



**VAN CORTLANDT PARK
MASTER PLAN 2034
MARCH 24, 2014
UPDATED JULY 15, 2014**

Parks

City of New York
Parks & Recreation

Vision



Van Cortlandt Park will be the City's healthiest and most scenic forest and brook ecosystem. It will have carefully orchestrated trails and paths for running, biking, walking and horseback riding. The trails will flow without conflict past scenic areas and fertile habitats, linking communities together and to desirable recreational and cultural destinations.



Purpose of the Master Plan

This plan will serve as a guide for a coordinated long-term effort that will make Van Cortlandt Park a vital part of its community as well as the City's healthiest and most scenic forest and brook environment.

How was it developed?

NYC Parks worked with community groups, Bronx Community Boards, the Park's non-profit partners and user groups to develop a shared understanding of the park's problems, community needs and solutions.

How will it be implemented?

NYC Parks will work with the Bronx Community Boards, non-profit partners and elected officials to prioritize projects and identify the needed expense and capital budgets.

What major projects are included?

- Restoration of the forest and brook with restored nature trails, enhanced habitat and wetlands.
- A path that loops the park through beautiful landscapes and 2 paths that cross the park.
- Three new pedestrian bridges
- 1 playground and 2 activity areas for children, plus 2 covered activity areas, a skate park, 3 basketball courts and 1 athletic field.
- Greenway connections with separated bicycle and pedestrian paths.
- Restoration of the rural landscape around the Van Cortlandt Mansion and lake,
- Extension of Tibbetts brook to the Harlem River.
- Three comfort stations and two food concessions

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Restore
trails

more stone paths
around mansion
or courtyard at
statue area

IMPROVE EAST-WEST
ACCESS THROUGHOUT
PARK - SO NEIGHBORS
CAN CROSS ~~THE~~ AT
KEY POINTS EASILY

MAKE IT EASIER
TO GET ^{AND MORE PLACES}
FROM ONE PART OF
THE PARK TO
THE OTHER
(HIGHWAYS ARE IN
THE WAY)

Protect + Preserve + Enhance
Natural Beauty + Habitat
increasing interaction
learning opportunities,
exercise + recreation, pride
participation

Cut back forest
that becomes too dense
in places.

Build the pedestrian
bridge we were promised

and community
evening opportunities
different areas
park

RENOVATE
STADIUM INCL
PUBLIC MEET
SPACE + OFF
FOR PARK G

Some kind of

INFORMATION GATHERING

We learned what people know, what they are concerned about, what they are working on and what more they think can be done. We reviewed existing studies, interviewed elected officials, leaders, Parks Department personnel and external experts.

BOATING
ON
LIFT

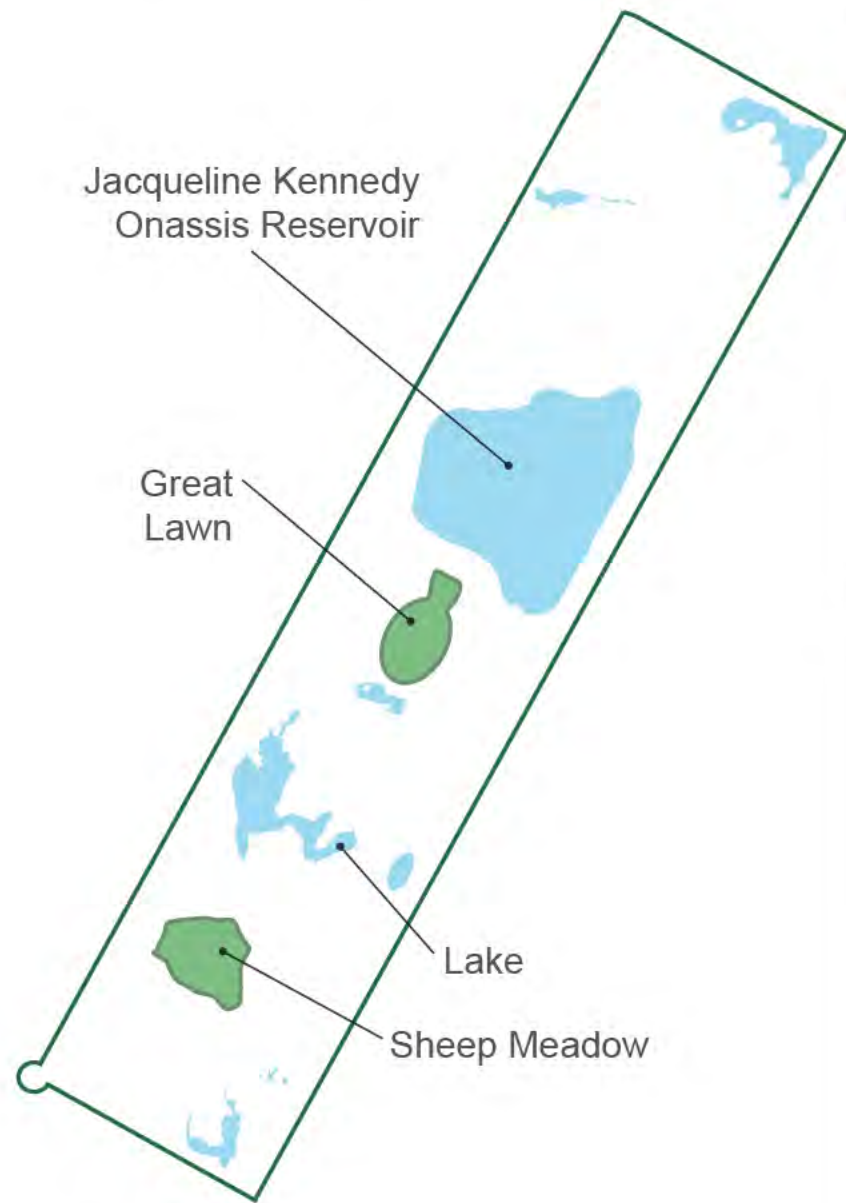
More opportunities
for evening events -

SKATING RINK -

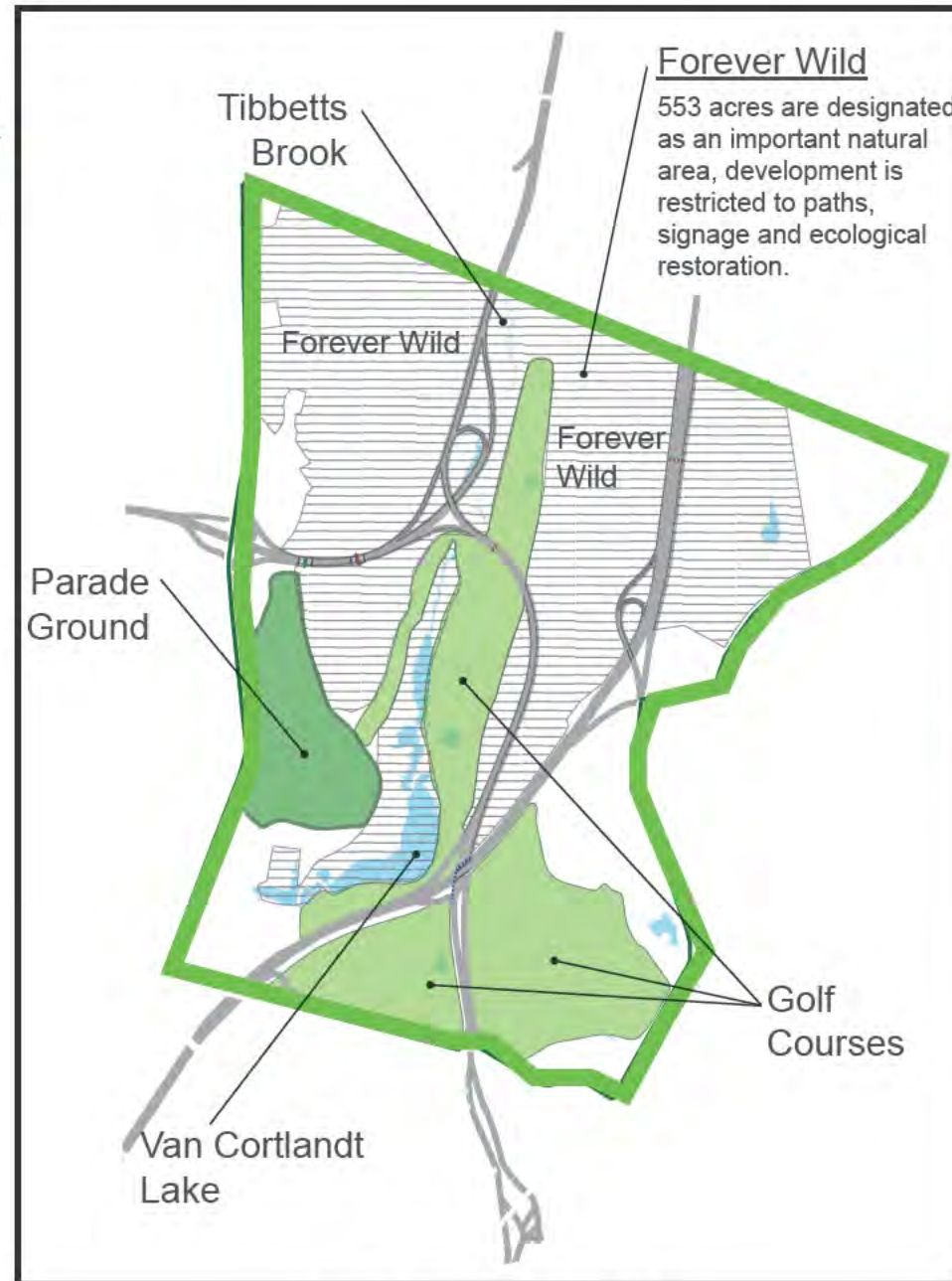
Park Area Comparison

Van Cortlandt Park is the third largest park in New York City. Its Parade Ground is the largest in New York City.

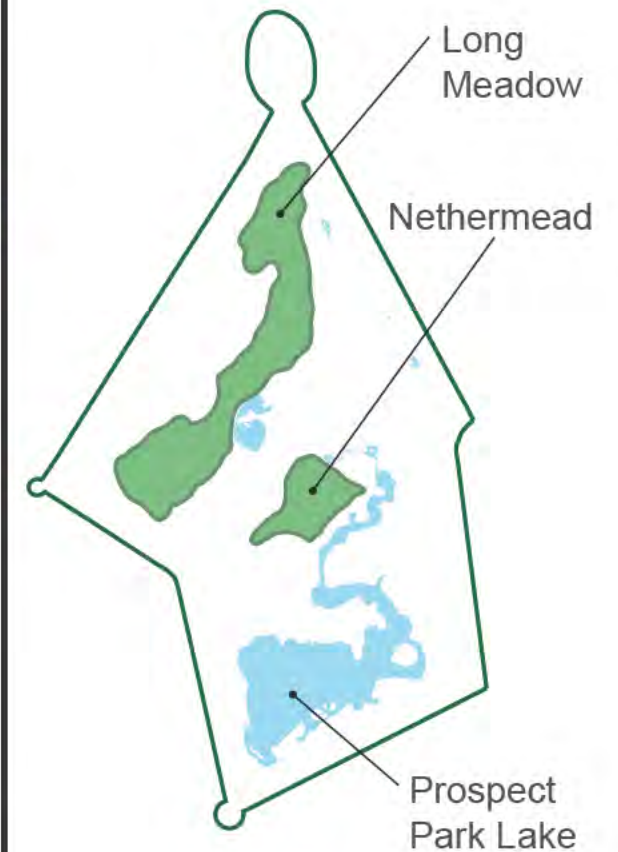
These drawings show how Van Cortlandt Park's lakes & lawns compare to those in Central and Prospect Park.



**Central Park
840 Acres**

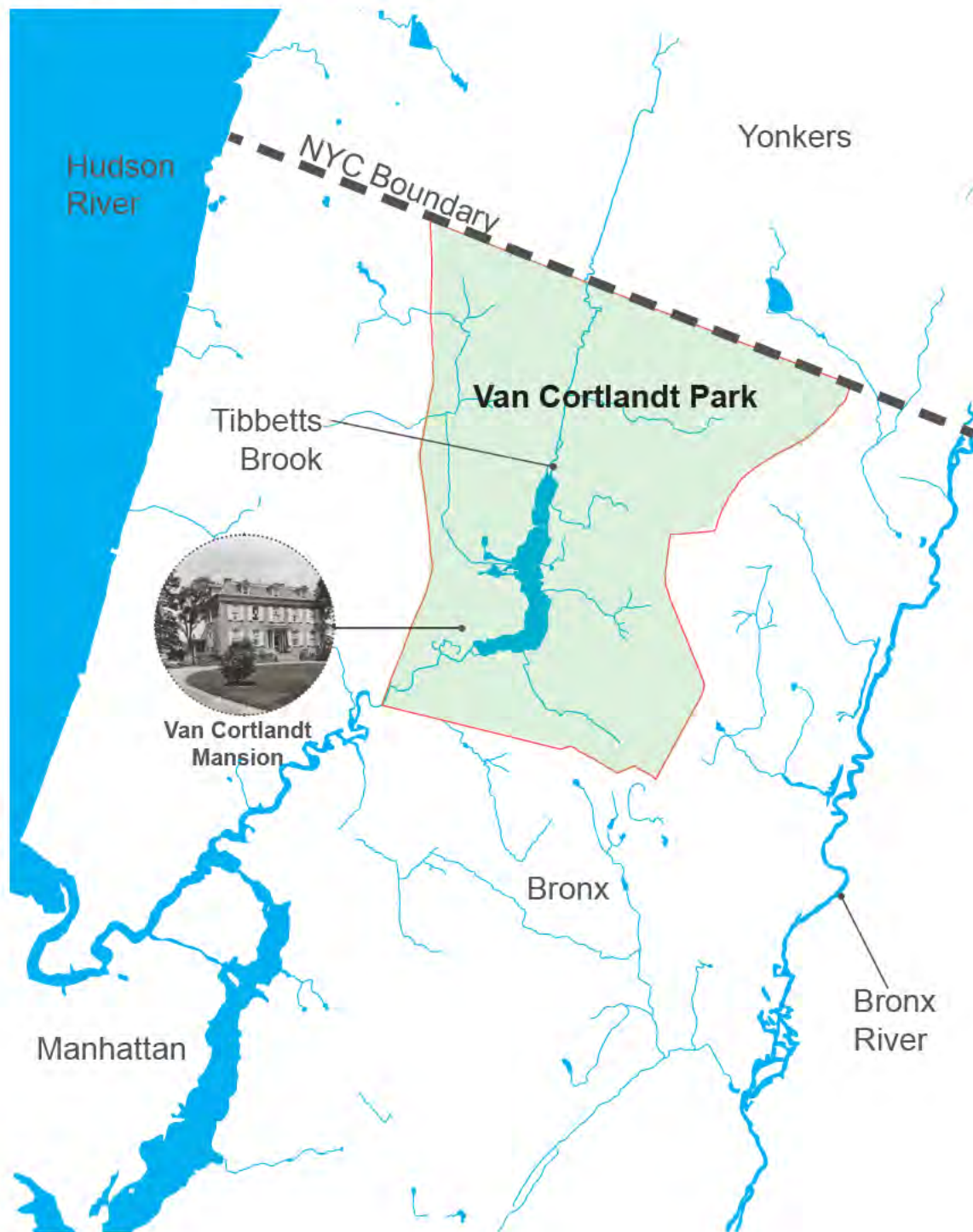


**Van Cortlandt Park
1146 Acres**



**Prospect park
526 Acres**

Park Evolution



1873: Site Context & Rural Landscape

Tibbetts Brook was once one of the major waterways in the Bronx watershed with many tributaries. Trout swam from the Harlem River through the freshwater marshes to Tibbetts Brook where they spawned. The park itself was a compilation of farms and estates, most notably the Van Cortlandts, who had harnessed Tibbetts Brook's energy to power several mills.

When Frederick Law Olmsted surveyed the Bronx in advance of laying out streets, he noted that the Van Cortlandt property was already as beautiful as Central Park; he conceived of a series of parks connected by "Parkways" in order to create the illusion of a more expansive natural setting.

The uses of these parks will not only be for the people residing in their vicinity, but for the whole city. They will differ from the Central Park in this respect, that, instead of being artificially constructed, they will be located upon points of superior natural beauty and prospect, where the trees are already grown, and the lawns already leveled. They will, therefore, without expense of construction, be fitted for park purposes. They can be left in their natural condition, and be finer places for the recreation and enjoyment of the people than the Central Park can be made to be.

The visitor, then, from the lower part of the city, will be able, by a boat on the Hudson, or on the East River, to reach a park on the water side, or by some line of steam transit, to reach the chain of parks at an interior point, to traverse them if he will, through their whole extent, by park carriages.

Board of Commissioners of the NYC Department of Public Parks-
Document No. 73, December 20th, 1875, page 16



Historic Features

The park was the site of Revolutionary War battles, most significantly, the massacre of the Stockbridge Indians. It has significant historic structures built in the 18th and 19th Century.

1748



Van Cortlandt mansion, 1913, MCNY

Van Cortlandt House was built by Frederick Van Cortlandt.

1749



Van Cortlandt Burial Plot, 1934, Parks Photo Archive

Frederick Van Cortlandt died and his family constructed the burial vault on Vault Hill.

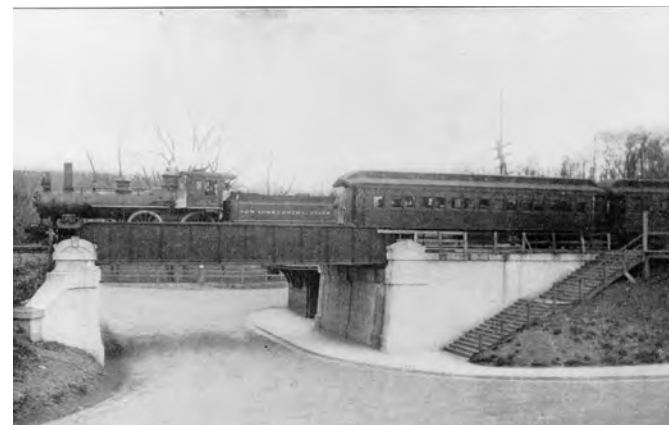
1837



Old weir at the Croton Aqueduct, Source:<http://imjustwalkin.com/>

Construction of Croton Aqueduct began in Van Cortlandt Park.

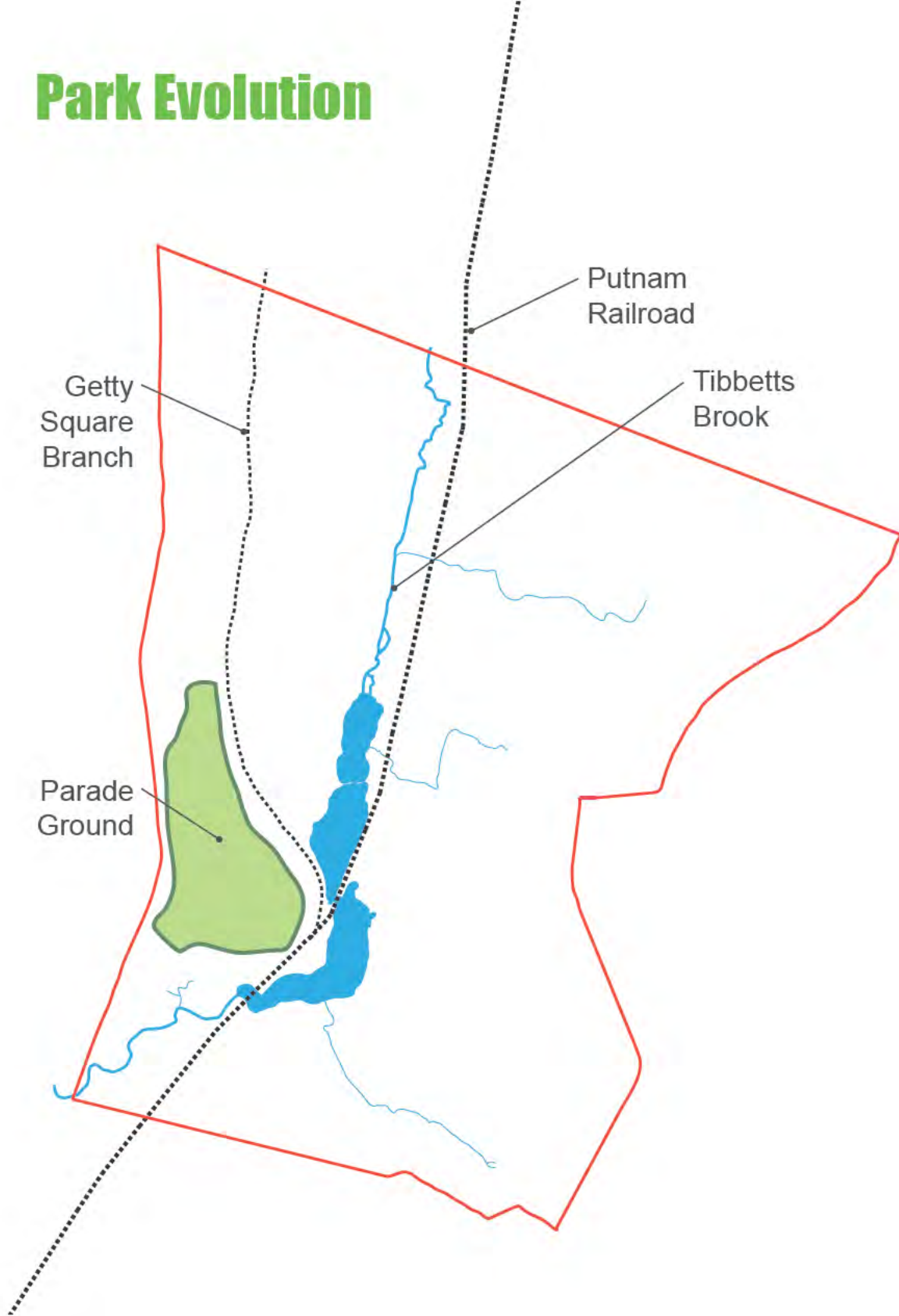
1872



Railroad Viaduct, 1906, Parks Photo Archive

Putnam Railroad construction began in Van Cortlandt Park.

Park Evolution



Park Acquisition and First Modifications

NYC Parks acquired Van Cortlandt Park in 1888.

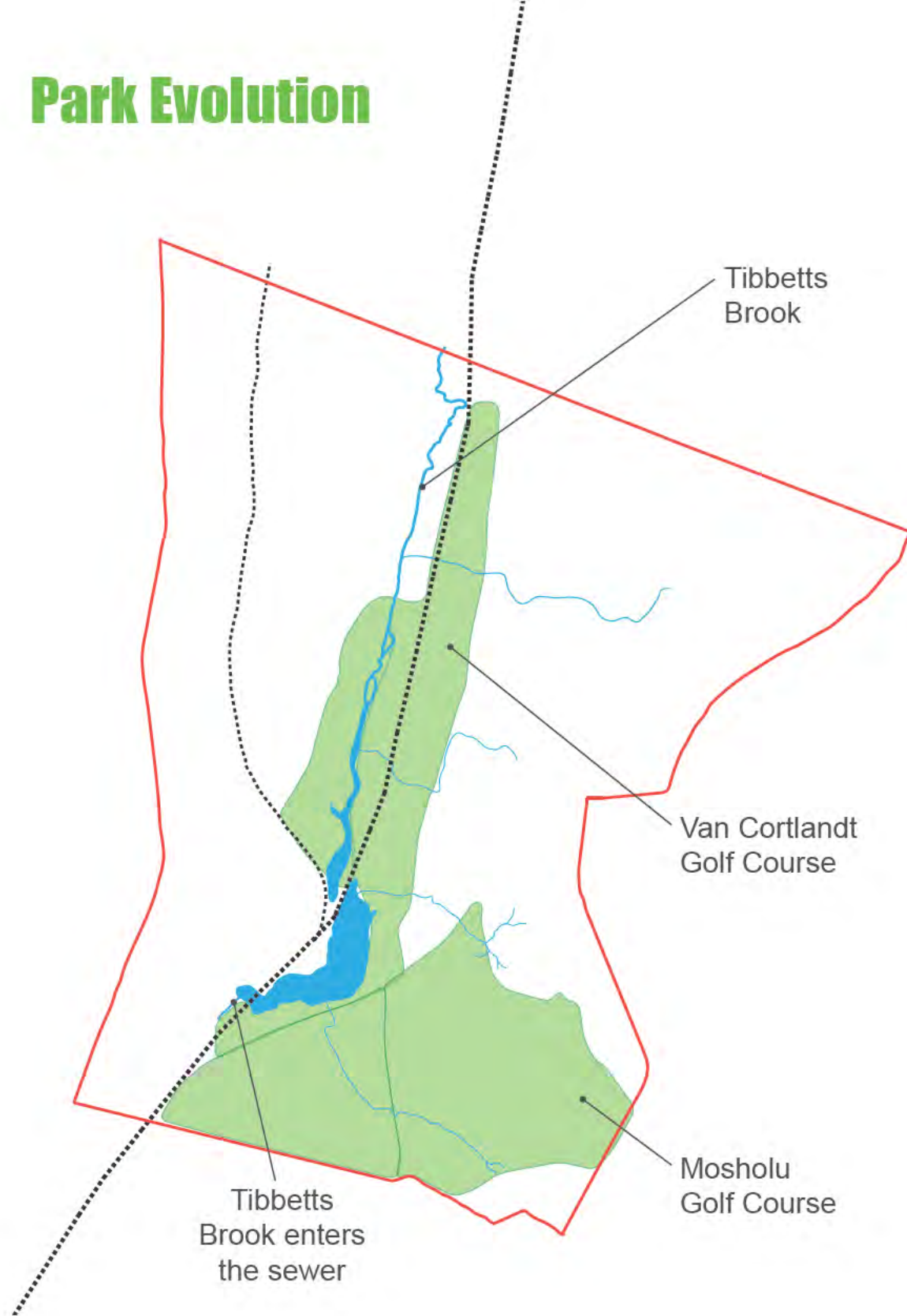
The Parade Ground was soon filled and drained for use by the National Guard and public in 1888.

In the late 1800's the Croton Aqueduct was constructed through the park. Construction of the Putnam Railroad divided the park into two parts.



Cavalry on the Parade Ground, 1890.

Park Evolution



Tibbetts Brook and the Golf Courses

In 1895, the land surrounding Tibbetts Brook was converted to the nation's first public golf course.

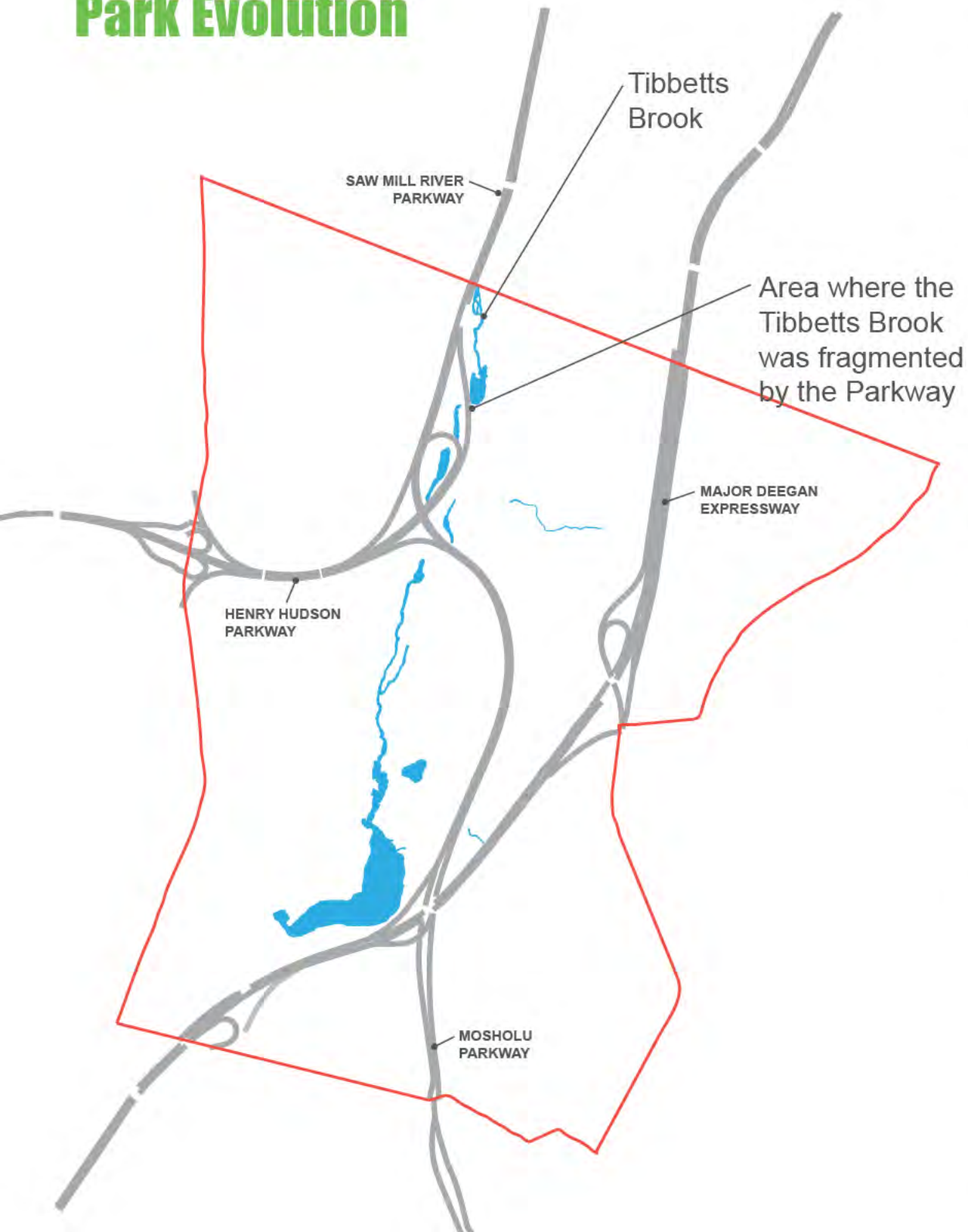
In 1912, Tibbetts Brook was piped into a drain and directed into the Broadway sewer in order to facilitate the filling of the marshes south of the lake for development. The upper part of Van Cortlandt Lake started to silt up and spread out as a marsh.

In 1914, the Mosholu golf course was added; the cross county running course opened, and the Parade Ground began hosting cricket games.



Mosholu Golf Course

Park Evolution



Highway Construction and Marsh Filling

From the 1930's to the late 1960's, construction of the Henry Hudson Parkway, the Sawmill Parkway, the Mosholu Parkway, and the Major Deegan Expressway divided the park into six parts without regard for pedestrian circulation, park beauty, hydrology or ecology.

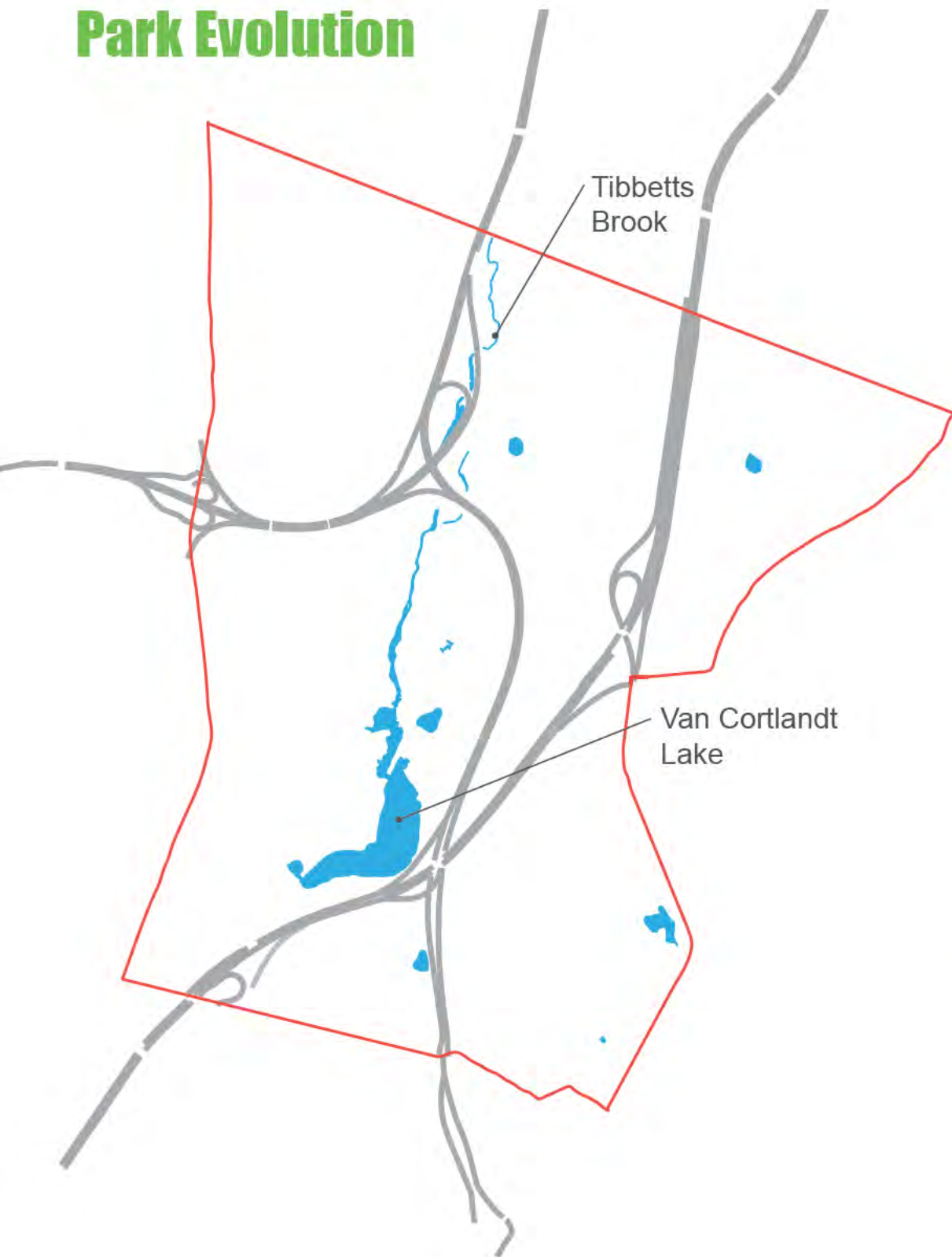
The Henry Hudson and Mosholu Parkways interchange fragmented the northern portion of Tibbetts Brook, causing siltation as the water was slowed by the culverts under the highways.

In 1938, the marsh in the southwest corner was filled in and the stadium was constructed. The swimming pool was added in 1969.



Parkways fragmenting Tibbetts Brook, 1940.

Park Evolution



Forest & Stream Degradation

By the 1960's it was clear that pollution from upstream and chemical use on the golf course was killing the fish. A 1985 study recommended actions that would improve the health of the lake such as decreasing runoff from the highways and dredging the lake.

NYC Parks determined that the invasive vines and trees, that had taken hold in the areas disturbed by the highway construction, were a severe threat to the forest health.

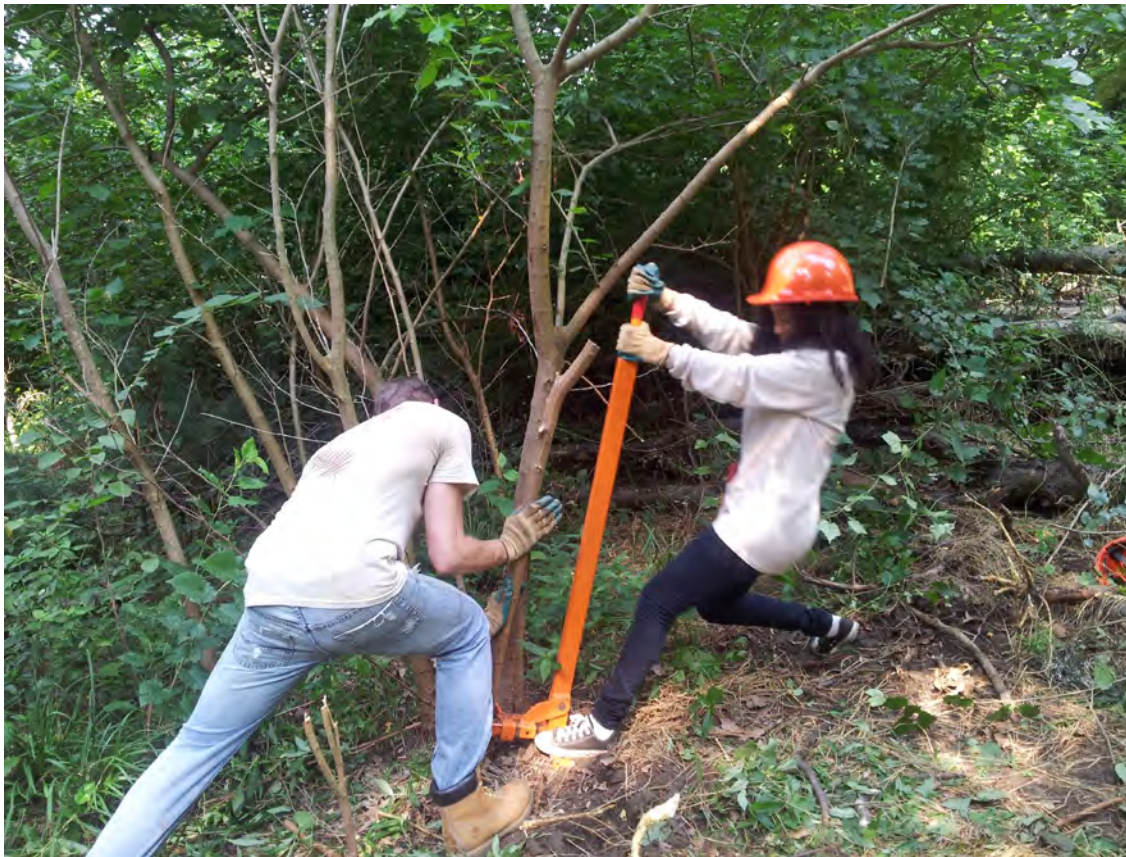


Invasive vines killing trees.

