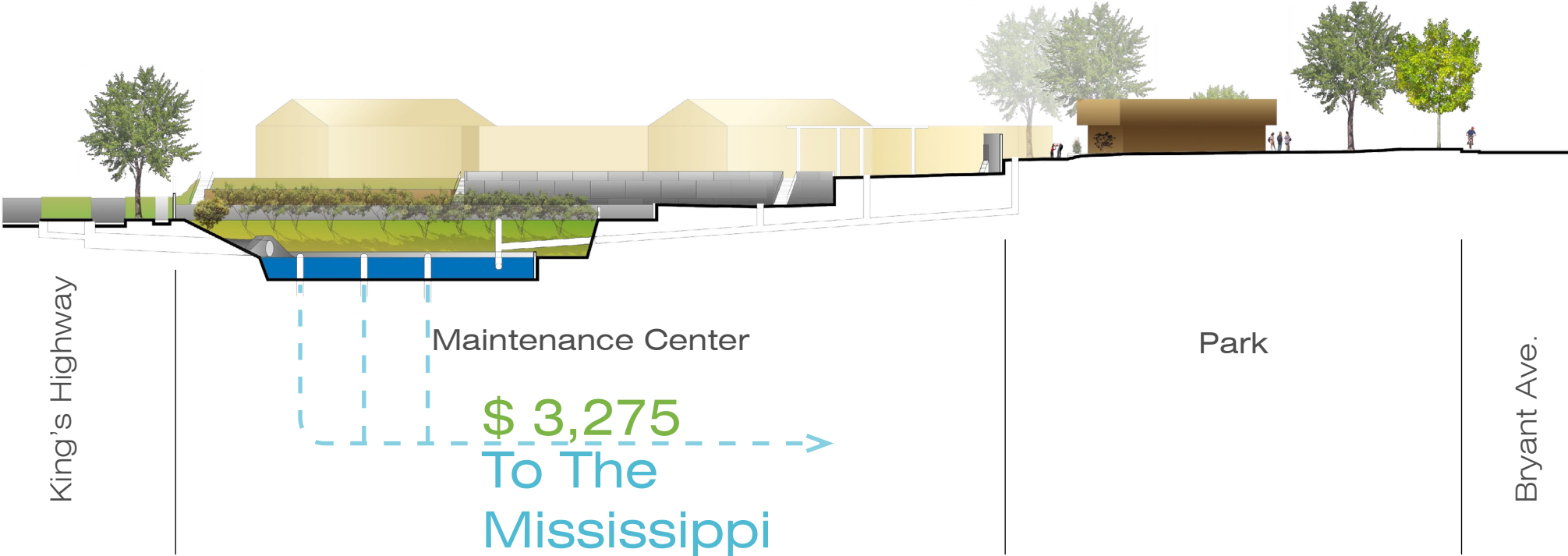
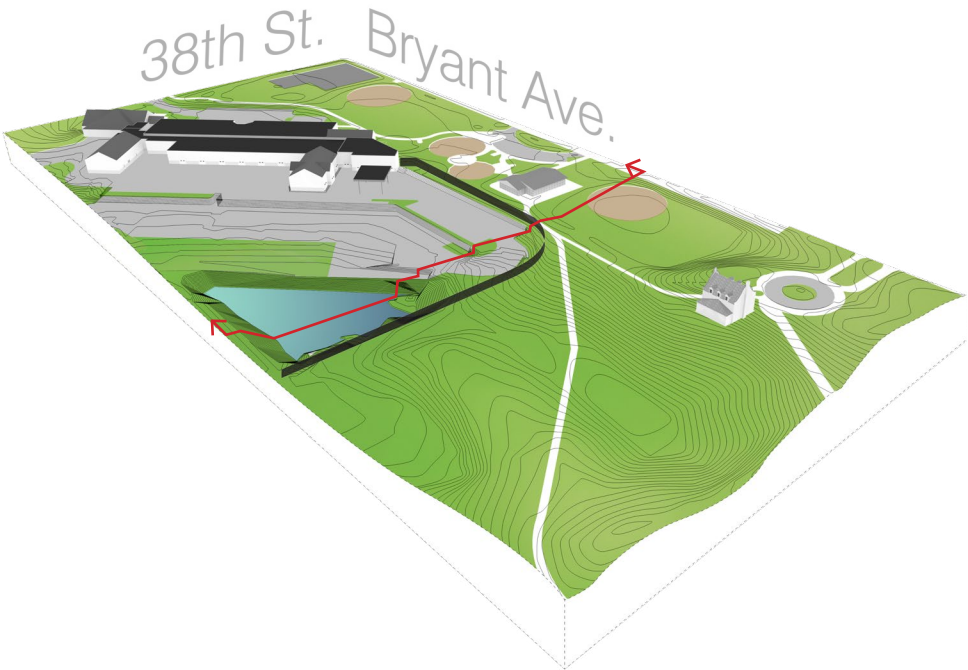
\$ 490

Stormwater

\$ 2,275

+

\$ 3,275



0' 5' 10' 25' 50' 100'

