Hampden Community Council – DSAI Project Update

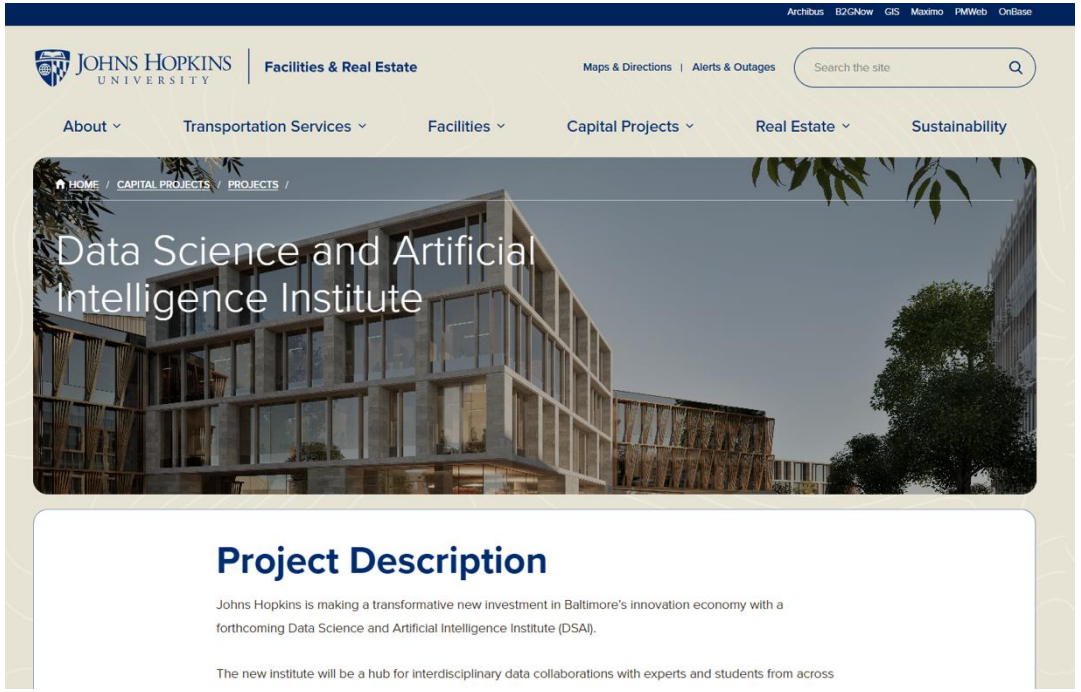
April 14, 2025

Agenda

- Project Website
- Project Overview
- Streetscape Improvements
- Environmental Consultants
- Reducing Light Pollution
- DOT Remington Bridge Project
- Q+A

Project Website

https://jhfre.jhu.edu/capital-projects/projects/dsai/



Project Overview | Data Science and Artificial Intelligence Institute, Whiting School of Engineering

- Project Schedule
  - Design: Fall 2023 to Summer 2025
  - Site Mobilization: Spring 2025
  - Construction: Summer 2025 to Spring 2029
  - Completion: Spring 2029

- **Two four-story academic research buildings** along Remington Avenue and Wyman Park Drive, connected by both an overhead pedestrian walkway and an underground service tunnel to minimize delivery truck and traffic disruption
- The buildings are organized into **"research neighborhoods," collocating disciplines into thematic zones.** Unlike traditional academic silos, these groupings will create a world-class AI space for cross-disciplinary research and translation

BRINGING THE BENEFITS OF ACADEMIC DISCOVERY TO THE WORLD.

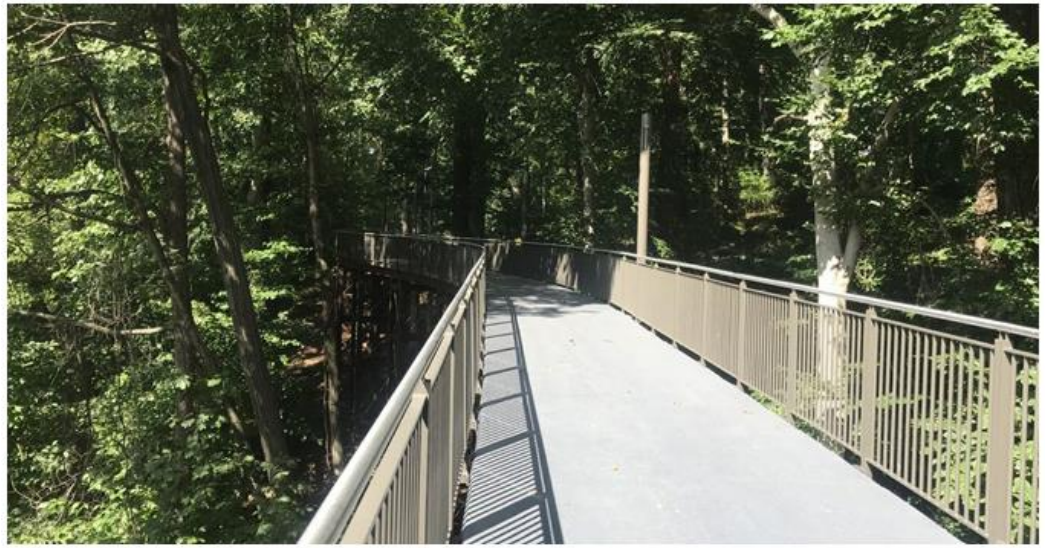
ARTIFICIAL INTELLIGENCE PREDICTS RISK OF SEPSIS BEFORE HUMAN CLINICIANS CAN OBSERVE SYMPTOMS.

