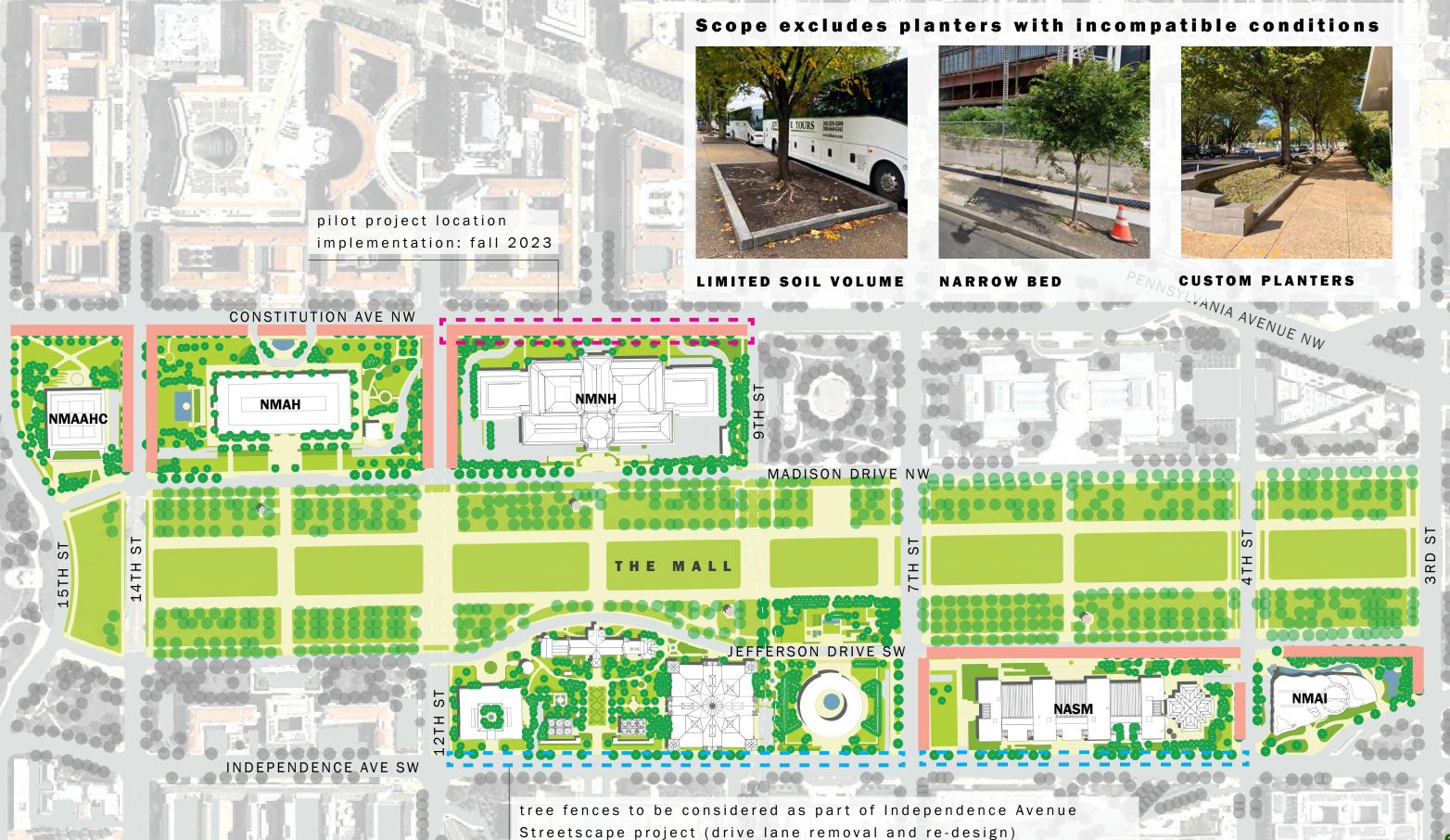


PROJECT SCOPE





AT GRADE
WITHOUT STEP-OFF ZONE



14th Street NW at NMAAHC, looking northwest