Park Evolution



Removal of Porcelain vine by forest restoration crew member.



Green Jobs for Youth participants.

Forest Restoration and Infrastructure Construction

In 1988, NYC Parks started assessing the forest and initiated its restoration. Since then, forest restoration crews have worked systematically to remove the invasive vines and trees, and to restore the health of the forest and its ecology. At the same time, NYC Parks constructed or restored playgrounds and other facilities in the park in response to community demand.

The Department of Transportation rebuilt portions of the highways and incorporated structures to clean highway runoff.

The Department of Environmental Protection constructed the valve chamber in the North East corner and they started the Filtration Plant under the Mosholu Golf Course. Plans were made to cover it with a state of the art driving range and club house. Due to the disruption of the park, mitigation funds from the Filtration plant were provided to fund the restoration of the Parade Ground in 2010, as well as forest restoration crews until 2015.



Prior Plans & Studies

There have been a number of studies that look at the aspects of the park.

Natural Area Restoration

1985 Feasibility Study for Lake Restoration

Storch Associates and
Bay State Environmental Consultants

1988 Natural Areas Assessment

NYC Parks

1999 Water Quality Management

Malcome Pirnie for NYC DEP

2009 Woodland Trail Master Plan

New York- New Jersey Trail Conference
for the Friends of Van Cortlandt Park

2010 Breeding Bird Survey

NYC Audubon members David Kuntsler and
John Young

2012 Natural Areas Assessment

NYC Parks

2013 Ecological Assessment

Natural Areas Conservancy

2014 Natural Areas Management Plan

NYC Parks

The **Natural Areas Management Plan**, developed by NYC Parks, systematically addresses the critical issues of managing forests, wetlands, and meadows for the health of the area and its animal inhabitants. Every effort needs to be made to implement that plan.

Park Restoration

1979 Preliminary Plan

Office of Councilmember June Eisland

1981 Analysis and Development Plan

NYC Parks

1986 Park Restoration & Circulation Study

Storch Associates

The early **Park Restoration** plan identifies problems and aspects of solutions, many that have not yet been addressed. These studies need to be updated and a plan needs to be prepared that addresses the problems in a comprehensive manner including strategies for sustaining the solutions.

History

1984 A History of Van Cortlandt Park

Storch Associates and Lloyd Ultan, Historian

2003 Cultural Landscape Study

Historic House Trust and Eileen Wilde

The **Park History** is well documented and was considered but not restated in this plan.



Community Concerns

We interviewed citizen and civic groups, park employees, and community planners. People who have a history of working in a park or using a park have intimate knowledge of what should be preserved, enhanced or fixed.

A broad range of park users and organization representatives participated in a community wide work session on April 23, 2012, where they mapped community concerns, work underway and ideas for improvement.



Excerpt from the birders brainstorming map.

We met with user groups, neighborhood associations, and service providers including:

50th Police Precinct

Bicyclists

Birders

NYC Parks Bronx Commissioner Aponte and staff

NYC Parks Capital Projects and

Natural Resources Group

Community District 7 Parks Committee

Community District 8 Parks Committee

Cricketers

Cross Country Running and Track Users

Friends of Van Cortlandt Park

Handball and Stadium Users

National Society of Colonial Dames of New York

Park Natural Areas and Trails Staff

Settlement House Associations

Soccer and Baseball field Users

Van Cortlandt Park Staff, Rangers

and Parks Enforcement Patrol

Van Cortlandt Park Community Council

Van Cortlandt Park Conservancy

Woodlawn Taxpayers Association

Yonkers/Groundworks

Yonkers Mayor's Office and Senior Staff



Community Concerns

- 1** Increase connections across the highways and to neighborhoods surrounding the park, including Yonkers.
- 2** Provide beautiful entrances with rule and orientation signs. Improve the park perimeter and furniture vocabulary.
- 3** Provide a clear and continuous path system that is well signed. Create more connections to bike routes.
- 4** Increase safety and maintenance scope and efforts.
- 5** Minimize the impact of other City agency facilities on the Park.
- 6** Improve trail condition. Incorporate the Friends of Van Cortlandt Park's Trail Plan into the Master Plan.
- 7** Improve forest health. Incorporate the Natural Areas Management Plan prepared by the VCP Forest Restoration Team into the Master Plan.
- 8** Preserve and promote historic sites and trails.
- 9** Improve sports facilities and the stadium.
- 10** Create an outdoor amphitheatre or performance space.
- 11** Offer classes for children. Develop more family activity areas and facilities, including the stable, the golf course, the ice rink, interior recreation and gardening.
- 12** Expand concessions options.



Postcard From 2032: What community members imagined

I spent the day in Van Cortlandt Park playing softball and riding my bike, relaxing by the side of Van Cortlandt Lake. Tomorrow I will run the Cross Country trail while my grandchildren go skateboarding in the park - except the youngest, who will play on the swings in the playground. And I will be buried on Vault Hill.

Just went to VCP. We spent the day hiking, had a picnic by 242nd Street (no mud in sight). Took my grandchildren on a horseback ride like I did when I was a kid, and visited a community garden that runs public programs teaching urban children how to grow veggies. Can't wait to come back to volunteer.

Hey folks. Spent the day in the park and plan to spend the evening here too. Did a 10 mile trail ride on the black horse - then a hot shower and sauna over at the lake house. We will have dinner at the "Cafe in the Woods" - a show at the public theatre and a dance at the moonlight deck. XXO!

Took a long bike ride on the Putnam Trail into Westchester, and relaxed on the Parade Grounds for NY Philharmonic Concert.

I spent the day hiking the various trails of VCP. They were so beautiful and we saw deer, turkey, and hawks. I've never taken so many pictures. I liked the Park so much I crossed the street and stayed at this luxury hotel. Tomorrow I'm going fishing, for a boat ride, and for a trail ride on a horse - all in VCP.

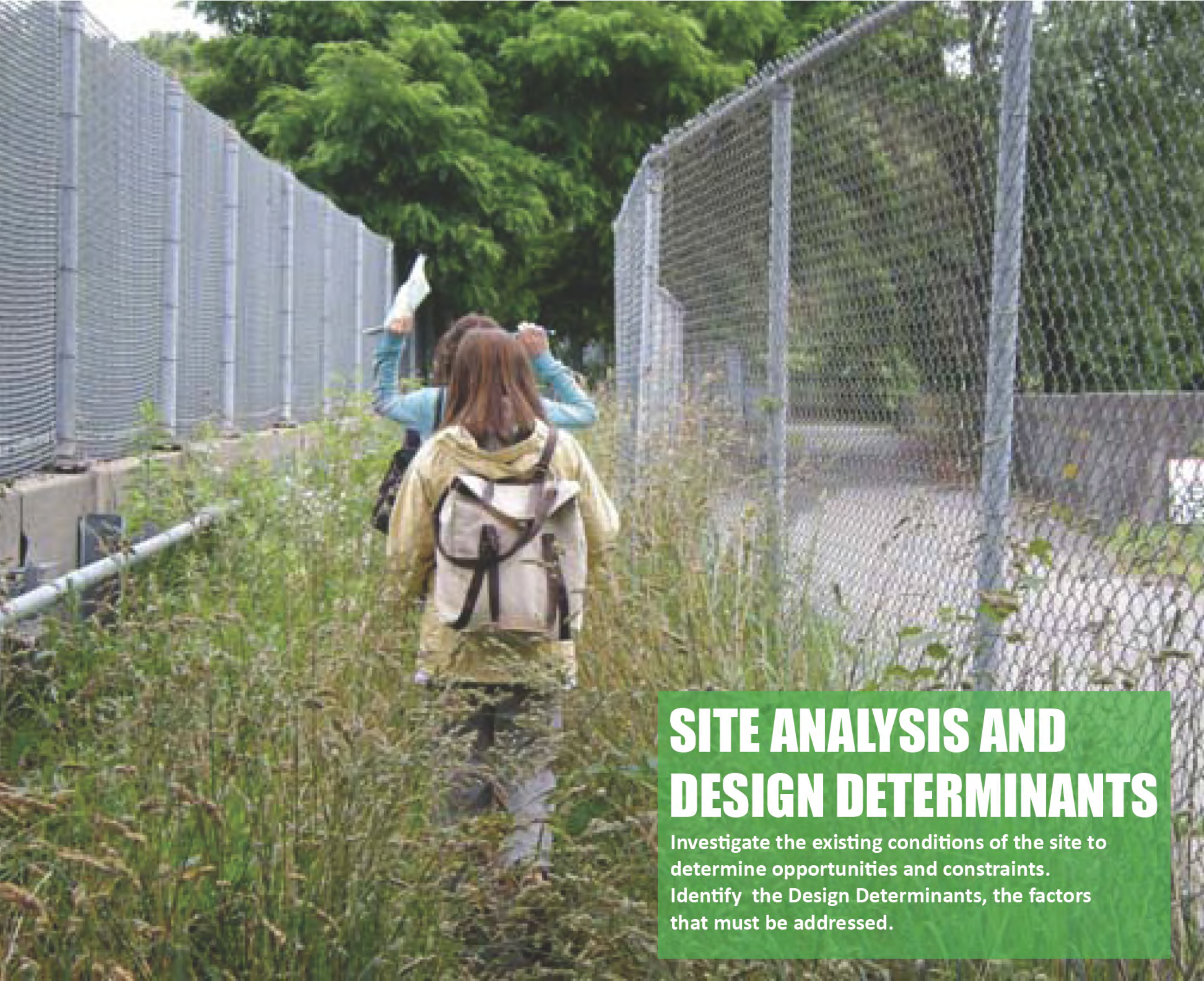
Dear Martha, I am here at Van Cortlandt Park and it's beautiful and I think that I am in Central Park. It has all the look and feel...

I just ran in one of the top cross country trails in North America at Van Cortlandt Parks in the Bronx. I saw a deer in the urban wilderness, as well as two birds of prey. You should make sure you hit the green here, the first public golf course in the U.S. Bring your camera, it's gorgeous walking or running the trails.



Dear S+C, Dad and I walked the trail and saw birds and it is just the same as when you were little. Then we had dinner at the beautiful restaurant overlooking the pond, and heard a concert at the outdoor theatre on the grounds of the mansion. Love, Mom

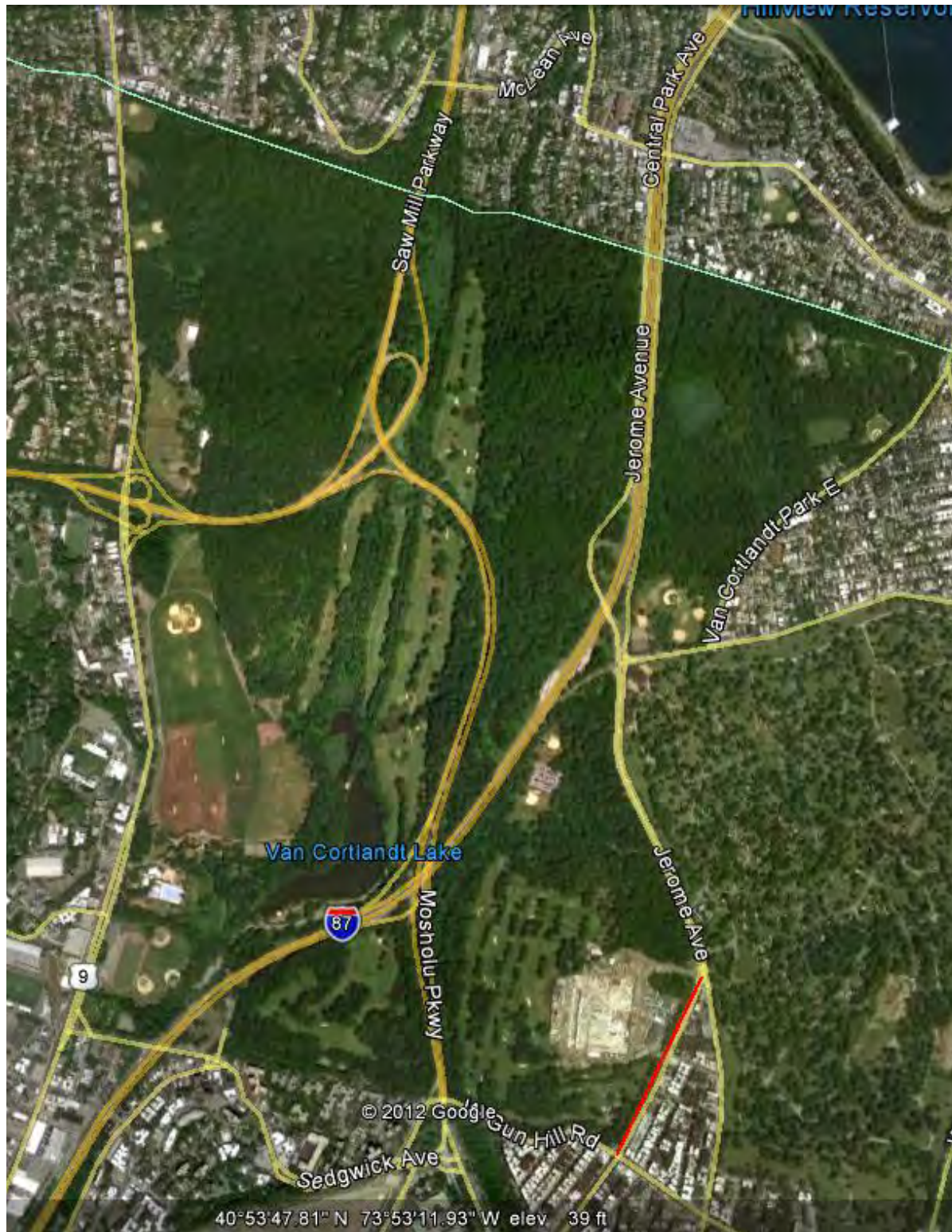
I took this fantastic bike ride from midtown Manhattan to Brewster, NY. The amazing part was it was all on a dedicated bike path. There were no cars honking at me to move out of their way! I passed through Van Cortlandt Park, one of the most beautiful parks in the city.



SITE ANALYSIS AND DESIGN DETERMINANTS

Investigate the existing conditions of the site to determine opportunities and constraints. Identify the Design Determinants, the factors that must be addressed.

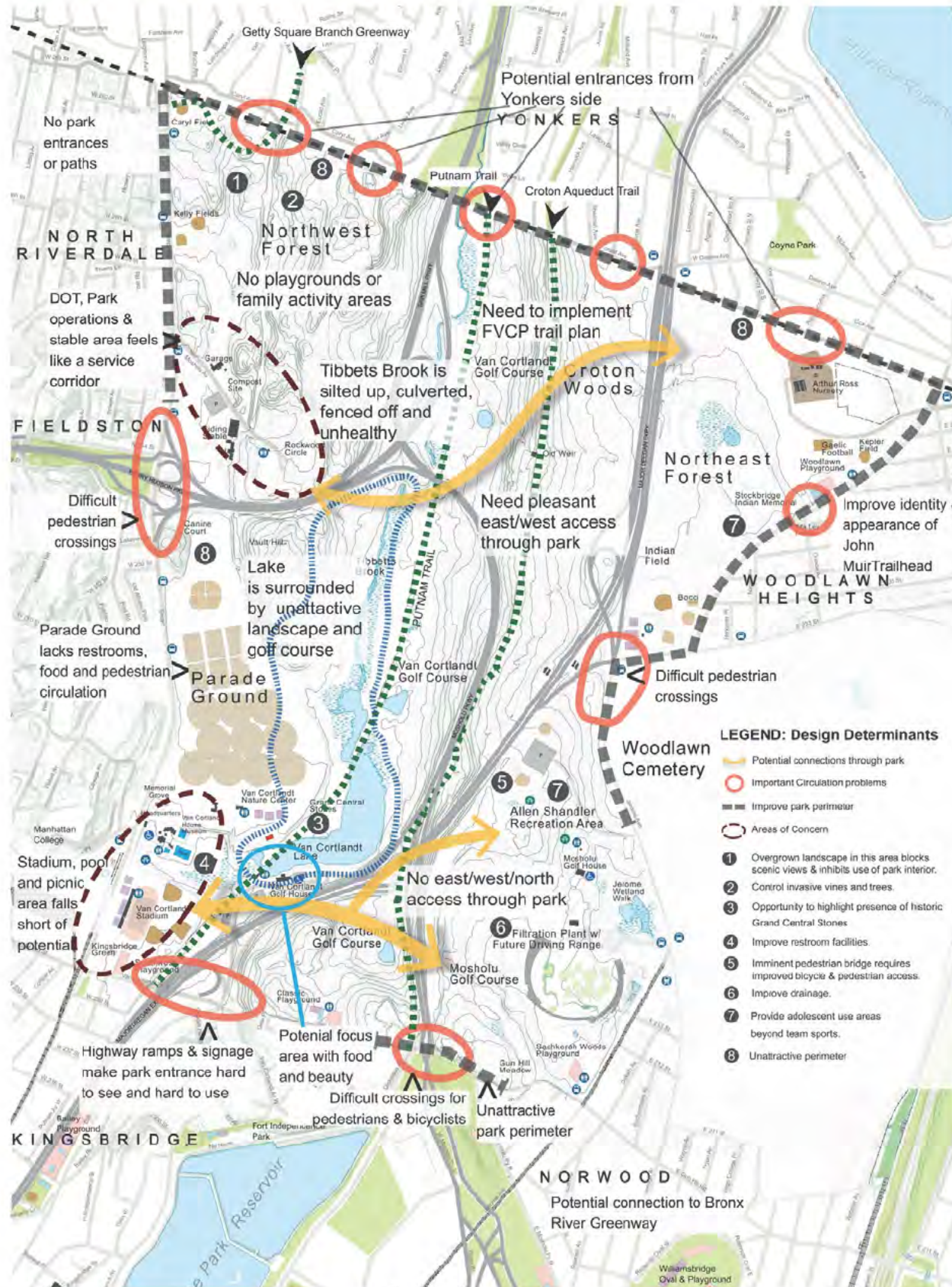
Major Assets



Van Cortlandt Park, aerial photo.
Source: Google Maps

- 1** The forest is one of New York City's largest and oldest native forests. Its hills contain native habitat, natural features, and scenic beauty.
- 2** It has a premier cross-country course and a century long history of cricket and golf.
- 3** It is part of an extensive Greenway system that provides access to regional biking and walking.
- 4** Although half of the park is designated Forever Wild, there is space available to meet the current recreational needs of the community.
- 5** The Van Cortlandt mansion and grounds, as well as portions of the historic roads and topography, are intact.
- 6** Tibbetts Brook and its surrounding landscapes and marshes have enormous potential for natural habitat and beauty if the brook is reconnected, dredged, restored and daylighted.

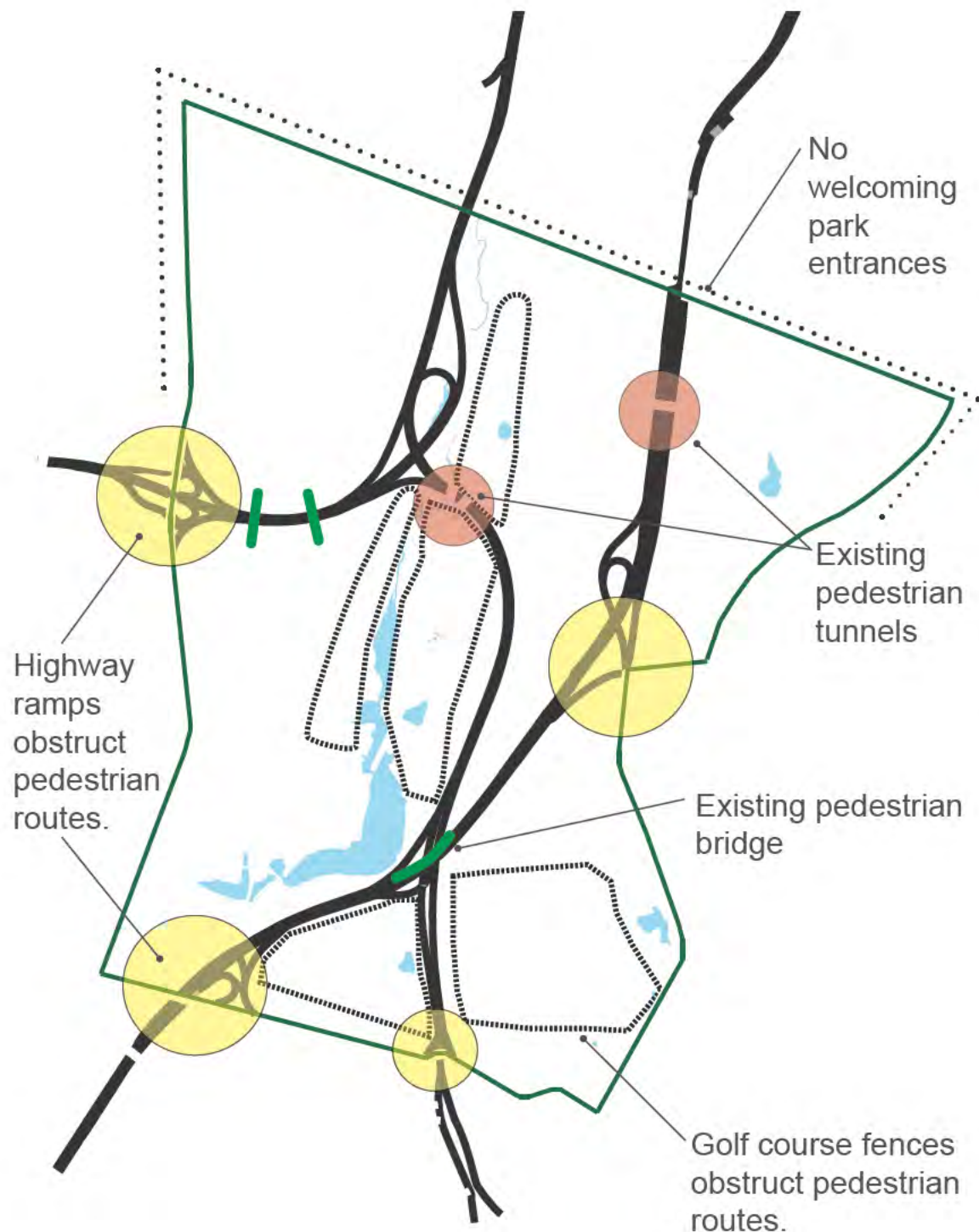
Major Challenges



- 1 No comprehensive master plan was prepared for the park after the land was acquired.
- 2 Highways have fragmented the park into six pieces without regard for pedestrian circulation, park beauty, brook continuity, and forest ecology.
- 3 The park circulation system is discontinuous and ill defined. Some neighborhoods lack welcoming entrances and paths.
- 4 The regional bike and pedestrian arteries are disconnected and in poor condition.
- 5 Invasive trees and vines are killing native forest and habitat. Scenic views and landscapes have been lost.
- 6 Tibbetts Brook is fragmented, culverted, and filled with silt. Overland waterflows have been blocked causing flooding of recreational areas.
- 7 There are insufficient playgrounds and opportunities for family use.



Trails, Pedestrian and Bicycle Circulation



• The highways and golf courses are a barrier to pedestrian circulation, as well as park maintenance and patrol vehicles. This forces paths out of scenic areas to highway shoulders.

• The highway entrance ramps obstruct pedestrian circulation on the perimeter of the park.

• The trail system needs to be revised to take people near scenic viewpoints and away from fragile soils and ecosystems.

• The park does not have paths that allow people to traverse and circumnavigate the park. New paths will need to be located in the field to avoid damage to ecologically sensitive areas. New paths in forest and nature areas will be porous, flexible & non-toxic.

• The major regional bicycle routes need ways to traverse the park without conflict between pedestrians and bicyclists.

• Some neighborhoods lack welcoming park entrances.

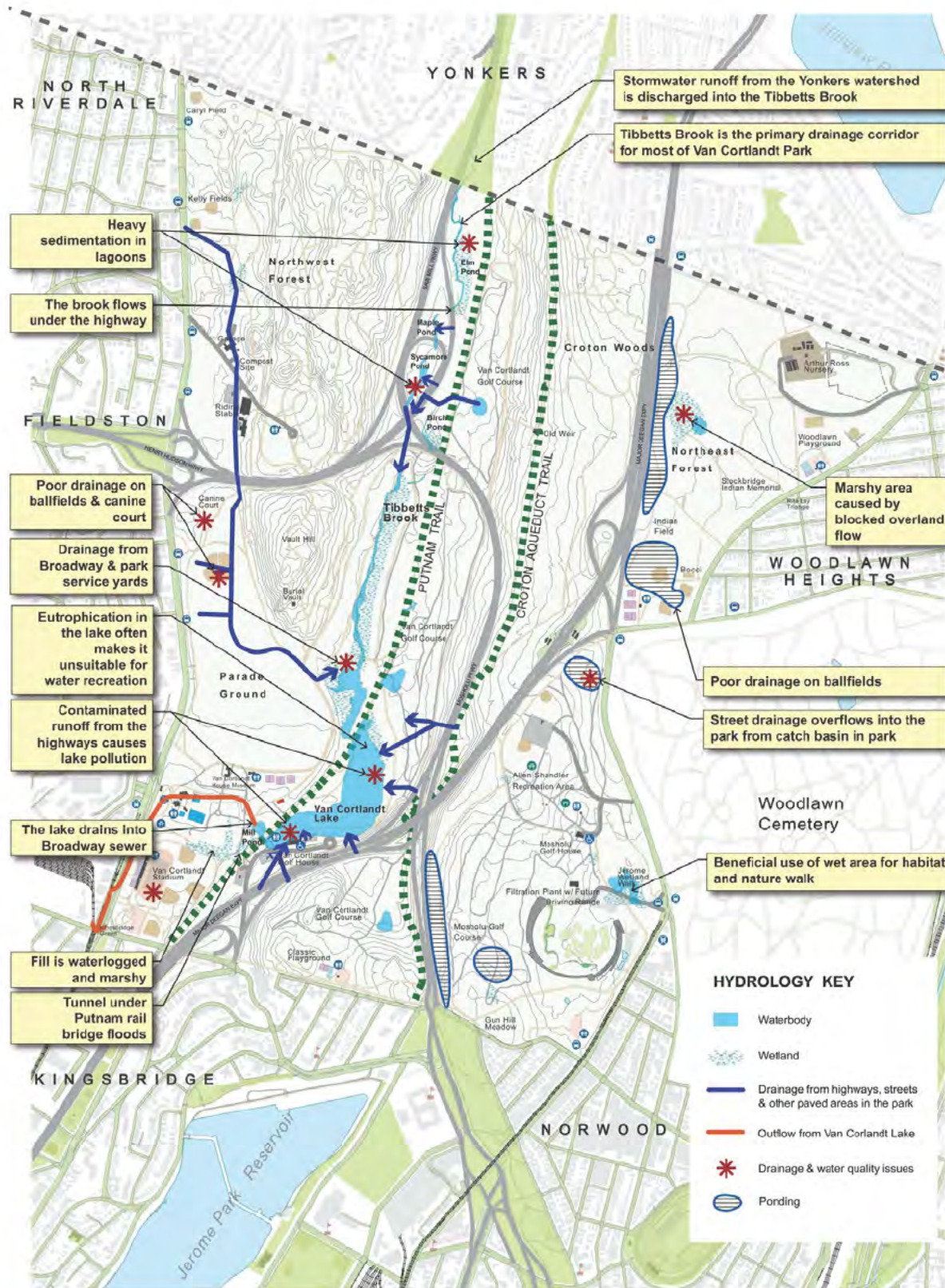


Golf fences block pedestrian paths.



Highway ramps obstruct pedestrian routes.

Tibbetts Brook and Park Hydrology



- Tibbetts Brook needs to be reconstructed as a continuous series of pools and streams designed for **ecological health and natural appearance**. The DEP Bluebelt project, in design now, will reconnect the brook, deepen and restore the marsh.
- The highways block overland flows and are causing ponding of natural areas and athletic fields.
- The lake needs to be deeper to accommodate diving birds. This will require dredging, perhaps this can be accomplished by the Bluebelt project.
- There is a large pipe that discharges storm water from Broadway, the Parade Ground and the maintenance yard into the pond. This water needs to be cleaned and filtered, and the pipe needs to be concealed.



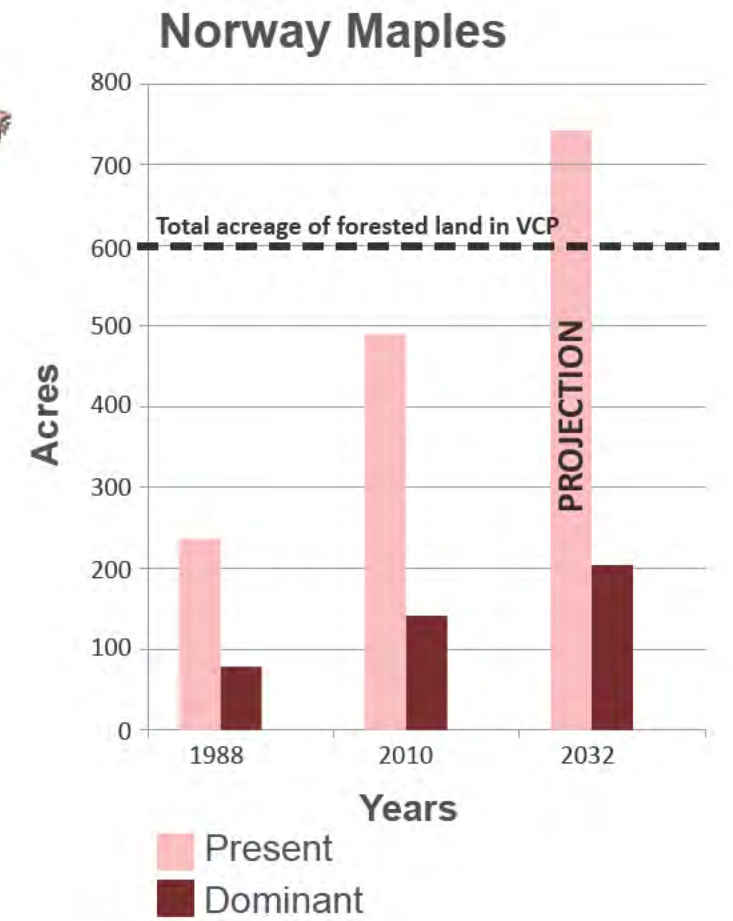
View of outfall from Broadway and park service yards.



Ecological Concerns

Norway Maples in 1988 & 2010

At the current rate of expansion, without increased management, Norway Maples will dominate another 50 acres by 2032, killing the understory and preventing the succession of the native forest.



Norway Maples

- Present
- Dominant

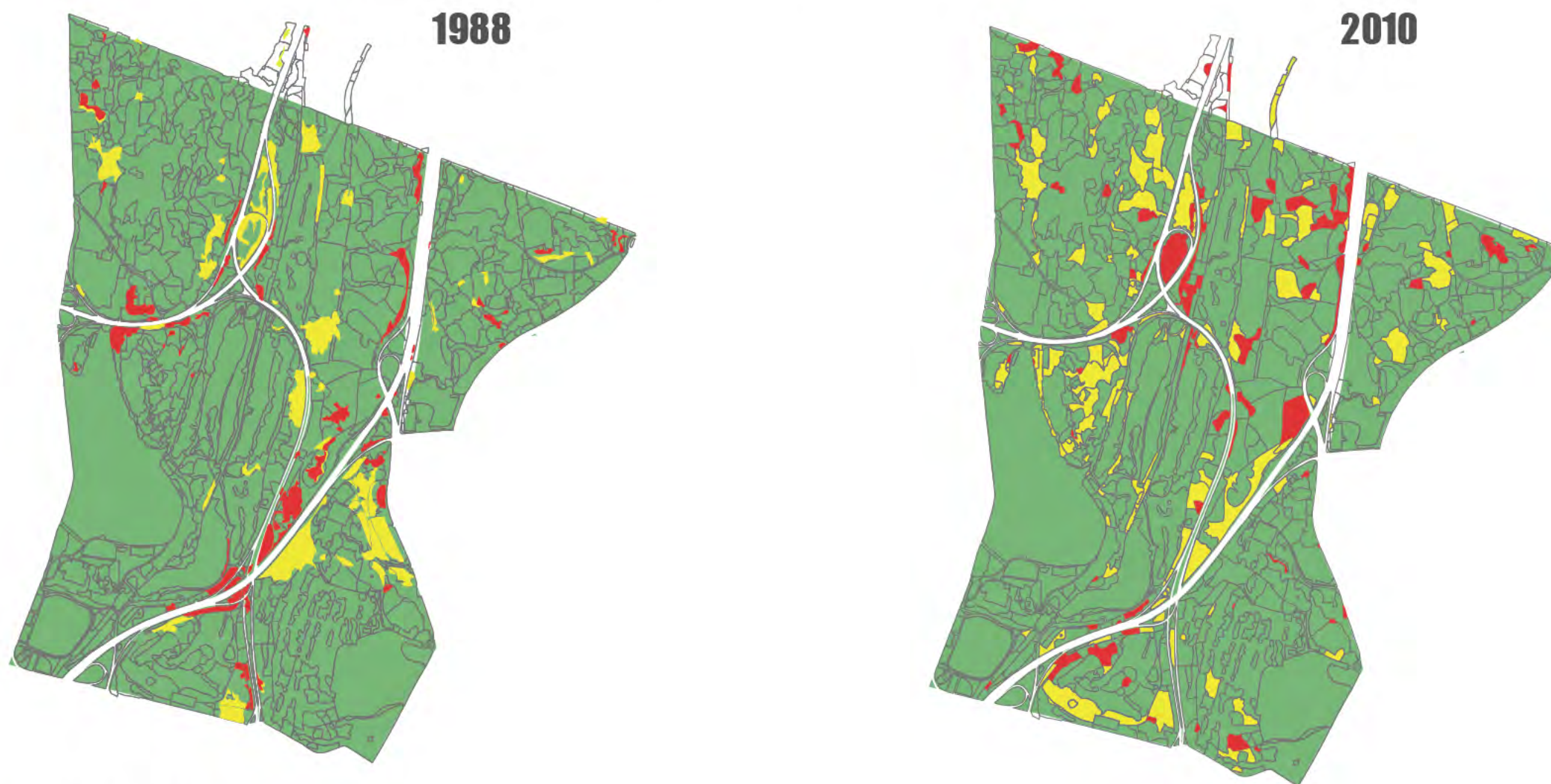
Source: 1988 & 2010 NRG Entitation Data



Ecological Concerns

Invasive Vines in 1988 & 2010

Although many zones of the park have been improved by the National Resources Group, the rate of eradication was not keeping up with the rate of expansion in 2010. At the current rate of expansion, without increased management, **30 acres** of forest will be killed by invasive vines by 2032.