ARTIFICIAL INTELLIGENCE, "ABDOMEN-ATLAS" SPEEDS TUMOR IDENTIFICATION AND CREATES LARGE-SCALE MEDICAL IMAGING OPPORTUNITIES

ARTIFICIAL INTELLIGENCE SPEEDS LEUKIMIA DIAGNOSES

BRING THE WYMAN PARK WOODLAND INTO THE SITE

Campus Context



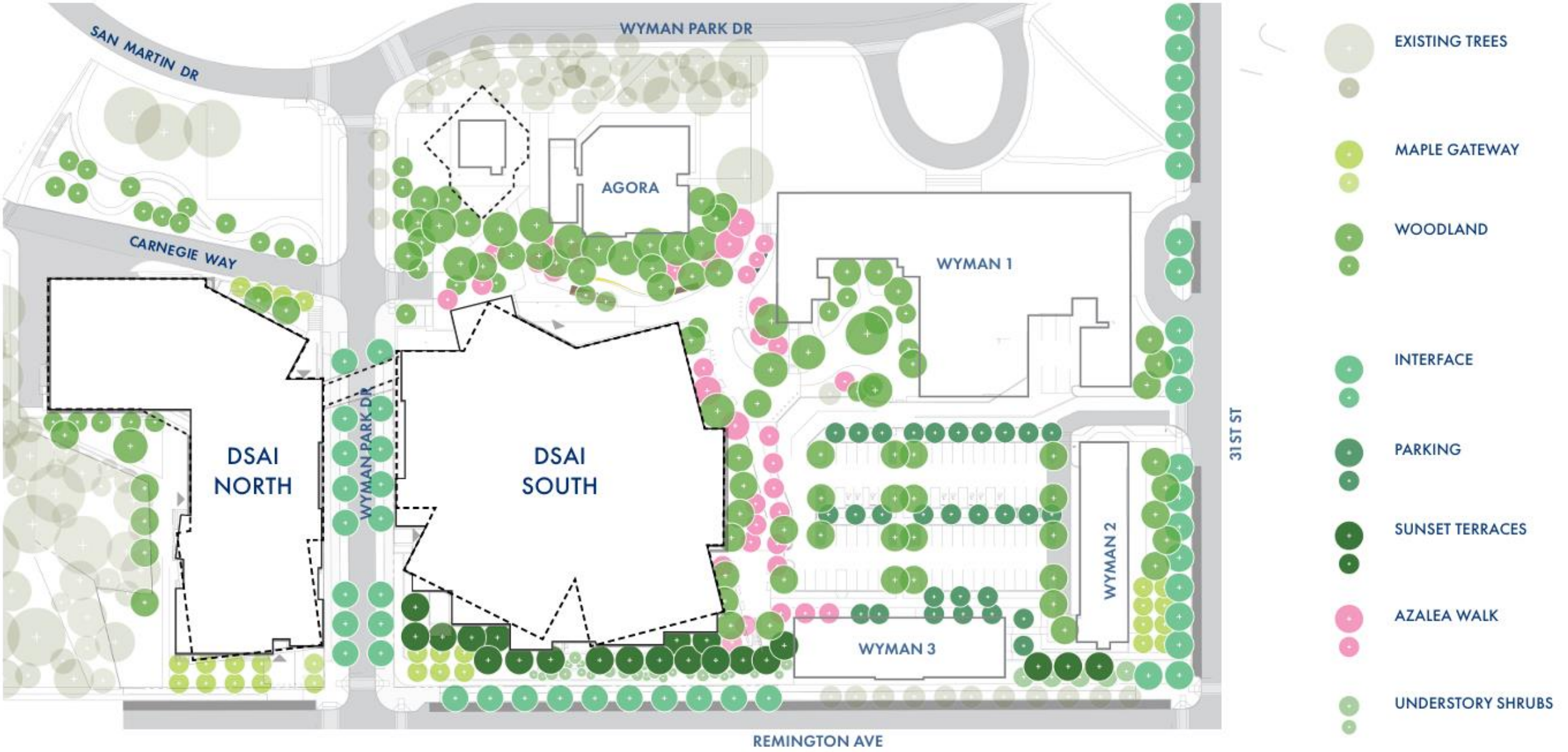
WOODLAND LANDSCAPE

HOMEWOOD CAMPUS QUADS