AT GRADE
WITH STEP-OFF ZONE



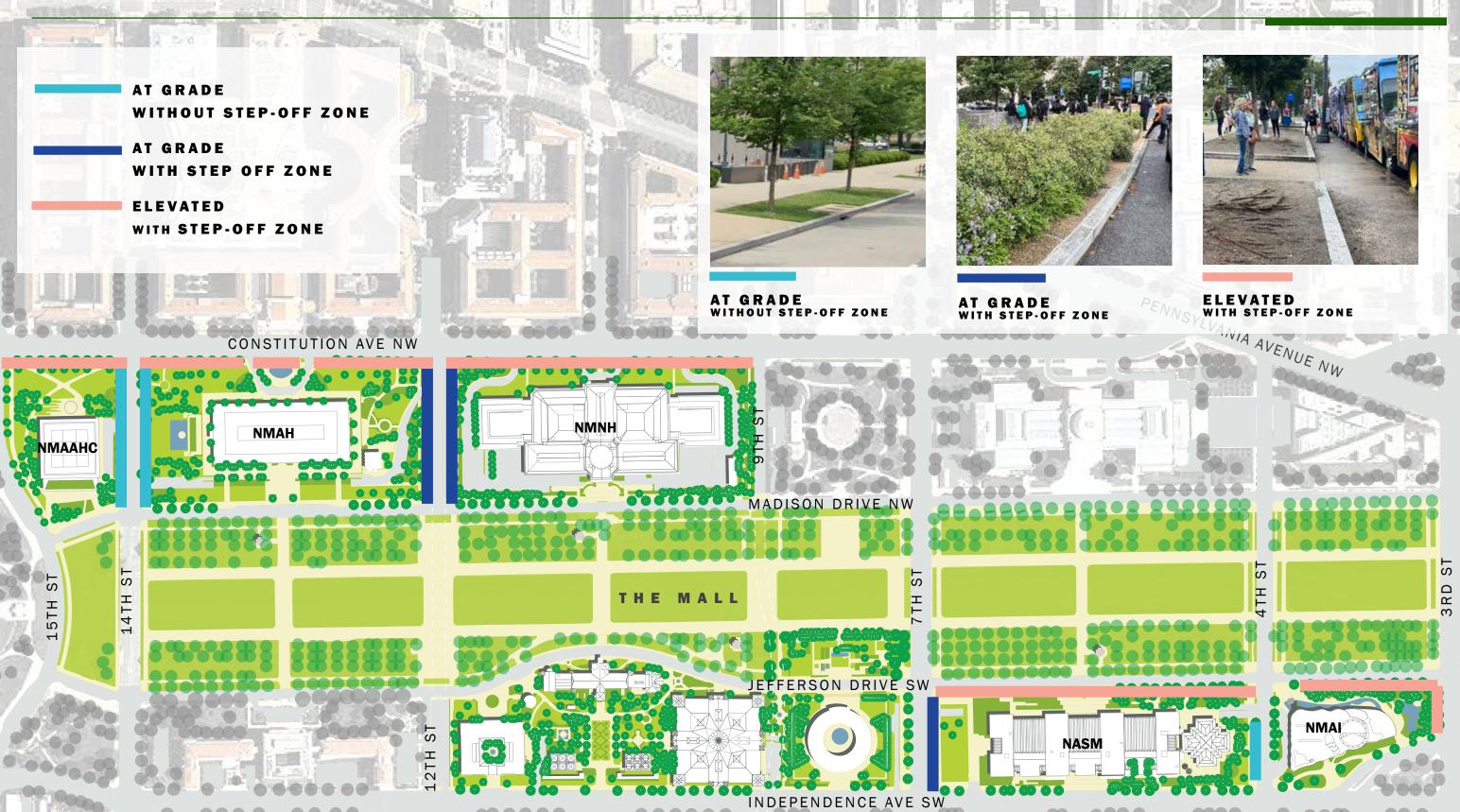
12th Street NW at NMAH, looking northwest

