Welcome / Team Introductions

M-NCPPC MONTGOMERY PARKS

- Park Development Division
- Nature Center Staff
- Park Management Staff – Northern Region
- Park Police
Agenda

Part 1 - Presentation

• SEED Classroom Building
• Site Plan

Part 2 - Discussion

• Gather community input on the building and site plan
The building is designed for net-zero energy and net-zero water. The program incorporates agriculture, healthy indoor air, education, inspiration and beauty into its design and function.

SEEDclassroom is an educational tool. The structure and all systems are intentionally exposed so that students can see how the building functions, and better understand the flows of energy and water.
SEED Classroom – A video taken at the first SEED Classroom
Highlights

- Solar System
- Rainwater reuse and treatment
- Living wall
- Composting toilet
- Super insulated building envelope

SEED CLASSROOM - BUILDING

SEED Features

- Net-zero energy
- Net-zero water
- LBC materials Red List compliant
- Abundant natural daylighting
- Solar photovoltaic array
- Super efficient mechanical system
- Living wall fed by treated greywater
- Ongoing performance monitoring led by students
- Rainwater treatment for sinks
- Composting toilet
- Rainwater collection and filtering
- Structural Insulated Panels (SIPs)
  - R-49 ceiling + R-40 wall insulation
- Curriculum-integrated features
- “SEEDpacket” building guidebook tailored to students and teachers
- “SEEDpatch” online learning network
SEED CLASSROOMS IN THE NATION

Seattle, WA
- Perkins School (2013)

Pittsburgh, PA
- Nature Lab at the Phipps Conservatory and Botanical Gardens (2015)

Washington DC
- Mary McLeod Bethune Day Academy Charter School (2016)
SITE LOCATION
EXISTING CONDITION
ENTRANCE
GRAVEL PARKING LOT
PROPOSED PLAN

PROGRAMMED AREA

RE-NATURALIZED AREA
PROPOSED PLAN

PROGRAMMED AREA
- POINT OF ARRIVAL
- STORM WATER FACILITY (EDUCATIONAL/INTERACTIVE)
- GREENHOUSE
- SEED CLASSROOM AREA (FENCED)

RE-NATURALIZED AREA
- MEADOW
- FOREST
POINT OF ARRIVAL

- PARKING SPACES
- BUS DROP-OFF AREA
POINT OF ARRIVAL

- PARKING SPACES
- BUS DROP-OFF AREA
- PLAZA
GREENHOUSE

- GREENHOUSE
- PLANT TABLES
- SHED
STORMWATER MANAGEMENT

- INTERPRETATION
- EDUCATION
SEED CLASSROOM

- SEED CLASSROOM
SEED CLASSROOM

- SEED CLASSROOM
- OUTDOOR GATHERING SPACE
  - Shelter
  - Outdoor seating area
SEED CLASSROOM

- SEED CLASSROOM
- OUTDOOR GATHERING SPACE
- OUTDOOR NATURE SPACE
  - Natural Play
  - Garden Planters
  - Orchard
  - Meadow
Schedule

February – MAY 2019: Facility Planning

June 2019: Planning Board presentation and approval

* Fall/Winter 2020: Finish Detailed Design, pending on funding availability

* Fall/Winter 2021: Open to the public
Thank You!

Questions?

Comments?

Suggestions?

Sustainable Education Every Day