BLENDING WOODLAND + QUAD LANDSCAPE

Campus Context

Project Site



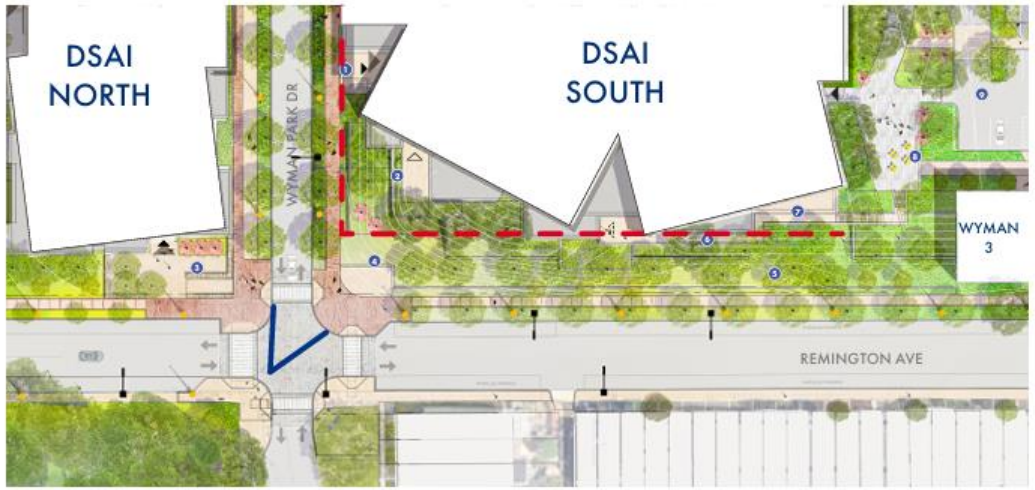
Landscape Strategy

View of South Building Entrance

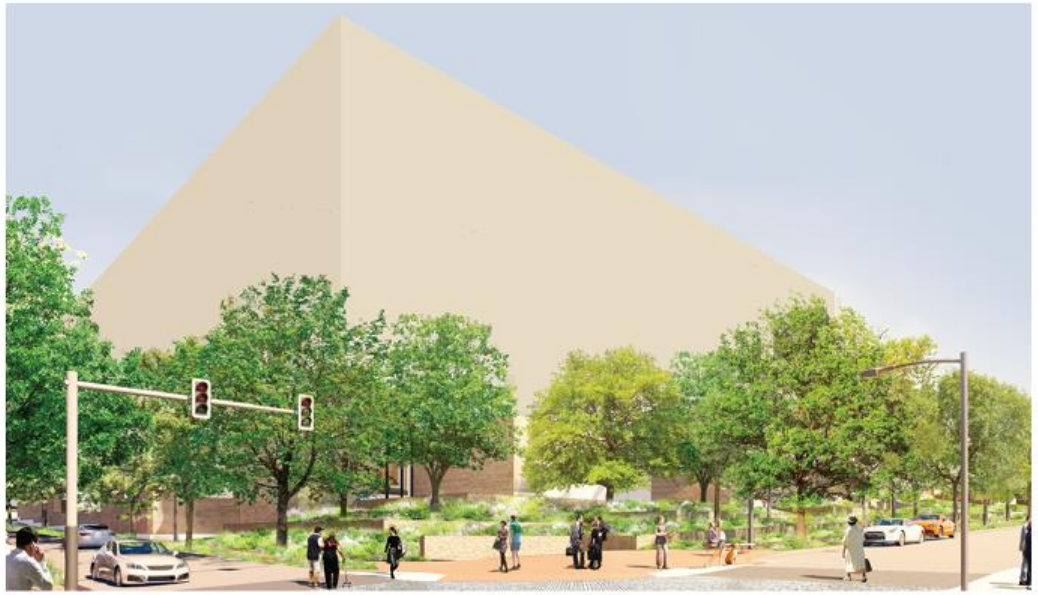
View of Commons Plaza

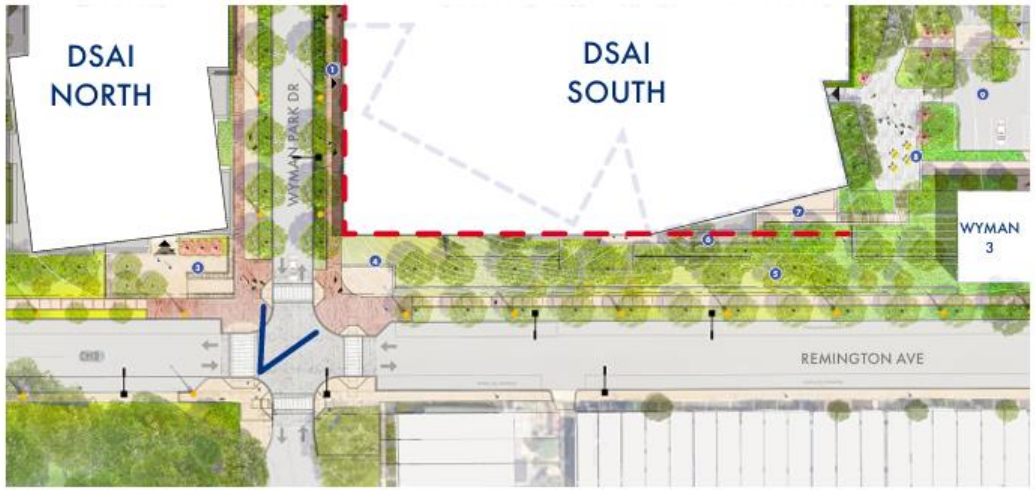
View from Remington Ave & Wyman Park Drive