ELEVATED
WITH STEP-OFF ZONE



Constitution Avenue at NMAAHC, looking west

TREE BED INVENTORY





SOIL IS THE HOUSING FOR LIVING COLLECTIONS

EXISTING SOIL COMPACTION CREATES

- MINIMAL OPEN PORE SPACE
- LOW SOIL MOISTURE
- SHORTENED TREE LIFESPANS / POOR HEALTH
- DIFFICULTY TO ESTABLISH PLANTING
- SURFACE ROOTS/CURB AND PAVEMENT HEAVING







DESIGN CONSIDERATIONS



PLANT HEALTH

protect plants/roots and reduce soil compaction

VEHICLE CLEARANCES / DURABILITY

vehicle & pedestrian clearance from curb backup parallel parking clearance from curb (cars/ large vehicle clearance)



APPEARANCE

iconic, unique to Smithsonian Gardens / Institution visibility into planter (perennials)

DESIGN CONSIDERATIONS

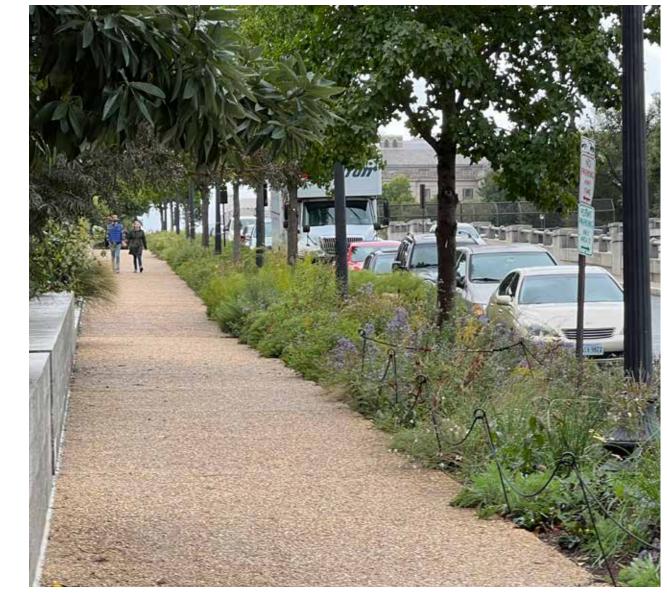


SAFETY

visibility of fence: tripping while in crowds durability during parades: human-proof no sharp points, climbing



flexibility for modular vs custom installation reduced long term maintenance (paint, repairs) ease of access for plant maintenance (24" width access for plant maintenance)



