



Nursery Field | Rye, New York

Agenda

1. Introduction
 - a. Objective
 - b. Stantec
 - c. Referral to Planning Commission
 - d. Approval to execute H&H Study

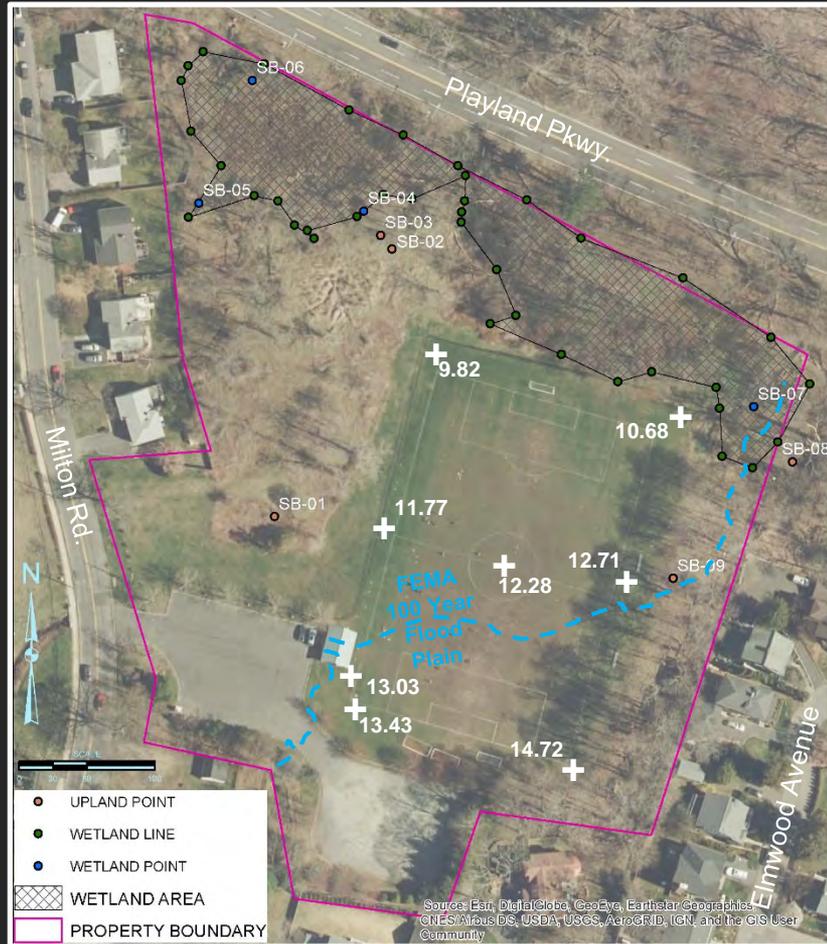
2. Nursery Field
 - a. Site Context
 - b. Existing Conditions
 - c. Programming and Hours of Use

3. Field Renovation
 - a. Field Layout
 - b. Drainage versus Flooding
 - c. Questions and Responses

Site Context



Existing Site Conditions



Programming and Hours of Use

» HOURS OF USE

In order to maintain a high-quality surface, natural systems are limited in the play they can withstand, and weather only impacts these limitations

- CURRENT NURSERY FIELD PROGRAM:
- 44.5 HOURS PER WEEK IN SPRING
- 36.5 HOURS PER WEEK IN FALL

» In 2018, 40% of Nursery Field programming was cancelled or relocated due to rain or unplayable conditions (32+ hours per week)

» PROPOSED HOURS OF USE

- NATIVE SOIL NATURAL GRASS 10-15 HOURS PER WEEK (FOR IDEAL SURFACE CONDITIONS)
- SYNTHETIC TURF SYSTEMS 50+ HOURS PER WEEK (AND MINIMAL CANCELLATIONS ETC.)

More available hours translates to more children and adults in the community having the chance to be active!

Proposed Field Layout



- 204' x 345' proposed field to accommodate soccer, lacrosse, field hockey up to high school level of play
- Field elevation lowered to elevation 13.5. Finished elevation is 6" above the 100-year flood elevation taking the entire field out of impacts from flooding
- Field layout shifted south to fit within current fence line with no direct impacts to the existing wetlands