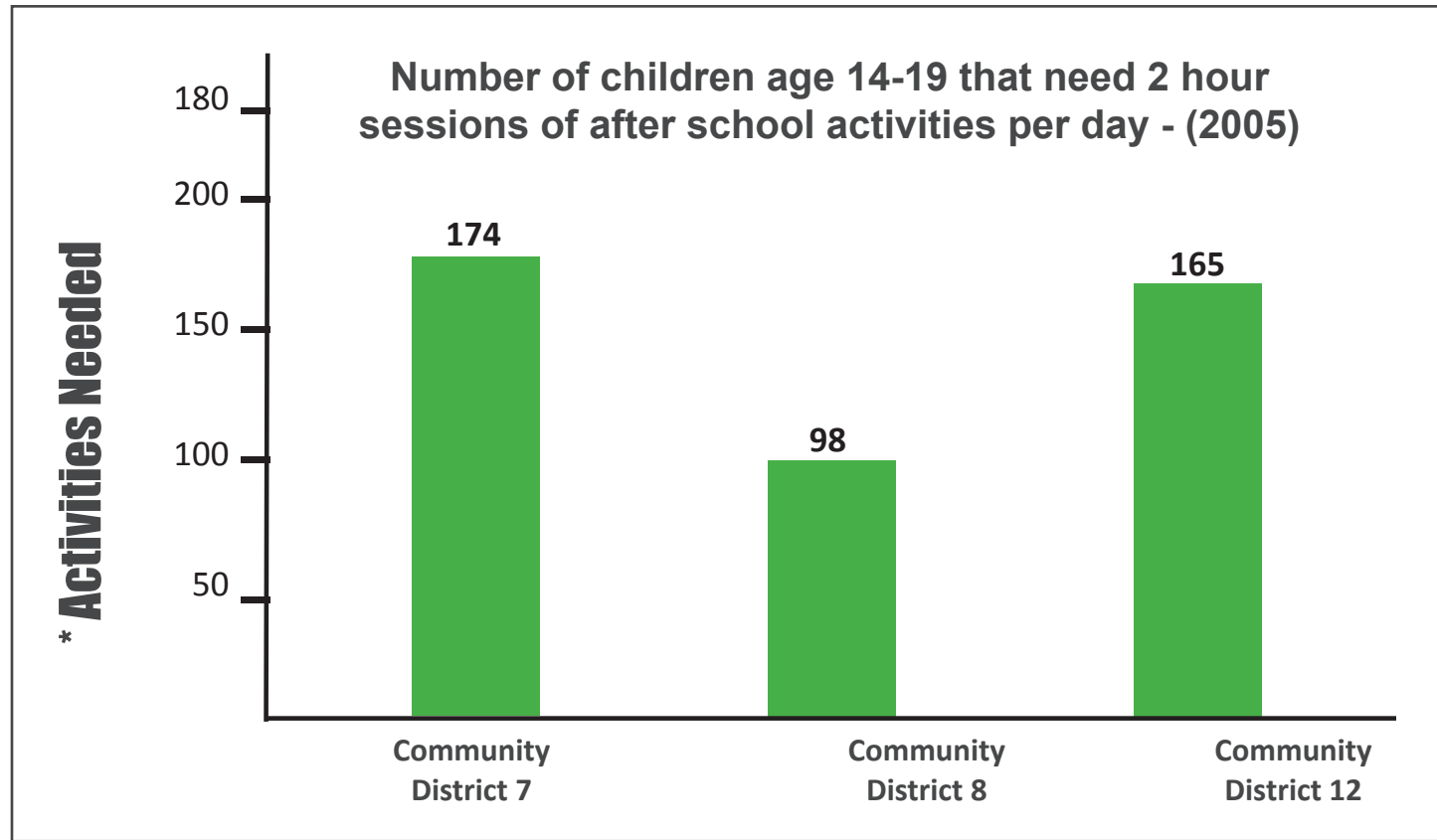


Invasive Vines

- Present
- Dominant

Source: 1988 & 2010 NRG Entitation Data

Need for After School Activities



There is a shortfall of after school activities. This contributes to poor physical health and youth crime.

(Source: Citizens' Committee for Children of New York - Keeping Track Database)

- We need to identify partners who can provide programming in Van Cortlandt Park and either permit or construct facilities that are needed.
- We need to do further outreach to this age group to determine what facilities they would find attractive such as a skate park or other active recreation.



Community Health: Obesity & Physical Activity

1/4 to 1/2 do not exercise. 16% to 25% are obese.

Yonkers

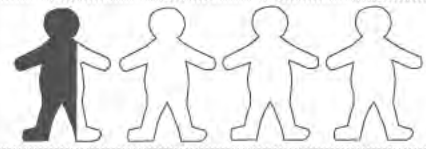
Nearly 1/4 do not exercise

21%



20% of people in Westchester are obese

20%



Community District 7

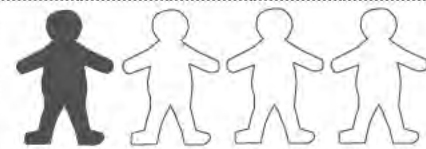
Nearly 1/2 do not exercise

47%



25% of people in North Bronx are obese

25%



Community District 8

Nearly 1/3 do not exercise

37%



16% of people in Riverdale are obese

16%



Community District 12

Nearly 1/2 do not exercise

42%



25% of people in North Bronx are obese

25%



The park needs more **opportunities for exercise** that can be integrated into everyday life such as **walking, bike riding, and playing catch with children.**

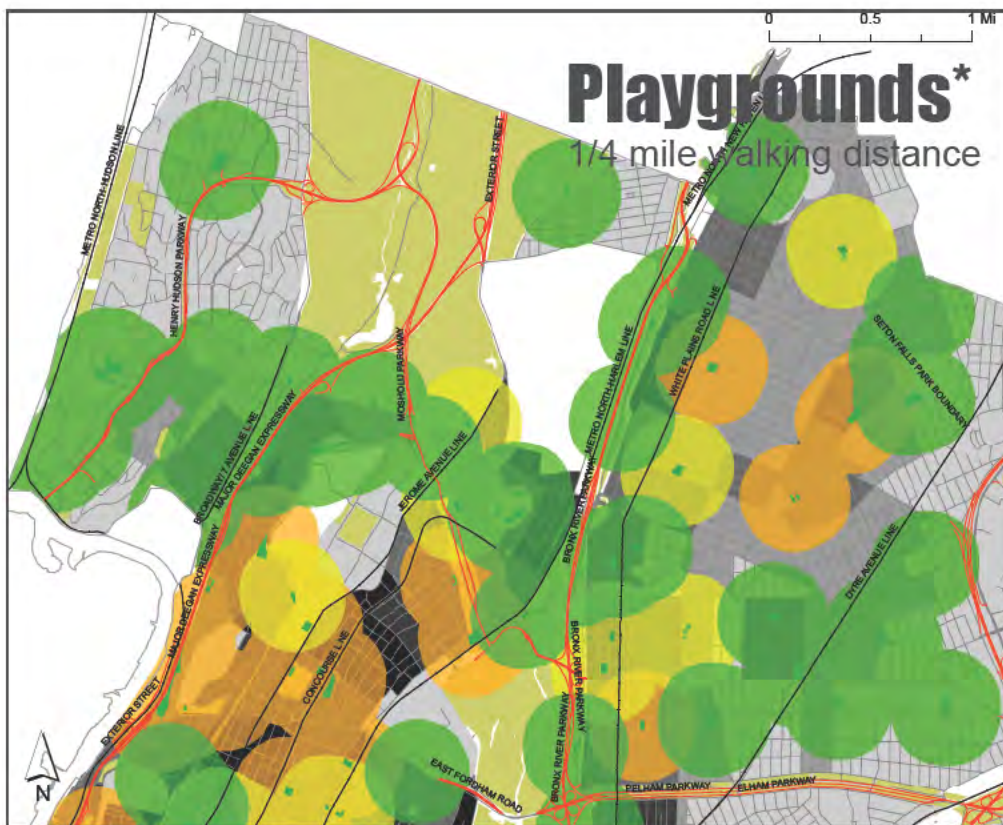
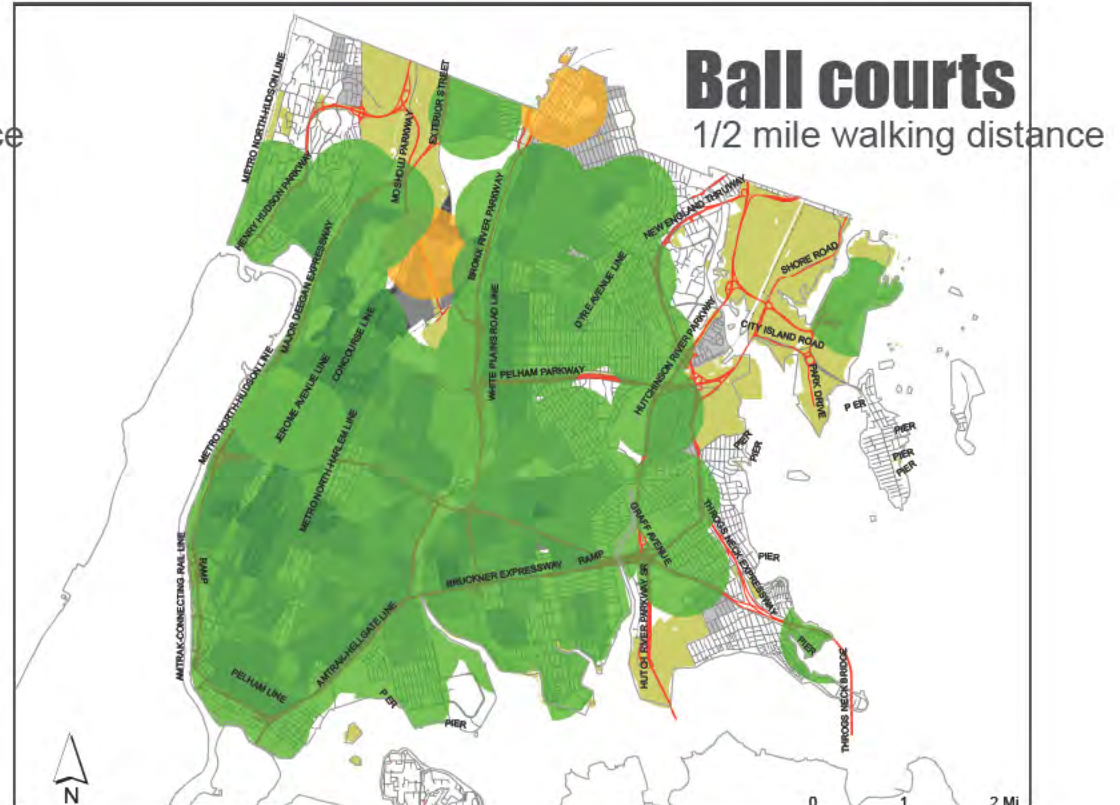
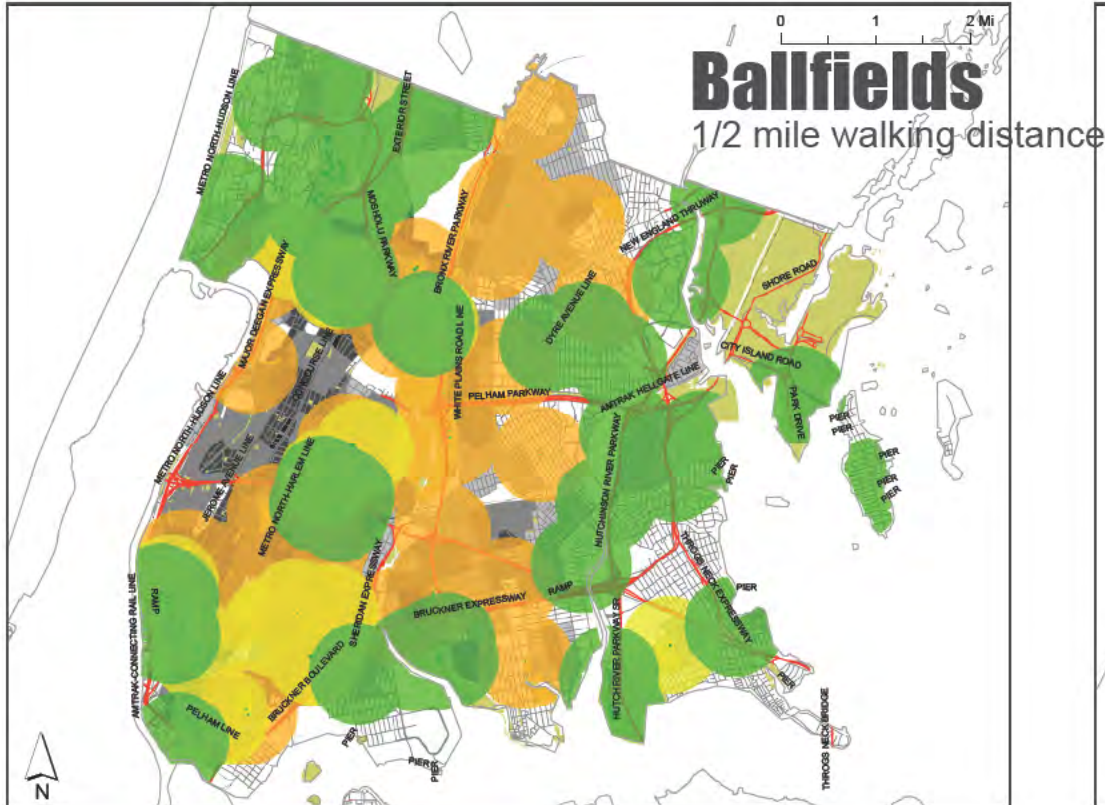
The park needs to be more **inviting for family activities.**

Park users lament there are no **continuous loops for strolling or jogging.**

Obesity is having 20% or more over an individual's ideal body weight.
Exercise is defined as physical activity for at least 30 minutes in a week.



Park Facility Adequacy



KEY

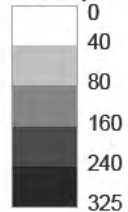
- Parks
- Major Highways
- Railroads
- Streets

1/2 Mile Walking Radius

- Well Served
<7,000*
- Moderately Well Served
<7,000 & >9,500*
- Under Served
>9,500*

*Assumed only population
>5 years use ballfields.

People (Age 0-64) Per Square Acre



Based on walking distances, community demographics and expressed desires:

The park needs at least:

- 1 new playground
- 2 soccer fields
- 2 basketball courts
- Covered programmable space
- Activities for adolescents
- 2 playgrounds need to be enlarged to accommodate the user population.



PARK WIDE CONCEPTUAL PLAN

Illustrate the major actions and projects necessary to solve the problems and meet the needs of the community.

Community Goals: Park Circulation

Pedestrian & Bicycle Circulation

Improve opportunities for natural area exercise and clean air transportation by connecting the neighborhoods and sections of the park together with well-marked, convenient and attractive pedestrian and cyclist paths without conflict between bicycles and pedestrians.

Trails

Develop an exemplary trail system that resists erosion, has minimal impact on the environment and highlights the natural areas of the park.

Cross-country Paths

Preserve the character and improve the condition of the unpaved competitive and recreational running trail.

Equestrian Paths

Encourage horseback riding on designated trails.

Orientation & Communication

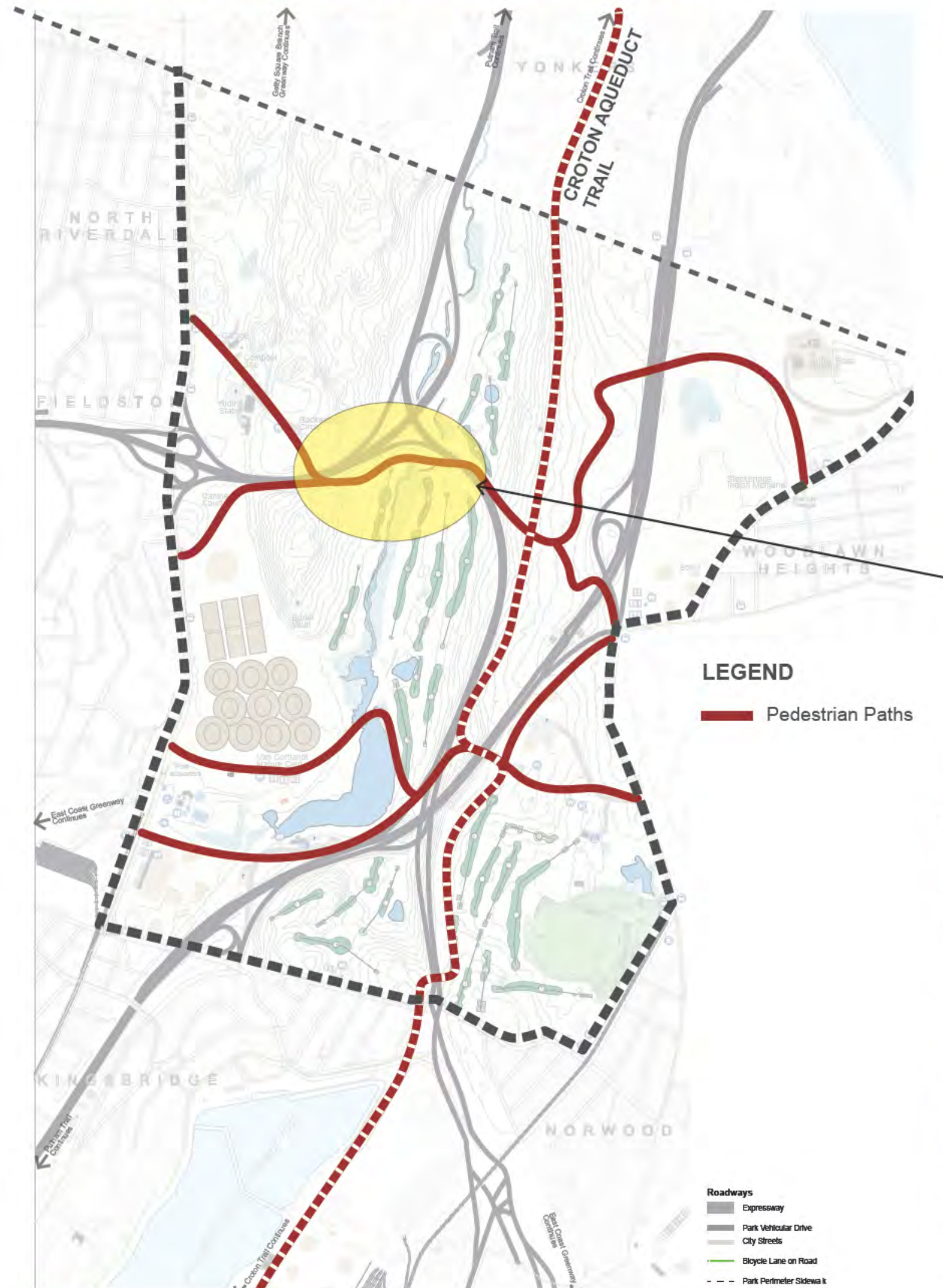
Establish comprehensive and clear signage system to communicate park rules, highlights, trail directions and orientation.

Safety/Social Concerns

Increase knowledge and enforcement of rules as well as quantity and ease of patrols throughout the park.



Concept Plan: Park Circulation

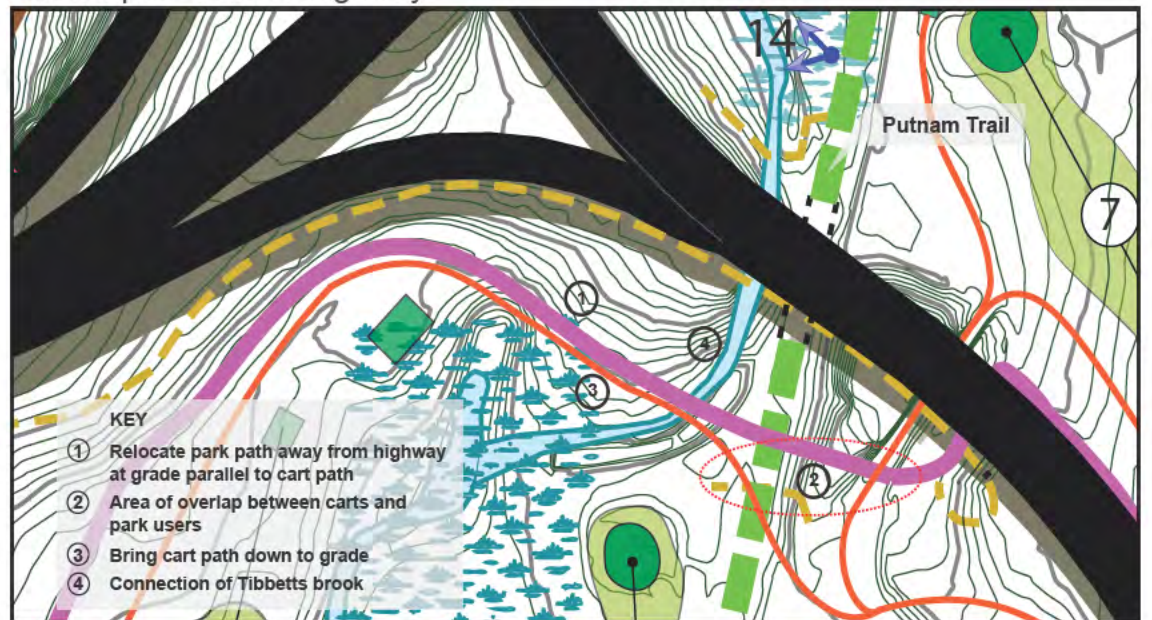


Pedestrian Paths

- Connect the east and west sides with rerouted and improved paths which avoid steep slopes and important natural areas.
- Connect the north and south sides with a pedestrian bridge that serves the Old Croton Aqueduct Trail.
- Reconfigure the golf course fences to allow adequate space for the pedestrian path to cross.



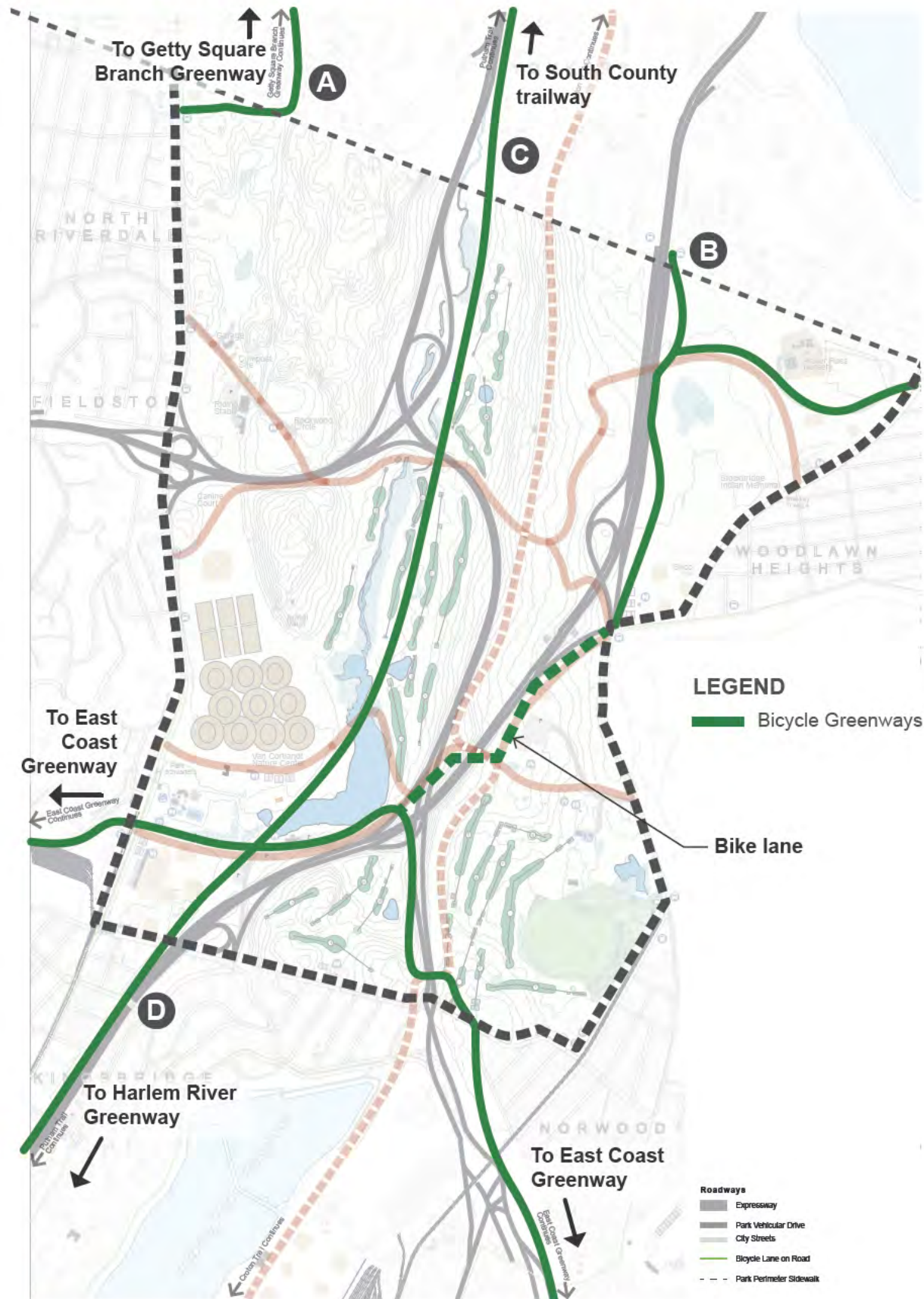
Currently, pedestrians are relegated to a fenced corridor between the golf course path and the highway.



The orange dashed line next to the highway is the current pedestrian path. The purple line is the proposed new pedestrian path.



Concept Plan: Park Circulation



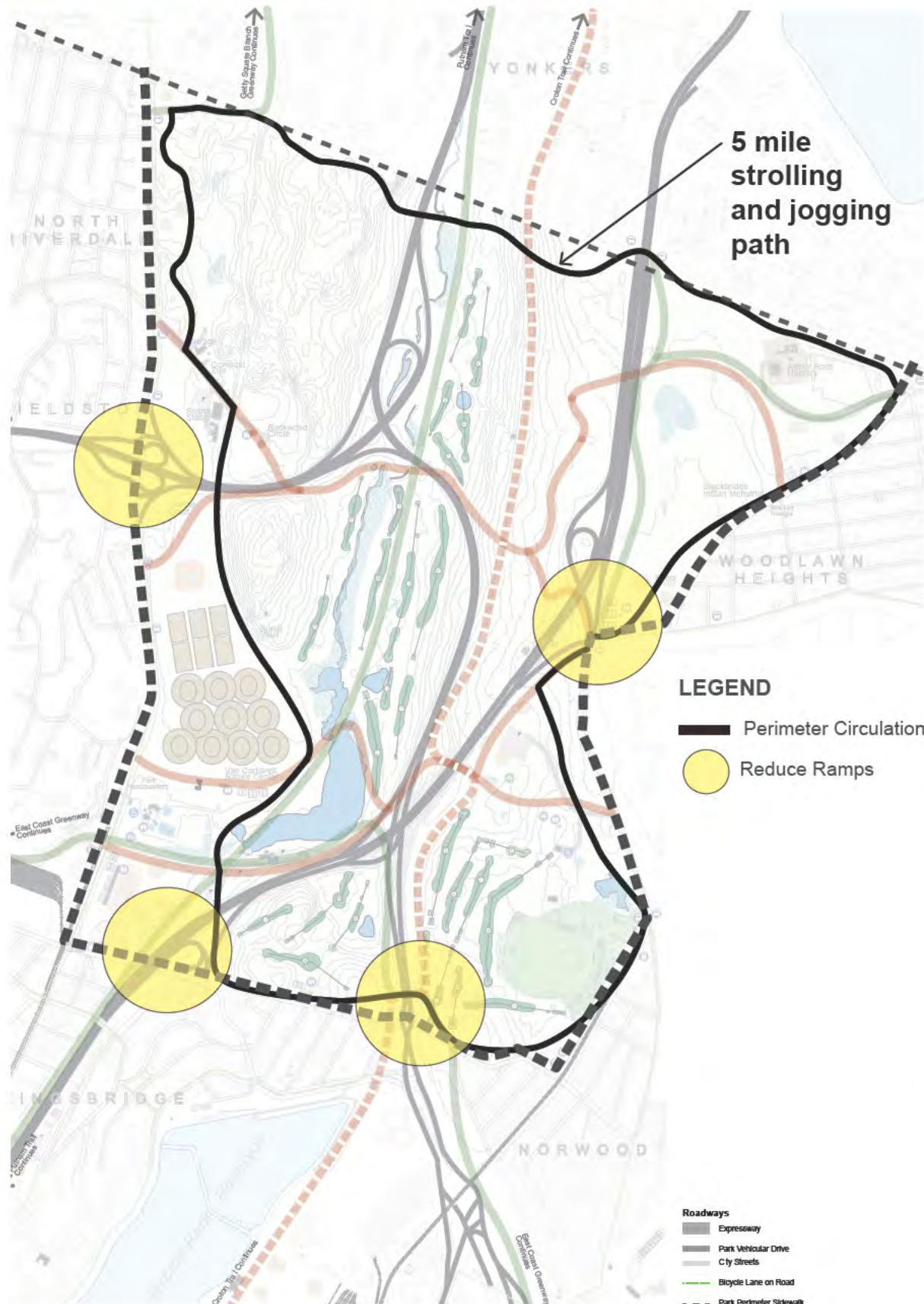
Bicycle Paths

- A** Connect the Getty Square greenway from Yonkers to the park and to Broadway.
- B** Improve the paved path east of the Major Deegan in order to connect the north side of the park to Jerome Avenue.
- C** Construct the Putnam rail corridor bike path. Connect the 36 mile long North and South county trailways to the future Harlem River Greenway and the East Coast Greenway. Provide a separate dirt path for people who would like a more natural experience and to separate bicyclists from pedestrians.
- D** Connect to the Yonkers mixed use path and improve the Putnam Rail corridor to extend the path south through the park to the Harlem River.



Muddy conditions on the Putnam Greenway.

Concept Plan: Park Circulation



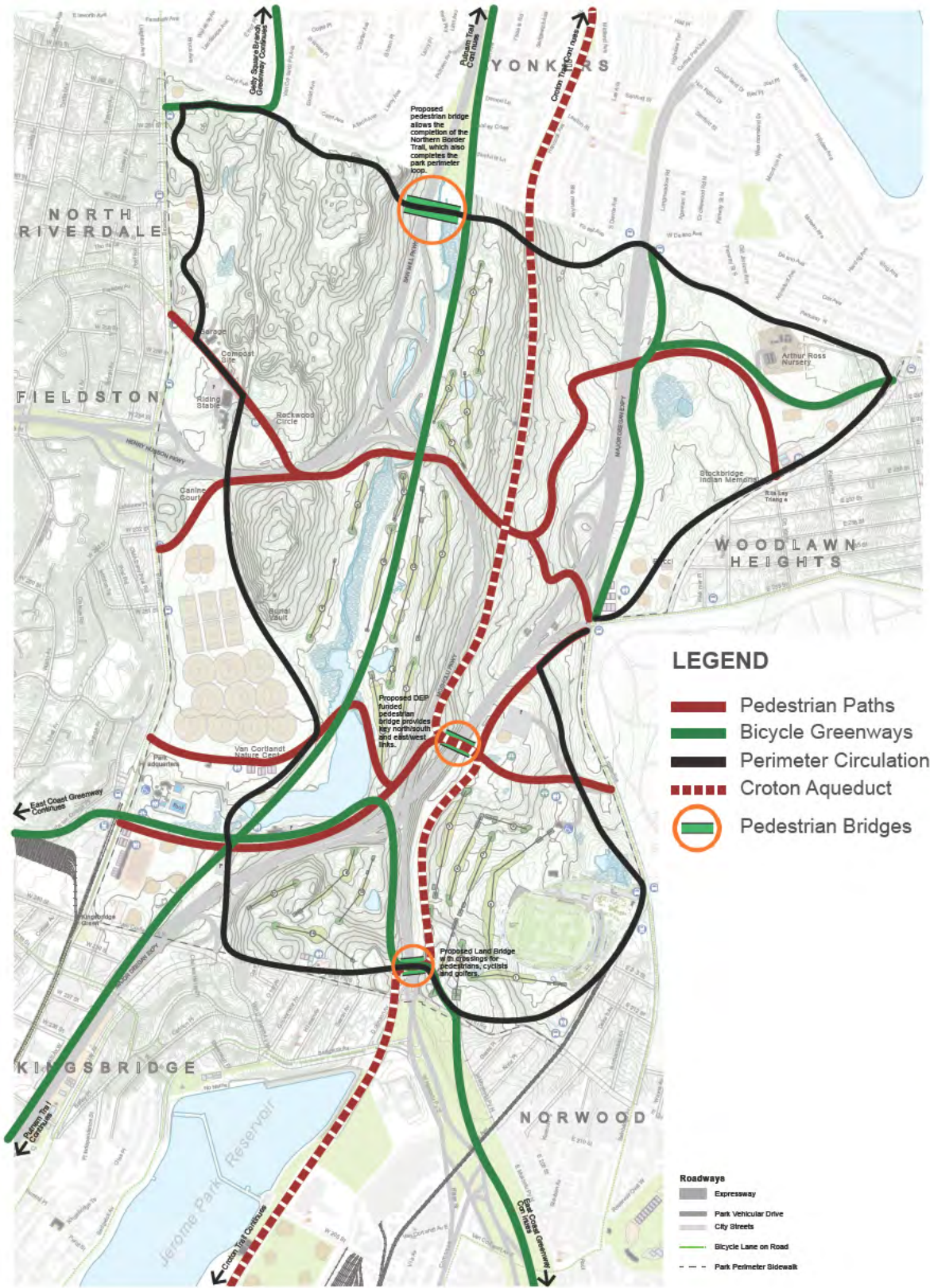
Perimeter Circulation

- Create a clear and continuous path around the perimeter of the park that will be attractive for jogging and strolling. Use existing paths and desire lines as much as possible. Site the path 20-30 feet inside the park, avoiding impact to the healthy forest areas.
- Improve the perimeter landscape beauty, visibility from the neighborhood, and habitat for wildlife.
- Work with NYC DOT to reduce the number and width of ramps that connect to the surrounding streets. Decrease the length of the crosswalks.



View of typical unsignaled highway exit ramp without crosswalk.

Concept Plan: Park Circulation



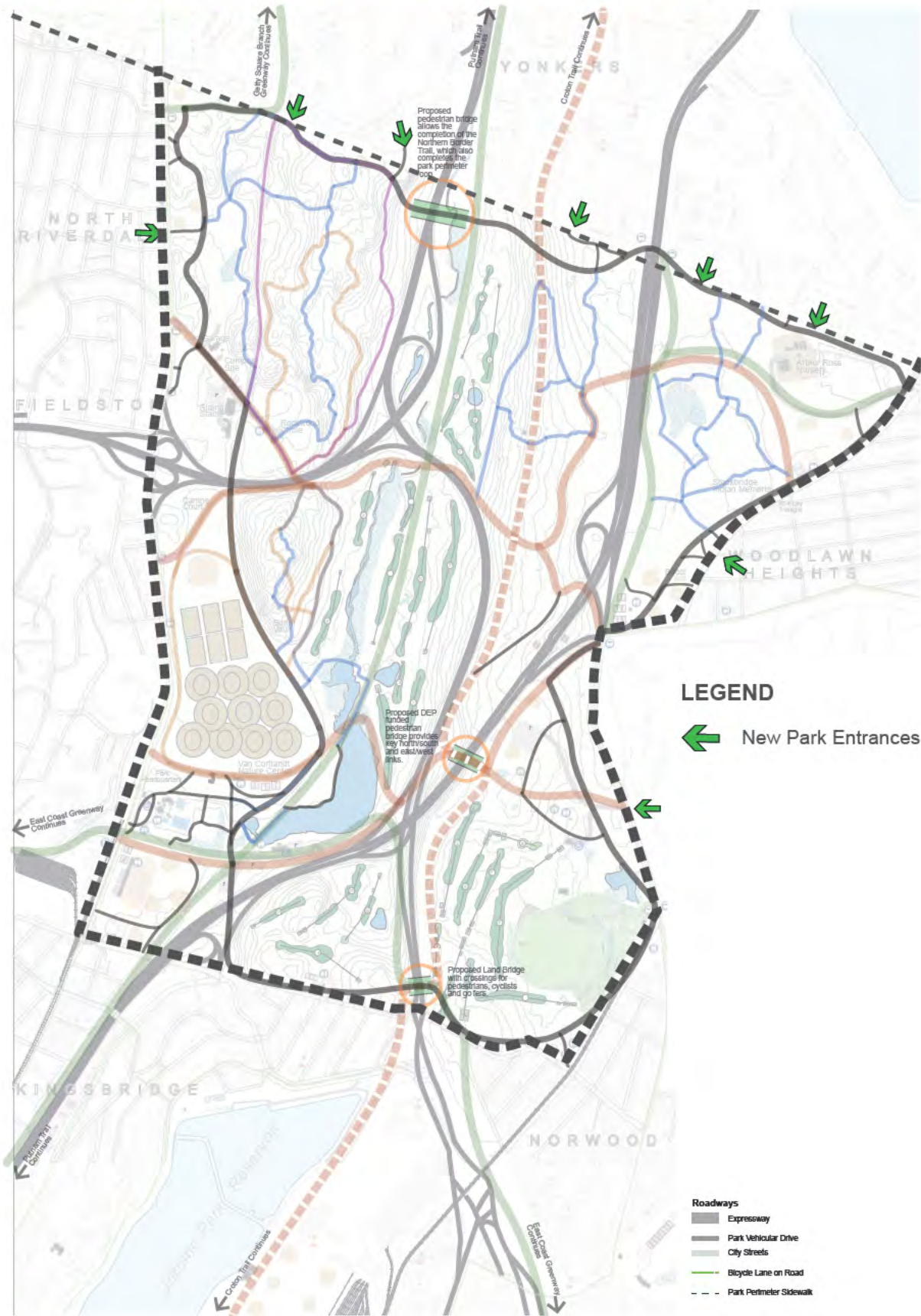
Pedestrian Bridges

- Stitch the park together with three pedestrian bridges over the highways.
- It is important that the southern-most crossing be a “land bridge” with a width sufficient to create the feeling of park continuity, and provide a route for golf carts.
- It should be planted so pedestrians will not be able to see the highway below.