PATTERN LANGUAGE: SMITHSONIAN INSTITUTION

ARCS, CIRCLES & FLORAL MOTIFS



Renwick Gates

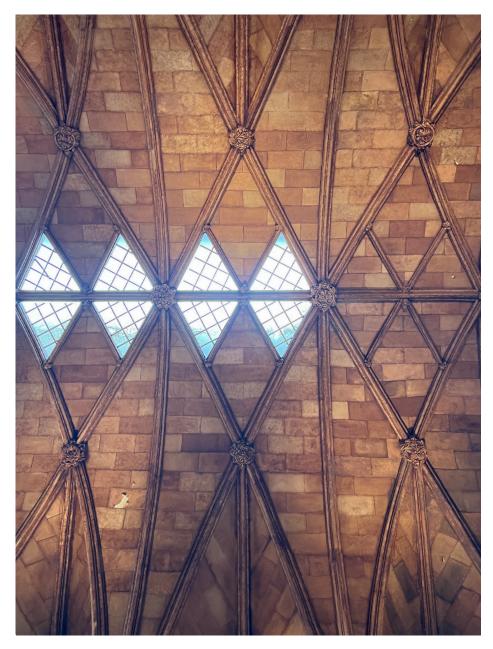


Enid A. Haupt Garden



Arts and Industries Building

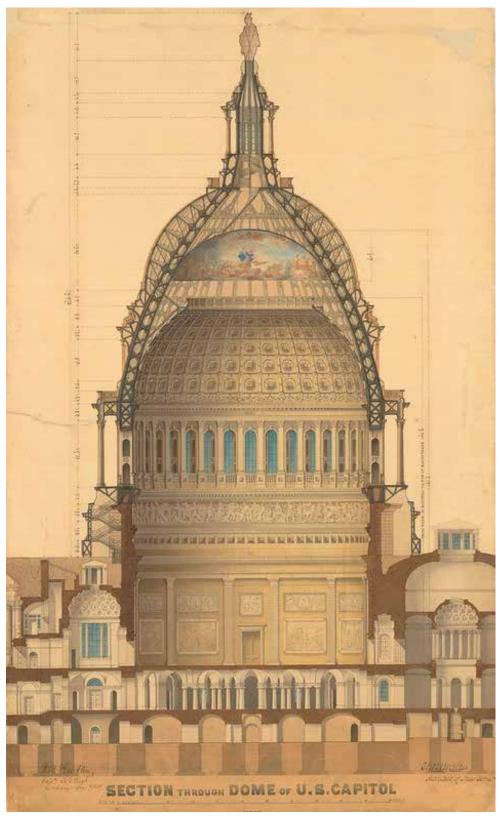
TESSELATION



Smithsonian Castle Commons

PATTERN LANGUAGE: MONUMENTAL CORE

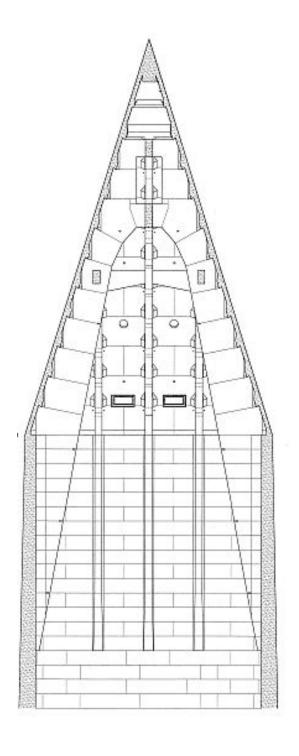
CAPITOL DOME