PROPOSED MASSING

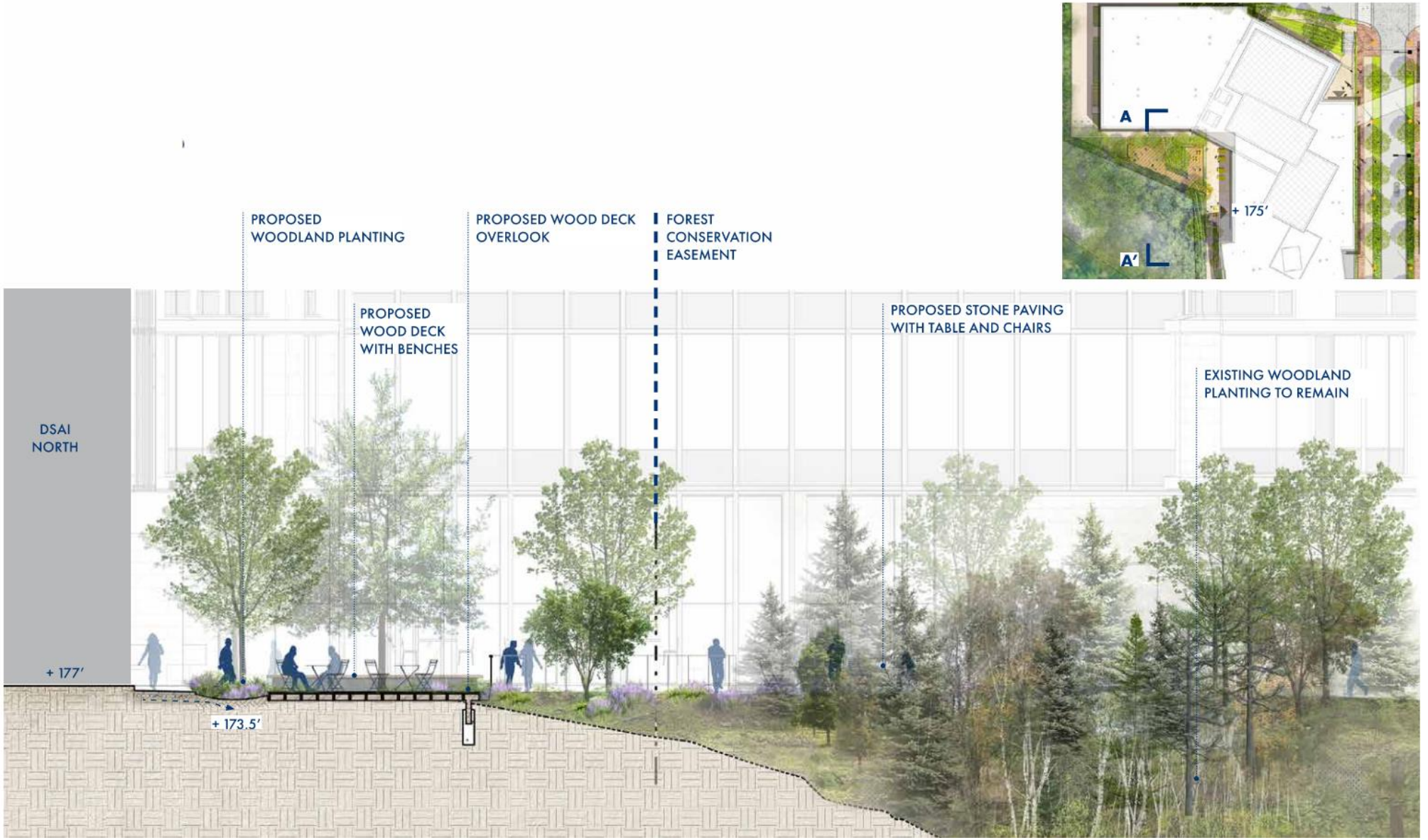


MAXIMUM BUILDABLE





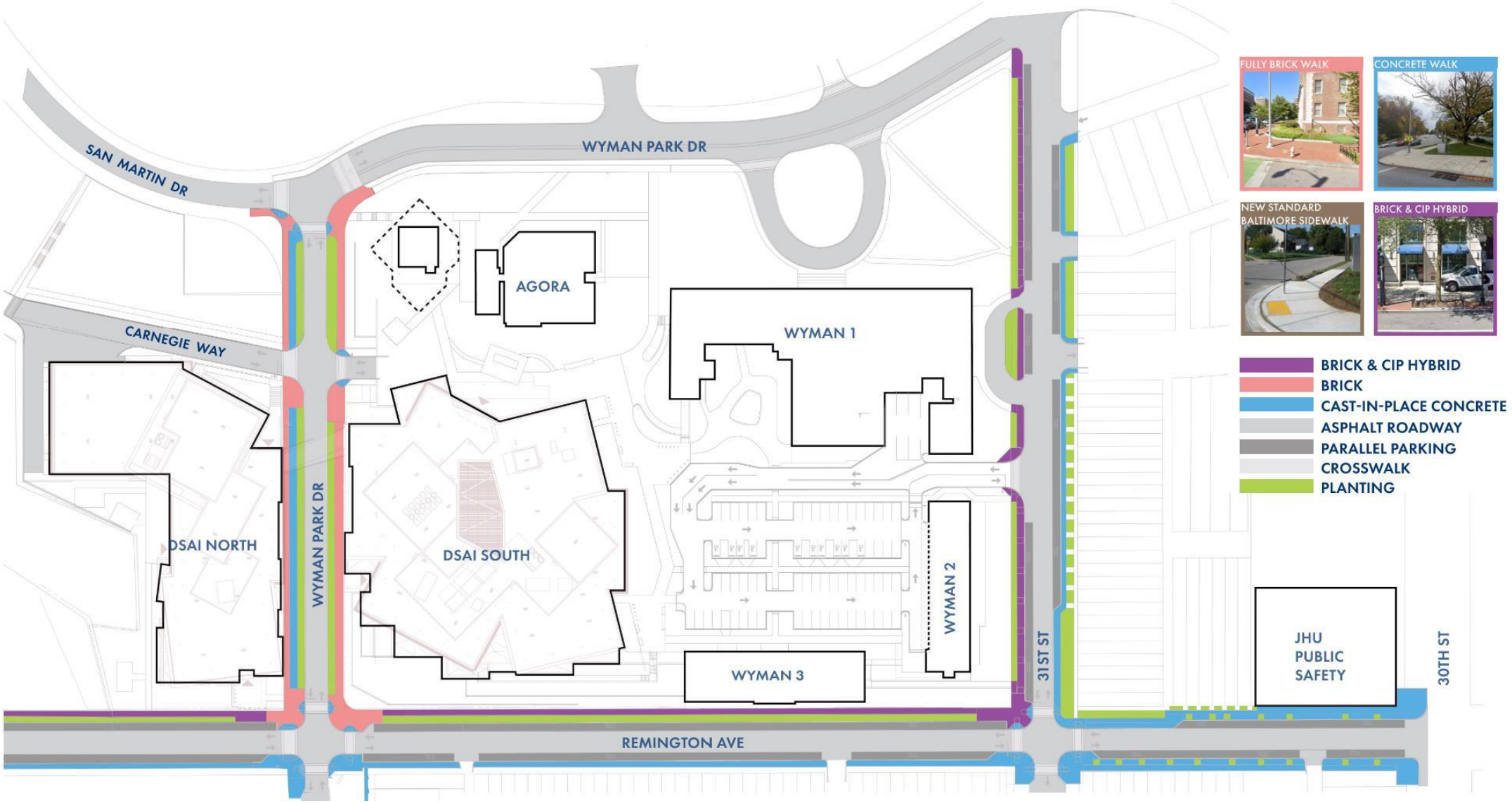
Approach to Building Massing



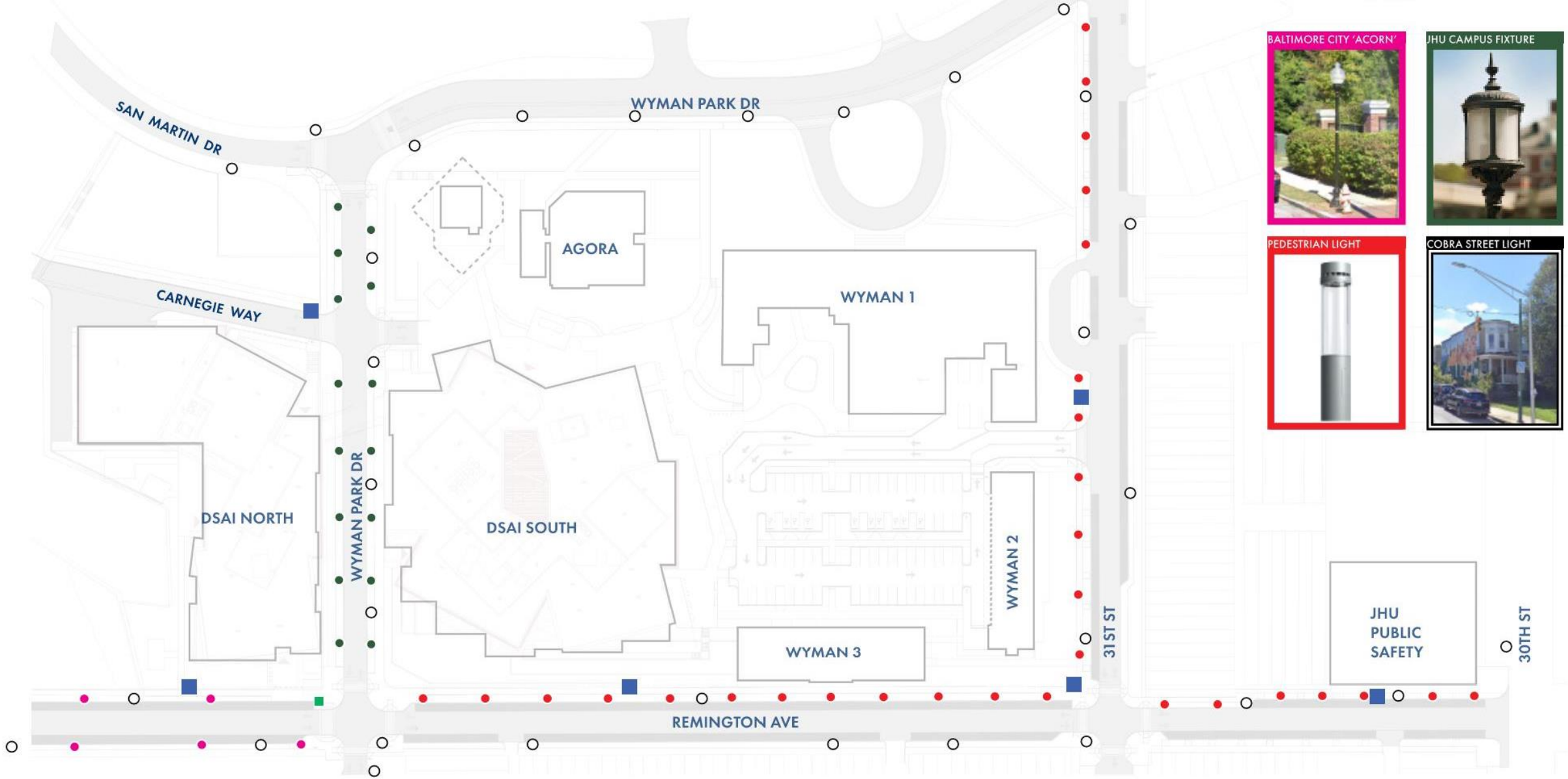
Adjacent to Stony Run

Adjacent to Stony Run

Streetscape Improvements

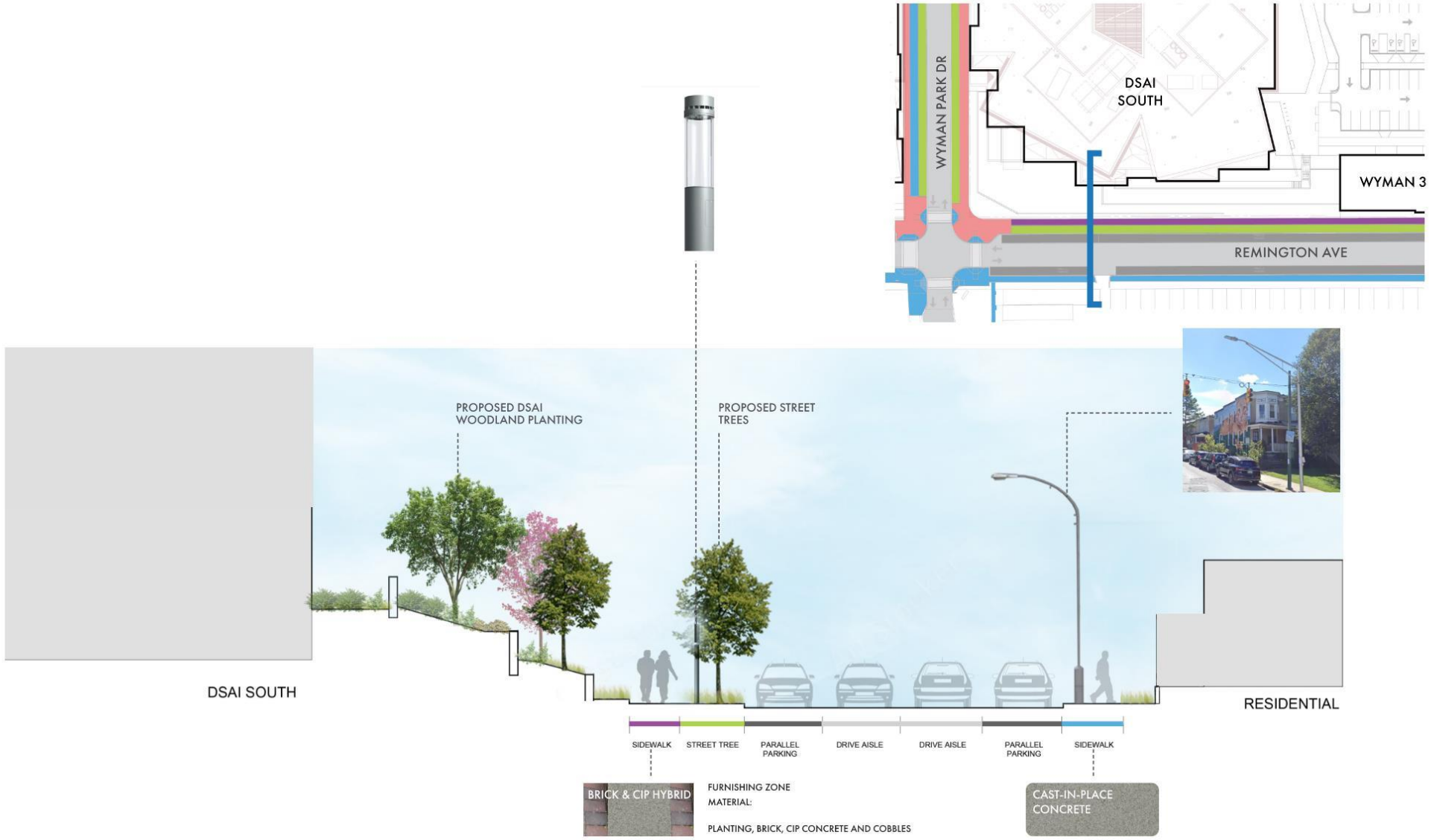


Streetscape Improvement – Materials



Streetscape Improvement – Lighting

View from Remington Ave



Streetscape – Landscape Section

Environmental Consultants

Ornithologist

- Dr. Susan Elbin, Conservation Scientist Emerita with the NYC Bird Alliance, is providing guidance to the design team on bird-safe design for façade bird strike prevention
- Dr. Elbin has consulted on the following completed or nearly completed JHU projects
  - School of Nursing Addition
  - O'Connor Recreation Center Addition
  - SNF Agora
  - Hopkins Student Center
- Engaging with Lindsay Jacks, director of Lights Out Baltimore, for migratory bird inventories