Proposed landbridge enabling pedestrians, golf carts, and wildlife to cross over Mosholu Parkway.

Concept Plan: Park Circulation



LEGEND

← New Park Entrances

Roadways
 — Expressway
 — Park Vehicular Drive
 — City Streets
 — Bicycle Lane on Road
 - - - Park Perimeter Sidewalk

New Park Entrances

- Create attractive entrances with timber rail, locator maps and rule signage.



John Muir trail head in need of improvement.

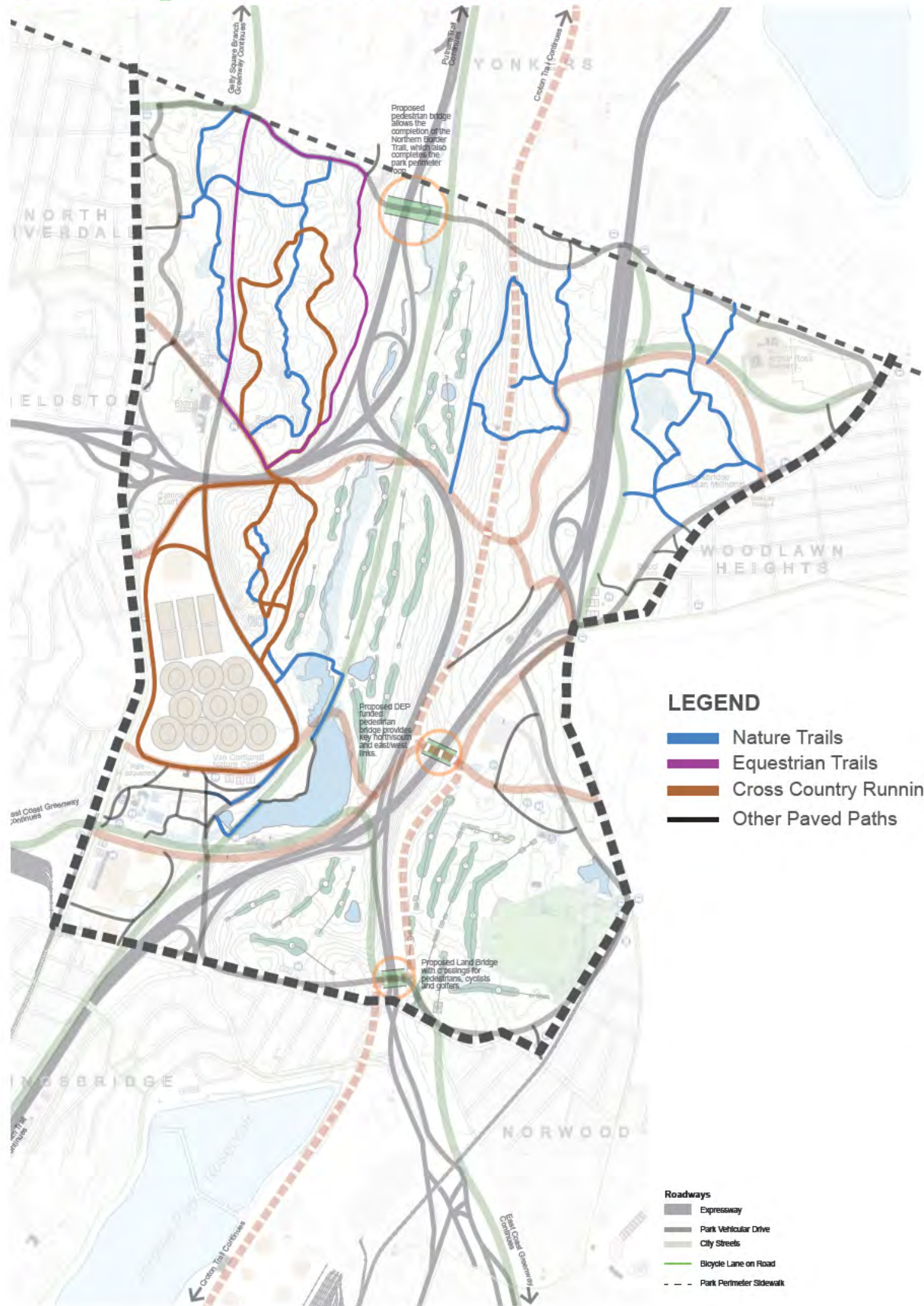


Yonkers border in need of entrances.



New entrance at SE corner by NYC Parks.

Concept Plan: Park Circulation



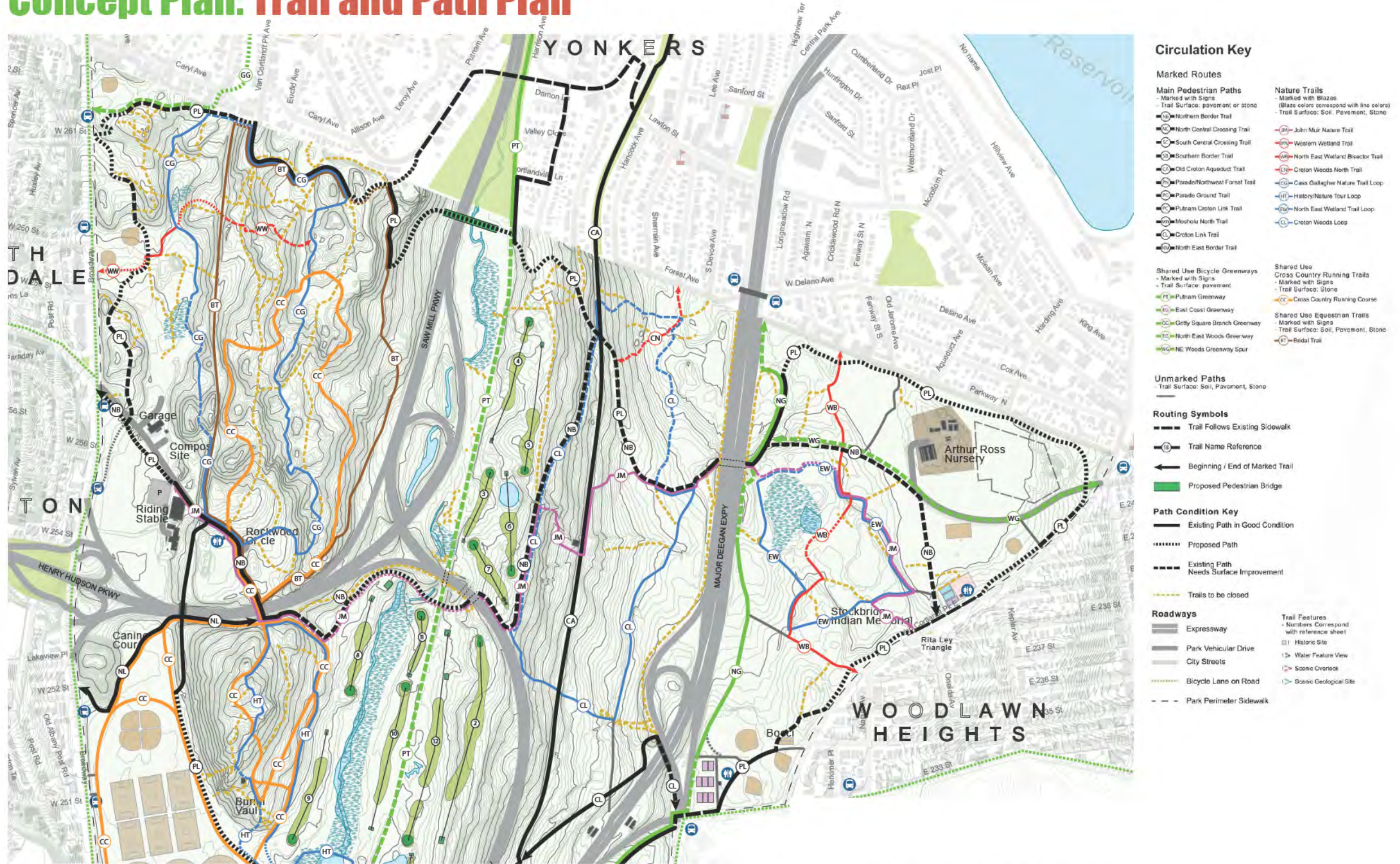
Nature, Running & Equestrian Trails

- Increase the beauty and functionality of the existing trails.
- Restore the trails that provide the best experience and eliminate those that encroach on habitat or those that are prone to erosion. Eliminate redundant trails.
- Strive to create a continuous natural experience for nature trails avoiding proximity to fenced facilities such as dog runs and playgrounds. Relocate the east entrance to the John Muir trail to the south side of the Indian Memorial grounds.



Relocate the east entrance to the John Muir Trail, and restore the trail.

Concept Plan: Trail and Path Plan



This diagram shows which trails will be removed or extended. It shows the general location of new paths which will be routed through nonsensitive landscapes and disturbed areas. New paths in forest and nature areas will be constructed of porous, flexible and non-toxic materials.



Community Goals: Recreation and Facility Needs

Community

Enhance efforts to integrate park into all surrounding neighborhoods through improved access, signage and entrances, as well as through increased partnerships.

Recreational Area & Use

Improve, expand and diversify current conditions and offerings. Improve drainage of ballfields.

Concessions

Improve the functionality, appearance and vitality of park concessions, making sure they align with the natural character of park.

Programming

Provide a diverse selection of year-round programs and encourage community partnerships to expand programming.

Partner Initiatives/Stewardship

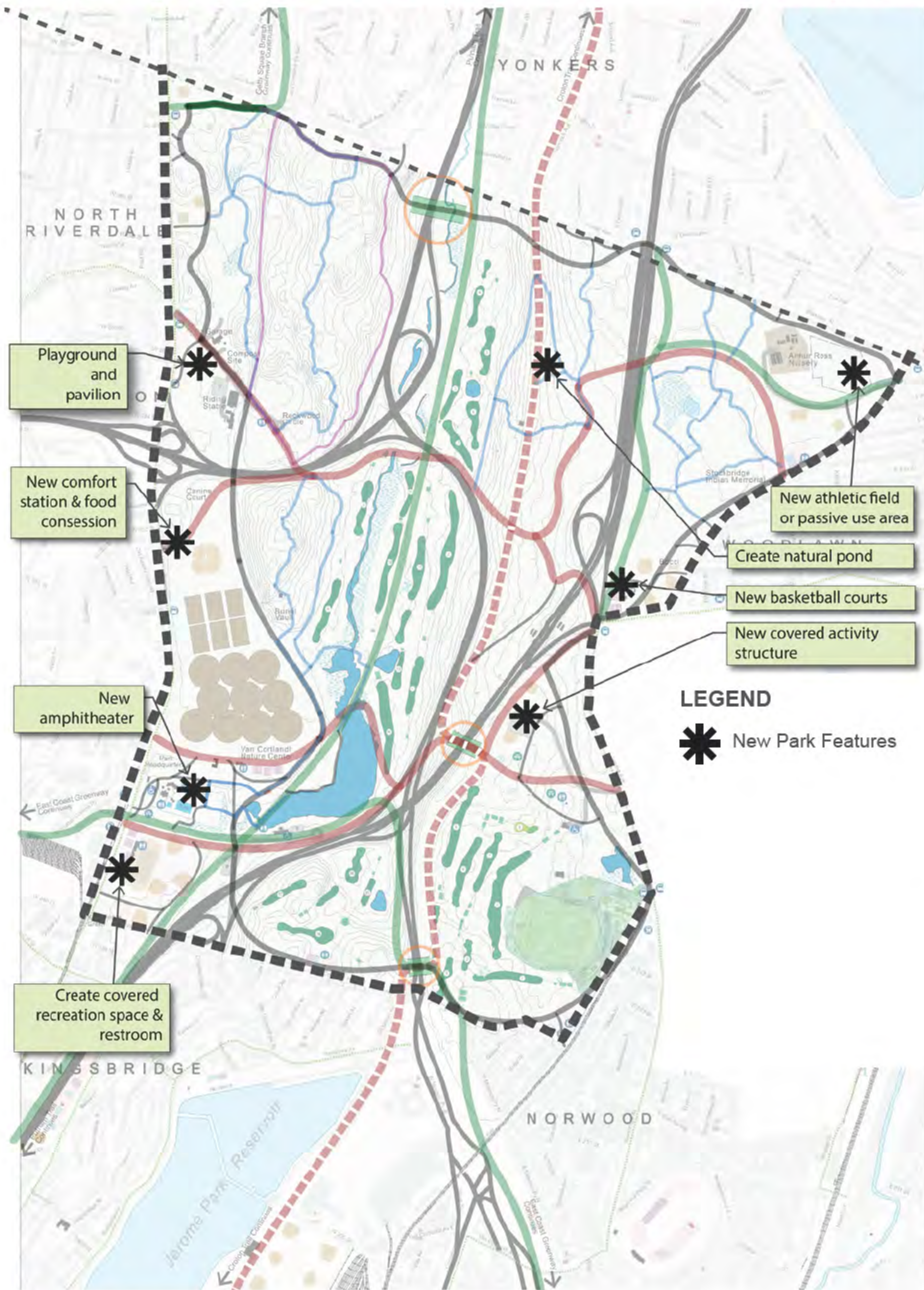
Establish collaborative relationships with organizations with a common goal of enhancing the park and community.

Economic Development

Improve the relationship of the park to its neighborhoods and adjacent commercial areas.



Concept Plan: Recreation and Facility Needs



New Park Features

- Add recreational and cultural facilities that meet the needs of the community.

- 1 Playground
- 1 Athletic field
- 1 Covered recreation space and restroom at stadium
- 1 Covered ball court/activity area
- 1 Comfort station & food concession with restroom
- 1 Skate park
- 1 Ice skating rink
- 3 Ball courts
- 1 Amphitheater

- Renovate the stadium, cover a portion for performances and community events.

- Rethink the arrangement of activities around the stadium to improve appearance and year round use.

- Enhance natural features, such as the wet weather creek and pond.

Community Goals: Nature and Environment

Forest and Ecology

Improve the scenic beauty of the park while promoting long-term ecological health, protecting habitat, removing invasive plant species and re-introducing native ones.

Brooks and Lake

Restore and improve the aquatic ecosystems of the park.

Operations

Enhance park maintenance, natural area care and operation coordination through sustained funding and increased staffing and support facilities.



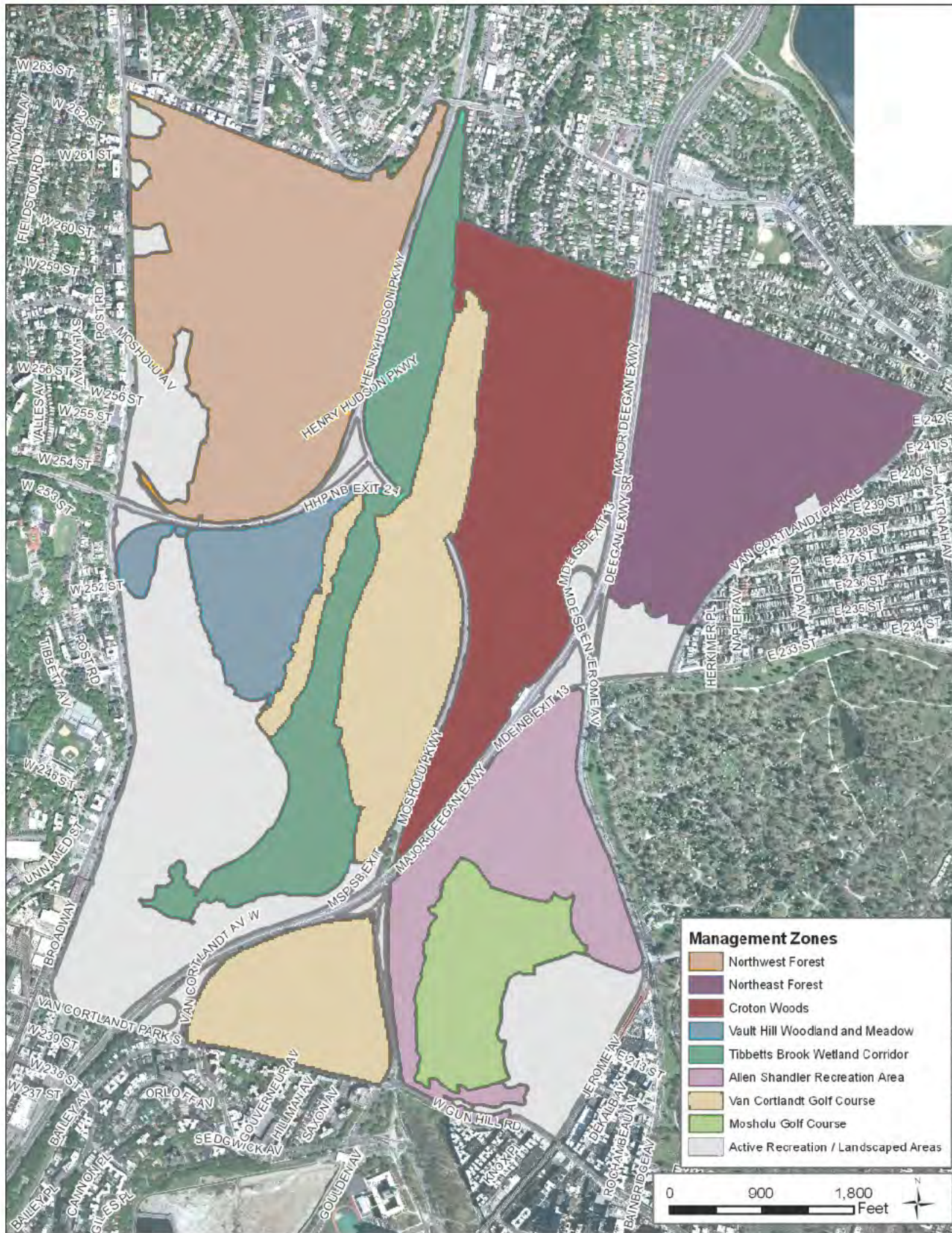
View of lake.



View of lake and forest.



Concept Plan: Nature and Environment



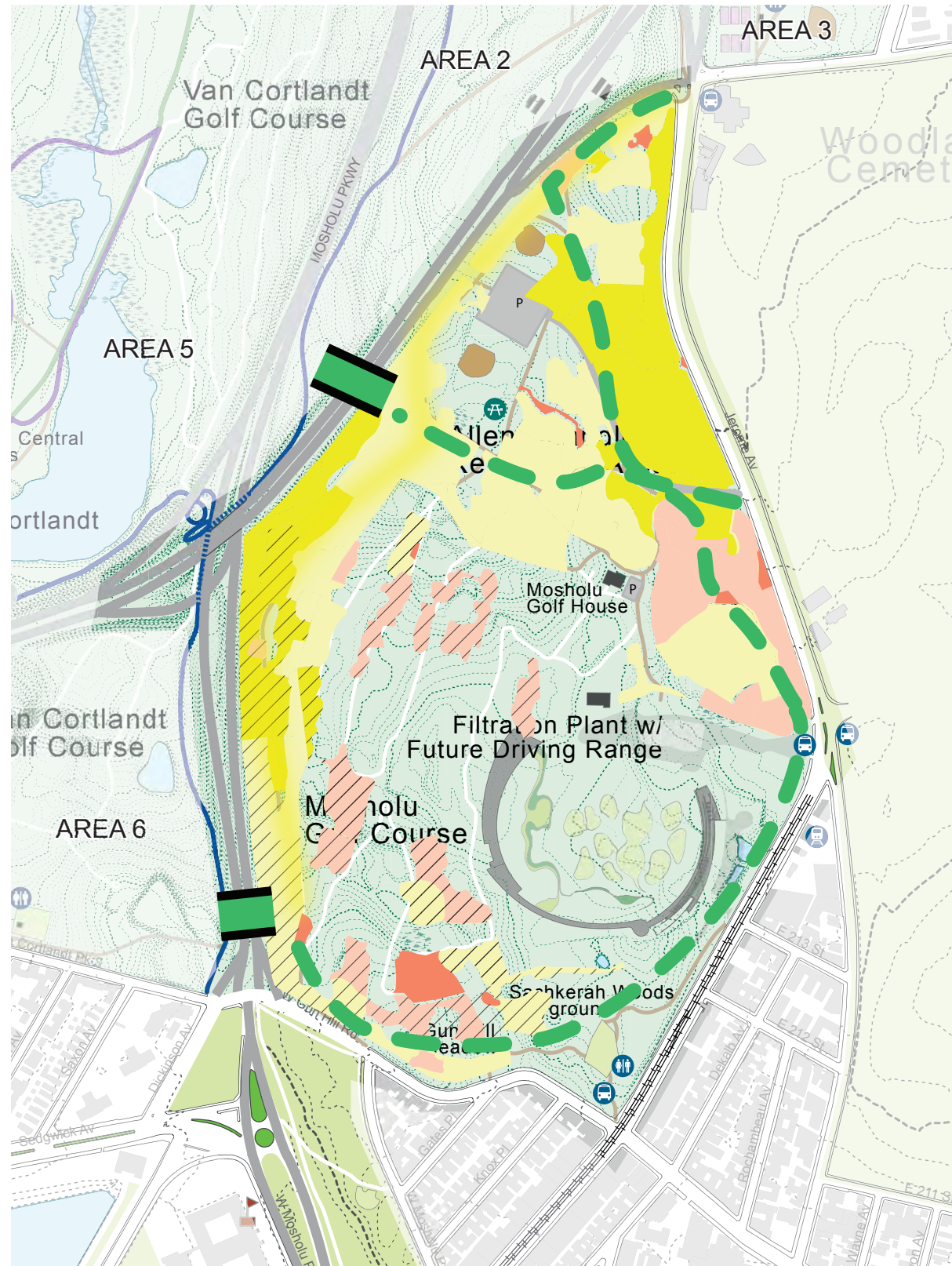
Implement the Natural Areas Management Plan

The Natural Areas Management Plan addresses threats to Van Cortlandt Park's forests and natural areas. Priority recommendations include:

- Focus on restoring forest health and habitat.
- Control seed source of vinelands.
- Remove invasive plants and replant appropriate native herbs, grasses, shrubs, and trees.
- Monitor regeneration of forest health.
- Establish greater Parks Enforcement Patrol (PEP) presence to deter violations of Park rules such as littering and open fires.
- Engage local community groups to participate in forest restoration, trail maintenance and litter clean up.
- Increase and promote opportunities for scientific research.

Concept Plan: Nature and Environment

Natural Areas Management Plan : Allen Shandler Recreation Area and Mosholu Golf Course



Priority Recommendations

Full restoration regimen

The most severely disturbed forest units in the southwestern portion of the zone, i.e., mugwort, Norway maple, black cherry, black locust, and sassafras.
Entitation Units: 821, 813, 812, 815, 818, 727, 828, 728, 846, 811, 839

The natural area islands within the course, i.e., Japanese knotweed, mugwort, wineberry, porcelainberry, multiflora rose, garlic mustard, Asiatic bittersweet, and Japanese honeysuckle.
Entitation Units: 800, 799, 810, 807, 808, 798, 797, 1259, 802, 804, 1260, 1250

 Most severely disturbed forest units

Remove invasive vines



Entitation Units: 722, 817, 839, 824, 815, 914, 911, 912, 864, 852, 880, 819, 814, 800, 797, 803, 806

Eradicate the invasive ground cover encroaching on the wetland, particularly English ivy and periwinkle.
Entitation Units: 910, 912, 913, 908

Eradicate Asiatic bittersweet from the southern portion of the course.
Entitation Unit: 806

Control vinelands on forest edges along the perimeter of the entire golf course.

Establish a dialogue with golf course maintenance staff on the importance of controlling invasive plants.

 Present invasive vines
 Dominant invasive vines

Remove Norway maples

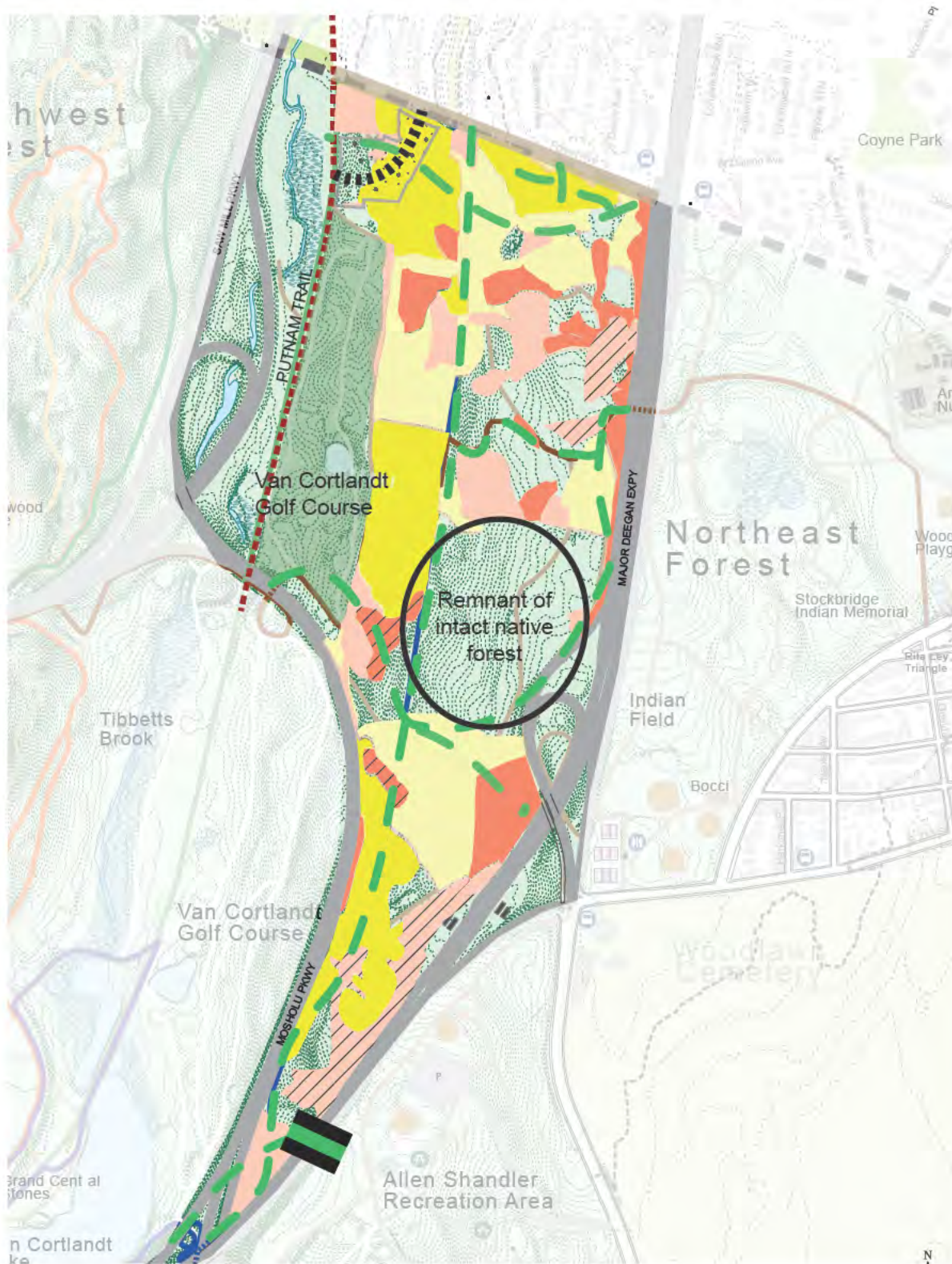
Entitation Units: 721, 725, 848, 722, 847, 865, 724, 833, 831, 837, 873, 871, 882, 870, 711, 884, 878, 817, 840, 841, 838, 816, 827, 839, 826, 729, 728, 727, 818, 825, 824, 821, 910, 911, 908, 909, 885, 874, 876, 858, 863, 854, 857, 855, 853, 851, 850, 844, 845, 846, 829, 811, 842, 802, 800, 798, 797, 808, 807, 823

 Present Norway maples
 Dominant Norway maples
 Bridges
 Major paths



Concept Plan: Nature and Environment

Natural Areas Management Plan : Croton Woods



Priority Recommendations


Take great care to monitor the forest for signs of Asian Longhorn Beetle infestations, which targets sugar maple, among other species.


Install timber fencing to prevent dumping and vehicular access and define pedestrian entrances.

 Timber fencing

Demarcate a specific pathway between the Putnam and Old Croton Aqueduct Trails and stabilize slope.


Entitulation Units: 1551, 1552, 1553

 New pathway connecting to Tibbetts Road

 Desire lines, soil compaction, and erosion


Restore most severely disturbed forest units, i.e., areas covered in porcelainberry and Asiatic bittersweet.


Entitulation Units: 1576, 1558, 1605, 1612, 1423, 1571

 Most severely disturbed forest units

Remove invasive vines

Entitulation Units: 1548, 1552, 1568, 1616, 1422, 1540, 1625, 1623, 1619, 1618, 1620, 1610, 1423, 1594, 1593, 1300, 1603, 1602, 1620, 1610, 1629, 1576, 1186, 1586, 1582, 1571, 1572, 1558, 1569, 1616, 736, 1556, 1559, 1593, 1300, 1603, 1602, 1620, 1290, 1285

 Present invasive vines

 Dominant invasive vines

Remove Norway maples

Entitulation Units: 1548, 1549, 1552, 1553, 1554, 737, 1555, 1556, 1568, 1430, 1429, 1428, 1426, 1427, 1424, 1422, 1425, 1536, 1537, 1611, 1626, 1617, 1542, 1543, 1574, 1624, 1560, 1559, 1563, 1562, 1561, 1544, 1557, 738, 1627, 1558, 1569, 1570, 1572, 1594, 1601, 1298, 1297, 1593, 1587, 1586, 1588, 1589, 1571, 1581, 1575, 1579, 1577, 1583, 1584

 Present Norway maples

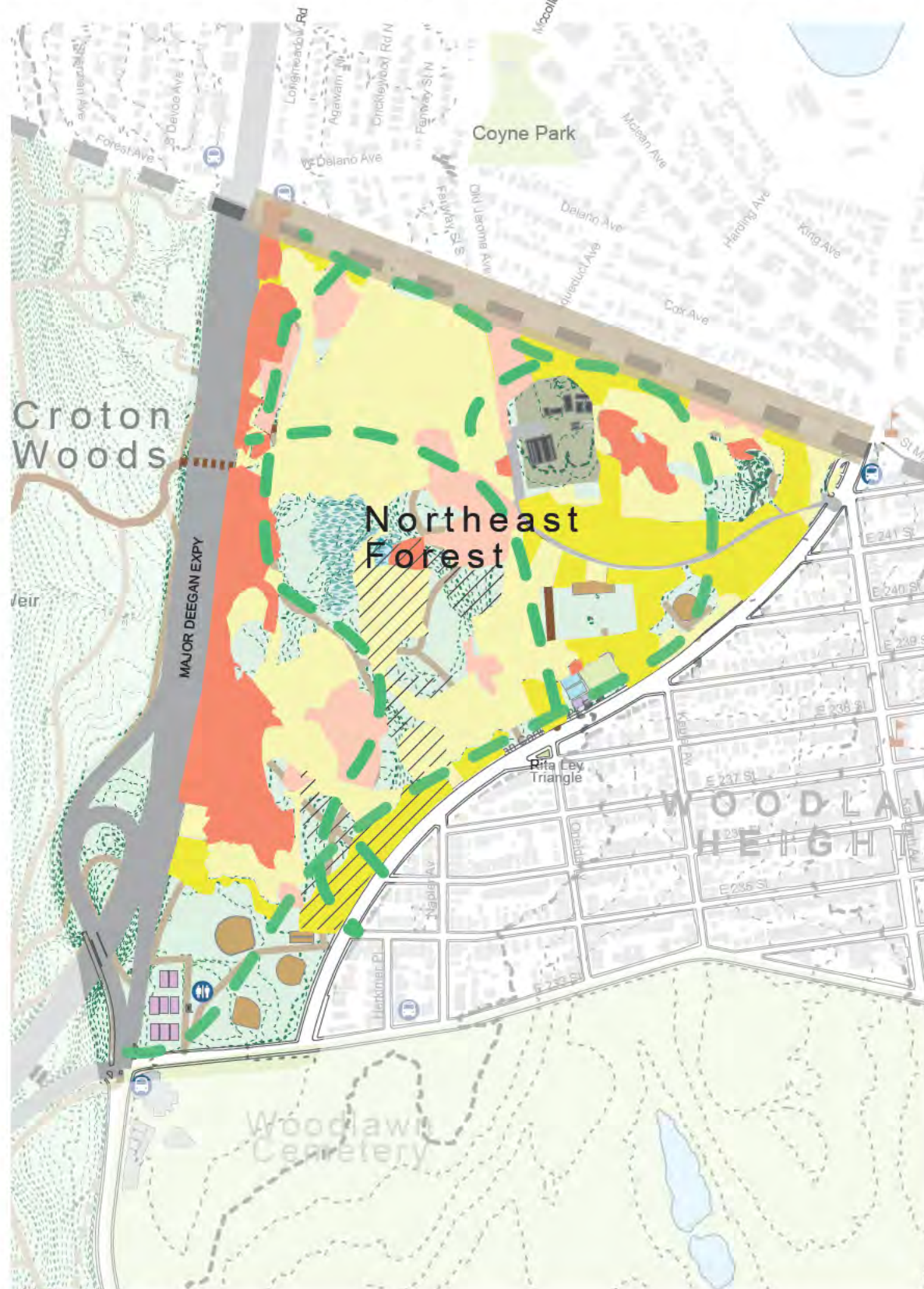
 Dominant Norway maples

 Bridges

 Major paths


Concept Plan: Nature and Environment

Natural Areas Management Plan : Northeast Forest




Priority Recommendations

Install timber fencing to prevent dumping and vehicular access and define pedestrian entrances

 Timber fencing

Continue full restoration regimen for removal of invasive communities, i.e., vinelands, bush honeysuckle, and black locust.

Entitation Units: 1065, 1063, 1412, 1399, 1393, 1389, 1390, 1041, 1418, 1392, 1419

 Full restoration regimen

Remove invasive vines

Entitation Units: 1345, 1215, 1213, 1212, 1385, 1383, 1386, 796, 1393, 1303, 1309, 1311, 1305, 1307, 1044, 1042, 1398, 1397, 1060, 1059, 1067, 1400, 1175, 1404, 1301, 1302, 1304, 1308, 1351, 1353, 1352, 1352, 1053, 1048, 1049

Control vinelands on the forest edges along the Major Deegan Expressway

 Present invasive vines


 Dominant invasive vines

Remove Norway maples

Entitation Units: 1301, 1302, 13010, 1216, 1346, 1215, 1214, 1381, 1380, 1379, 1345, 1343, 1344, 1303, 1304, 1308, 1306, 1350, 1351, 1352, 1053, 1048, 1052, 1049, 1041, 1417, 1420, 1398, 1396, 1415, 1065, 1040, 1399, 1056, 1055, 1054, 1039, 1038, 1037, 1073, 1072, 732, 796, 1386, 1384, 1383, 1349, 1212, 1213, 1348, 1201, 1176, 1175, 1174, 1173, 1155, 1171, 1071, 1196, 1066, 1197, 1198, 1180, 1070, 1200, 1068, 1195, 1180, 1179, 1178, 1177, 1194, 1202, 1402, 1402, 1410, 1409, 1403

 Present Norway maples

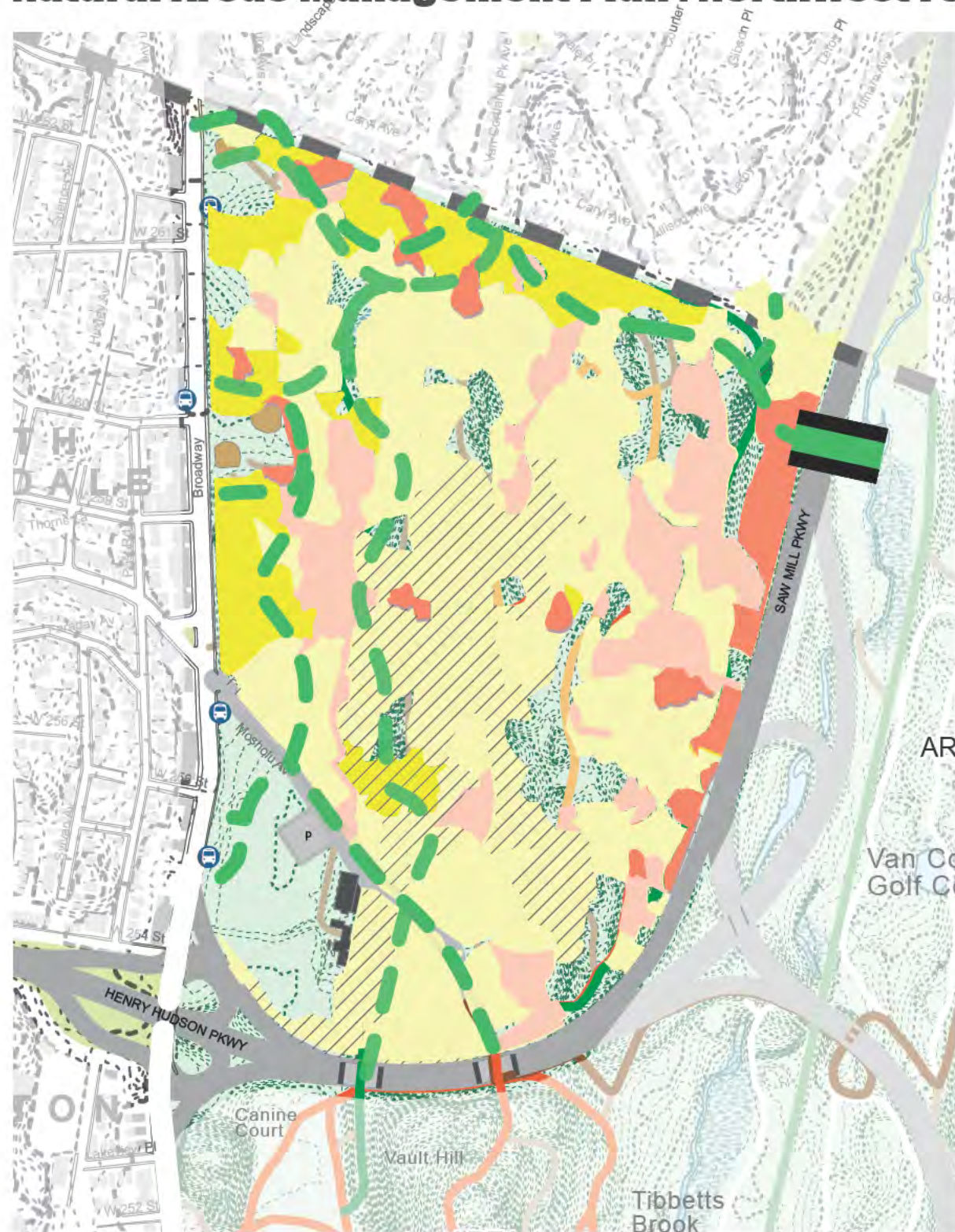
 Dominant Norway maples

 Bridges

 Major paths

Concept Plan: Nature and Environment


Natural Areas Management Plan : Northwest Forest



Priority Recommendations

Restore most severely disturbed forest units, i.e., areas covered in porcelainberry and Japanese honeysuckle, large expanses of vineland, and rose thickets.