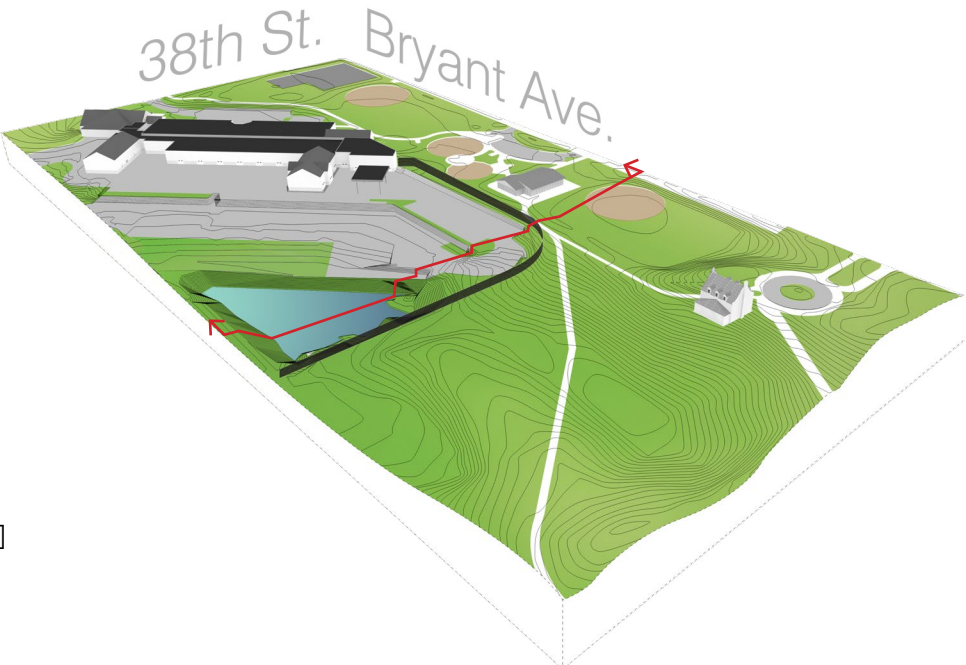
Pollution

Roof - 2 acres = 12%
 Asphalt - 5 acres = 31%

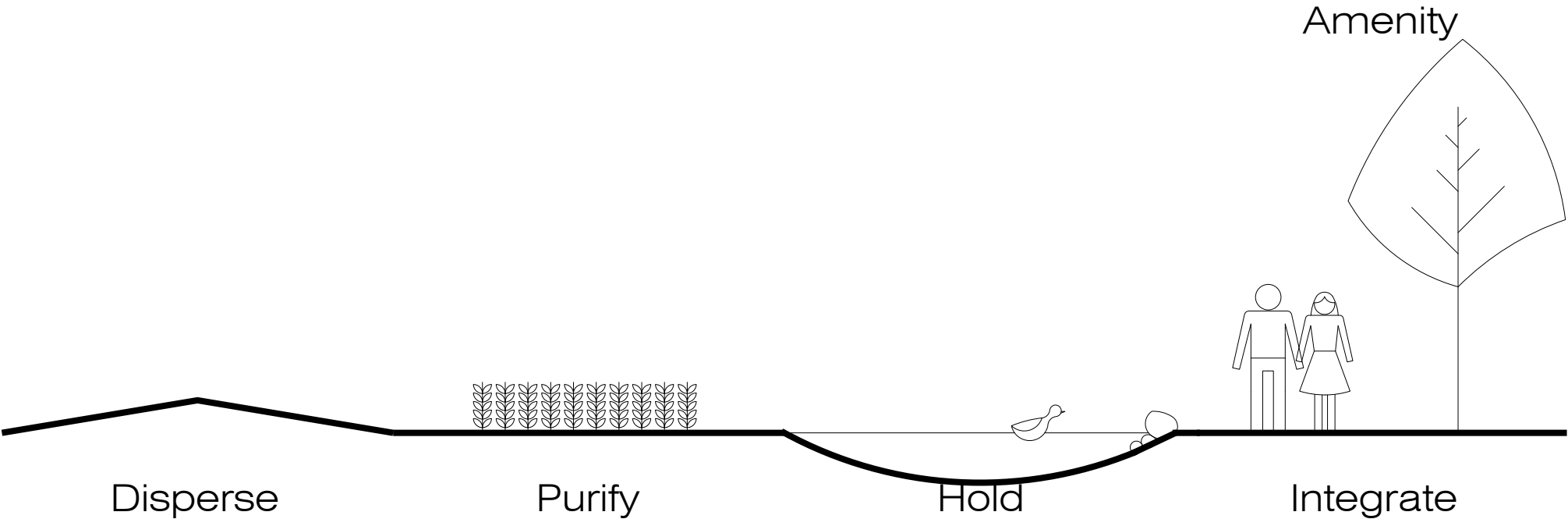
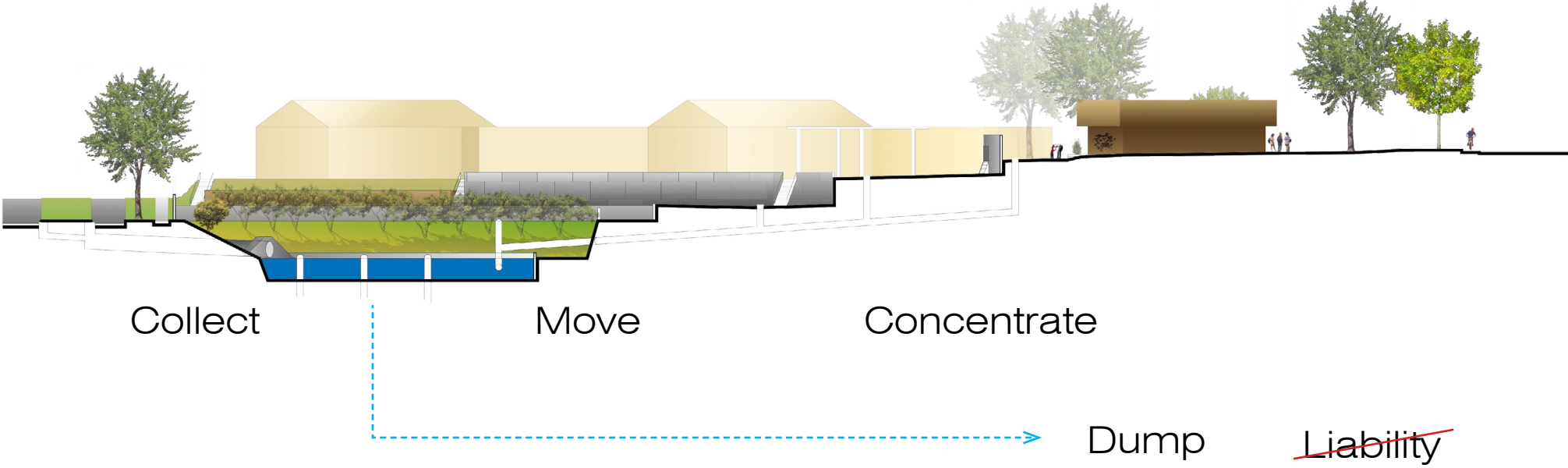
42% Industrial
 Industrial Pollution [heat, sediment, heavy metals]

Turf - 5.5 acres = 33%
 Wooded - 4 acres = 24%

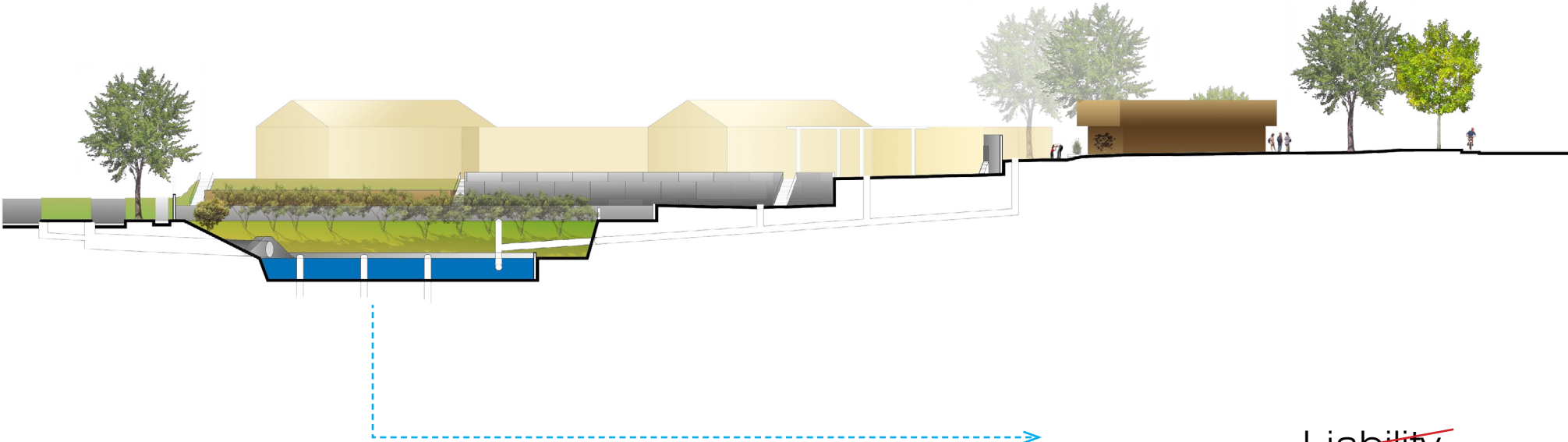
68% Park
 Park Pollution [nutrients, sediment, organic waste]



Solution

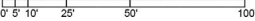
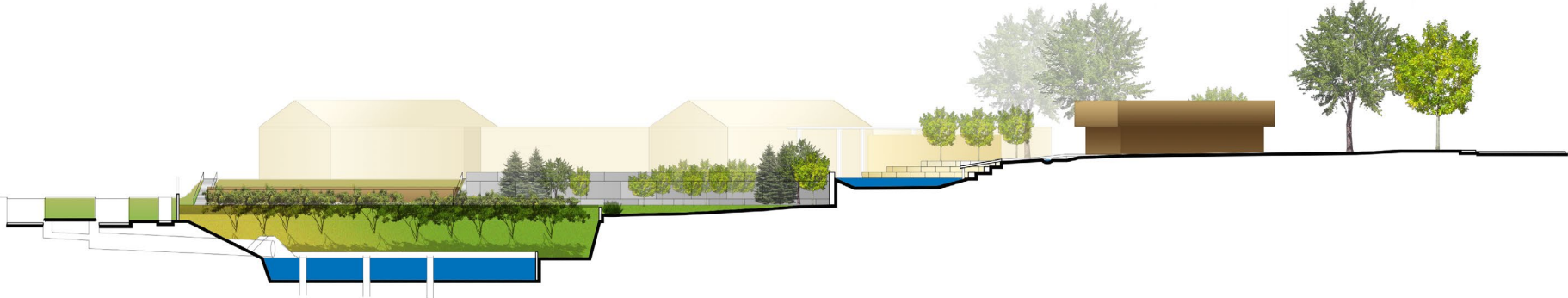