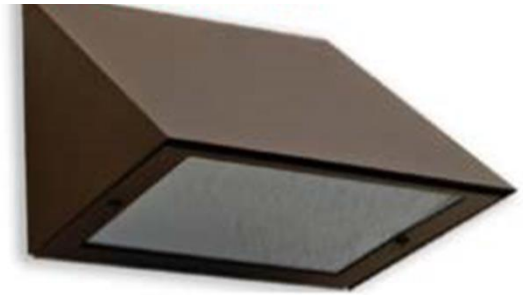
Environmental Scientist

- Steward Green, an environmental firm located in New Jersey and Maryland, has been engaged to perform an inventory of species that inhabit the surrounding area
  - Deer browse intensity on native and invasive vegetation (May 2025)
  - Dominant plant species and Understory forest composition data (May 2025)
  - Avian species audio data collection (start ASAP and thru the end 2025)
  - Avian species detected by biologists on site (March, May, and June 2025 on-site)
  - Fauna species detected by wildlife camera traps (start ASAP and thru the end of 2025)
  - Fauna species detected by biologists on site (March, May, and June 2025 on-site)
  - Aquatic species detected by biologists on site
- Steward Green will also advise on protecting Stony Run Creek from groundwater contamination generated by construction activity, including continuous water quality monitoring of Stony Run Creek and regular site inspections during construction.

Lower Stony Run Strategic Plan, June 2024

Resolving Light Pollution

- Replacing exterior lighting on all buildings along Carnegie Way that face the Forest Conservation Easement and Stony Run natural habitat
- Consultant has issued a report with recommended replacement fixtures
- JHU is in the process of ordering and replacing light fixtures



Example of Wall Pack Fixtures

DOT Remington Bridge Project

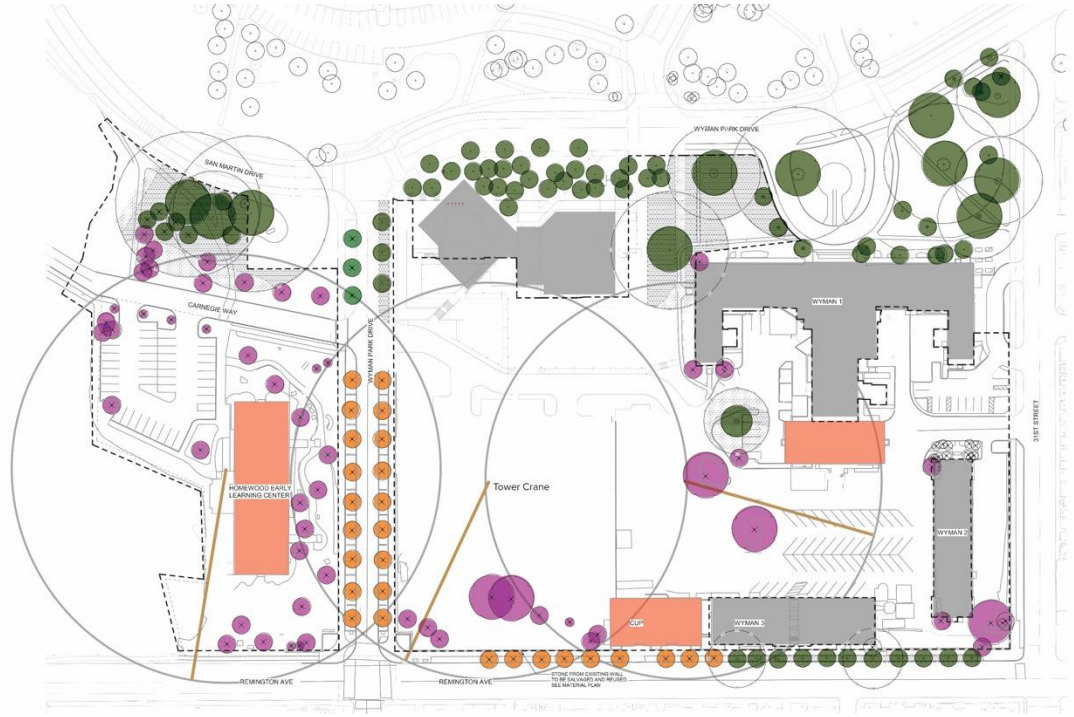
- https://streetsofbaltimore.com/remingtonbridge
- The existing Remington Avenue Bridge over Stony Run will be rehabilitated
- All roadway lanes and sidewalks will be open during construction. All construction work will be done below the roadway at the bridge arch level
- The proposed arch liner will be constructed with an adjacent overflow tunnel to improve hydraulics during storm events
- Schedule:
  - Preliminary Design Phase – November 16, 2022
  - Final Design Phase – November 29, 2024
  - Start of Construction – June 2, 2025
  - Project Completed – May 30, 2027