Entitment Units: 1463, 1465, 1474, 1470, 1475, 1484. 1204, 1205, 713, 990, 992, 993, 981, 1077

 Most severely disturbed forest units


Remove invasive species

Entitment Units: 1017, 1018, 1026, 1546, 1028. 1031, 1032, 1502, 1504, 1483, 1480, 1486, 1476, 1472, 1468, 1493, 995, 1003, 1001, 996, 985, 984, 978, 1210, 997, 998, 1019, 1010, 1507, 1506, 1489, 1490, 1461, 1442, 1451, 1467, 1438, 1440, 1443, 1447

Control vinelands on forest edges to prevent seed dispersal

Entitment Units: 1463, 1465, 1474, 1470, 1475, 1484

 Present invasive vines

 Dominant invasive vines


Remove Norway maples

Entitment Units: 711, 1207, 975, 974, 1477, 1480, 1496, 1508, 1505, 1509, 1495, 1494, 1493, 1497, 982, 983, 984, 979, 980, 978, 975, 1450, 1211, 1443, 971, 1440, 1210, 992, 990, 986, 1204, 1206, 1205, 713, 1182, 1208, 1015, 1016, 1017, 1027, 1928, 1029, 1030, 1033, 1034, 1479, 1475, 1470, 1474, 1472, 1473, 1468, 1462, 1465, 1464, 1466, 1441, 1456, 1459, 1455, 1460, 1471, 1492, 1490, 1491, 1018, 1026, 1025, 1024, 1021, 1023, 1022, 1014, 1013, 1012, 1011, 1010, 1009, 1008, 1020, 998, 1525, 1524, 1520, 1076, 1075, 1007, 1006, 1005, 1004, 999, 987, 988, 1000, 1003, 989, 709, 996, 1002, 995, 981, 1519, 1077, 1518, 1528, 1530, 1531, 1545, 1550, 1547, 1546, 1516, 1503, 1510, 1504, 1502, 1501, 1035

 Present Norway maples

 Dominant Norway maples

 Bridges

 Major paths

Concept Plan: Nature and Environment

Natural Areas Management Plan : Tibbetts Brook Wetland



Priority Recommendations

Reach out to the City of Yonkers to develop a plan to eradicate invasive plant species from natural areas in Tibbetts Brook Park.

Explore opportunities to conduct restoration work in conjunction with the proposed pond construction by the DEP.

Remove Phragmites from the zone with a concentration along the perimeter of the upper basin of Van Cortlandt Lake.

Entitation Units: 1220, 1221, 1130, 1126, 1228

 Phragmites

Restore the most severely disturbed forest units, i.e., black locust, multiflora rose, Asiatic bittersweet, Norway maples, sycamore maple, and porcelainberry.


Entitation Units: 1293, 1292, 1291, 1294, 1295, 1235, 1290

 Most severely disturbed forest units

Remove invasive vines

Entitation Units: 1631, 1236, 1293, 1095, 1134, 1147, 1133, 1132, 1120, 1129, 1222, 1224, 748, 749, 1271, 1277, 1634, 1632, 1290, 1285, 1150, 1294, 1245

 Present invasive vines

 Dominant invasive vines

Remove Norway maples

Entitation Units: 1274, 1275, 1276, 1279, 1281, 1278, 1242, 1266, 1230, 1292, 1290, 1149, 1284, 1631, 1632, 1634, 1635, 1121, 1128, 1135, 1147, 1139, 1078, 1110, 1088, 1089, 1090, 1091, 1120, 1134, 1283, 1235, 1295

 Present Norway maples

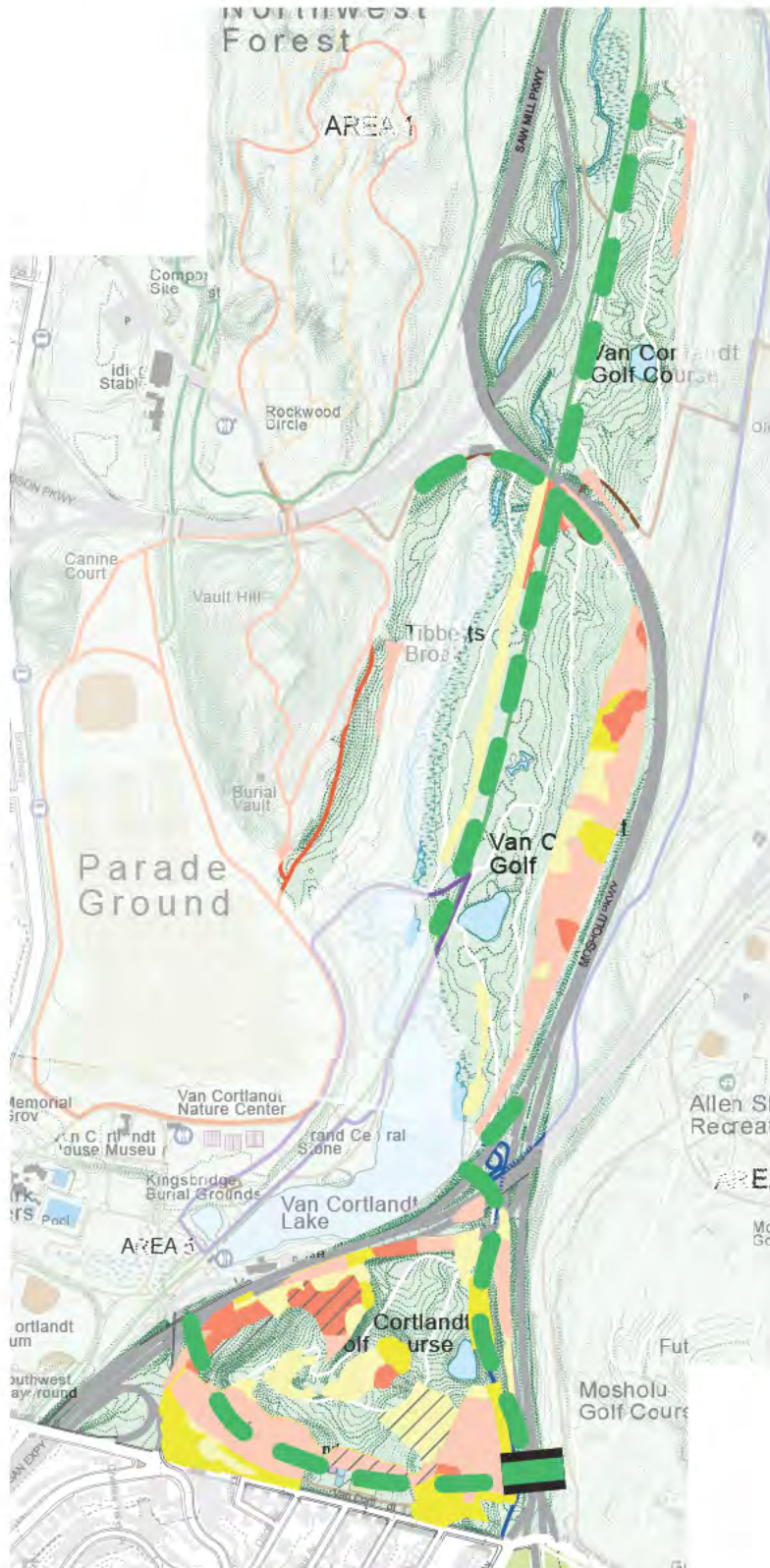
 Dominant Norway maples

 Bridges

 Major paths

Concept Plan: Nature and Environment

Natural Areas Management Plan : Van Cortlandt Golf Course




Priority Recommendations

Establish a dialogue with golf course maintenance staff on the importance of controlling invasive plants.

Full restoration regimen in southern stretches of the forest, i.e., Asiatic bittersweet, bedstraw, mugwort, porcelain berry, Siberian elm, garlic mustard, Norway maple, white mulberry, Japanese honeysuckle, and multiflora rose.

Entitation Units: 776, 774, 772, 769, 773, 789

 Full restoration regimen



Remove invasive vines

Entitation Units: 738, 1573, 1378, 1371, 1366, 1363, 1361, 1357, 1356, 1355, 1351, 754, 1151, 1146, 1191, 1144, 1169, 772, 775, 774, 792, 1141, 788, 742, 1376, 1372, 1434, 1368, 1360, 794, 777, 789, 770, 1143, 731

Immediately kill all large Asiatic bittersweet and porcelainberry vines along the Mosholu Parkway.

Entitation Units: 1357, 1359, 1361, 1363, 1365, 1369, 1435

Control vinelands on the forest edges along the entire perimeter of the golf course.

 Present invasive vines
 Dominant invasive vines

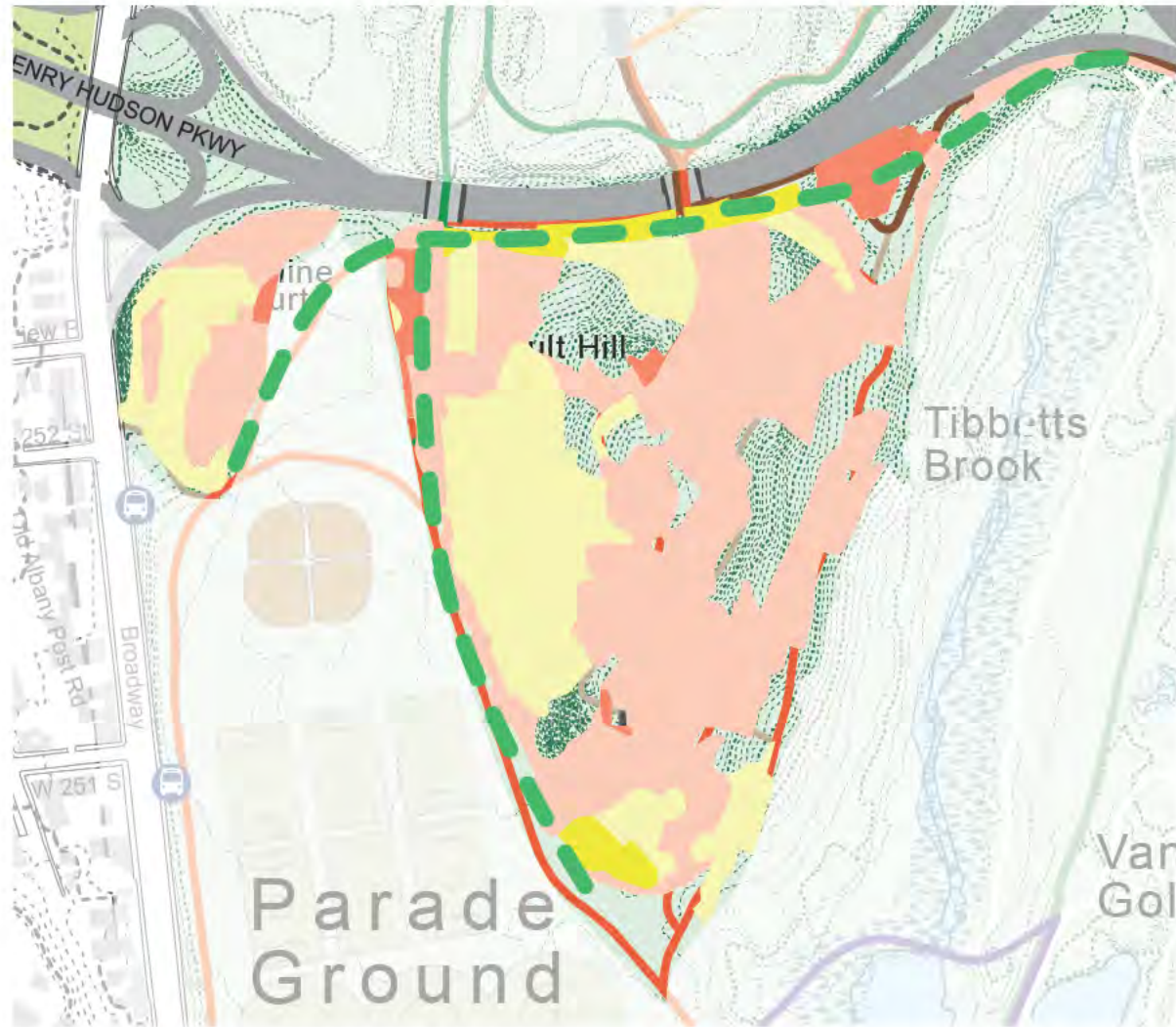
Remove Norway maples

Entitation Units: 1148, 1149, 1314, 1367, 1362, 1363, 1361, 1358, 1357, 1355, 1190, 1191, 1145, 1144, 783, 1165, 1168, 773, 769, 771, 791, 793, 768, 765, 766, 764, 788, 787, 786, 778, 1140, 1192, 1435, 1370, 1369, 1365, 1364, 1167, 1163, 1169, 1162, 1160, 772, 775, 790, 792, 777, 795, 789, 762, 763, 1142, 1141

 Present Norway maples
 Dominant Norway maples
 Bridges
 Major paths

Concept Plan: Nature and Environment

Natural Areas Management Plan : Vault Hill Woodland and Meadow



Priority Recommendations

Remove invasive vines

Entitation Units: 891, 900, 889, 901, 888, 1219, 905, 906, 966, 949, 941, 942, 945, 1436, 937, 734, 955, 723, 918, 925, 929, 931, 926, 893, 963, 948, 930

Eradicate encroachment of aggressive Asiatic bittersweet and Japanese honey-suckle from most disturbed units.

Entitation Units: 925, 928, 927, 934, 723, 933, 930, 931, 959, 957, 955, 961, 954, 942, 963

Eradicate Asiatic bittersweet and porcelainberry at the edge of the forest surrounding the small knoll near Broadway.

Entitation Units: 893, 901, 889, 900, 892

Eradicate vines along forest edges throughout the zone.

903, 905, 902, 906, 917, 918, 920, 897, 898

- Present invasive vines
- Dominant invasive vines

Remove Norway maples

Entitation Units: 891, 892, 899, 900, 889, 887, 897, 898, 902, 905, 906, 962, 966, 956, 917, 960, 968, 940, 949, 947, 945, 948, 937, 734, 921, 1338, 920, 923, 929, 930, 1219, 904, 943, 938, 925, 919

- Present Norway maples
- Dominant Norway maples
- Bridges
- Major paths

Concept Plan: Nature and Environment

Natural Areas Management Plan: Fauna and Habitat Needs

Van Cortlandt Park is a unique and important resource for wildlife because of the habitat diversity and quality. The forests, Tibbetts Brook and the meadows support at least 169 species. Many have habitat needs, such as:

Birds

Habitat Needs

- Van Cortlandt Park is one of the last regional sites supporting breeding bird species because of its relatively large size, quality forest and wetland habitat, and position as an “island amid an extensive urbanized landscape.”
- Scarlet Tanager and Red-Eyed Vireo require large tracts of woodland.
- Wild Turkey use oaks and beeches for food and habitat.
- Great Horned Owl and Eastern Screech Owl depend on tree cavities or old hawks’ nests in old, tall trees.
- Wood Duck is a tree-cavity nester, observed in the lake with their young, use old woodpecker holes, for which they may compete with invasive European Starlings.
- Common Yellowthroat prefers a scrubby meadow or woodland edge for nesting.
- Soras reside in wetland environments.

Fish, Amphibians & Reptiles

Habitat Needs

- Tibbetts Brook has great habitat potential and should be restored and protected.
- Redback Salamander are larger and more abundant in areas with a high percentage of native groundcover.
- Spotted Salamander was observed near a large vernal pool in the Northeast Forest.
- Spring Peeper can be heard whistling in the wetlands in the Northeast Woods.

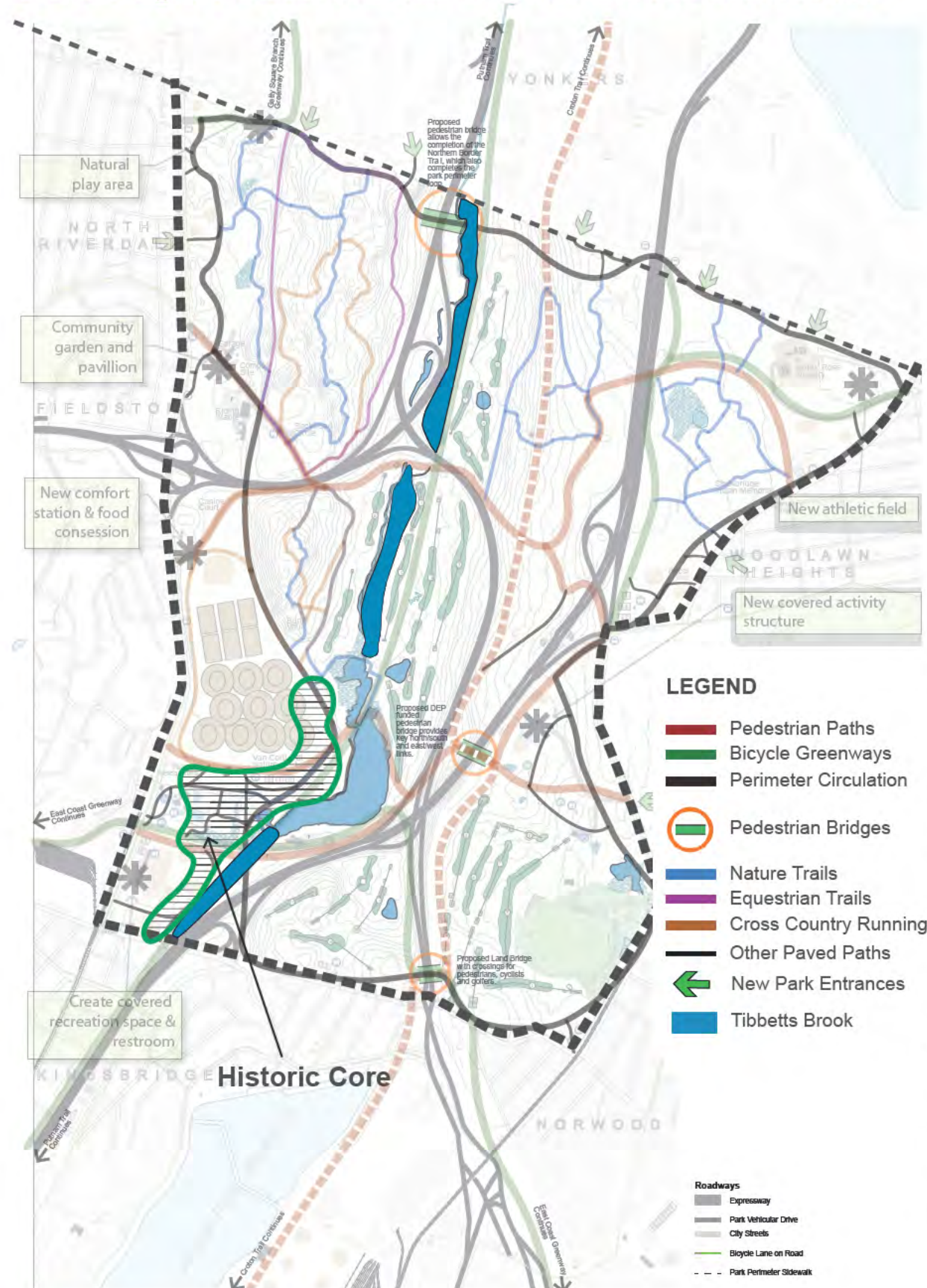
Insects and Arthropods

Habitat Needs

- Unicorn Clubtail prefers low-oxygen lakes with muddy bottoms and slow streams.
- Shadow Darner flies late into the season near shady streams, lakes, and forest edges.
- Fawn Darner, a species sensitive to hydrological changes, occurs in the Tibbetts Book wetland.
- Hickory Horned Devil and Luna Moth are rare.
- Lepidoptera, which feed on hickory, oak, and cherry trees.
- Precious Underwing feed on red chokeberry.



Concept Plan: Nature and Environment



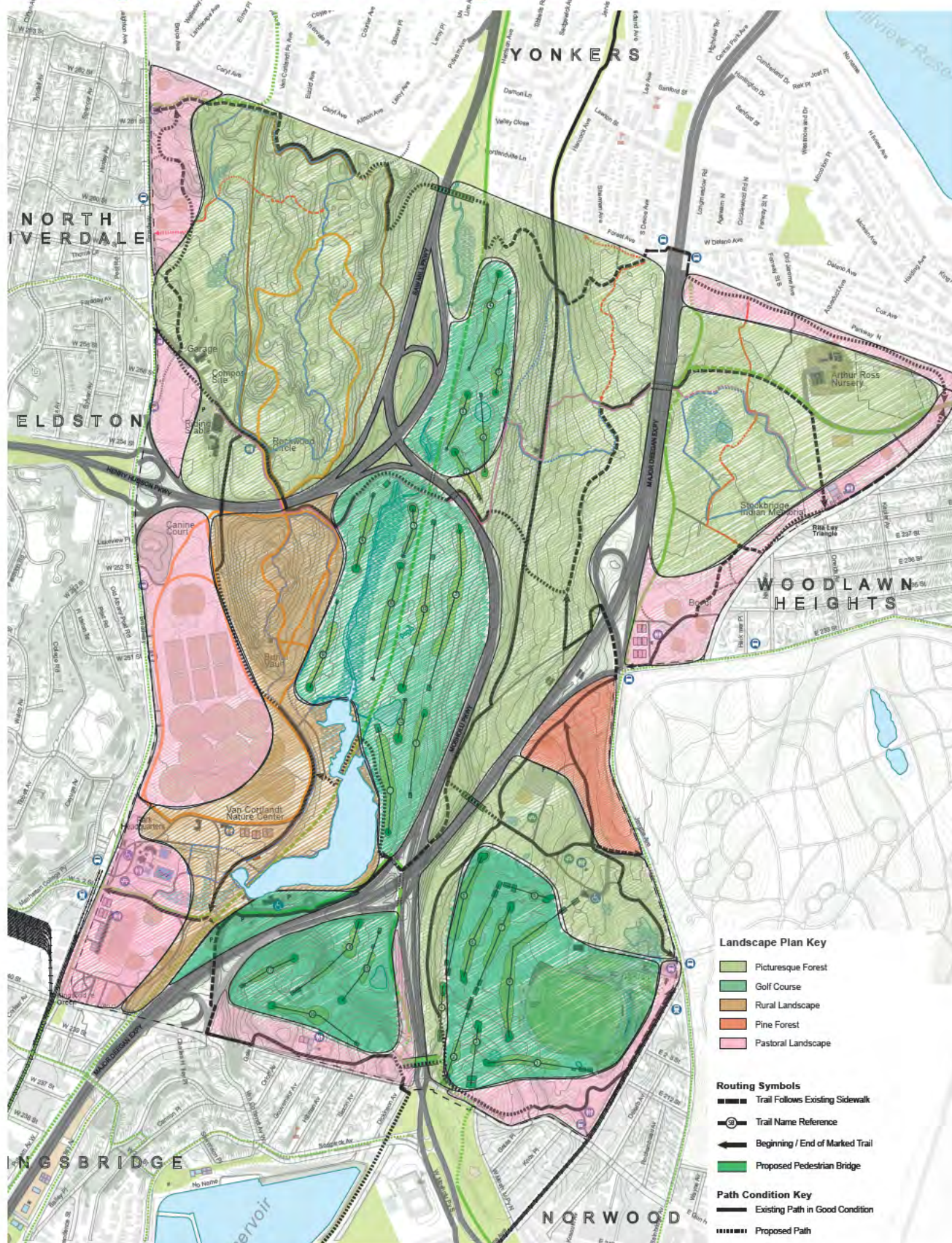
Tibbetts Brook

- Work with the DEP Bluebelt project to dredge the brook and reroute it out of the entrance ramp loops.
- Improve the adjacent landscape and restore the is-turbed forest through eradication of invasive plants.
- Improve the functionality and beauty of remnant tributaries, including the pool in the Croton Woods.
- Increase the depth of the lake to accommodate diving birds and decrease phragmites growth.
- Naturalize the shape of the mill pond at the end of the lake. Extend the lake south through the marshy area to the Putnam rail cor-ridor.
- Extend the brook south along the Putnam rail right of way to the Harlem river. Reestablish natural flow and marine life migration.



Tibbetts Brook showing siltation caused by culverts .

Concept Plan: Landscape Plan



Pastoral Landscapes

- Improve the character of the landscapes just inside the park. Make them pleasant places to sit or stroll.
- In every neighborhood, create meadows or lawns with shrubs, flowers, scent and winter interest. Choose species that attract birds and insects including butterflies.

Picturesque Forest

- In forested areas remove invasive vines and plant native understory trees, shrubs and herbaceous materials including ferns.
- Favor plants that provide habitat and food for wildlife. Improve habitat for amphibians around vernal pools.

Pine Forest

- Develop a landscape of conifer and understory trees appropriate to the soil and moisture conditions.
- Maintain open sightlines from the street.

Rural Landscape

- Recreate the appearance of the pre-park rural landscape.
- Plant densely in front of features that do not add to the scenic character such as the tennis courts.



Community Goals: Historic Features and Landscapes

Appearance & Condition

Develop a unified vocabulary of park fencing, benches, lighting and furniture to make the park more attractive and safe to walk around in.

Structure Condition & Use

Restore and maintain historic structures and landscapes. Maintain, restore and improve park conditions.

Threats

Reduce the number, impact and visibility of non-park uses and control invasive species.



The Colonial stairs south of the Van Cortlandt Mansion should be restored and used for the viewing of informal performances.



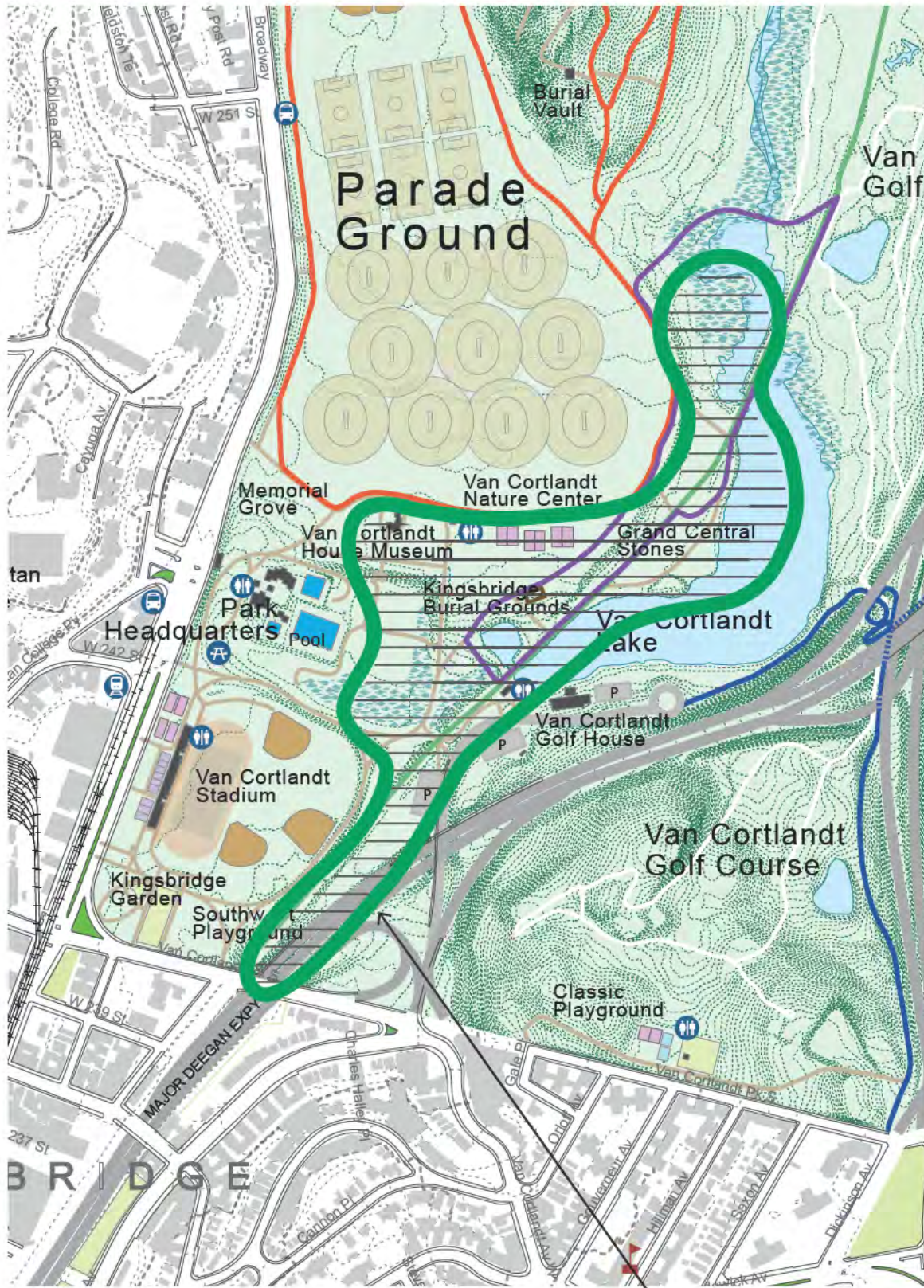
Winter view in Van Cortlandt Park. Adopt this settee as the official bench.



Restore the cascade and bridge. Emulate this stonework and rustic fence.



Concept Plan: Historic Features and Landscapes



Historic Core

Historic Core

- Restore the mansion grounds and loop drive.
- Restore the landscape around the lake to its appearance at the time the farm was active.
- Screen out the tennis courts and pool.



Historic view of the lake.



Historic view of the rural road approaching Van Cortlandt Park

Park Furniture



Brown porous pavement for park pathways.



Timber guardrails along paved roads around the park.



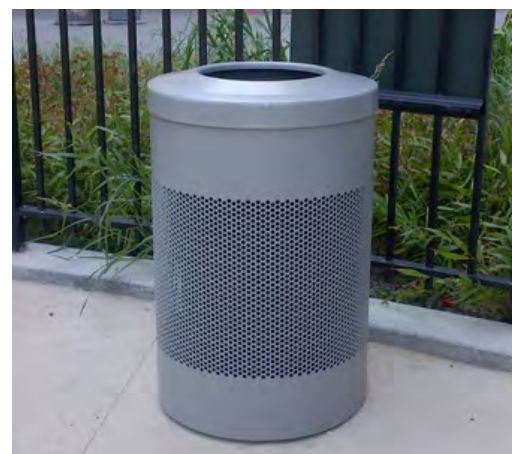
Settee bench.



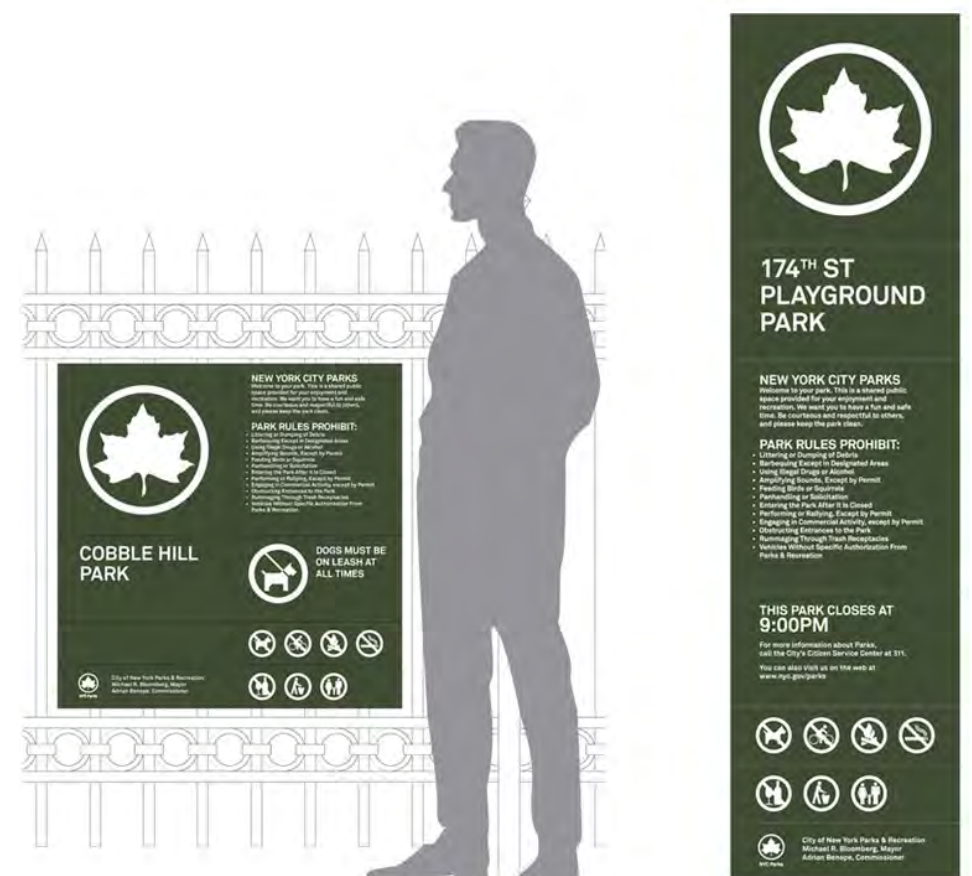
Traditional type B light fixture & pole.



Timber bollards.