Solution



~~Liability~~

Amenity



Primary Elements

Impervious

- 15%

Runoff

- 17 %

Annual on site

Runoff

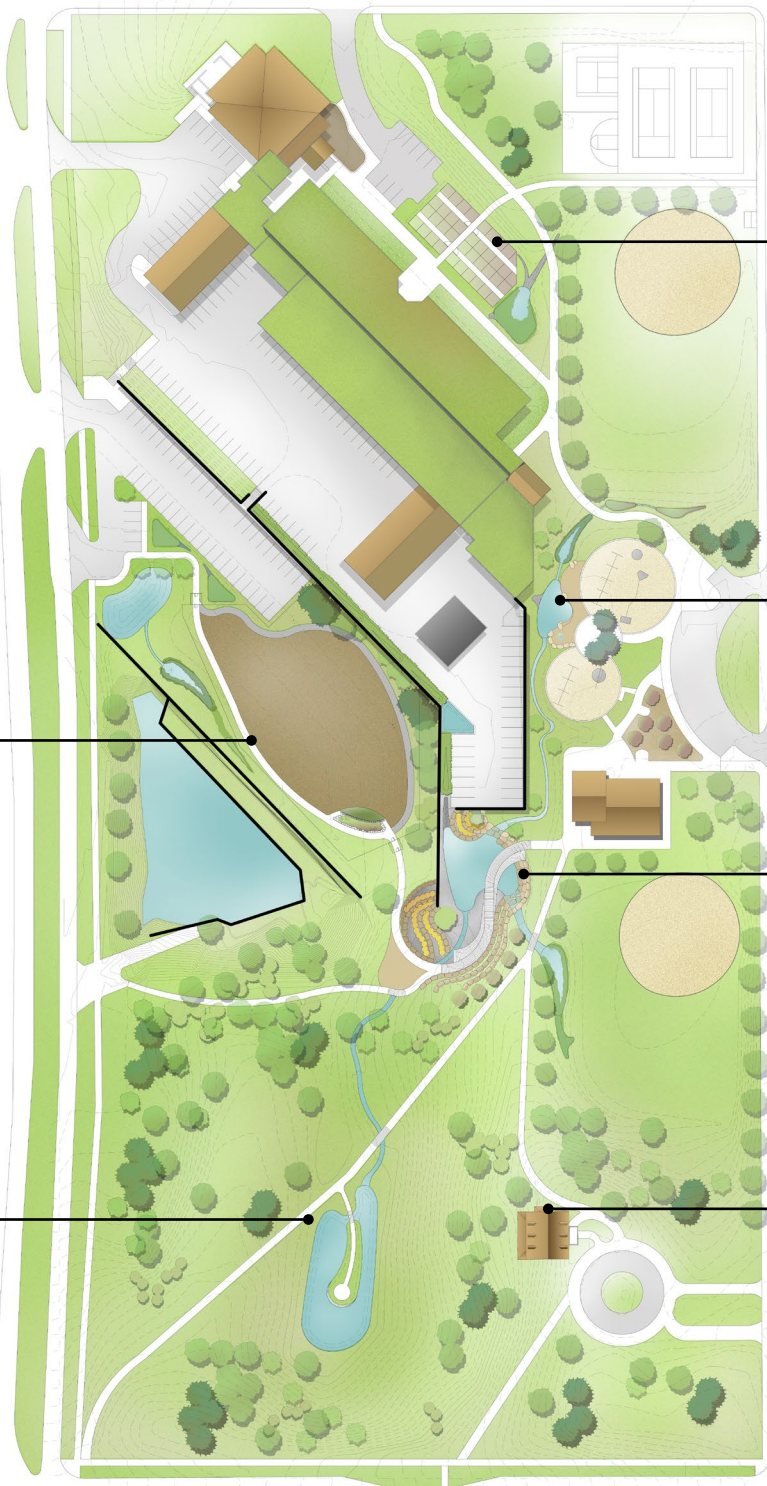
- 100 %

10 yr storm

Dog Park Improvements

- Pond
- Raingardens
- Paved Paths
- Parking

Demonstration Pond



Community Garden

- Community Plots
- Rain garden
- 20 gal. Cistern

Splash Pad

- Interactive water jet
- wading pond
- Raingardens

Boardwalk Area

- Water falls
- Rock Garden
- Overlook

Historic Park

- Picturesque Pond
- Parks

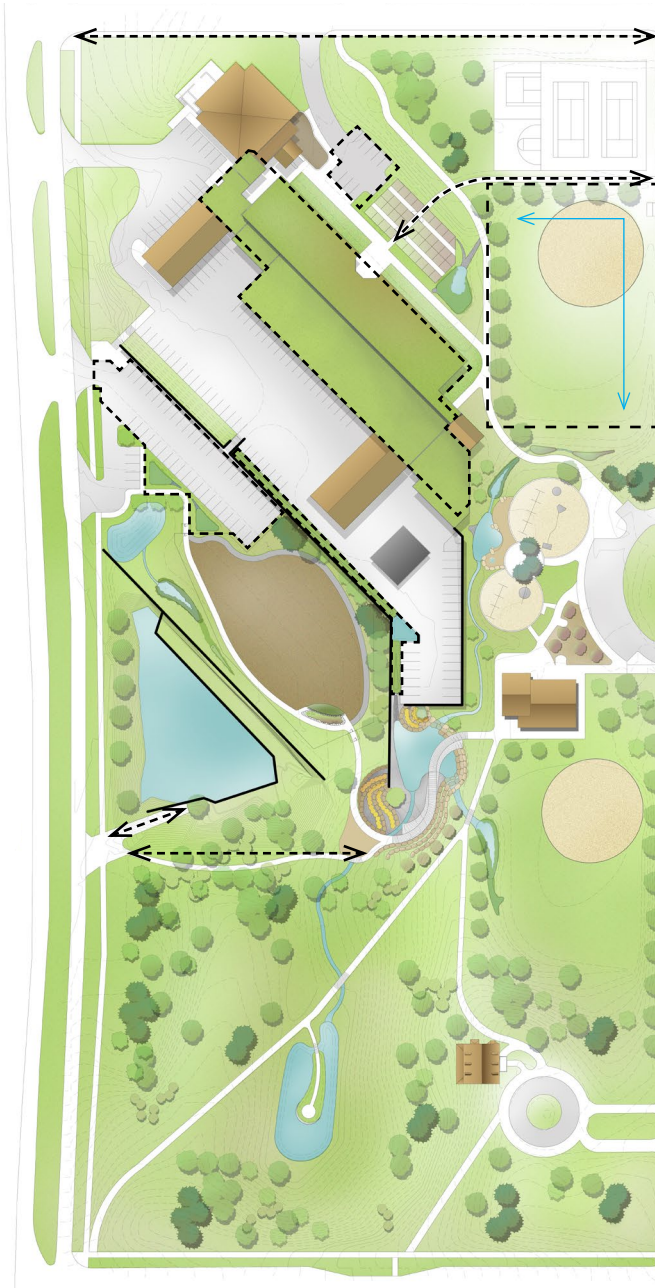