Questions and Responses

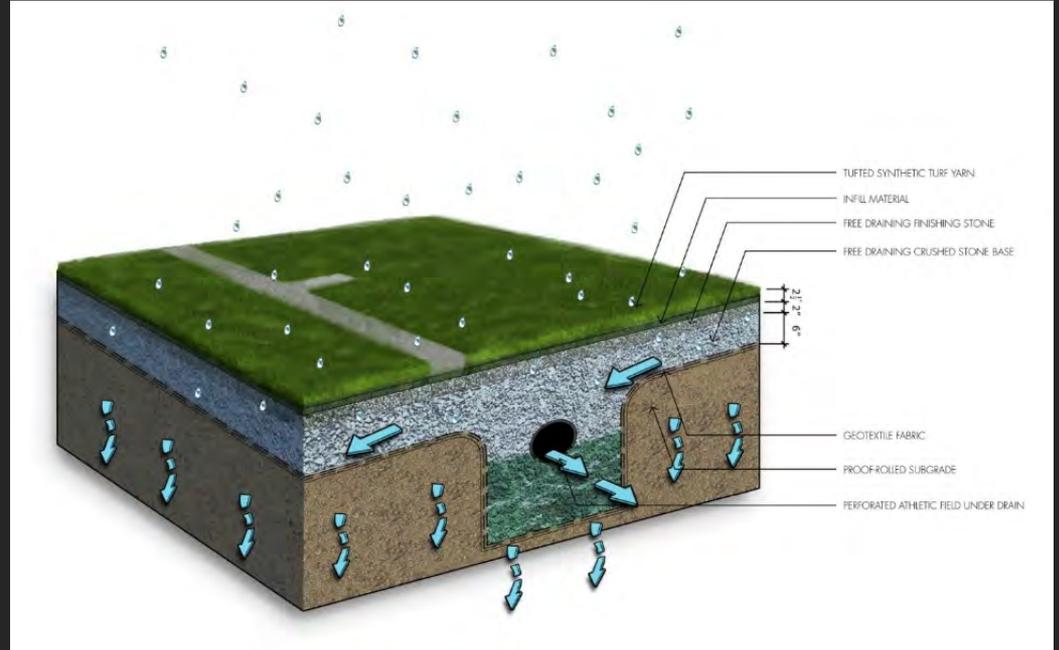
- » Will there be an increase in flooding as a result of the new field?



Questions and Responses

» How will the field drain?

- EXISTING DRAINAGE
 - Infiltration is poor (.1" of rain per hour)
 - The balance of rainwater ponds within or flows uncontrolled across the field and into the existing wetlands
- SYNTHETIC TURF SYSTEMS
 - No surface runoff from field
 - Field acts as a retention basin (2" + rainstorm would be contained within the field without discharge)
 - Balance of water would be control released



- » What are the health impacts of synthetic turf systems?
 - *the infill type for the synthetic turf system has not yet been selected

SYNTHETIC TURF FIBERS AND INFILL

- Studies conducted over the last ten years have found that synthetic turf systems do not have adverse impacts on health in the quantities of typical exposure
 - Washington State Department of Health
 - The Commonwealth of Massachusetts Department of Public Health, Susan K. Condon
 - The State of Connecticut Department of Health, Brian Toal & Gary Ginsberg
 - Dr. Archie Bleyer, MD – Pediatric and Young Adult Oncologist
- Studies above can be provided as requested.

Rye Current Synthetic Turf Field Usage

Rye Soccer

- AM Dorner Lower Turf Field
- Asphalt Green – Turf Field West
- Blind Brook High School – 1 Turf
- Bronxville High School – Field Turf
- Columbus Park – Turf
- Eastchester High School – Turf
- Flint Park – Alma Turf
- Granite Knolls – Field 2 Turf
- Granite Knolls – Field 2A Turf
- Granite Knolls – Field 2B Turf
- Harrison High School – Turf
- Ossining High School - Lower A Turf
- Ossining High School – Upper Dilly Turf
- Parker Stadium – Turf
- Randalls – 44 Turf
- Randalls – 82 Turf
- Randalls – 83 Turf
- Rye Country Day – Turf
- Rye High School – Turf
- Springhurst Elementary School – Turf
- Stepinac High School – Field Turf/Small 1/2
- Valhalla High School – Small Turf
- Van Cortland Park – Stadium Turf
- Washington Irving Intermediate School – Lower Turf

Rye Lacrosse

- Briarcliff High School
- Bronx Fieldstone School
- Bronxville
- Darien High School
- Fairfield University, CT
- Greenwich, CT
- Harrison Middle School
- Holy Child
- Horace Greely
- Iona College
- John Jay High School
- Larchmont/Flint Park
- Mamaroneck
- New Canaan High School, CT
- New Rochelle High School
- Norwalk, CT
- Nayack High School
- Pelham High School
- Ridgefield, CT
- Rye Country Day
- Rye High School
- Scarsdale High School
- Somers High School
- Stamford, CT
- SUNY Purchase
- Tibbetts Park
- Westport, CT
- Wilton, CT
- Yorktown

Questions and Responses

- » Will the heat on the field affect nearby homeowners?
 - No. Heat from the field will dissipate immediately and has little or no mobility.

- » Is there an odor associated with the turf that may affect nearby homeowners?
 - No. New products often have an initial odor to them but will dissipate in a short time and have little or no mobility.

- » Is there any data that would show a turf field could hurt the neighboring environments worse than fertilized grass fields?
 - No. The intention is to design using components that are natural and those that have little or no impact to the environment compared to fertilizer.

- » What are the Environmental Impacts (CO₂) of a synthetic turf system (Carbon Sink¹ vs. Carbon Source²)?

Factor	Natural Grass Systems	Synthetic Turf Systems
ABSORPTION	▪ Moderate Carbon Sink	▪ None
MANUFACTURING	▪ Intermediate Carbon Source	▪ High Carbon source
INSTALLATION	▪ High Carbon Source	▪ High Carbon Source
MAINTENANCE	▪ Intermediate Carbon Source	▪ Low Carbon Source
FERTILIZING	▪ Intermediate Carbon Source	▪ None
RECYCLING	▪ None	▪ Low Carbon Source

*Carbon Sink¹ – a system or process that absorbs more carbon than it produces

*Carbon Source² – a system or process that produces more carbons than it absorbs

Questions and Responses

- » Are there other options for infill other than recycled (crumb infill) rubber?





Thank you for your time