Q+A

Appendix

Tree Removal and Replacement

Tree Removal and Replacement

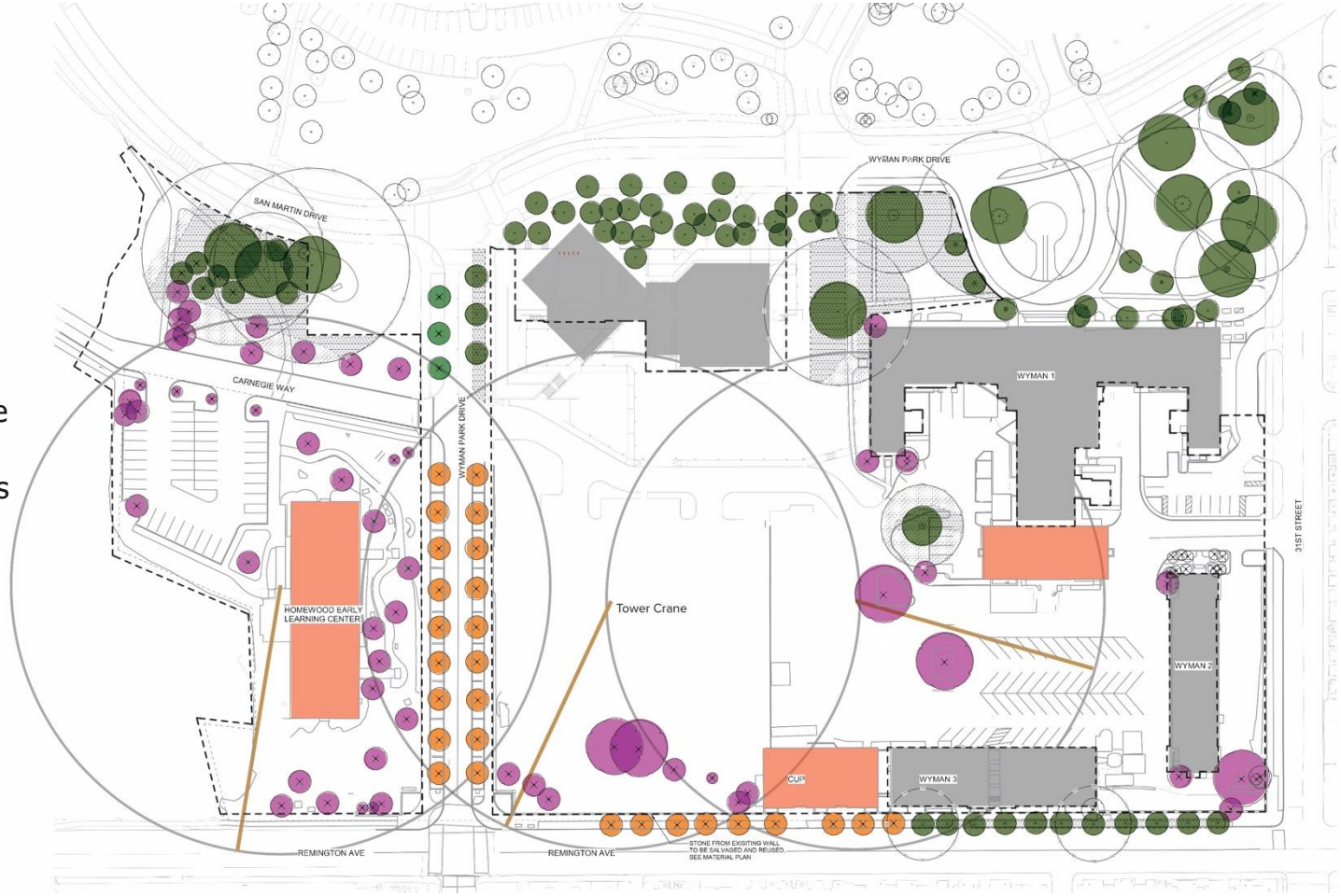


- Street Trees to be Removed
- Private Trees to be Removed
- Existing Trees to Remain

- New Street Trees
- New Private Trees
- Existing Trees to Remain

Tree Removal

- 27 trees around the DSAI site will be removed in the Right of Way
- 9 of 27 trees within the Right of Way along Remington Ave from Wyman Park Drive to 31st Street are being removed to provide:
  - Facilitate the replacement of an aging storm sewer line
  - Loading access off Remington Ave
  - Safety by providing a clear line of sight between trucks and tower cranes
- 18 trees within the Right of Way along Wyman Park Drive from Remington Ave to Carnegie Way are to be removed to provide:
  - Realignment of the roadway to support the Baltimore Greenway
  - Construction/loading access on both sides of Wyman Park Drive
  - Accommodation for the tunnel and bridge connecting DSAI Buildings
- Trees on JHU property and in Right of Way to be removed:
  - North Building Site – 40 Trees
  - South Building Site – 25 Trees
  - Public Right of Way – 27 Trees (9 on Remington Ave, and 18 on Wyman Park Drive)
  - **Total – 92 Trees**



Street Trees to be removed
Private Trees to be Removed
Existing Trees to Remain

New Trees

- Tree removal within the Right of Way requires tree replacement (afforestation) at a rate of 1 inch caliper for every 1 inch caliper removed
- The total number of inches to be replaced is 490 inches
- Replacement trees along Remington Ave will be 6” caliper and approximately 20 ft - 25 ft high
- There are 395 more inches to be replaced than the surrounding Right of Way can accommodate.
- JHU will work with the Baltimore Conservation and Natural Resources (BCNR) team to determine where in the city to plant trees that will not fit within the Right of Way surrounding the Homewood Campus.
- New trees to be planted on JHU property and in Right of Way:
  - North Building Site – 65 Trees
  - South Building Site – 323 Trees
  - Public Right of Way – 36 Trees (11 on Remington Ave, 16 on Wyman Park Drive, and 9 on W 31st Street)
  - **Total – 424 New Trees**