Secondary Elements

Roof Improvements

- Extensive Green Roof
- Cistern 20,000 gallons

Parking Lot Improvements

- Raingardens/ Bio-Swales
- "Spots-for-Plots" Program

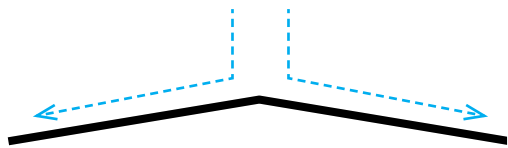
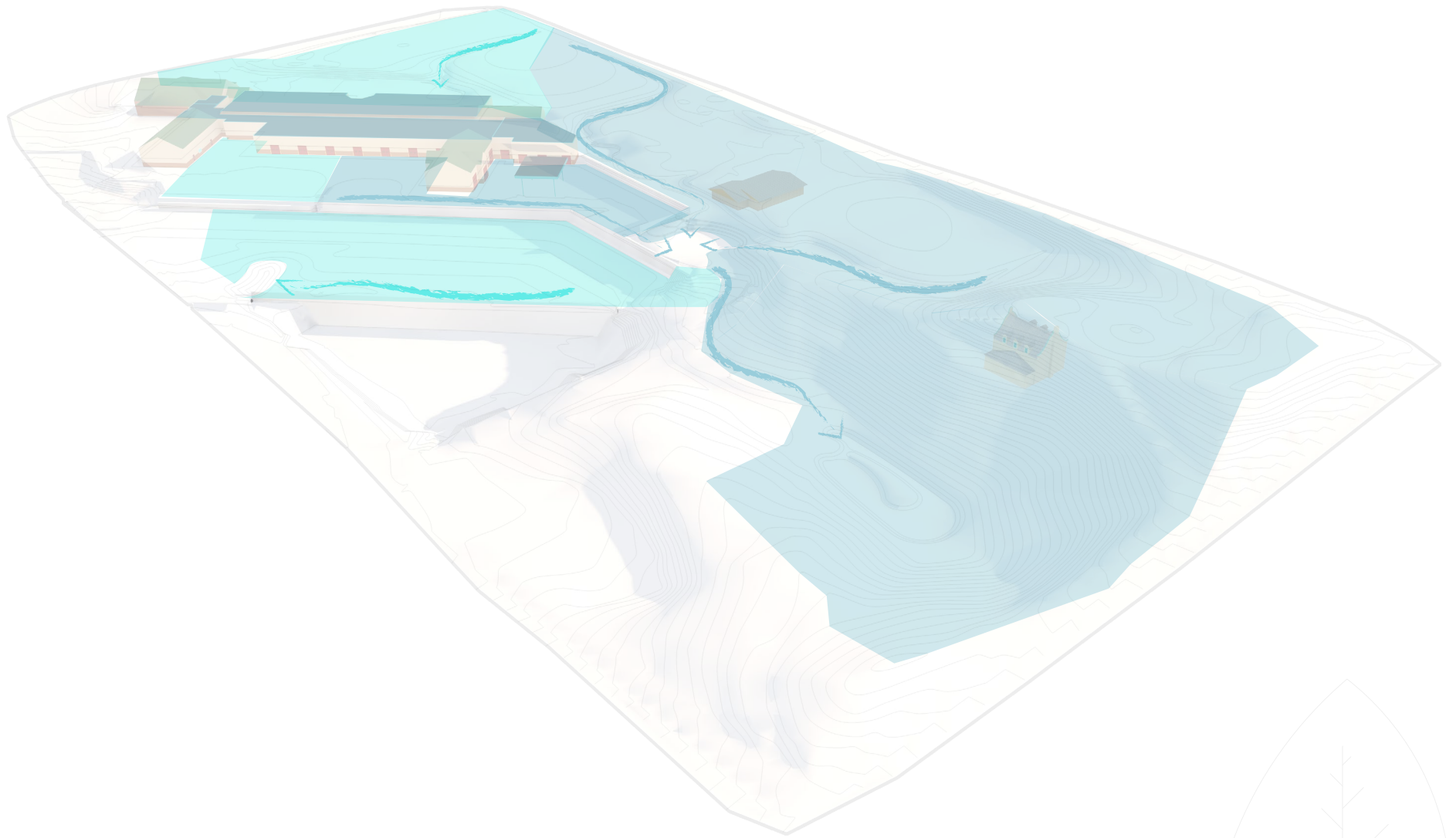


Field Improvements:

- Re-graded
- Trees added

Path Additions:

- Along 38th St
- Bus Stop to Service Center
- Outlook to King's Highway
- Re-surface path to Existing Pond



Disperse



Purify

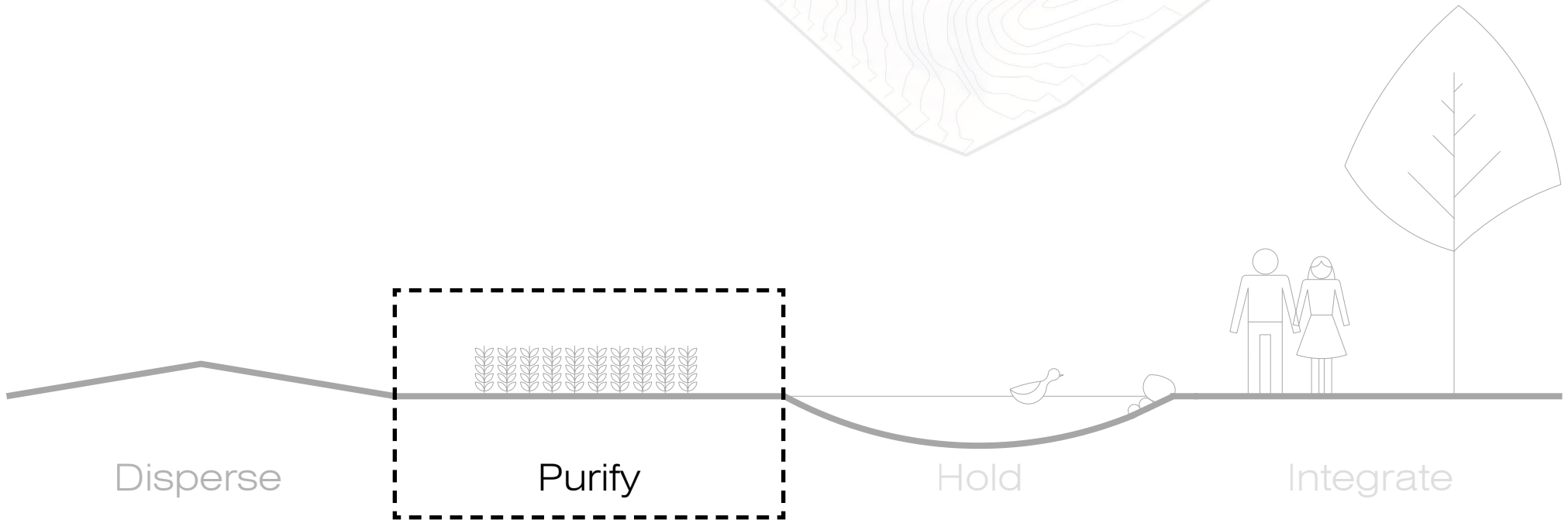
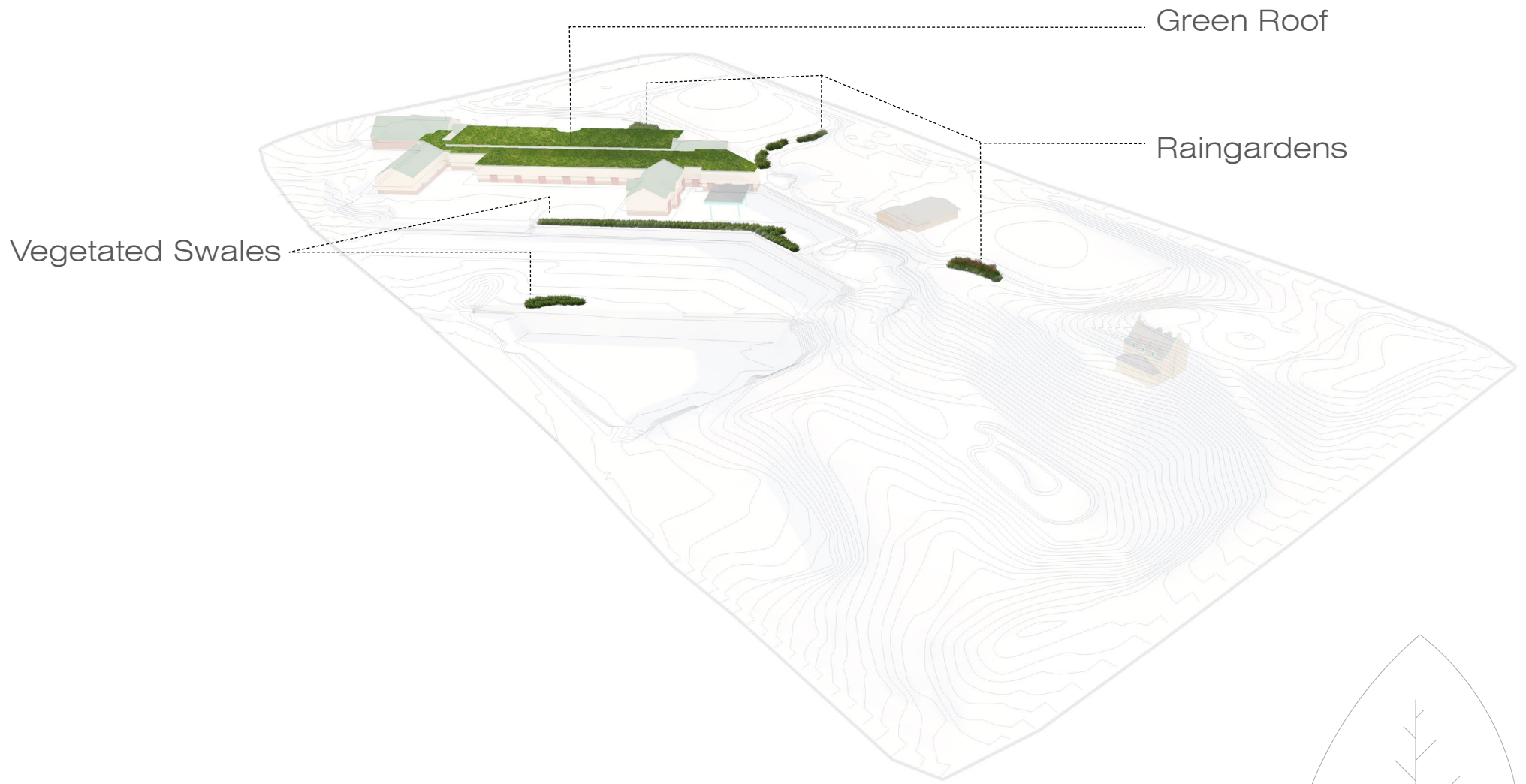