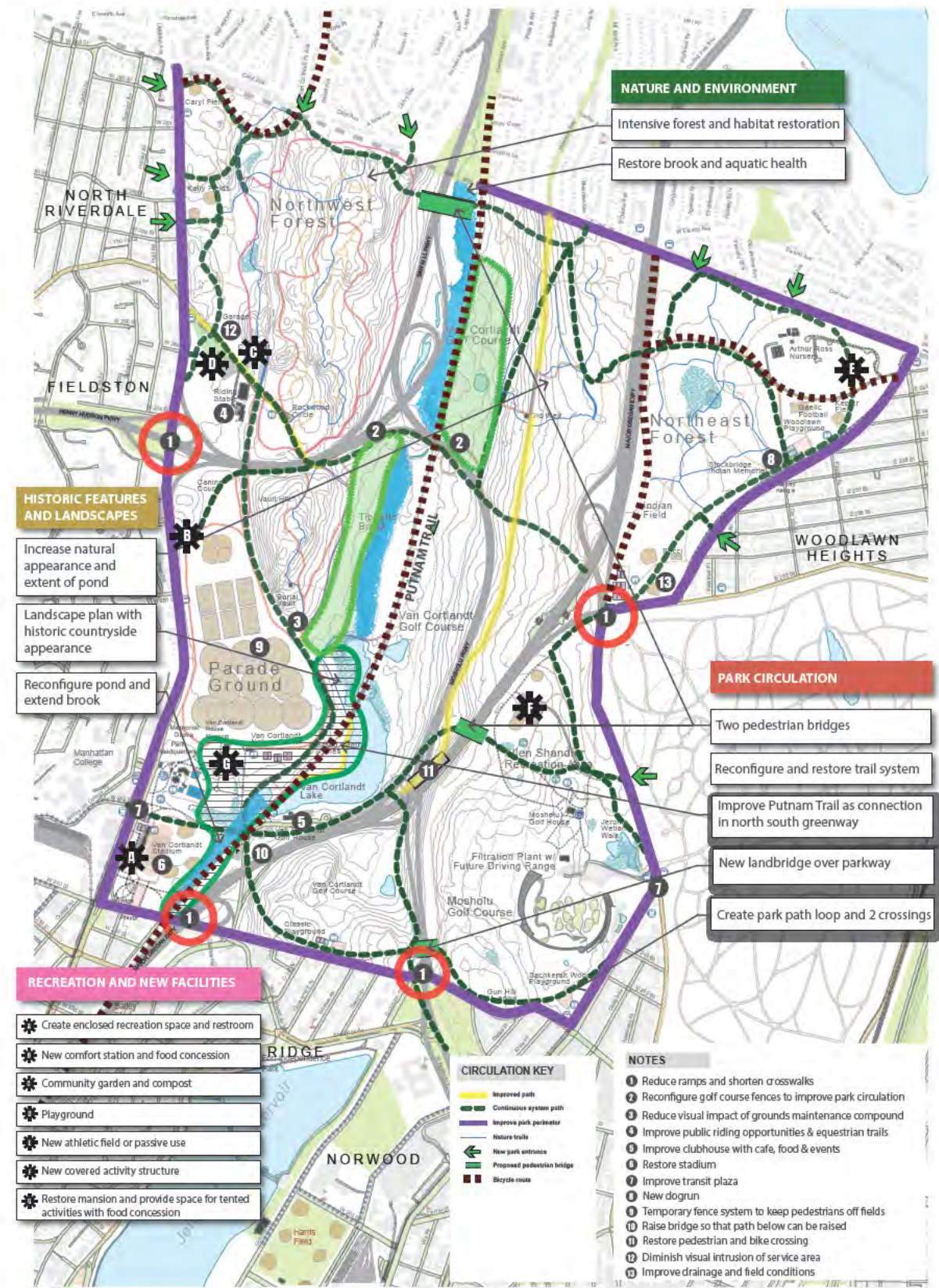


Rodent proof trash and recycling containers in black.



New Parks signage.

Concept Plan: Major Project Summary



Nature and Environment

- Intensive forest and habitat restoration
- Restore the brook and aquatic health

Park Circulation

- Two new pedestrian bridges and one landbridge over the Major Deegan Expressway
- Reconfigure and restore trail system
- Improve Putnam Trail as connection in the north-south greenway with bicycle-pedestrian separation.
- Create a comprehensive park path system with a perimeter loop and east-west connections.

Recreation and New Facilities

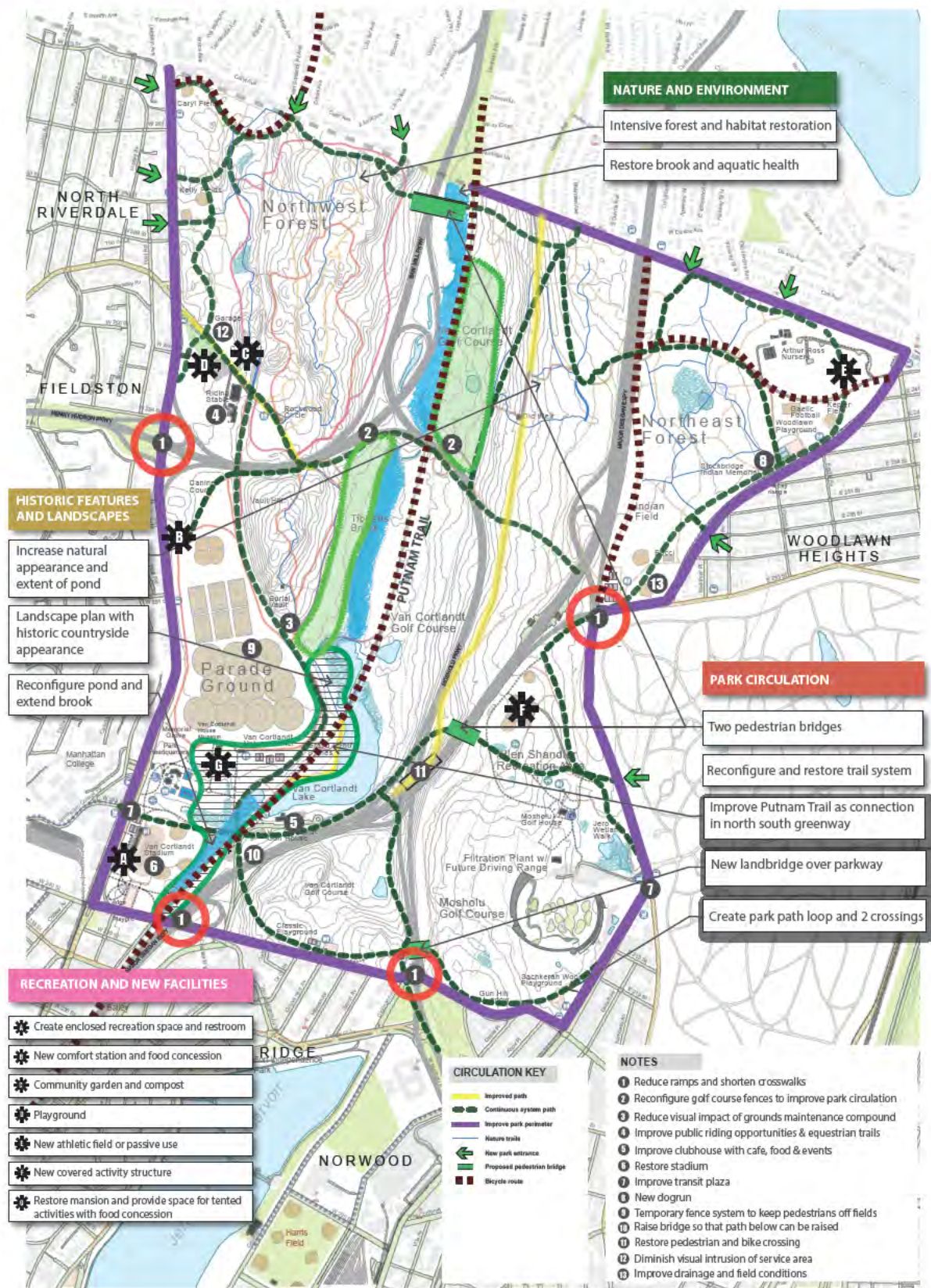
- Create 2 covered recreation spaces with restrooms
- New comfort station and food concession at Parade Ground
- Community garden
- 1 new playground
- 1 athletic field
- Improve drainage and condition of existing fields
- Restore mansion grounds and provide space for tented activities with food concession
- Add 3 basketball courts

Historic Features and Landscapes

- Increase natural appearance and extent of lake
- Landscape plan with historic countryside appearance
- Reconfigure pond and extend Tibbetts Brook to the Harlem River.



Concept Plan: Priority Projects



Natural Areas

Intensify implementation of the Natural Areas Management Plan. Identify funding for crew.

Capital Projects

Reconfigure the golf course fences and construct the North Central Crossing path.

Complete the Putnam Bike Path and Aqueduct Trail.

Improve the Woodlawn perimeter with consistent furniture, fences and signage. Create inviting landscapes of beauty and habitat value, including a path that meanders around entire park. Improve drainage of ballfields.

Construct a playground and path system in the North Riverdale neighborhood. Create inviting landscapes.

Private Funding

Restore the landscape of the Historic Core, including the west side of the lake, the mansion grounds and the southern tip of the lake. Use a distinct wooden furniture vocabulary here.

Other Agencies

Implement the DEP Bluebelt project for Tibbetts Brook. Advance daylighting on the Putnam right of way.

Advance the construction of the pedestrian bridge evaluated by DEP.

Work with DOT to reconfigure ramp intersections.



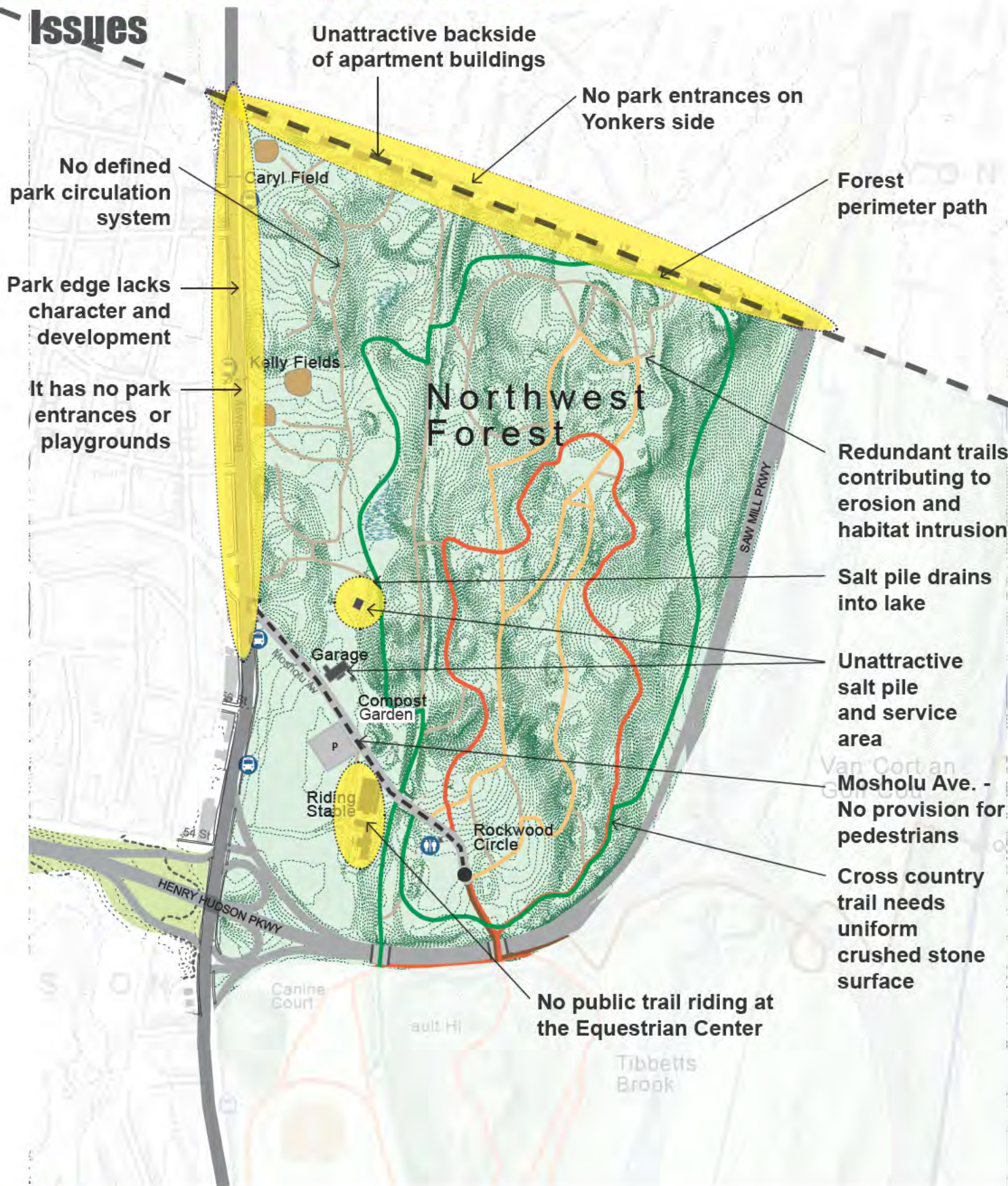


PROJECTS BY PARK ZONES

Describe major goals for each zone in the park and describe the most important projects in detail.

Area One: Northwest Forest

Issues

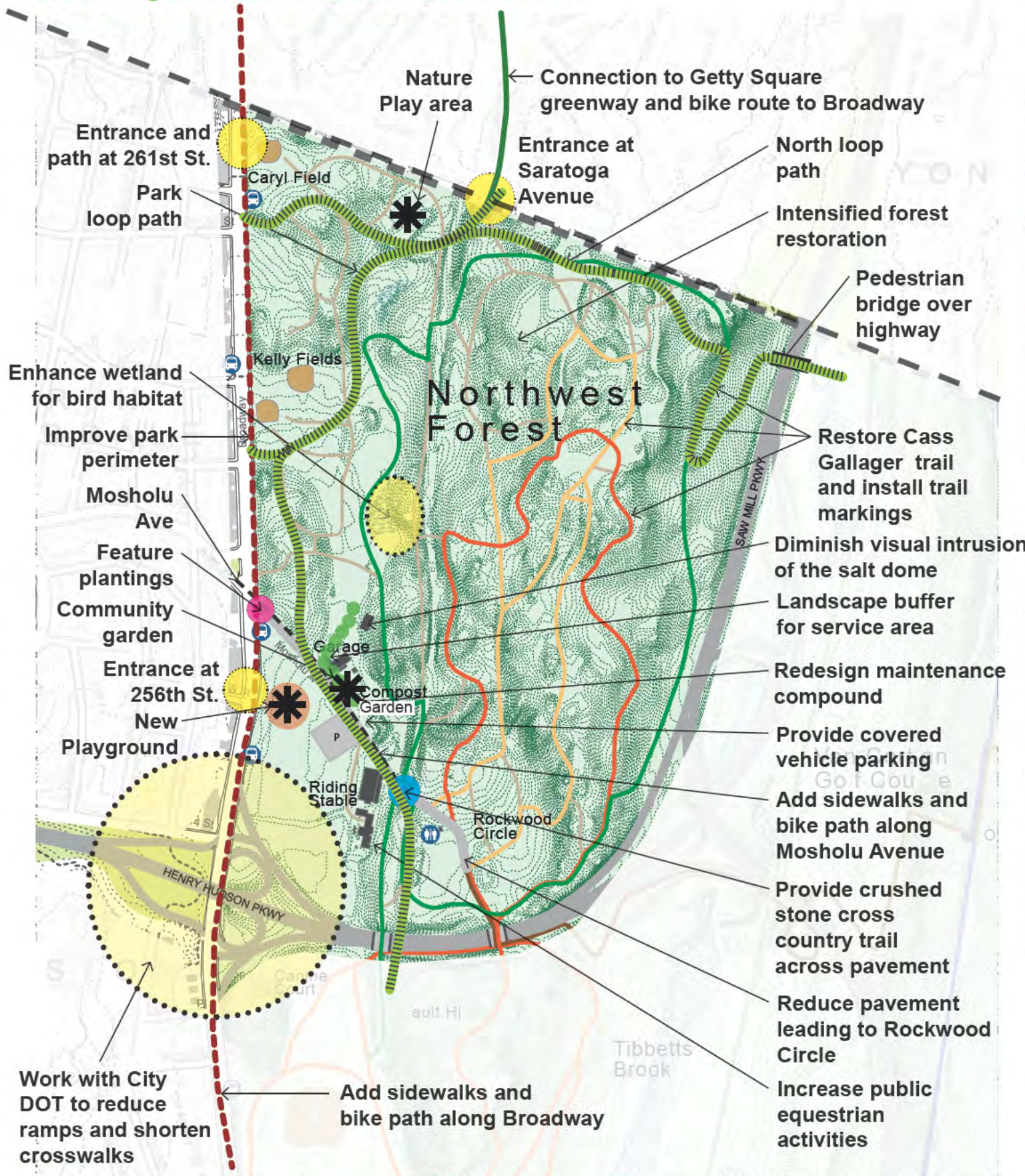


Community Goals

- Improve perimeter character and condition.
- Create park entrances and connectivity on Broadway and with Yonkers.
- Make park more inviting and safe.
- Create opportunities for recreation needed by adjacent community.
- Improve forest health and trail condition.
- Decrease the impact of the salt dome or eliminate it.
- Reduce the area of curb cuts serving the Mosholu service area and improve the appearance and usability.
- Improve signage for rules and orientation.
- Decrease the impact of Henry Hudson Parkway ramps.
- Increase the equestrian trail uses by the public or change use of the trail.
- Increase the area for public gardening.
- Protect and improve bird habitat.



Area One: Northwest Forest



Priority Projects



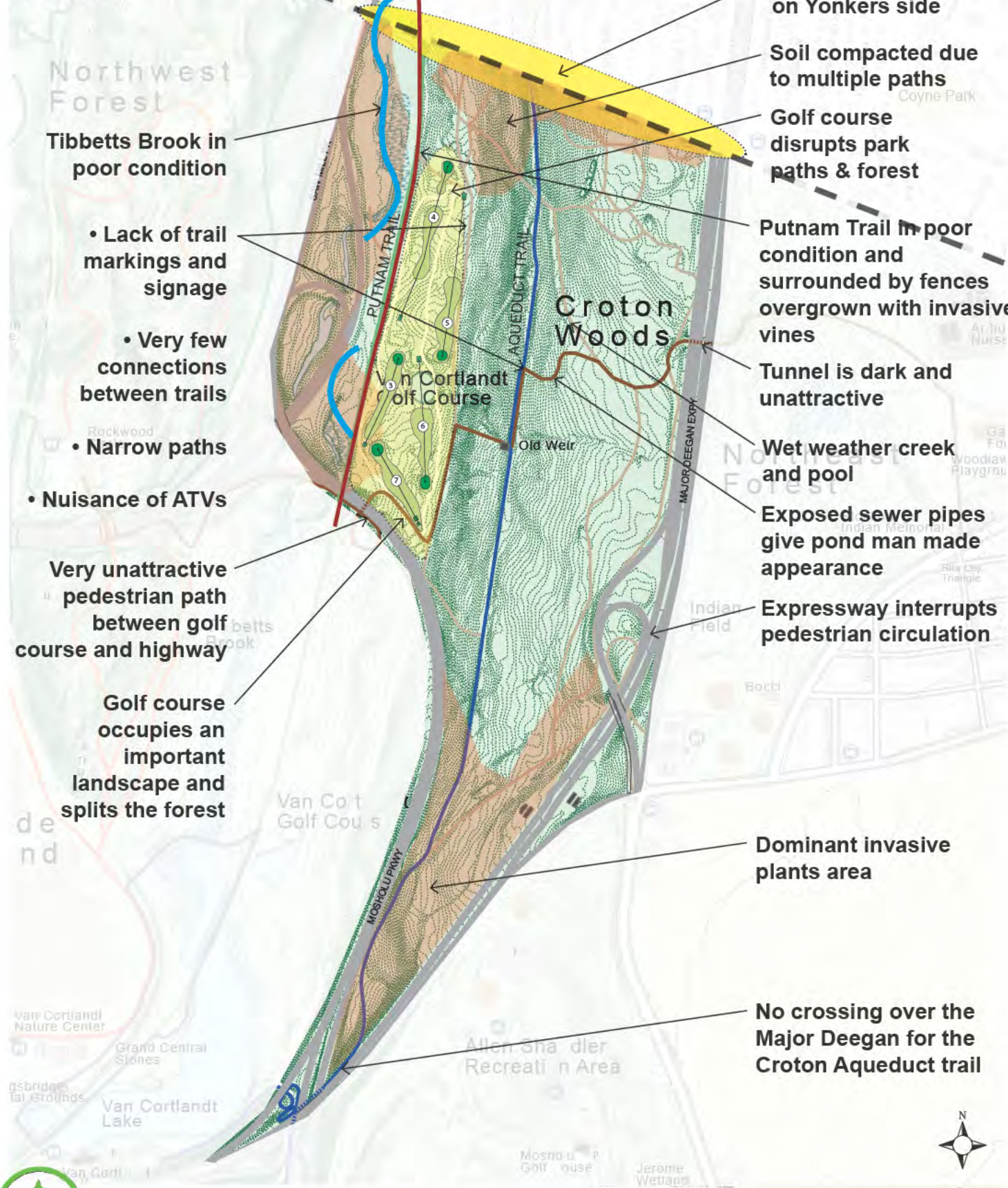
Proposed enhanced character of the service road



Play area in North Riverdale neighborhood

Area Two: Croton Woods

Issues

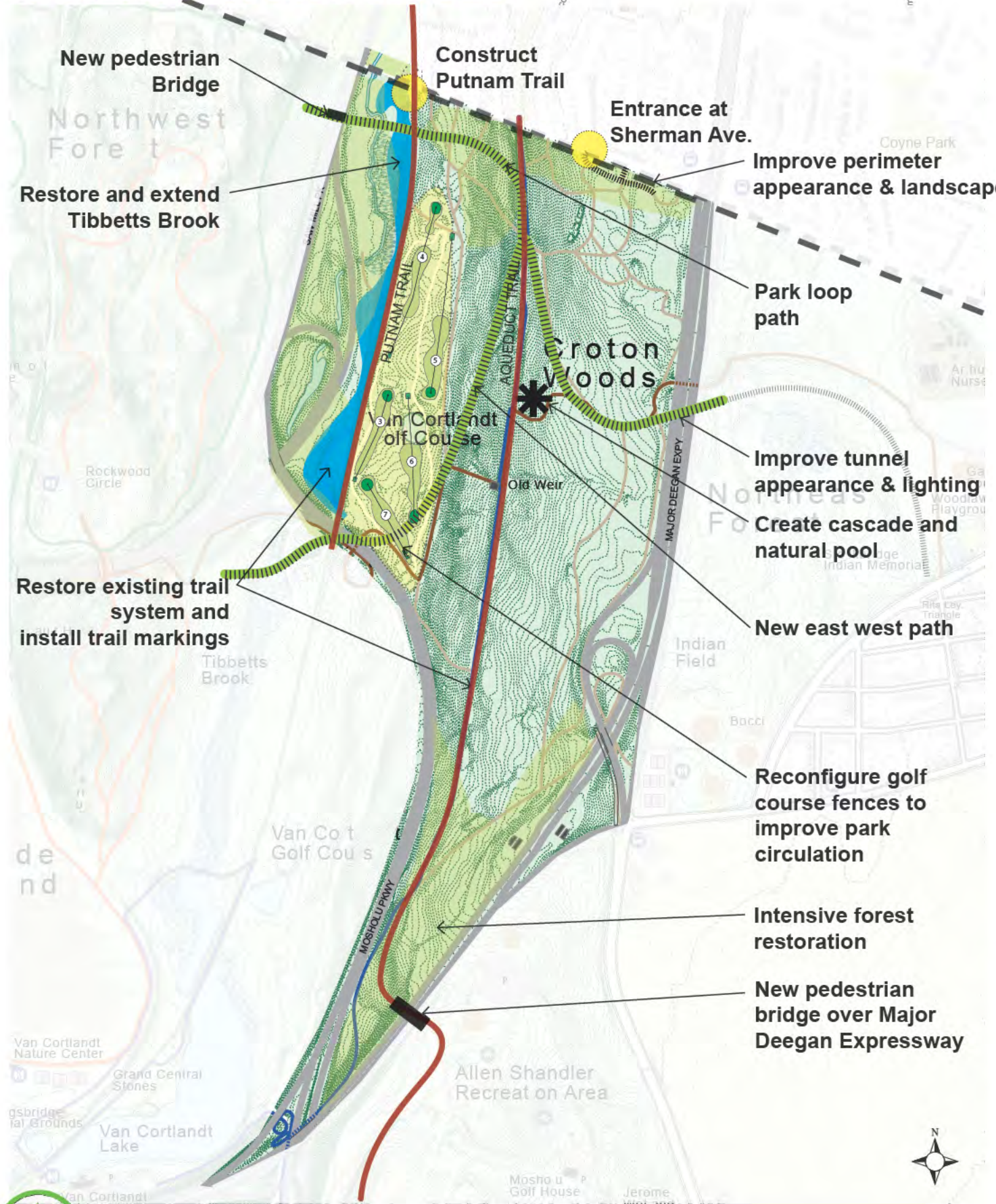


Community Goals

- Improve trail markings and signage.
- Connect Muir and Putnam Trails in a way that keeps bikes off the Muir Trail.
- Enable pedestrian access across Major Deegan Expressway.
- Restore and daylight Tibbetts Brook and wetland area.
- Enhance park entrances and connectivity on Yonkers side.
- Improve forest and aquatic health.
- Improve east west park connectivity.



Area Two: Croton Woods



Priority Projects



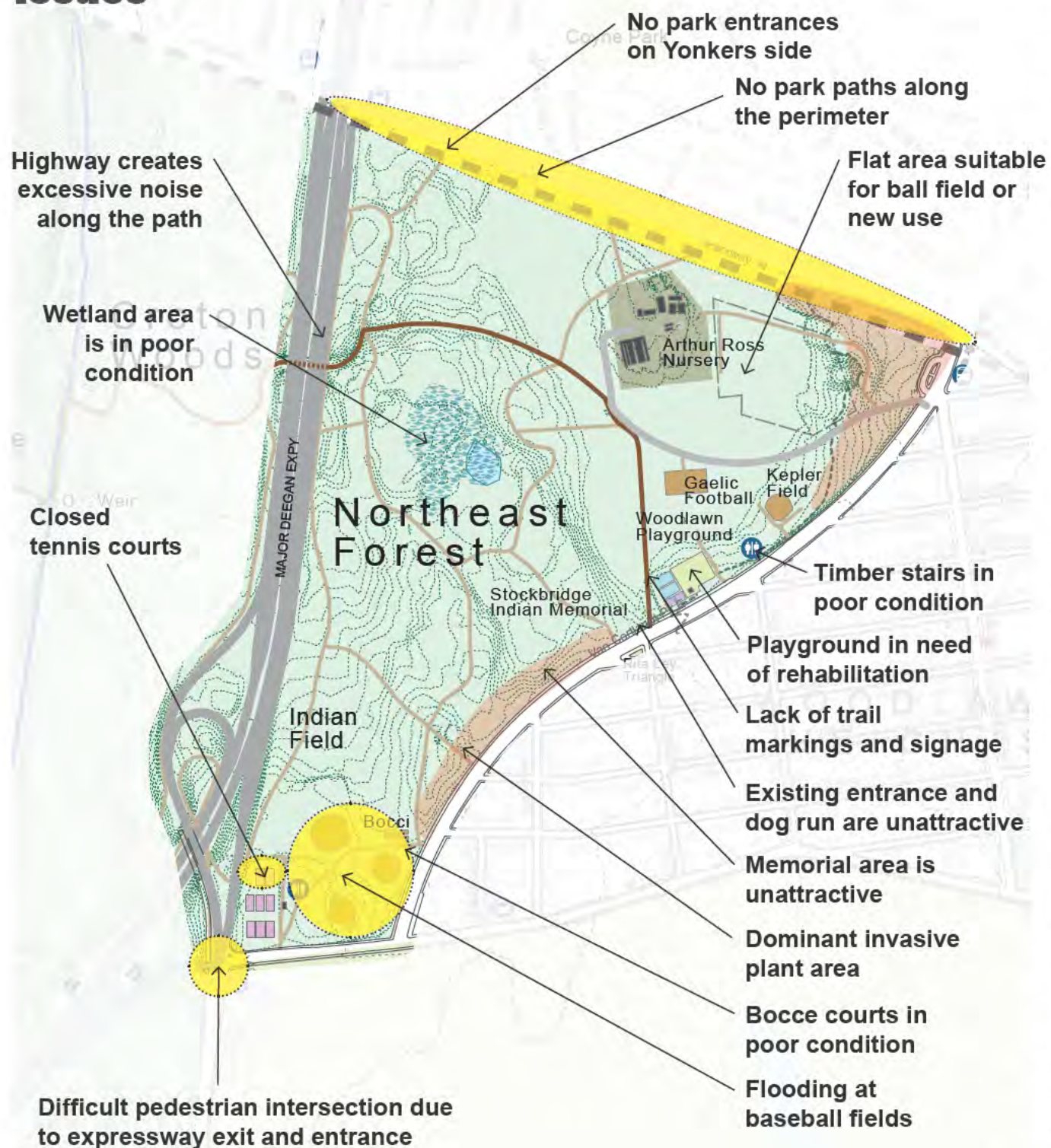
Proposed wet weather stream and pond in Croton Woods.



Proposed east-west park path composed of aggregate and binder.

Area Three: Northeast Forest

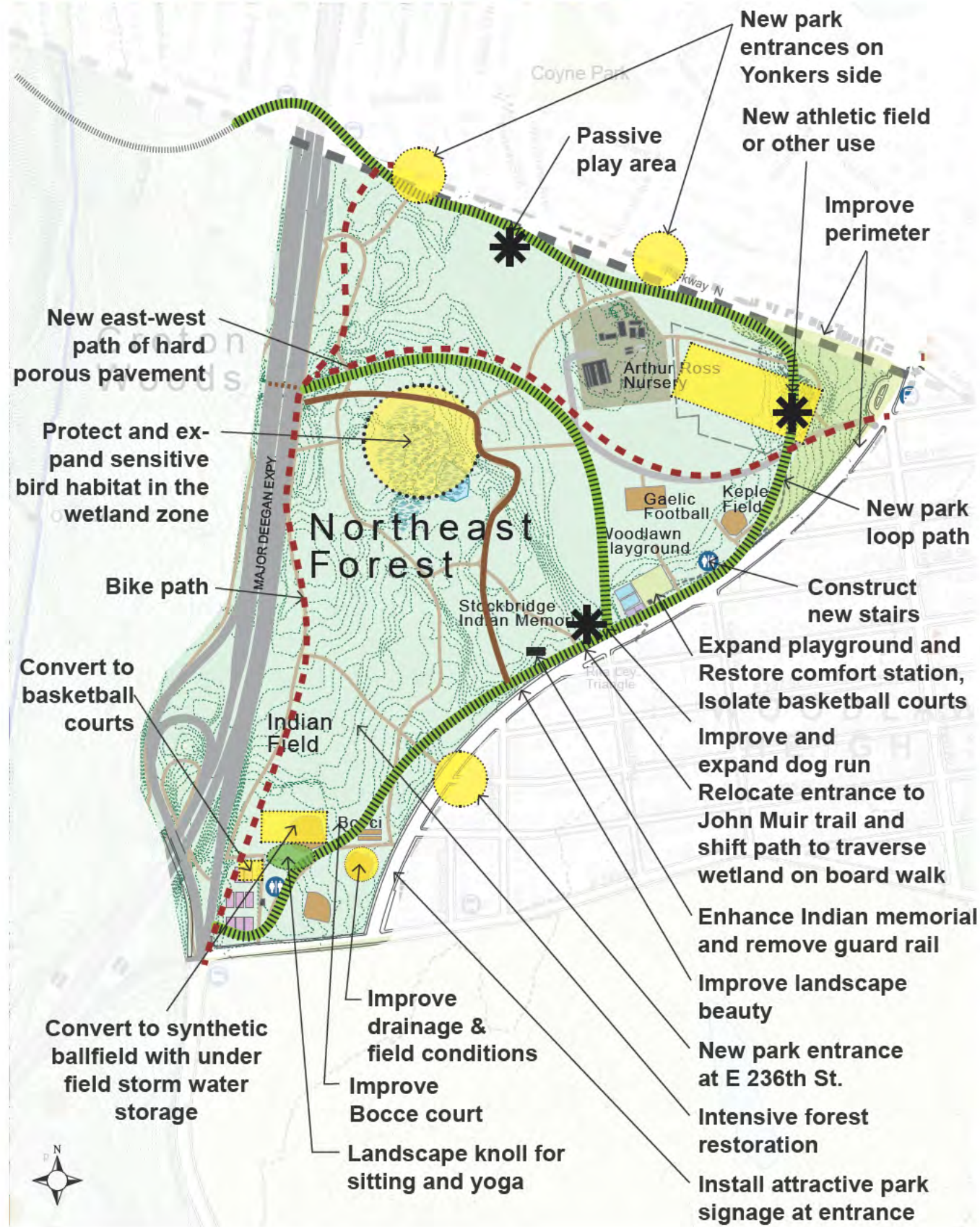
Issues



Community Goals

- Foster more children and family-oriented activities at Woodlawn Playground.
- Improve comfort station at Woodlawn Playground.
- Improve quality of John Muir trail.
- Create path connectivity.
- Protect sensitive bird habitat in the Northeast Forest. Restrict ATV use.
- Repair flooding issues at the baseball fields at Indian Field.
- Create soccer field and improve quality of Bocce courts at Indian Field.
- Increase security and provide fence along Indian field to prevent dumping.
- Expand equipment storage at Indian and Kepler fields.
- Create park entrances and improve connectivity on Yonkers side. Improve parking near Arthur Ross Nursery.
- Install improved directional and rules signage.

Area Three: Northeast Forest



Priority Projects



Proposed passive play area in the Yonkers neighborhood.



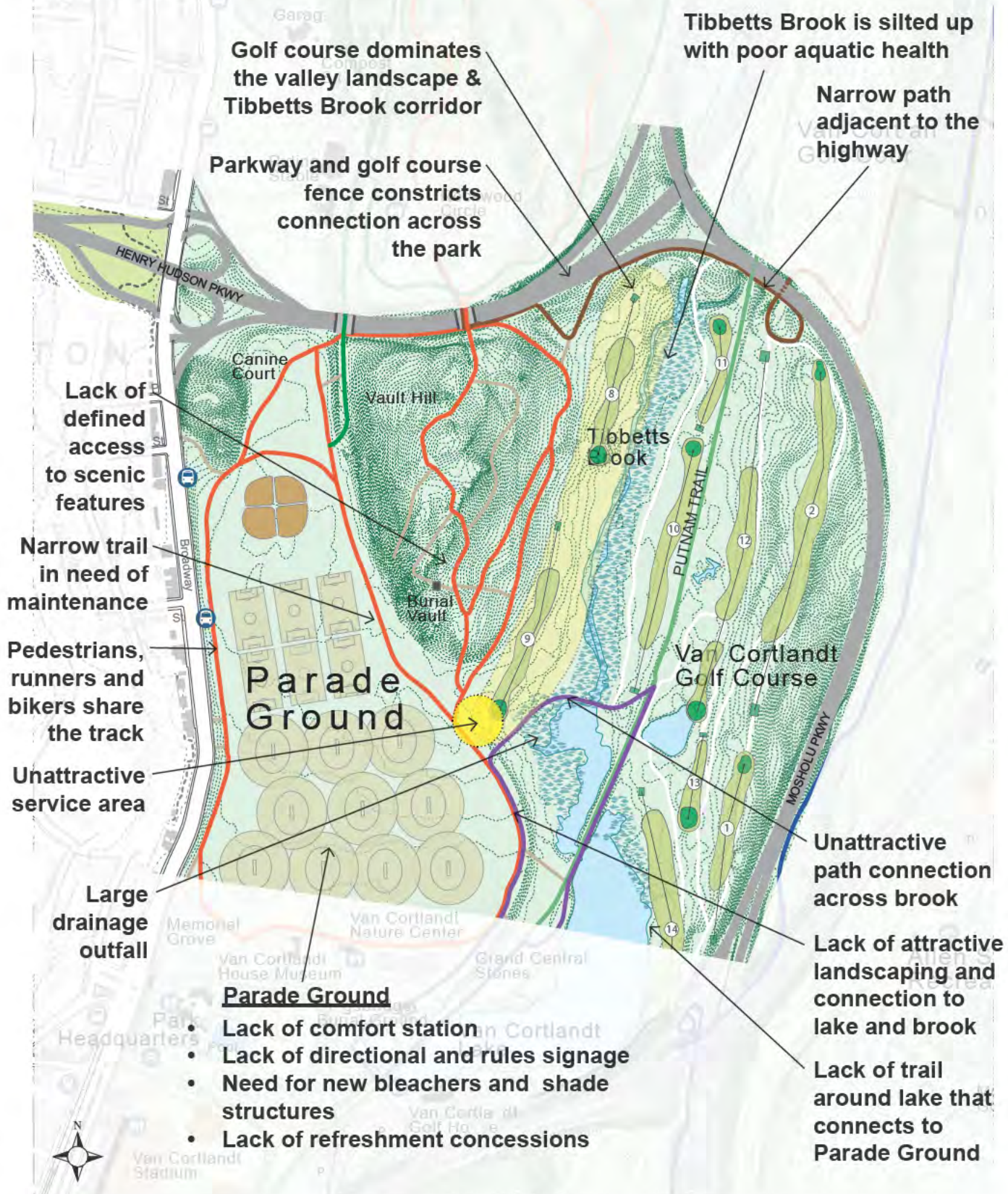
Proposed improved entrance and signage at Woodlawn dog run.



Proposed park loop path and pastoral landscape.