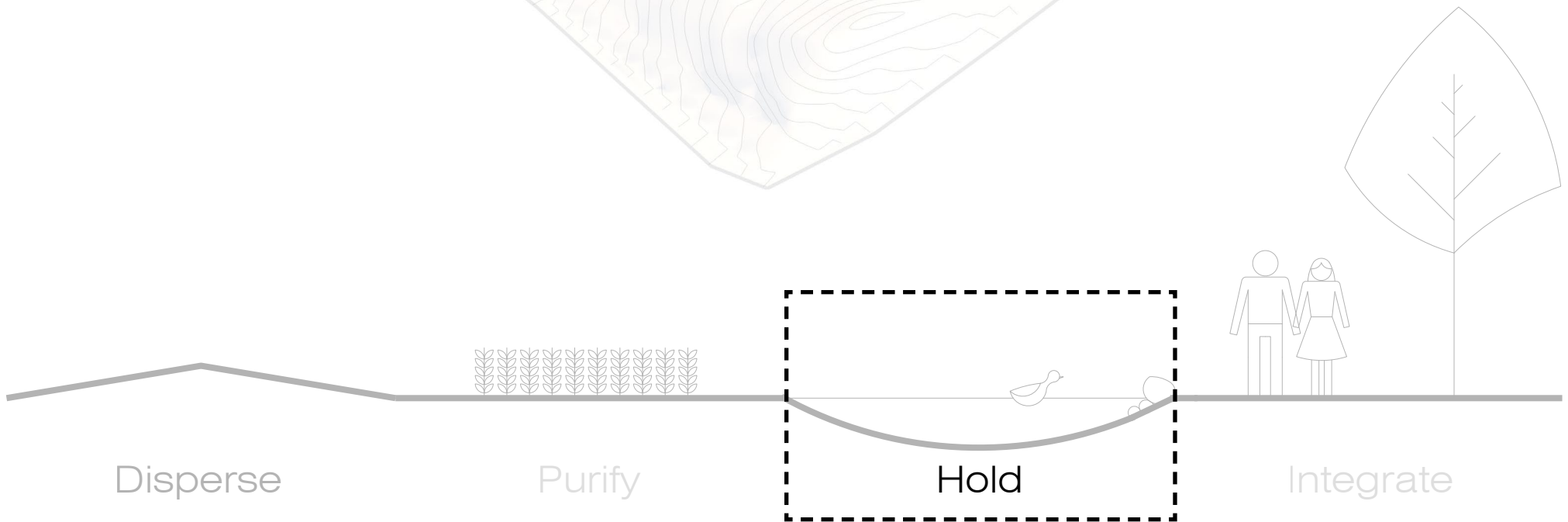
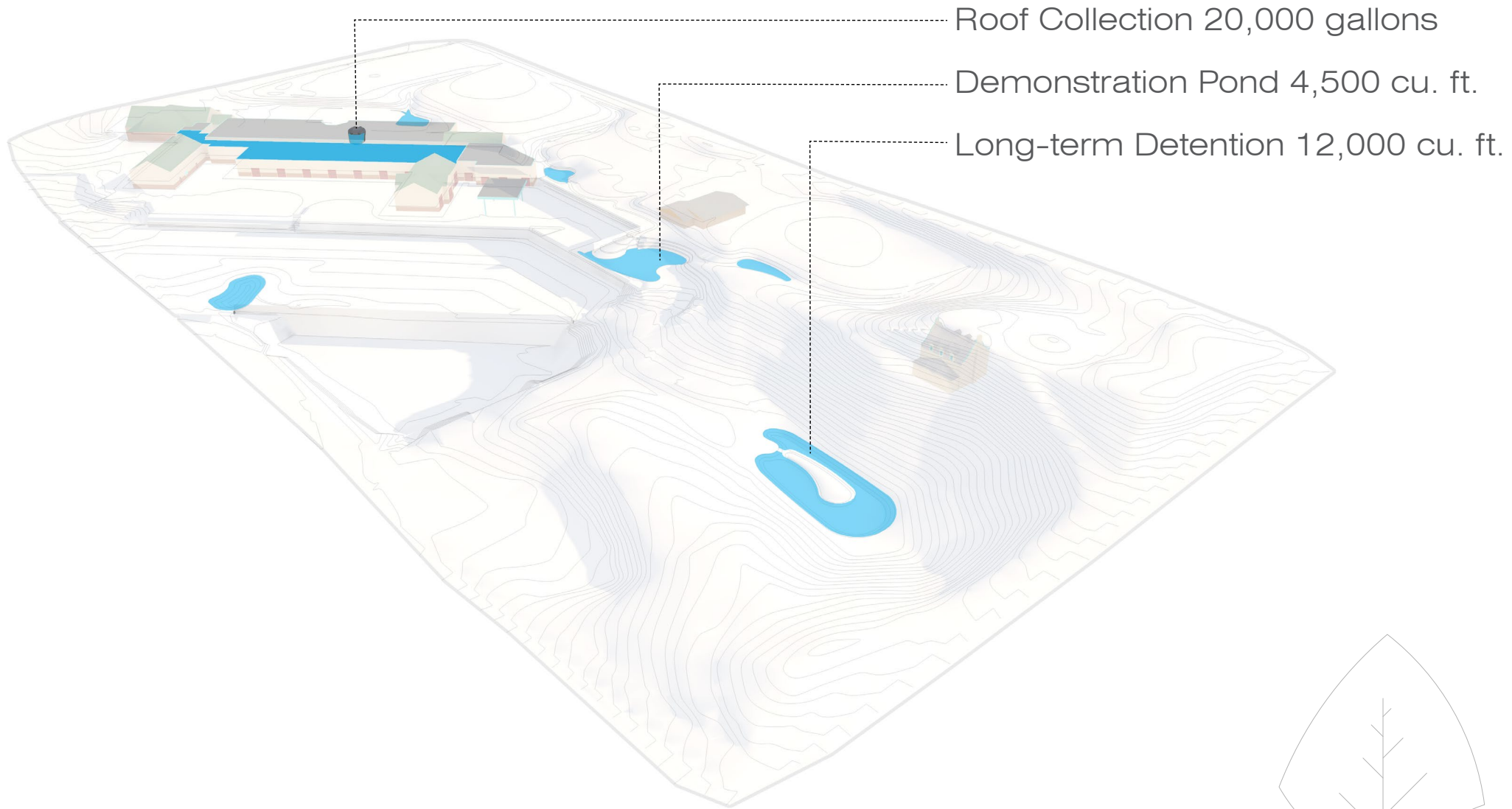
Hold

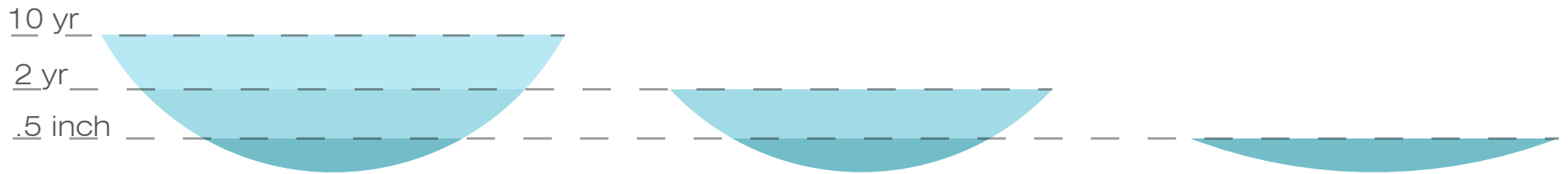
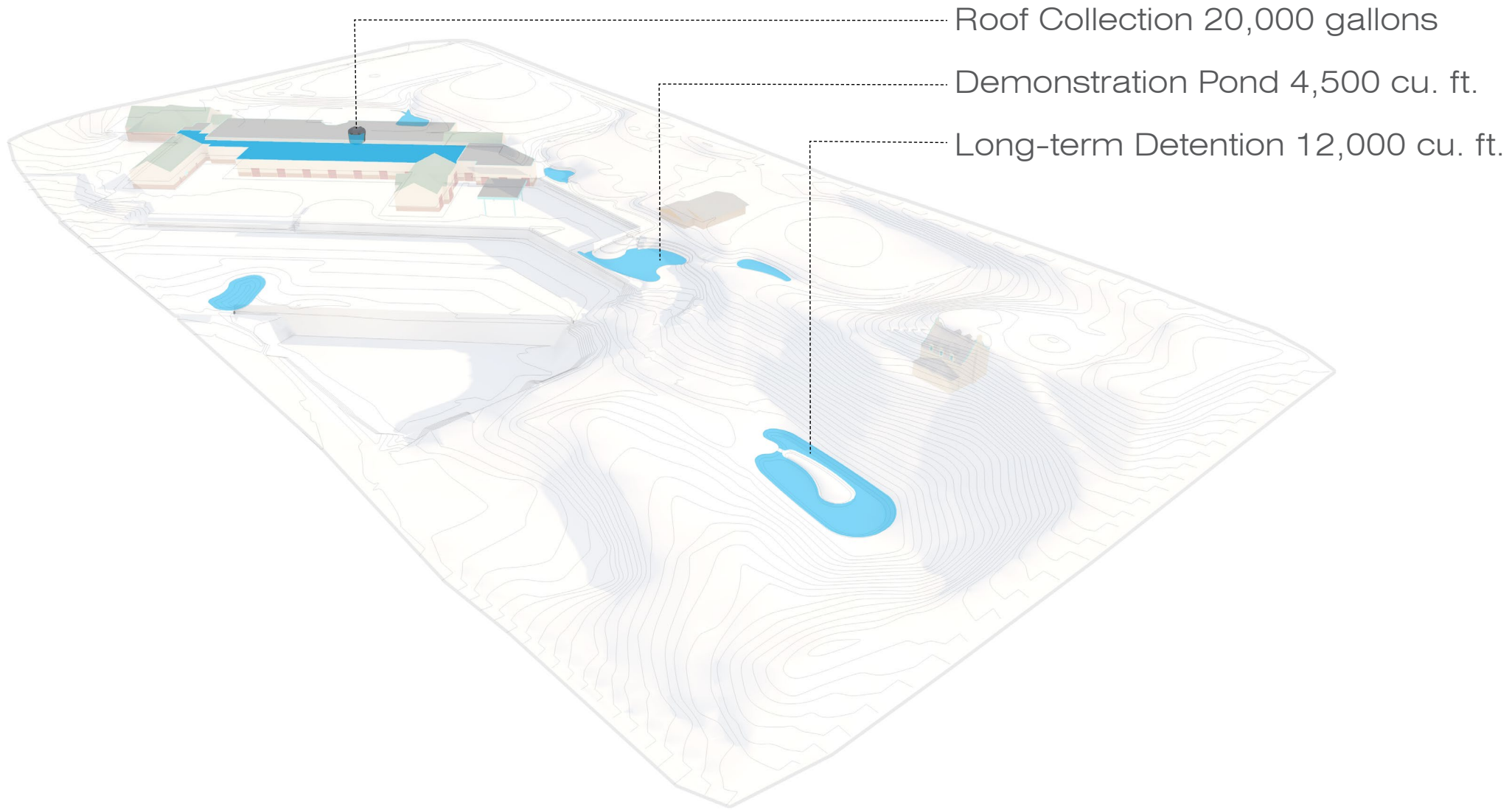