Area Four: Parade Ground

Issues

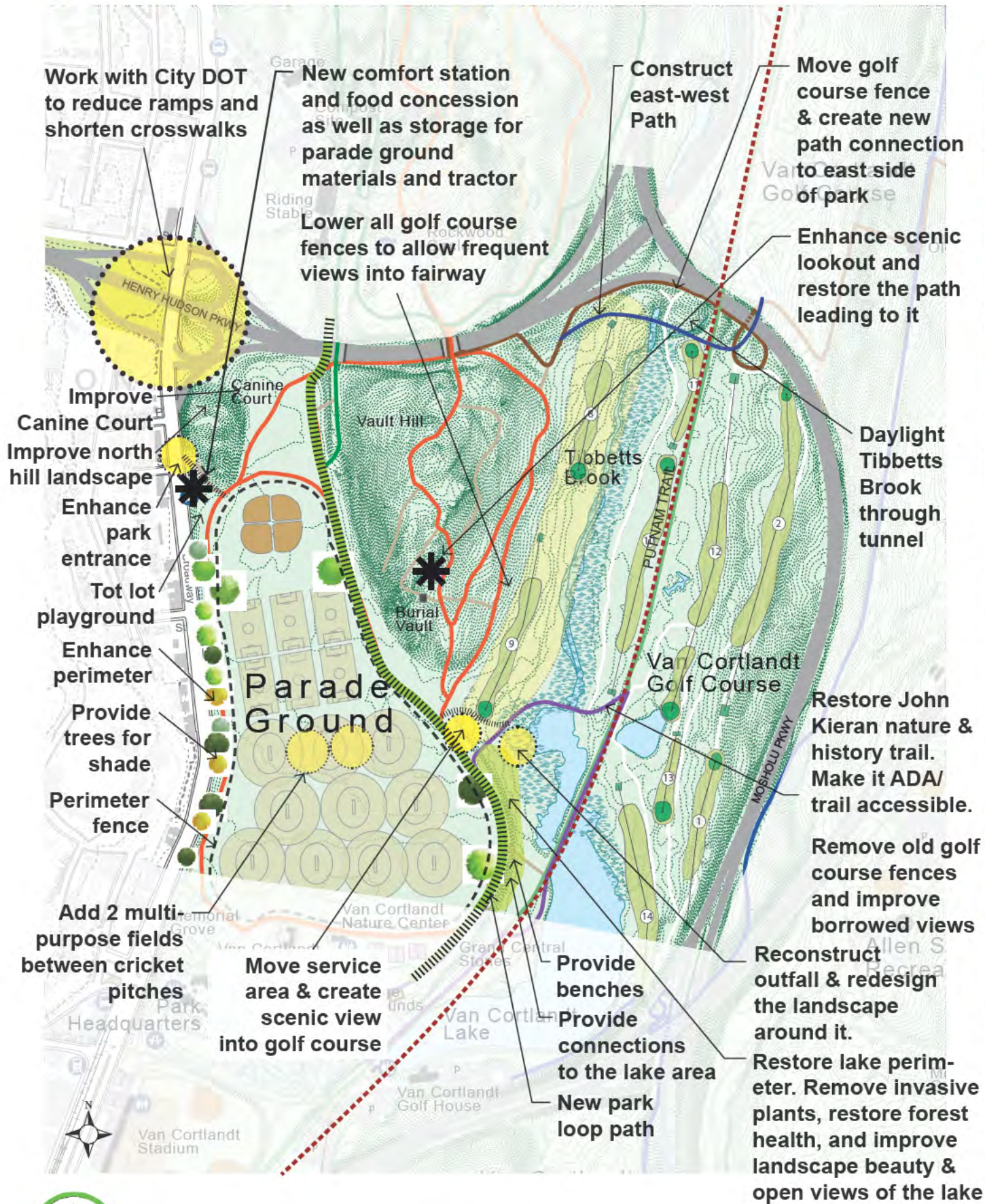


Community Goals

- Create new path around lake perimeter.
- Improve connection and landscaping to lake from Parade Ground.
- Improve condition of Tibbetts Brook.
- Increase connectivity to other areas of park.
- Install improved directional and rules signage.
- Repair drainage problems and improve overall maintenance.
- Restore and improve trails.
- Enhance the overall scenic experience of the Parade Ground area.
- Remove storage/service area.
- Open views of the golf course.
- Provide better food opportunities.
- Provide a covered area for gathering after events.



Area Four: Parade Ground



Priority Projects

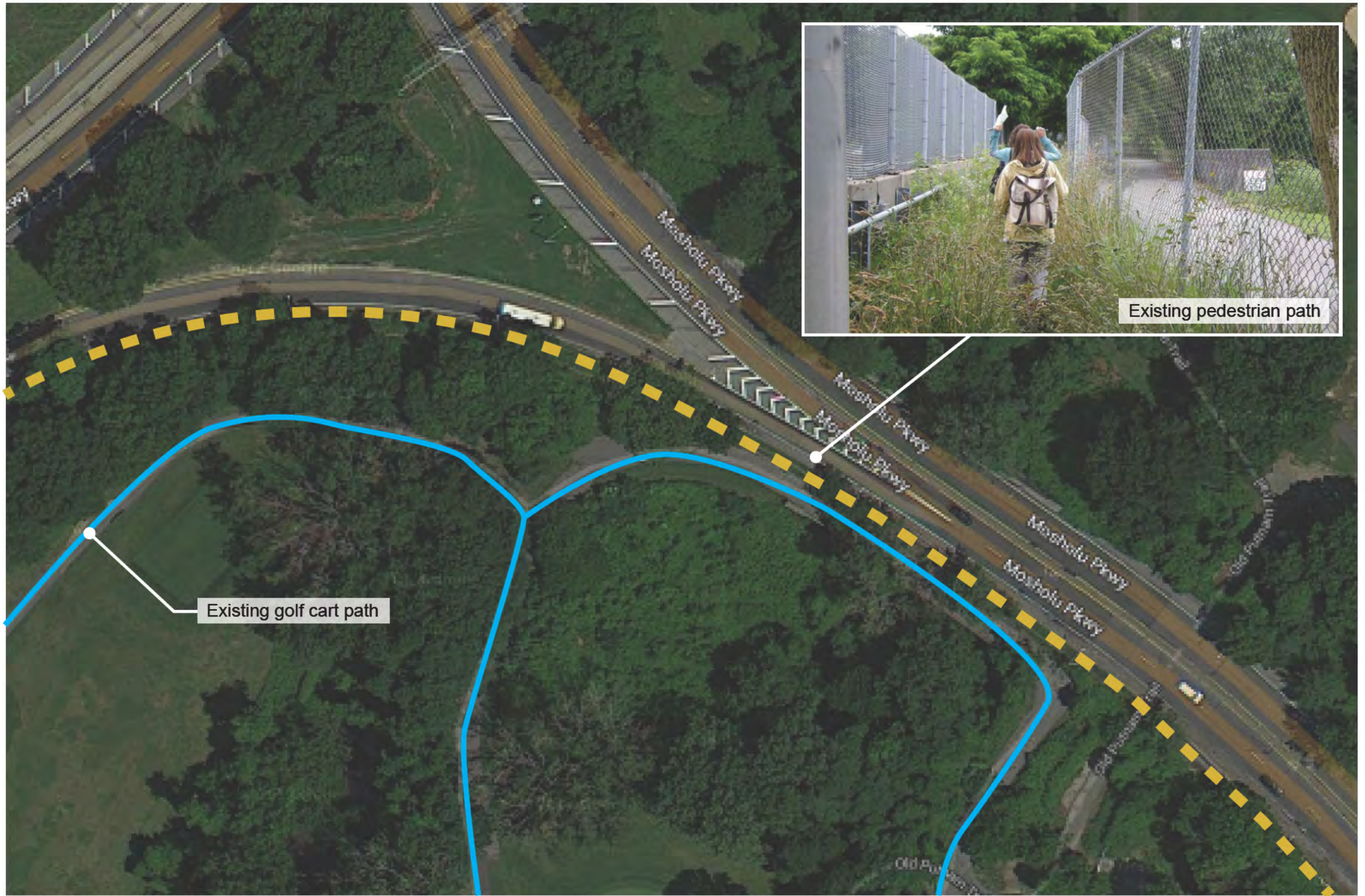


Proposed comfort station and food concession at the north edge of the Parade Ground.



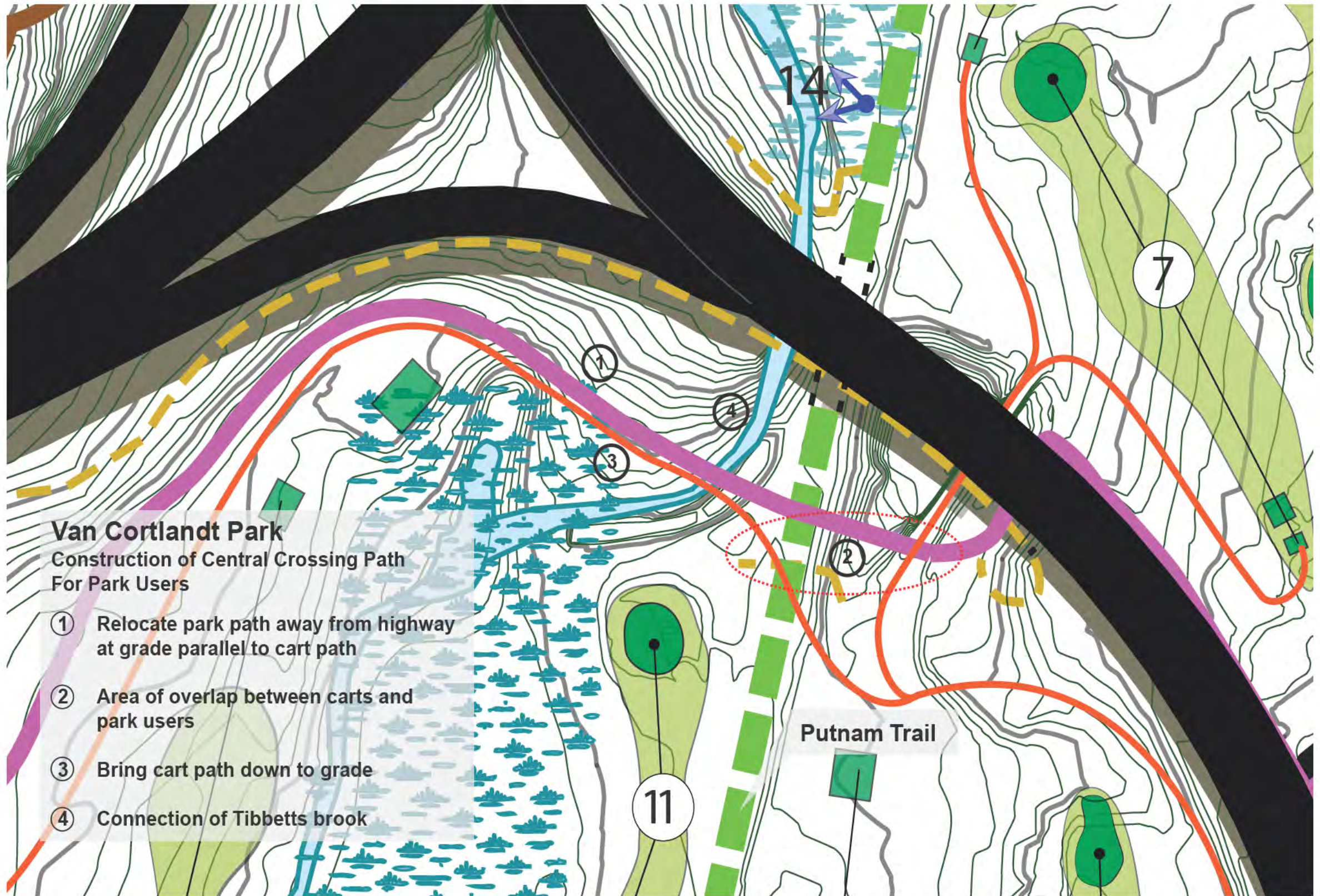
Proposed character of path leading to the lake area.

Area Four: VCP Golf Course: Existing pedestrian circulation



Existing pedestrian path

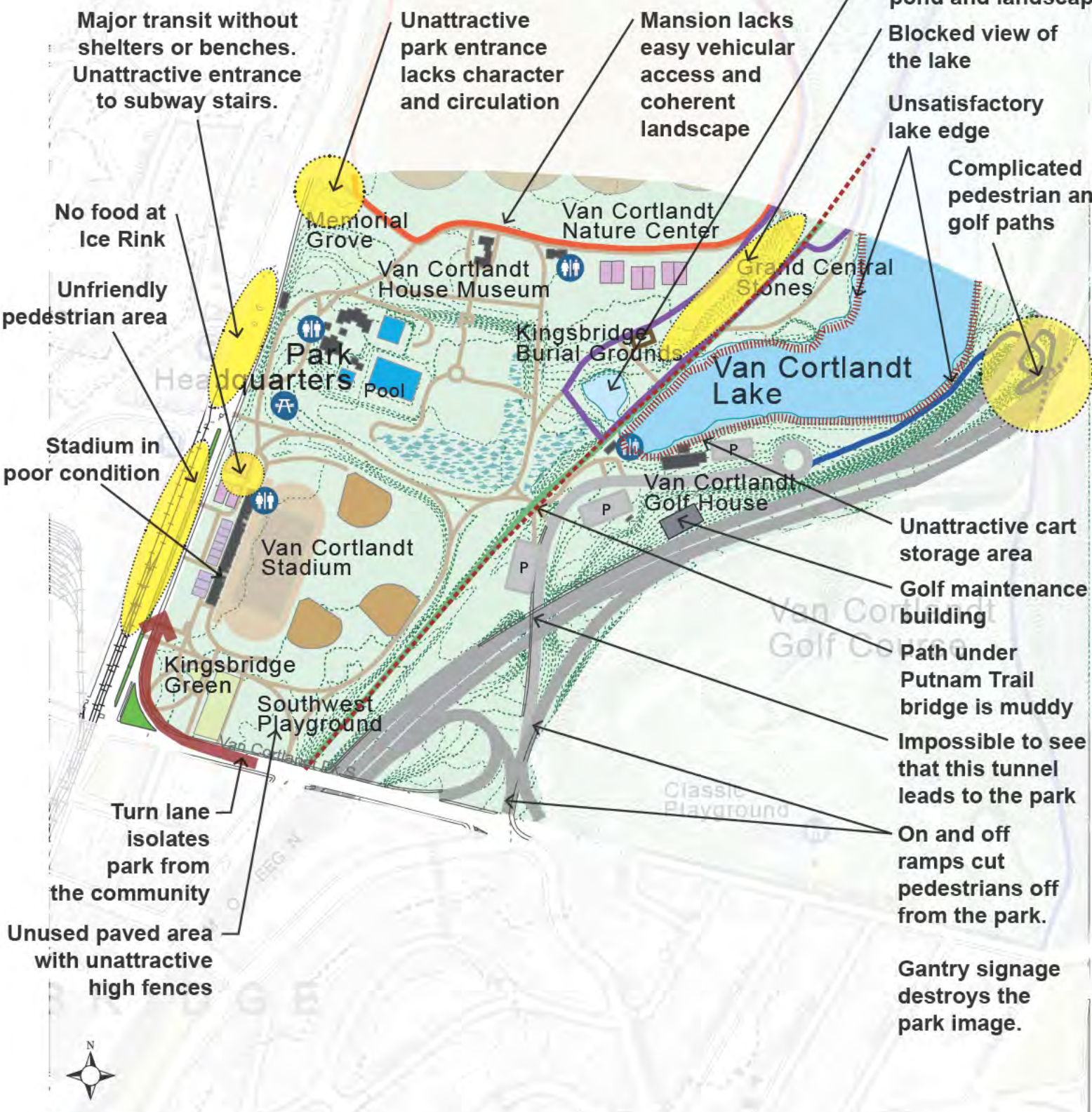
Area Four: VCP Golf Course: Proposed pedestrian circulation



Proposed pedestrian path: Orange dashed line is current pedestrian path. Purple line is the proposed new pedestrian path.

Area Five: Southwest Corner

Issues

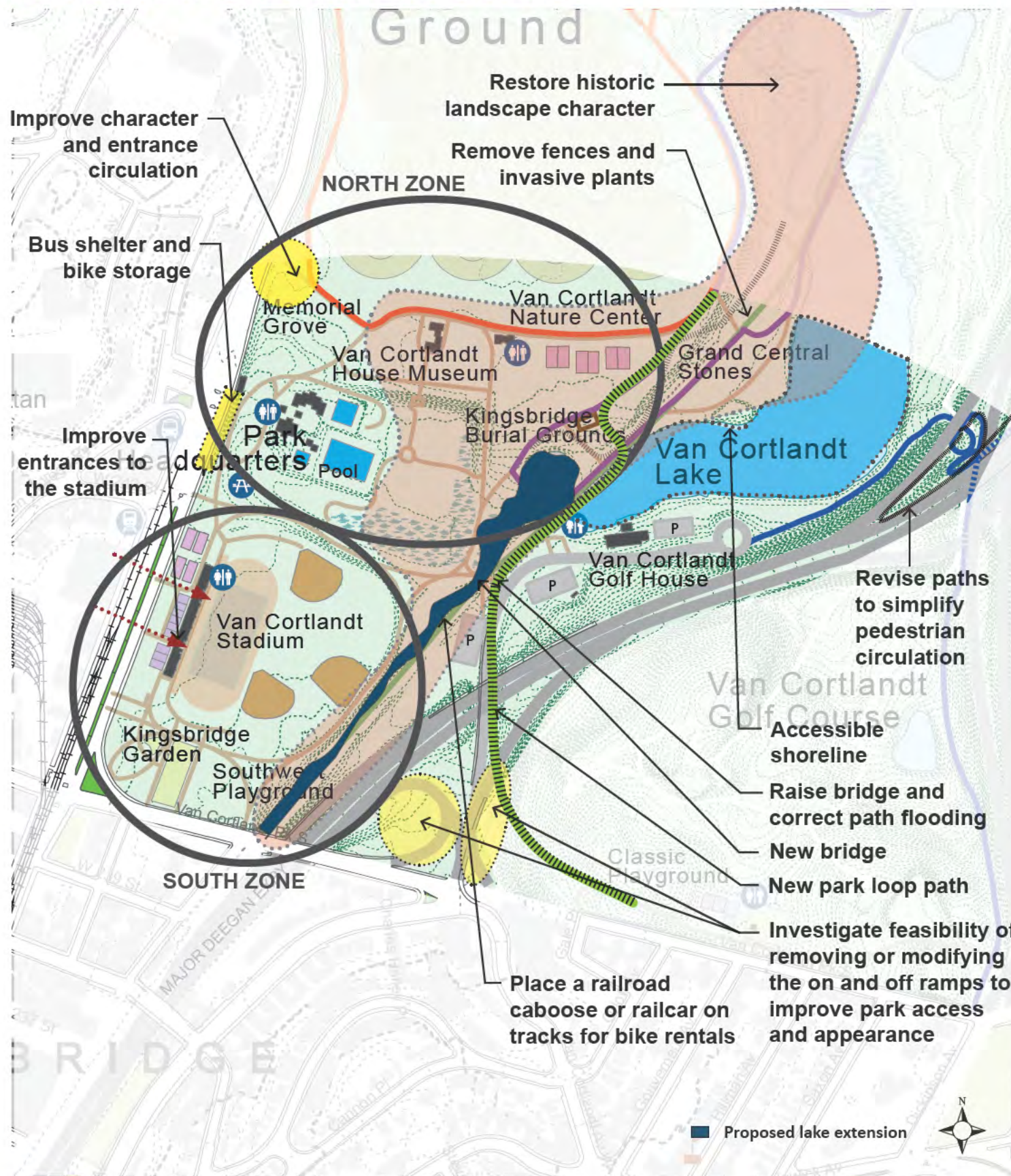


Community Goals

- Improve safety and entrance circulation.
- Make entrances appear more inviting.
- Improve character and entrance at Memorial Grove.
- Extend Kingsbridge Green edge.
- Make lake/golf house a destination. Add concession, boats and restaurant.
- Enhance trail around lake.
- Protect wetland and bird habitat.
- Resolve drainage and flooding issues in low area.
- Create East-West path.
- Provide food/ farmers market and facilities at the existing transit hub.
- Restore and adapt the stadium for larger gatherings.
- Provide indoor spaces for offices, gym and community meeting rooms.
- Restore landscape.
- Improve path conditions.



Area Five: Southwest Corner



Priority Projects



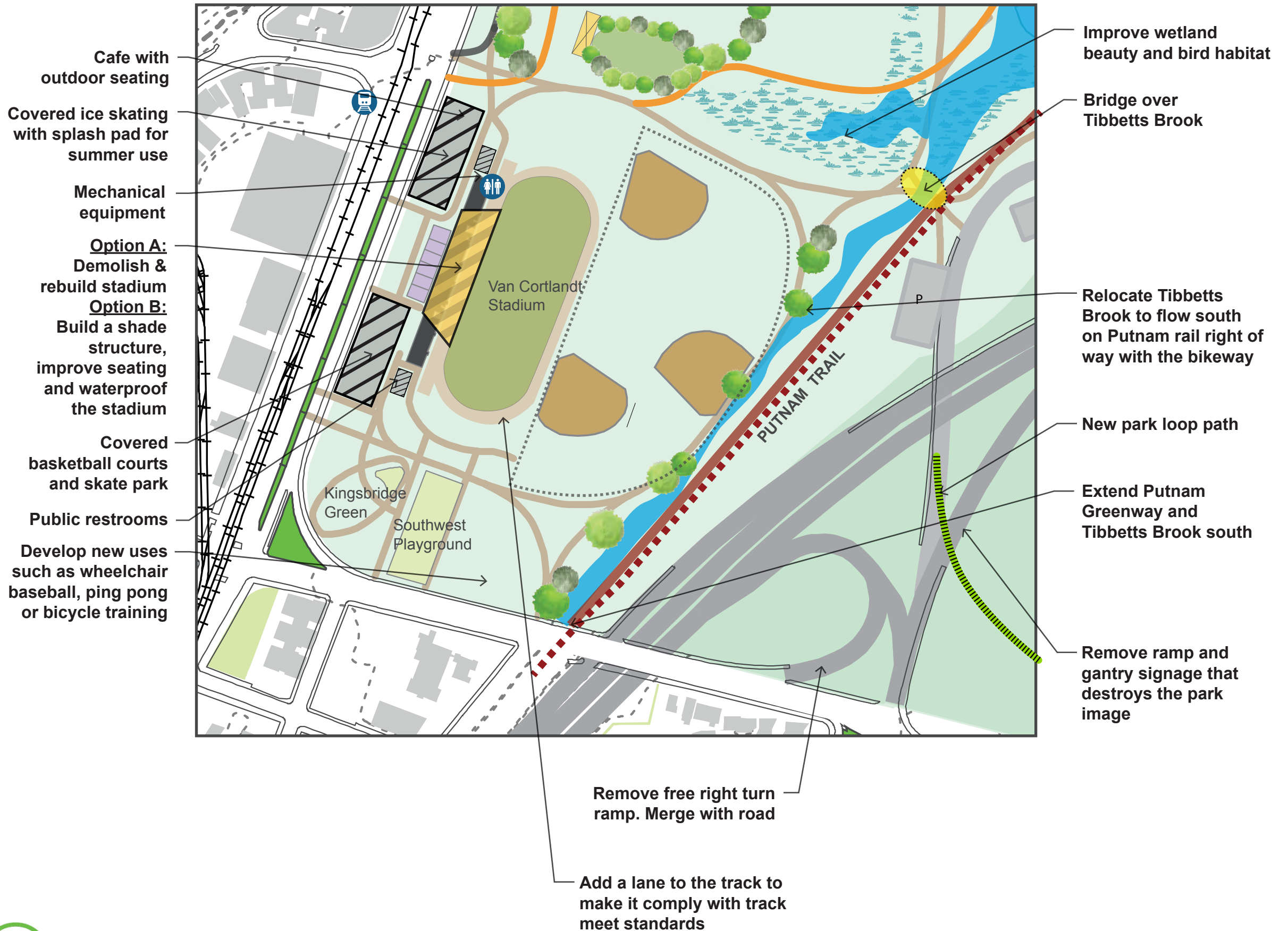
Enhanced lake landscape and golf house cafe with boating.



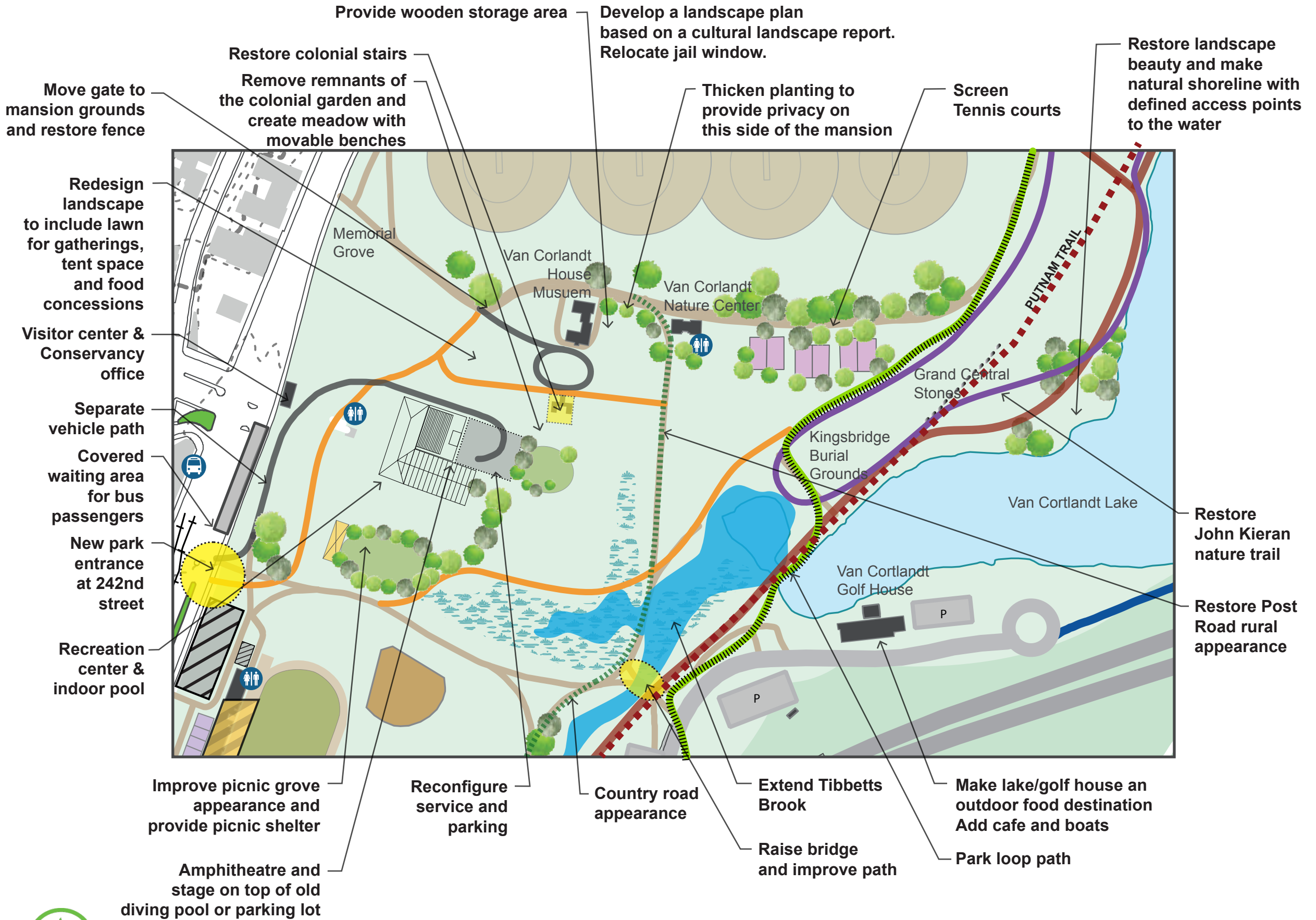
Example of naturalized shoreline.



Area Five: Southwest Corner: South Zone



Area Five: Southwest Corner: North Zone



Area Six: Kingsbridge Vale

Issues



Community Goals

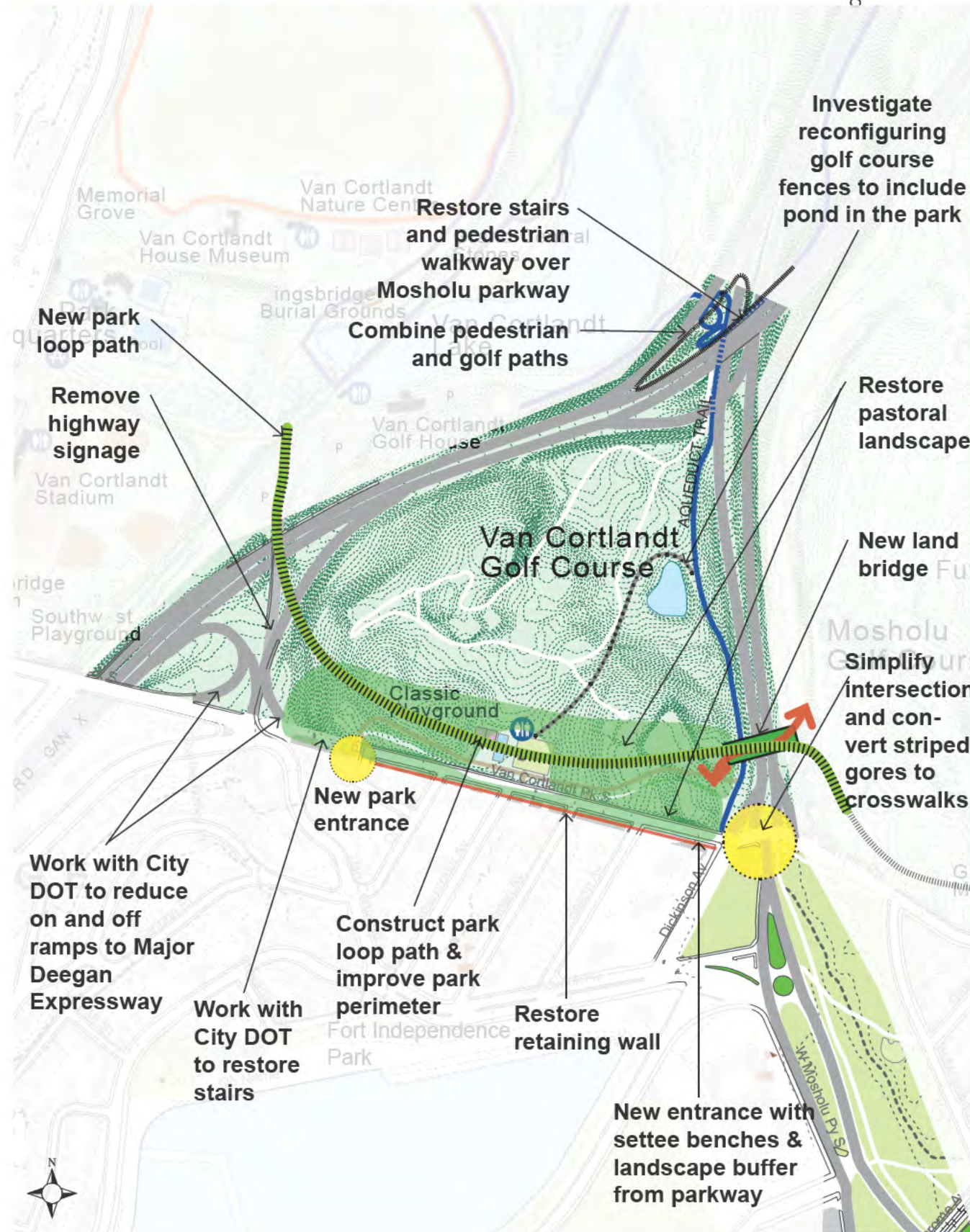
- Create pedestrian entrance along southern border.
- Install pedestrian bridge at Mosholu Parkway intersection.
- Restore retaining wall along southern border.
- Repair staircase at Major Deegan on the Aqueduct Trail.
- Improve view and landscape between Classic Playground and Golf Course.
- Improve East-West pedestrian circulation.



Gantry signage and difficult pedestrian circulation.



Area Six: Kingsbridge Vale



Priority Projects



Proposed land bridge over Mosholu Parkway.

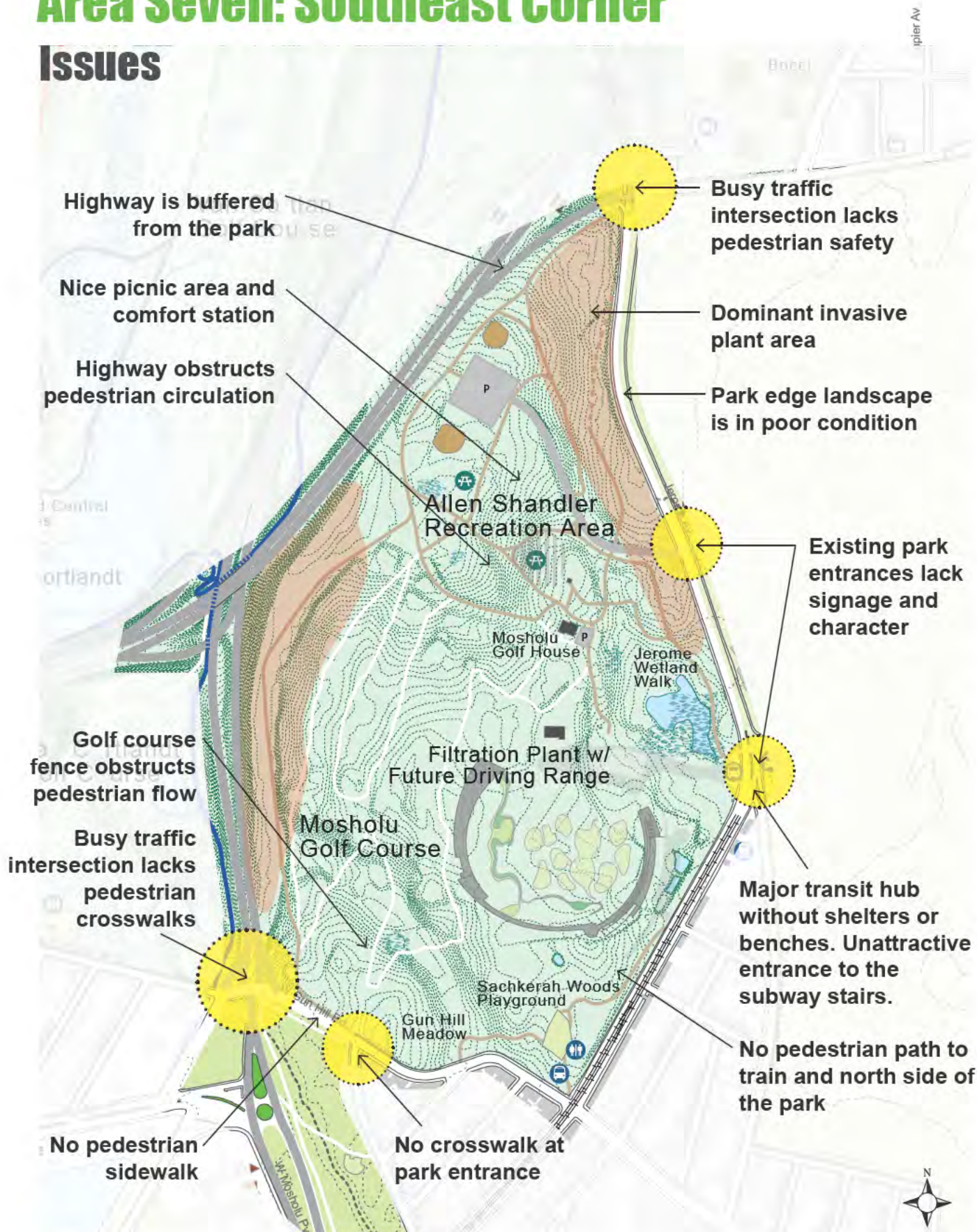


Proposed park entrance with gantry sign and on-ramp to Major Deegan removed to improve pedestrian access and park beauty



Area Seven: Southeast Corner

Issues

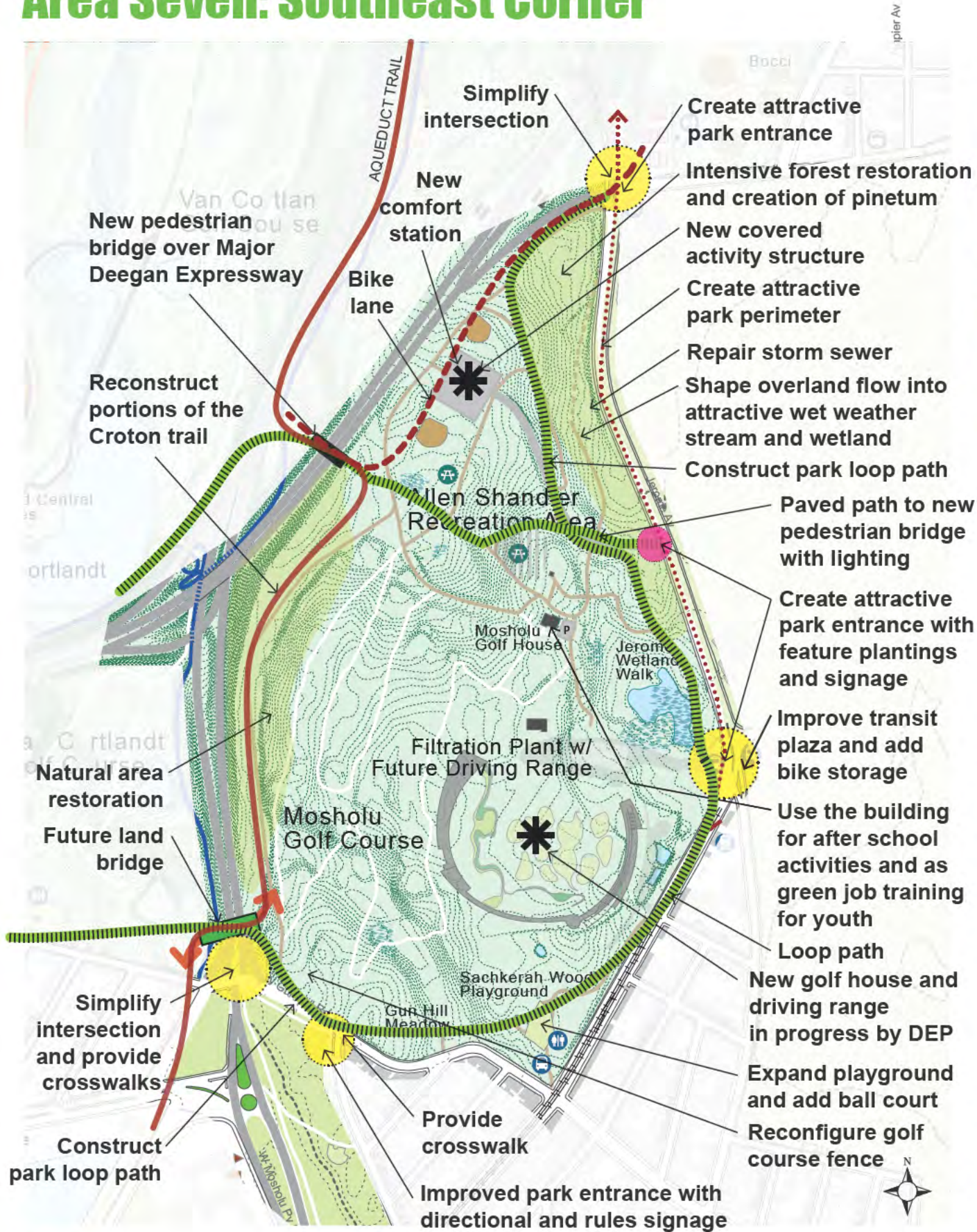


Community Goals

- Improve bike access to Woodlawn and Mosholu subway stops.
- Restore pedestrian bridge and stairs over Mosholu Parkway.
- Convert Mosholu Golf House into a community meeting/public space.
- Utilize Allen Shandler space for winter activities.
- Expand Sachkerah Woods Playground.
- Build pedestrian bridge over Major Deegan on the Aqueduct Trail.
- Improve crossing safety at W Gun Hill Road to Mosholu Parkway.
- Improve condition of E 233 St. and Jerome Ave. intersection.
- Improve safety of bike crossings at Van Cortlandt Golf Course and Mosholu Parkway ramp.
- Upgrade perimeter around edge of Woodlawn Cemetery.
- Move fence along southern border at the Golf Course.