Integrate

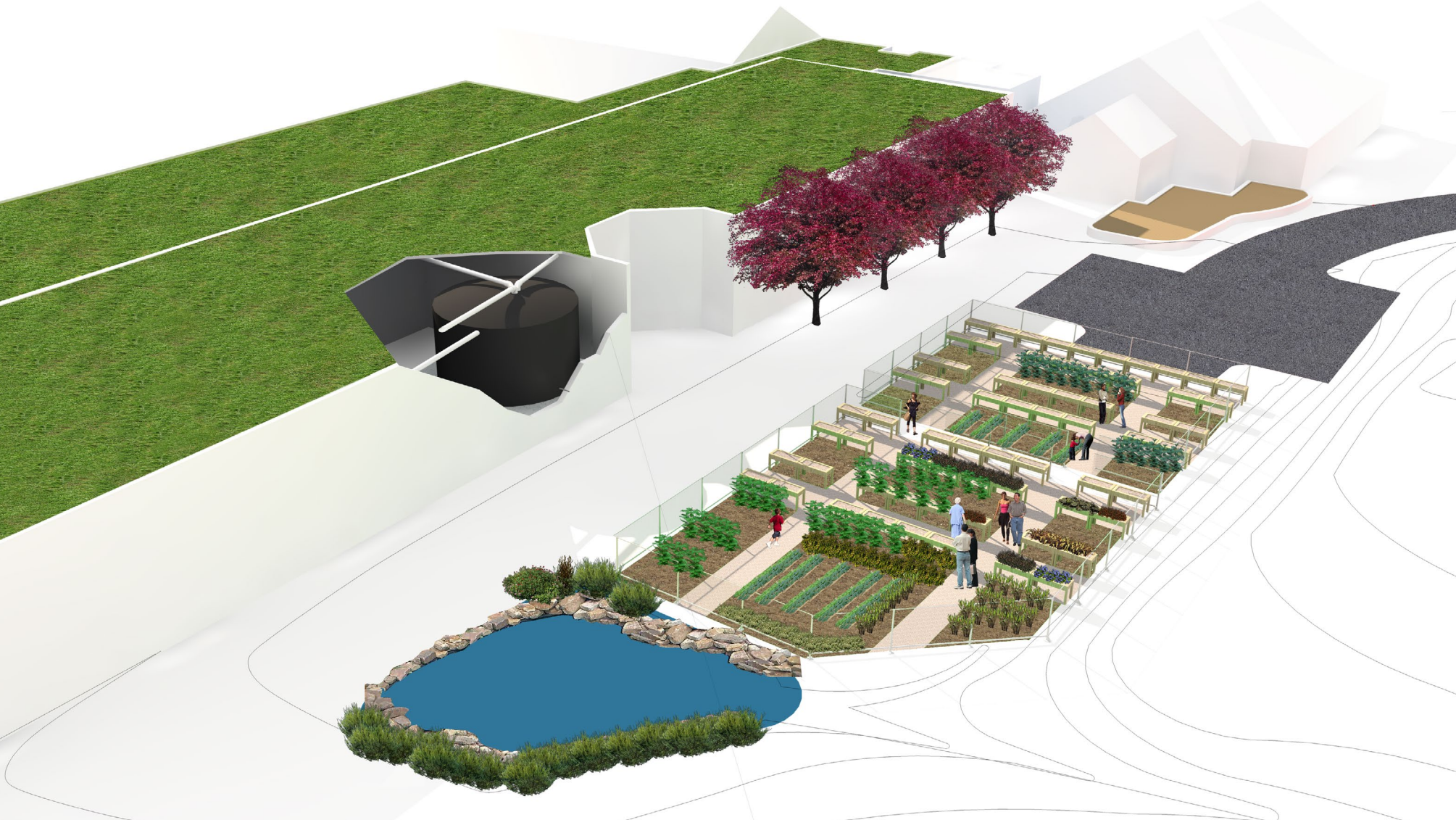


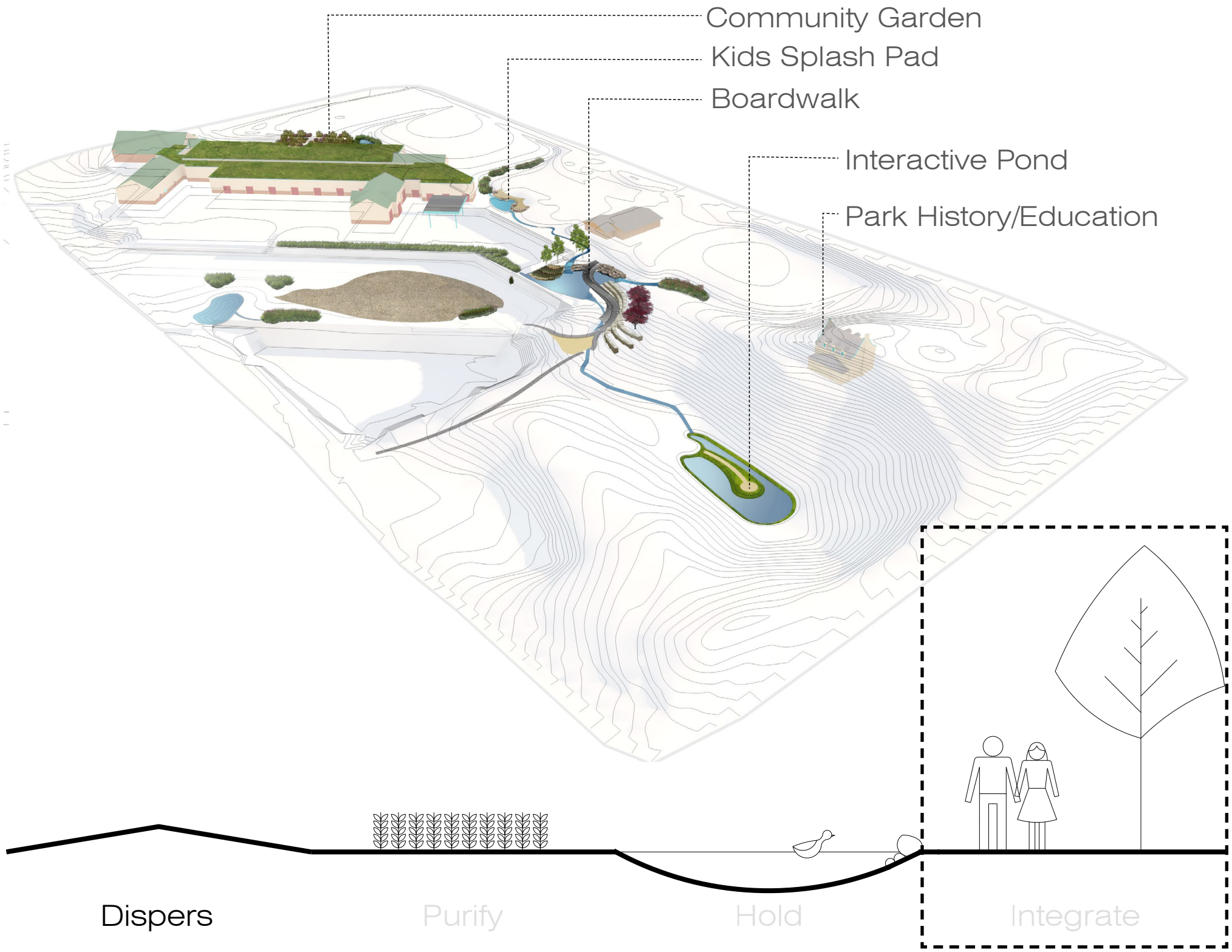






Cistern/Community Garden





Community Garden

Kids Splash Pad

Boardwalk

Interactive Pond

Park History/Education

Dispers

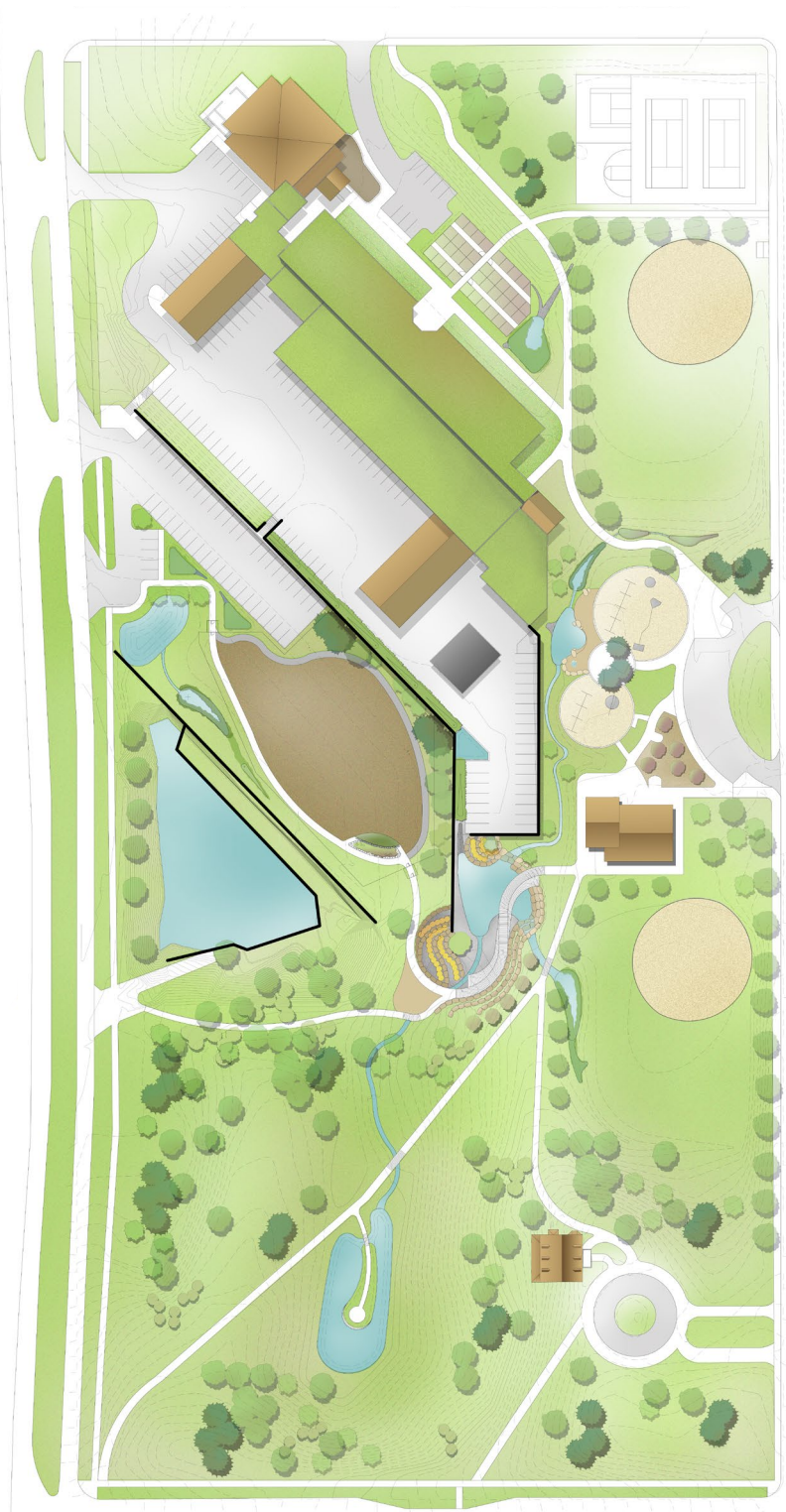
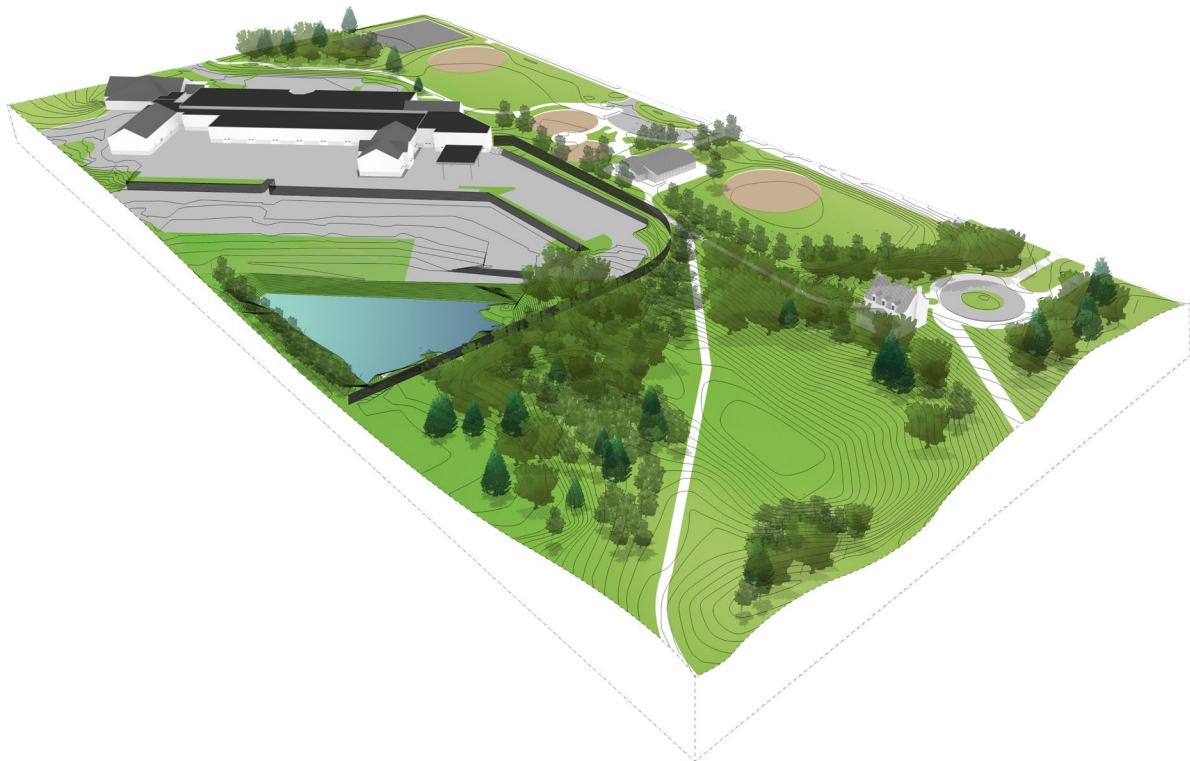
Purify

Hold

Integrate

Boardwalk





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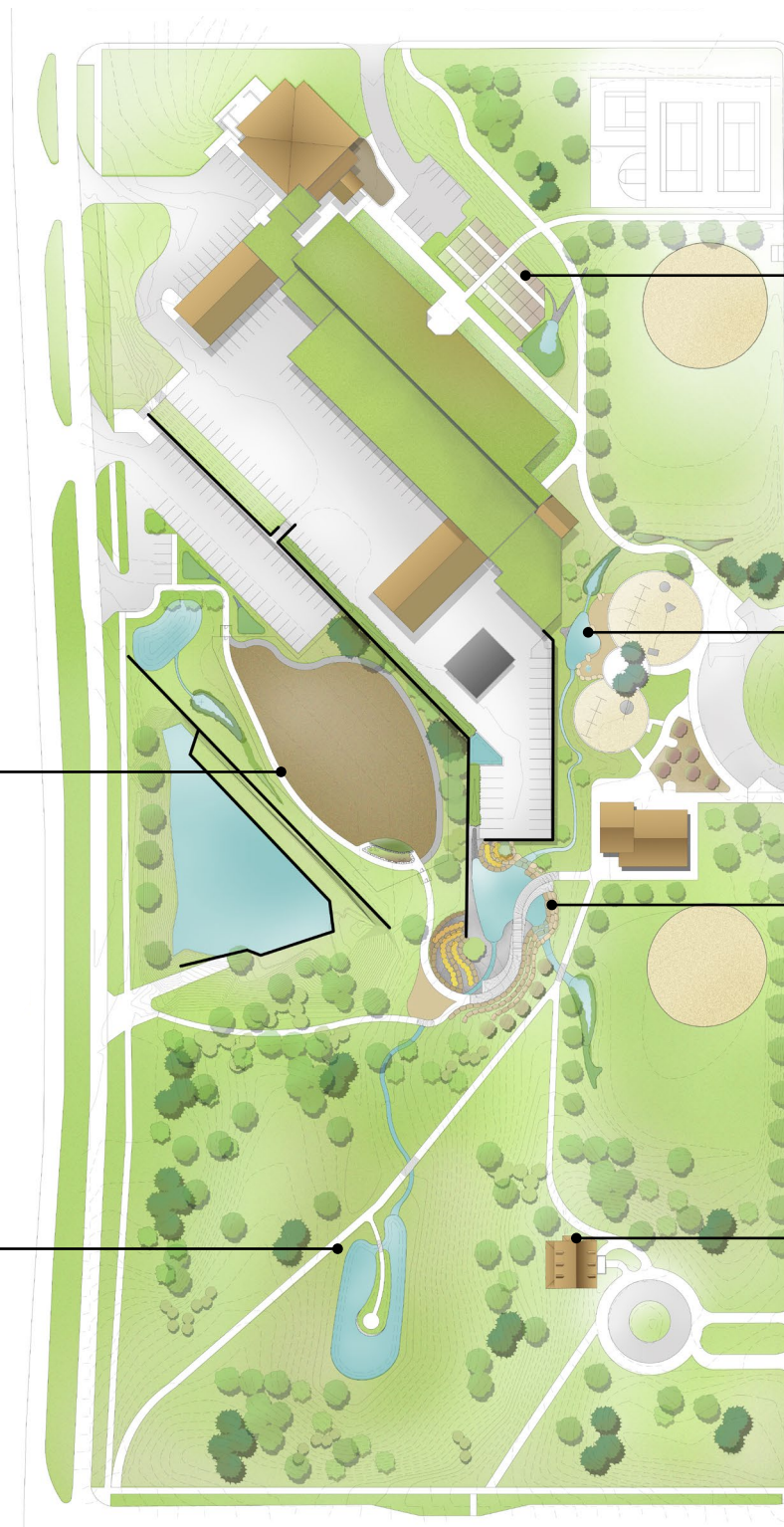
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