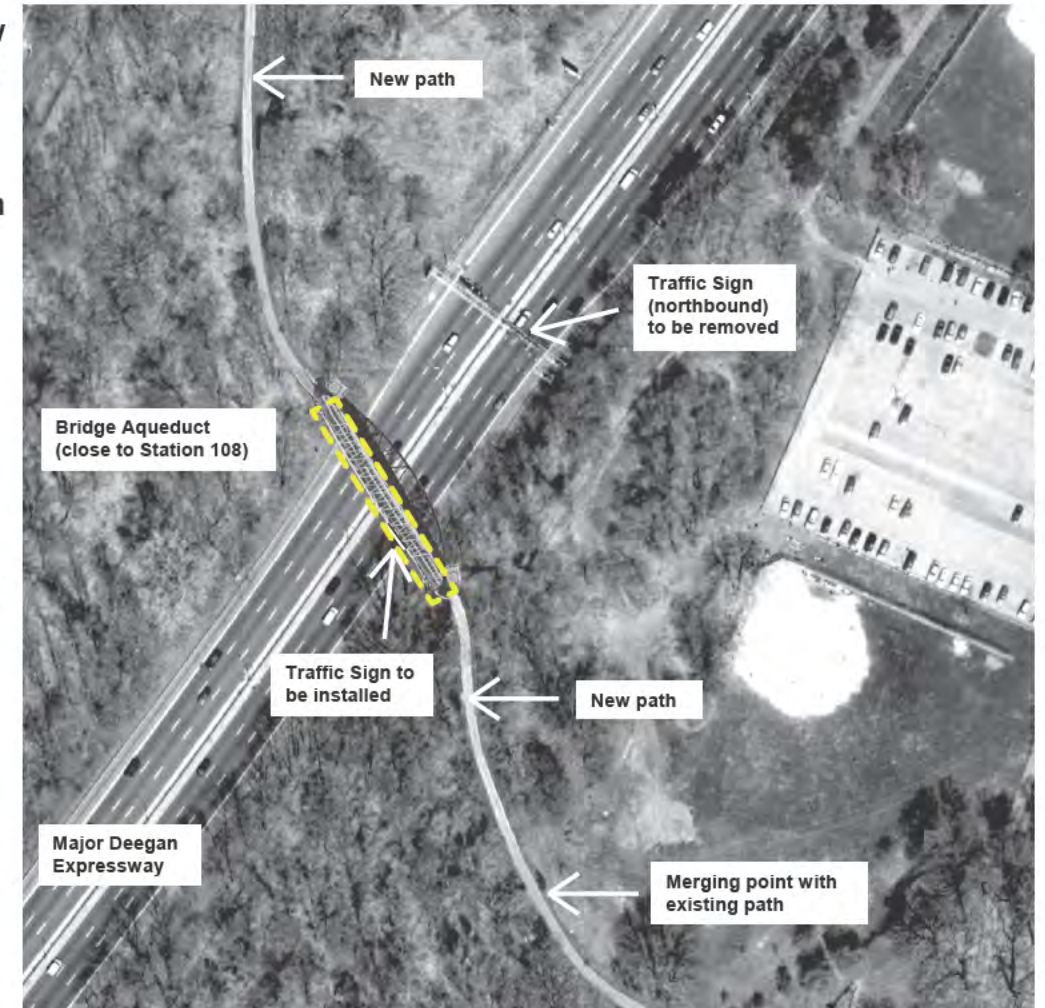
Area Seven: Southeast Corner



Priority Projects



New golf house and driving range



New pedestrian bridge over Major Deegan Expressway

Project description & budget

Estimates in 2015 dollars including: Design 10%, Construction Inspection 10%, Construction contingency 10%, Concept level estimation contingency 20%



1 Northwest Forest

		Section and Project	Estimate	Project Description	Priority
Caryl and Kelly Field	1.01	Entrance and path at 259th Street	\$62,400	Timber rail fence , signage, grading, paving, planting	
	1.02	Entrance and path at 261st Street	\$187,200	Timber rail fence, signage, grading, paving, planting	◆
	1.03	Entrance and path Saratoga Avenue	\$162,864	Timber rail fence , signage, grading, paving, planting	
	1.04	Loop path and forest: from Saratoga entrance to 259th street	\$1,248,346	6 foot wide, 2.5 inch urethane and aggregate pavement, with forest restoration and pastoral meadow, settee benches	◆
	1.05	Natural area restoration	\$234,000	Forest, meadow and wetland	
	1.06	Pastoral landscape between the ballfields	\$234,000	Forest edge, understory flowering trees, lawn	
	1.07	Perimeter and landscape, 263 street to 259 Street, 6 foot wide sidewalks, settee benches, fencing.	\$1,385,280	6 foot wide, exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Tree root damage must be a determining factor on alignment and width.	
	1.08	Play area in the woods for nature exploration and play.	\$174,000	Dirt surface, rocks, movable tree limbs, water, bolder climbing and seating	◆
Total:			\$3,688,090		
Forest	1.09	Cass Gallagher nature trail and markings	\$124,800	Reconstruct existing paths with aggregate surface	
	1.1	Cross-country trail and signage	\$312,000	Reconstruct existing paths with aggregate surface	
	1.11	Equestrian trail and signage	\$468,000	Reconstruct existing paths with aggregate surface	
	1.12	Loop path: Saratoga Avenue to Sawmill parkway	\$1,295,640	6 foot wide, 2.5 inch urethane and aggregate pavement, with forest restoration and natural stone steps	
DOT	1.13	Bridge over Sawmill Parkway	\$8,640,000	200 foot clear span custom arching steel truss with curving ramps	
Total:			\$10,840,440		

Project description & budget

Mole Hill	1.14	Loop path and adjacent forest: 259th Street to Mosholu Ave.	\$677,981	6 foot wide, 2.5 inch urethane and aggregate pavement, with forest restoration and natural stone steps	
	1.15	Mole Hill landscape, Significant landscape of seasonal beauty on the sides and top of the hill.	\$936,000	Intended to provide a place to walk to the top and meander, it should spill across Mosholu and embrace the community	
	1.16	Perimeter and landscape 259th street south to Mosholu Avenue. 6 foot wide sidewalks, settee benches, timber rail fence	\$534,300	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Width can be greater if there is demand for it and the space allows. However, tree root damage must be a determining factor on alignment and width.	
	1.17	Wetland restoration and Boardwalk	\$936,000	Restore wetlands for amphibian and bird habitat. Install boardwalk	
DOT	1.18	Bike Paths on Broadway		Striped bike lanes along entire length of Broadway to Yonkers	
DOT	1.19	Reduce ramps at Henry Hudson Parkway, provide crosswalks and signals		Reduce ramps to a single signalized intersection with crosswalks. Bring intersection into compliance with the NYC Street Design Manual	


Total: **\$3,084,281**

Mosholu Avenue	1.2	Entrance at 256th street and the path to Mosholu Ave	\$194,064		
	1.21	Loop path: Mosholu Ave to South side of Henry Hudson Parkway bridge	\$989,501	6 foot wide, asphalt pavement with pastoral landscape construction and settee benches.	
	1.22	Perimeter and landscape Mosholu Avenue to Henry Hudson Parkway	\$870,480	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Width can be greater if there is demand for it and the space allows. However, tree root damage must be a determining factor on alignment and width.	
	1.23	Childrens garden and arbor	\$64,800	Small garden for growing vegetables, attracting insects and learning to nurture.	
	1.24	Playground near Broadway, 1500 sq. feet	\$1,260,000	Play equipment, paths and landscape, benches, plantings, fences, surfaces	
	1.25	Comfort station	\$981,600		
	1.26	Reduce street pavement leading to Rockwood circle	\$144,000	Provide stone dust cross country trail crossing the old street bed	
	1.27	Sidewalk on South side of Mosholu Avenue	\$615,420	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Width can be greater if there is demand for it and the space allows. However, tree root damage must be a determining factor on alignment and width.	

Total: **\$5,119,865**




Project description & budget

Service compound	1.28	Community Garden and Compost area	\$24,000	Enlarge existing garden and compost area	
	1.29	Landscape buffer for service area on Mosholu Avenue side.	\$139,200	Trees and shrubs to screen service area, arranged irregularly to extend forest character.	
	1.3	Operations building and covered vehicle parking for parks vehicles	\$1,872,000	New operations headquarters, locker rooms, restrooms, muster room, equipment storage	
	1.31	Operations compound pavement and fencing	\$552,000	make the arrangement more conducive to the operational needs	
	1.32	Service area relocation from parade grounds	\$120,000	Include areas for bulk material storage	
DOT	1.33	Diminish visual intrusion of City DOT salt dome	\$600,000	Camouflage net over salt dome to obscure it.	
Total:			\$3,307,200		
Total Capital Requirement			\$26,039,875		


2 Croton Woods

Section and Project		Estimate	Project Description	Priority	
Northern Forest	2.01	Entrance and path at Sherman Ave or other	\$163,800	Single rail timber fence, signage, grading, paving, planting	
	2.02	Loop path and forest restoration: Sawmill Parkway bridge to Major Deegan tunnel	\$1,335,571	6 foot wide, 2.5 inch urethane and aggregate pavement, with forest restoration and natural stone steps	
	2.03	Natural area restoration	\$1,404,000	Forest, understory, meadow	
	2.04	Perimeter: Sawmill Parkway to Major Deegan	\$248,196	Timber guardrail	
Total:			\$3,151,567		
Forest	2.05	Cascade and pool	\$624,000	Reposition boulders, construct weir to retain water in pool, construct boulder cascade, install plantings, remove invasive plants	
	2.06	East-west path and adjacent forest, Mosholu Parkway tunnel to Major Deegan tunnel	\$1,685,606	6 foot wide porous urethane and aggregate path through disturbed areas of forest, or using old bridal path, with switchbacks to decrease grade.	
	2.07	Golf course fences at south end	\$192,317	Round off the south east corner to accommodate East-West path	
	2.08	Major Deegan tunnel appearance and lighting	\$240,000	Vandal resistant up lighting, graffiti barrier paint, asphalt pavement, coarse gravel rip-rap edges	
	2.09	Muir trail restoration and signage	\$285,106	Aggregate or soil path as per Friends of Van Cortlandt Park Plan	
	2.1	Nature Trail restoration and markings	\$95,035		
Total:			\$3,122,064		


Project description & budget

Tibbets Brook	2.11	Daylight Tibbets Brook through tunnel	\$2,141,700	Excavate a new creek route from the headwall on the north side of the tunnel to the creek on the south side of the tunnel. The estimate is based on a 9 foot excavation 9 feet wide.	
	2.12	Mosholu tunnel appearance and lighting	\$180,000	Pavement, up lighting and rock border	
	2.13	Putnam Railroad Greenway	Already funded	Construct a paved bicycle route with water infiltration and a gravel or dirt walking path, remove invasive vines and trees, restore native species of trees, shrubs and herbaceous plants for habitat and beauty, install new lower golf course fencing	
	2.14	Tibbets brook wetland habitat and ecology enhancement	\$936,000	This restoration would supplement work performed by DEP	
DEP	2.15	Tibbets brook storm water detention and ecological health	In DEP budget	This is the DEP project to decrease storm sewer overflow by increasing the holding capacity of Tibbetts brook and lake	
Total:			\$3,257,700		
Total Capital Requirement			\$9,531,331		

3 Northeast Forest

Section and Project		Estimate	Project Description	Priority	
Northern Portion	3.01	Entrance and path at Agawam Street	\$56,160	Single rail timber fence, Rule and orientation signage, grading, paving, planting	
	3.02	Entrance and path at Aqueduct Street	\$56,160	Single rail timber fence, rule and orientation signage, grading, paving, planting	
	3.03	Loop path and perimeter landscape: 242 nd street to Major Deegan tunnel	\$1,682,928	6 foot wide, 2.5 inch urethane and aggregate pavement, with pastoral meadow or lawn landscape of seasonal beauty, timber guard rail, settee benches	
	3.04	Loop path and forest restoration: Muir trail entrance to 242nd Street.	\$965,484	6 foot wide, 2.5 inch urethane and aggregate pavement with forest restoration	
	3.05	Natural area restoration	\$1,404,000	This could include forest, forest edge, understory trees and shrubs, meadow grasses	
	3.06	Athletic field on top of DEP valve chamber	\$5,544,960	This could be a formal athletic field or an informal sports and passive use area depending on the needs at the time.	
Total:			\$9,709,692		
Forest	3.07	Dog Run	Already funded	Improve and expand in accordance with June 2014 plans.	
	3.08	East-West path and adjacent landscapes	\$1,054,354	6 foot wide, flexible porous pavement such as 2.5 inch urethane and aggregate pavement, with forest restoration	
	3.09	Improve wetland and install boardwalks and educational signage	\$984,000	Analyze the wetland and determine what modifications are needed to improve ecological health and habitat. Route the boardwalk to provide the ability to observe plants and animals.	

Project description & budget

Forest	3.1	Loop path and forest restoration: 233rd street, Indian fields to Muir trail	\$814,766	6 foot wide, 2.5 inch urethane and aggregate pavement, with pastoral meadow or lawn landscape of seasonal beauty, timber guard rail, settee benches	
	3.11	Muir trail restoration and signage	\$154,877	Aggregate or dirt path as per plans developed by the Friends of Van Cortlandt park	
	3.12	Muir trail: New entrance	\$62,400	Relocate entrance to the south side of the Stockbridge Indian memorial. Aggregate or dirt path as per plans developed by the Friends of Van Cortlandt park. Orientation and information signage, timber rail fence	
	3.13	North-South Bicycle path adjacent to Expressway	\$1,241,006	Repave existing path, with forest restoration	
	3.14	Perimeter: Muir trail to 236th Street	\$826,020	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Width can be greater if there is demand for it and the space allows. However, tree root damage must be a determining factor on alignment and width.	
	3.15	Playground improvements	\$840,000	Expand playground, add swings for older children, install exercise equipment, separate basketball from playground	
		Restore comfort station	\$733,920		
	3.16	Restore nature trails and provide markings	\$124,800		
	3.17	Stockbridge Indian Memorial	\$696,000	Remove guardrail, install timber rail, benches, informational signage, and a poetic landscape that encourages contemplation	
Total:			\$7,532,143		

Indian Fields area	3.18	Bocce courts and sitting area	\$110,400	Restore courts and benches	
	3.19	Convert unused clay tennis courts to basketball courts	\$216,000	Two basketball courts	
	3.2	Entrance at 236th Street	\$31,200		
	3.21	Forest edge	\$278,400	Improve pastoral beauty	
	3.22	Indian Fields: Improve drainage and field conditions	\$360,000		
	3.23	Northwest softball field	\$3,648,000	Convert the to synthetic surface free play field with drainage field below, to serve adjacent ballfields	
	3.24	Perimeter: 236th street to 233rd Street	\$1,289,340	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Width can be greater if there is demand for it and the space allows. However, tree root damage must be a determining factor on alignment and width.	
	3.25	Picnic area	\$51,840	Create a picnic area on the knoll, relocate the storage container to a more discrete location. Perhaps near the comfort station.	
Total:			\$5,985,180		
Total Capital Requirement			\$23,227,015		

Project description & budget

4 Parade Ground

Section and Project		Estimate	Project Description	Priority
Golf Course Path Crossing	4.01	\$977,040	East - West path: Vault hill to Mosholu tunnel 6 foot wide, 2.5 inch urethane and aggregate pavement, with forest and meadow restoration. Make use of existing natural stone steps	◆
	4.02	\$137,280	Muir trail restoration and signage Defer to East-West path when it overlaps with the Muir Trail.	
	4.02	\$468,000	Pastoral landscape between Mosholu Parkway and Golf course Clear invasive brambles and vines, regrade for E-W path, establish a meadow	◆
	4.03	\$374,400	Reconfigure golf course fences and cart paths. Install new, lower fences. Move the park path and the cart paths down the slope away from the highway in order to integrate East-West Path.	◆
Total:		\$1,956,720		
Vault Hill	4.04	\$1,310,083	Loop Path and landscape enhancement: Sawmill Parkway bridge to Kieran trail 6 foot wide, 2.5 inch urethane and aggregate pavement, with pastoral meadow or lawn landscape of seasonal beauty, timber guard rail, settee benches. Separate it from the crushed stone loop around the parade grounds.	
	4.05	\$56,160	Restore Burial grounds and wall, as well as adjacent landscape and scenic view point	
	4.06	\$120,000	Sawmill Parkway bridge: Paint and improve pavement	
	4.07	\$74,880	Sawmill Parkway bridge landscape Thicken landscape on the bridge	
	4.08	\$662,400	Vault hill path restoration and pastoral beauty Construct a network of scenic paths to the vault, and construct landscapes of pastoral beauty that preserve views	
	4.09	\$468,000	Wetland habitat and ecology enhancement, install boardwalks and educational signage	
Total:		\$2,691,523		
Broadway and Parade Grounds	4.10	\$38,880	Canine Court Fences, benches, and shrubs of seasonal beauty	
	4.11	\$3,827,520	Concession and restroom building with raised stone terrace that can be tented A café concession similar to Mineral Springs concession in Central park. Provide restrooms and storage for parade grounds equipment.	
	4.12	\$24,000	Dumpster for event trash Concealed	
	4.13	\$214,032	Entrance at 252nd Street	
	4.14	\$136,992	Loop Path: Kieran trail to Burial grounds Enhance adjacent landscape	
	4.15	\$468,000	North Hill landscape beauty	
	4.16	\$96,000	Parade ground shade trees and understory flowering trees Sprinkled around the perimeter	

Project description & budget

Broadway and Parade Grounds	4.17	Perimeter and landscape , Henry Hudson Parkway to the Memorial grove, 6 foot wide sidewalks, settee benches, fencing, additional row of shade trees.	\$2,086,500	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Width can be greater if there is demand for it and the space allows. However, tree root damage must be a determining factor on alignment and width.
	4.18	Shaded play area for children who have come with the family for sports events	\$86,400	
	4.19	Soccer fields	\$120,000	Integrate two grass soccer fields between three cricket fields
	4.2	Storage lockers for team use	\$24,000	
	4.21	Water fountains with water bottle fillers	\$72,000	
Total:			\$7,194,324	

Lake	4.22	Burial Grounds beauty and interpretation	\$62,640	
	4.23	John Kieran trail restoration , make it ADA accessible as much as possible without damaging roots or shoreline	\$311,741	Relocate golf course fences to allow gracious passage
	4.24	Parade Ground fences, benches and trees	\$441,600	East side
	4.25	Putnam Railroad Greenway	Already funded	Construct a paved bicycle route with water infiltration and a gravel or dirt walking path, remove invasive vines and trees, restore native species of trees, shrubs and herbaceous plants for habitat and beauty, install new lower golf course fencing
	4.25	Redesign the storm sewer outfall area to naturalize its appearance and filter stormwater.	\$234,000	Incorporate a vortechnic unit into the outfall
	4.26	Remove the service area next to the Parade Ground and construct a meadow. Install new, lower golf course fences.	\$55,680	
	4.27	Restore lake perimeter , orchestrate a scenic path	\$468,000	Open views, remove invasive and dead trees
Total:			\$1,573,661	
Total Capital Requirement			\$13,416,228	

Project description & budget

5 Southwest Corner

		Section and Project	Estimate	Project Description	Priority
Mill Pond and Tibbetts brook extension	5.01	Loop Path: Putnam Railroad Greenway to Burial Grounds	\$163,834	Asphalt path using existing pavement and new pavement on the north side of the pool. Enhance the adjacent landscape.	
	5.02	Putnam Railroad Greenway: extend it to the south to connect with the CSX right of way	\$1,405,170	Construct a paved bicycle route with water infiltration and a gravel or dirt walking path, remove invasive vines and trees, restore native species of trees, shrubs and herbaceous plants for habitat and beauty, install new lower golf course fencing	
	5.03	Putnam Railroad Greenway: Raise and restore the southern most bridge.	\$840,000	Jack up the bridge sufficiently to allow elevating the East West path to improve drainage. Restore the decorative abutments, paint the bridge "Iron Black," low luster.	
	5.04	Tibbetts brook extension south to the CSX right of way	\$5,223,900	Excavate a new route for the brook with a natural looking edge and landscape. Reconfigure the wetlands and path.	
	5.05	Tibbetts brook bridge over the extension	\$120,000	The East west path to the golf house will require a rustic wood bridge to cross over he brook.	
	5.06	Tibbetts mill pond reconfiguration and landscape	\$900,000	Remove the dam of the south side of the pond and shape the opening to appear natural	
Total:			\$8,652,904		

Entrance to Park and Lake	5.07	Place a Caboose on the tracks for bicycle and boat rentals and visitor information	\$360,000		
	5.08	Loop Path: Putnam Railroad Greenway to Kingsbridge Vale playground hillside	\$453,120	Asphalt paths and natural stone steps as required to go up the hill on Kingsbridge Vale side to the playground	
	5.09	Park gateway under the Major Deegan Expressway, Clean stone, install up lights and new sidewalks	\$240,000		
	5.1	Scenic landscape and siting area at south end of the lake	\$240,000	Remove asphalt and create a focal point landscape and sitting area.	
DOT	5.11	Pedestrian crosswalks and signals across the Major Deegan entrance			
DOT	5.12	Eliminate free right hand turn ramp from Major Deegan to Van Cortlandt Park South. Remove gantry signage.		This will require a determination that the on and off traffic can be accommodated from the Mosholu Parkway and the Sawmill Parkway entrances and exits	
DOT	5.13	Eliminate north bound on-ramp to Major Deegan from Van Cortlandt Park South. Remove gantry signage.			
Total:			\$1,293,120		

Post Road	5.14	New entrance at Putnam Avenue, with post road character.	\$780,000	Reconfigure the paved area fences to widen the entrance, mimic the curving fence line of the Kingsbridge green.	
	5.15	Plantings to screen Nature Center from Post Road	\$34,800		
	5.16	Post Road dry stone wall	\$56,160	Stabilize loose stones. Preserve a tumble-down appearance.	
	5.17	Post Road path and rural landscape restoration	\$696,000	Includes a raised path adjacent to the Tibbetts Brook extension that will replace the existing boardwalk.	
	5.18	Wetland	\$468,000	Improve beauty and ecology	
Total:			\$2,034,960		

Project description & budget

Mansion	5.19	Colonial stairs and Chestnut row	\$480,000	Provisional estimate for restoring the stairs and rural appearance of the road and embankment
	5.2	Mansion grounds landscape restoration and adaptation in accordance with a cultural landscape plan	\$360,000	Provisional estimate for unscoped work. Relocate jail window, provide thicken plantings to provide privacy on north side of
	5.21	Mansion grounds, new gate and loop drive, restore fence	\$360,000	Provisional estimate for unscoped work
	5.22	Mansion restoration and adaptation	\$1,200,000	Provisional estimate for unscoped work
	5.23	Remove remnants of colonial garden and establish a meadow	\$240,000	Place 8 movable wooden benches irregularly around the perimeter of he meadow.

Total: \$9,296,160

Memorial Grove and South end of Parade Grounds	5.24	Entrance: 246th Street north of Memorial Grove	\$607,776	Remove timber planters and pipe gate. Extend the memorial grove shrub plantings north across the path. Plant middle story flowering trees. Provide rule and orientation signage as well as emergency phone
	5.25	Extend main path into Mansion Grounds, add benches along path	\$280,800	Reduce pavement in front of Mansion and reduce width of path at intersections
	5.26	Memorial Grove	\$6,000	Plant middle story flowering trees in and outside the pipe rail border
	5.27	Perimeter and landscape: Broadway from 248th street, north of Memorial Grove to entrance to Picnic grove at 242nd Street	\$780,000	Settee benches and pedestrian lighting
	5.28	Water fountains with water bottle fillers	\$60,000	
	5.28	Water service for Memorial Grove plantings	\$132,480	

Total: \$1,867,056

Stadium	5.29	Ballfield upgrades	\$4,000,000	Work with Manhattan college to adapt the fields to their competitive needs
	5.3	Covered area: for basketball courts and skate park	\$3,120,000	
	5.31	Ice skating rink: A permanent facility that converts to a summer splash pad, create a structure to conceal the mechanical equipment	unbudgeted	Make a year round destination
	5.32	Perimeter: 242nd to 240th Street	\$1,008,000	Replace chain link fence with 4 foot steel picket fence beside ice rink, 8 foot next to basketball and skate park. Settee benches and pedestrian scale lighting
	5.33	Restrooms to serve the stadium, covered recreation area and Kingsbridge Green playground	\$1,913,760	
	5.34	Stadium Option A: Demolish and rebuild the stadium	\$200,000	Fund a preliminary design investigation to determine the scope and methods of converting the stadium to a recreation center with shaded stadium seating
	5.35	Stadium Option B: Construct a shading structure over 1/2 of the stadium. Waterproof the stadium.	\$8,000,000	Conduct a preliminary design investigation to determine the scope and methods of increasing the functionality of the stadium and locker rooms.

Project description & budget

Concession	5.36	Café building with covered seating to serve the community, the stadium, ice skating rink and splash pad	\$3,827,520	Include public restrooms
	5.37	Ice skating rink: A permanent facility that converts to a summer splash pad, create a structure to conceal the mechanical equipment	unbudgeted	Make a year round destination
MTA	5.38	Decrease noise from the subway: Install welded rails to decrease track noise		
MTA	5.39	Transit Plaza at the end of the #1 train		Improve lighting. Install signage with park information and orientation. Provide a shelter bus waiting area. Provide bike storage
Total:			\$22,069,280	

Swimming pool and picnic area	5.4	Recreation Center: Convert the pool into a year-round recreation center with interior pool for year round operation	\$200,000	Fund a preliminary design investigation to determine the scope and methods of converting the outdoor pool to a recreation center and year round pool.
	5.41	Amphitheater: Construct a 200 seat amphitheater facing east over the pool service parking area	Unbudgeted	Accomplished as part of the pool building reconstruction.
	5.42	Reconfigure the parking associated with the pool to provide parking for park maintenance vehicles	Unbudgeted	Accomplished as part of the pool building reconstruction.
	5.43	Picnic Grove: Picnic table and grills fixed in an oval arrangement, with shade trees around an oval raised grass lawn that faces the event shelter	\$500,000	Relocate utility poles, provide "moonlighting" from poles.
	5.44	Picnic and event shelter	\$249,600	Artistic structure suitable for memorable occasions
	5.45	East / West path to the Golf house	\$1,766,400	Install park lighting from Broadway to the golf house, improve landscape and drainage at Putnam underpass
Total:			\$2,716,000	

Park Headquarters	5.46	Minimize the asphalt parking area behind the Park headquarters	\$240,000	
	5.47	Park headquarters building: Adapt it to accommodate park information and the Conservancy office. Move operations to the maintenance yard.	\$144,000	
	5.48	Path connecting 242nd street entrance, Memorial grove and Mansion	\$276,000	
	5.49	Pedestrian and vehicular entrance at 242nd street	\$31,200	
	5.5	Reconfigure path connecting to maintenance headquarters and pool service area to provide a distinct vehicle path	\$276,000	
MTA	5.51	Bus waiting shelter: between Park headquarters and Subway stairs, 30 foot long	unbudgeted	
Total:			\$967,200	

Project description & budget

Lake	5.52	Lake perimeter: Improve beauty and condition, orchestrate a new scenic path	\$1,061,400	Remove invasive and dead trees, restore understory, use shrubs and middle story trees that will increase ecological health and beauty	
	5.53	Deepen Lake	Unbudgeted	Improve ecological health and decrease temperature, inhibit Phragmites growth	
	5.54	Screen tennis court with trees			
	5.55	Putnam Railroad Greenway	Already funded	Construct a paved bicycle route with water infiltration and a gravel or dirt walking path, remove invasive vines and trees, restore native species of trees, shrubs and herbaceous plants for habitat and beauty, install new lower golf course fencing	
Concession	5.56	Establish a paddle boat concession			
	5.57	Make Lake / Golf house a food destination, improve its appearance from the lake, remove metal storage container, landscape the front edge of the deck.			

Total: **\$1,061,400**

Total for Southwest Corner **\$49,958,080**

6 Kingsbridge Vale

	Section and Project	Estimate	Project Description	Priority	
South	6.01	Entrance at Gale Place	\$34,092	Include settee benches, plantings to buffer the parkway, feature plantings and signage.	
	6.02	Entrance at Mosholu Parkway	\$34,092	Include settee benches, plantings to buffer the parkway, feature plantings and signage.	
	6.03	Loop Path: Playground to land bridge over the Mosholu Parkway	\$268,051	Asphalt path connecting to existing path east of playground	
	6.04	Loop Path: Playground to base of hill on west side of playground	\$242,880	Asphalt path connecting to existing path east of playground and going down the hill with stone steps as required to go down the	
	6.05	Perimeter from Mosholu Parkway to Major Deegan Expressway	\$1,447,680	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Width can be greater if there is demand for it and the space allows. However, tree root damage must be a determining factor on alignment and width.	
	6.06	Restore natural area	\$960,000	Van Cortlandt Park South to south side of golf course perimeter	
	6.07	Restore retaining wall	\$84,000	Repoint, replace missing stones	
	6.08	Restore stairs north of Gale Place	\$96,000		
DOT	6.09	Eliminate free right hand turn ramp from Major Deegan to Van Cortlandt Park South. Remove gantry signage.		This will require a determination that the on and off traffic could be accommodated from the Mosholu Parkway and the Sawmill Parkway entrances and exits	
DOT	6.1	Eliminate north bound on-ramp to Major Deegan from Van Cortlandt Park South. Remove gantry signage.			

Total: **\$3,166,795**




Project description & budget

North	6.11	Combine golf cart and pedestrian paths at tunnel to lake	\$55,200	
	6.12	Reconfigure golf course fences to recapture the sledding hill.	\$936,000	Design a way to mitigate the hazard of sledding onto the pond
DOT	6.13	Restore pedestrian walkway over the Mosholu Parkway to the Croton trail		
Total:			\$991,200	
Total Kingsbridge Vale			\$4,157,995	

7 Southeast Corner

	Section and Project	Estimate	Project Description	Priority
Jerome Pinetum	7.01	Entrance at 233rd Street	\$31,200	Include feature plantings and signage
	7.02	Loop path and adjacent landscape: from Shandler Recreation entrance north to 233rd Street	\$443,520	Connect existing asphalt paths, restore adjacent landscape
	7.03	Perimeter from Shandler Recreation entrance to 233rd Street	\$1,378,260	10 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence.
	7.04	Pinetum and forest enhancement	\$468,000	
	7.05	Stormwater overflow: Shape overland flow into attractive wet weather stream and wetland	\$110,400	
DOT	7.06	Reduce width of intersection and crosswalks: Jerome Avenue and East 233rd St.		Examine how to improve pedestrian crossing. Eliminate free right hand turns.
Total:			\$2,431,380	
Jerome Wetland	7.07	Entrance at wetlands	\$31,200	Improve planting appearance, signage and path condition.
	7.08	Loop path and wetland improvements: from Transit Plaza to Shandler Recreation area entrance	\$251,975	Improve the wetland walk, construct new asphalt paths
	7.09	Perimeter from Transit Plaza to Shandler Recreation area	\$815,100	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Width can be greater if there is demand for it and the space allows. However, tree root damage must be a determining factor on alignment and width
	7.10	Adapt the modular golf course building for after school activities and green jobs training	\$144,000	
Total:			\$1,242,275	

Project description & budget

Shandler Recreation Area	7.11	Comfort station	\$1,913,760	New comfort station	
	7.12	Covered area for youth activities and community events	\$1,872,000	A 60 by 100 foot structure of architectural interest constructed over a portion of the parking lot. Provide a planted buffer around the structure.	
	7.13	Drainage for ballfields	\$552,000		
	7.14	East - West path to new bridge over Major Deegan Expressway	\$428,904		
	7.15	Entrance improvements at Shandler Recreation area	\$56,160	Include feature plantings and signage	
	7.16	Stripe bicycle path between 233rd street and new bridge over major Deegan Expressway	\$1,080		
DOT	7.17	Pedestrian bridge over Major Deegan	\$7,800,000	Bridge (alternative E) as designed by Phillip Habib for DEP. Includes 50 % estimate contingency and %30 for design,	

Total: **\$12,623,904**

Mosholu Golf Course area and Sachkerah Woods	7.18	Basketball courts	\$576,000	Two new courts	
	7.19	Entrance: Transit plaza	\$46,800		
	7.2	Entrance: West Mosholu Parkway North	\$56,160	See DOT request for new signalized intersection below	
	7.2	Loop Path and Perimeter: Sachkerah Woods Playground north to Transit Plaza	\$1,123,200	6 foot wide exposed brown-riverstone-concrete sidewalk with settee benches and single rail timber fence. Tree root damage must be a determining factor on alignment and width.	
	7.21	Loop path: Mosholu Parkway to the existing path west of the Playground	\$1,588,752	Asphalt path matching width of existing path. Reconfiguration of the golf course fences in order to make room for the path.	
	7.22	Natural area restoration	\$936,000	South and West of Golf Course	
	7.23	Perimeter: Mosholu Parkway to Jerome avenue	\$516,984	Restore stone wall, construct sidewalk between Mosholu Parkway and West Mosholu Parkway North	
	7.24	Sachkerah Playground	\$840,000	Enlarge it	
MTA	7.25	Improve Transit Plaza at the end of the #5 train		Jerome and Bainbridge. Improve lighting. Install signage with park information and orientation. Provide bike storage	
DEP	7.26	Complete driving range and golf house, remove granite wall and restore landscape and sidewalks	DEP project	Remove granite wall and restore landscape and sidewalks	
DOT	7.25	Signalized crosswalk across Gunhill Road at West Mosholu Parkway North			
DOT	7.25	Land bridge over the Mosholu Parkway	\$12,600,000	Bridge design is based on HNTB and M. Van Valkenburgh winning entry to ARC competition	
DOT	7.26	Mosholu Parkway intersection with Gun Hill Road. Eliminate free right turn lanes, reduce width of intersection, install signalized crosswalks on the park side.		Make use of this intersection improvement until the bridge is constructed	

Total: **\$18,283,896**

Total Capital Requirement **\$34,581,455**

GRAND TOTAL **\$160,911,979**



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NYC Parks

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