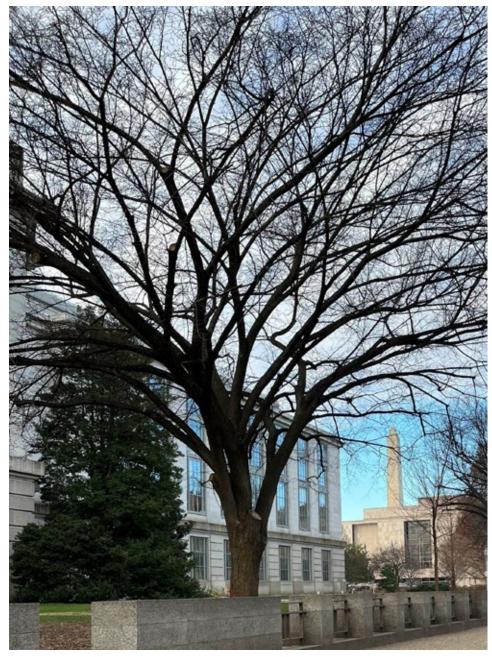
WASHINGTON MONUMENT



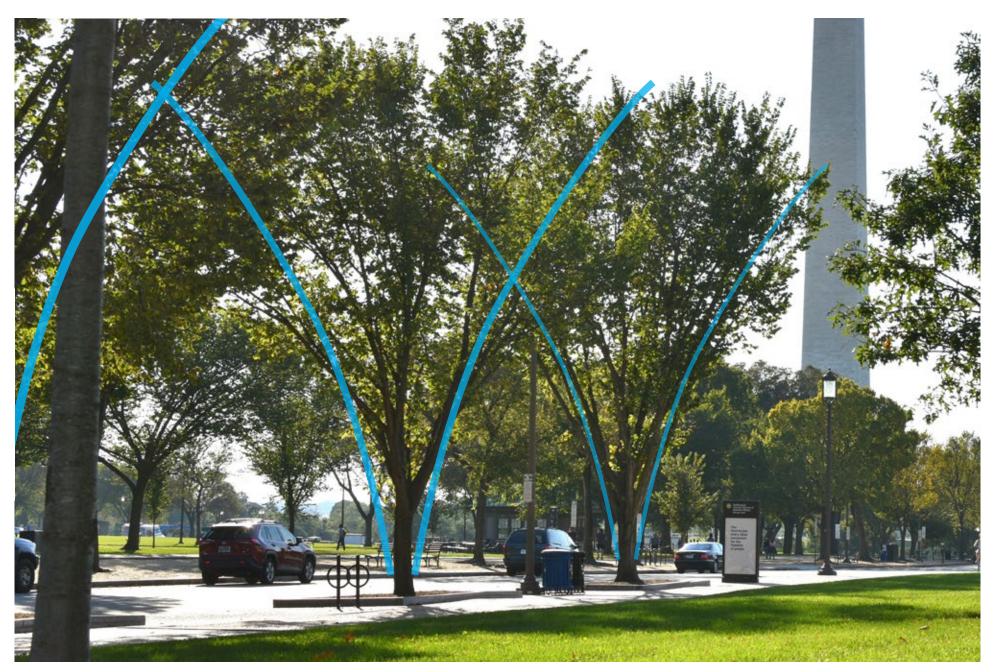
Rounded and pointed arch forms

PATTERN LANGUAGE: MONUMENTAL CORE

AMERICAN ELM TREES - VASE-LIKE FORM AND ARCHING BRANCHES



Elm tree along Constitution Avenue, at NMNH

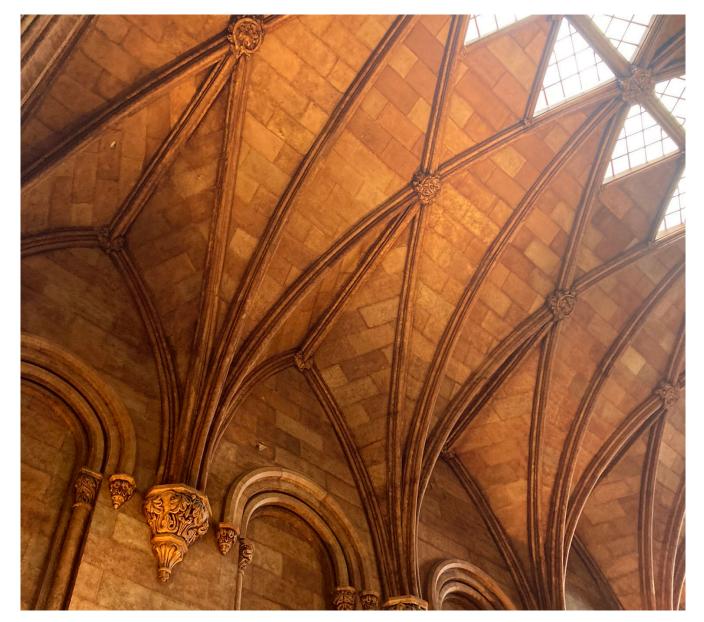


Elm trees along Madison Drive NW, at NMAH

PATTERN LANGUAGE: SMITHSONIAN INSTITUTION

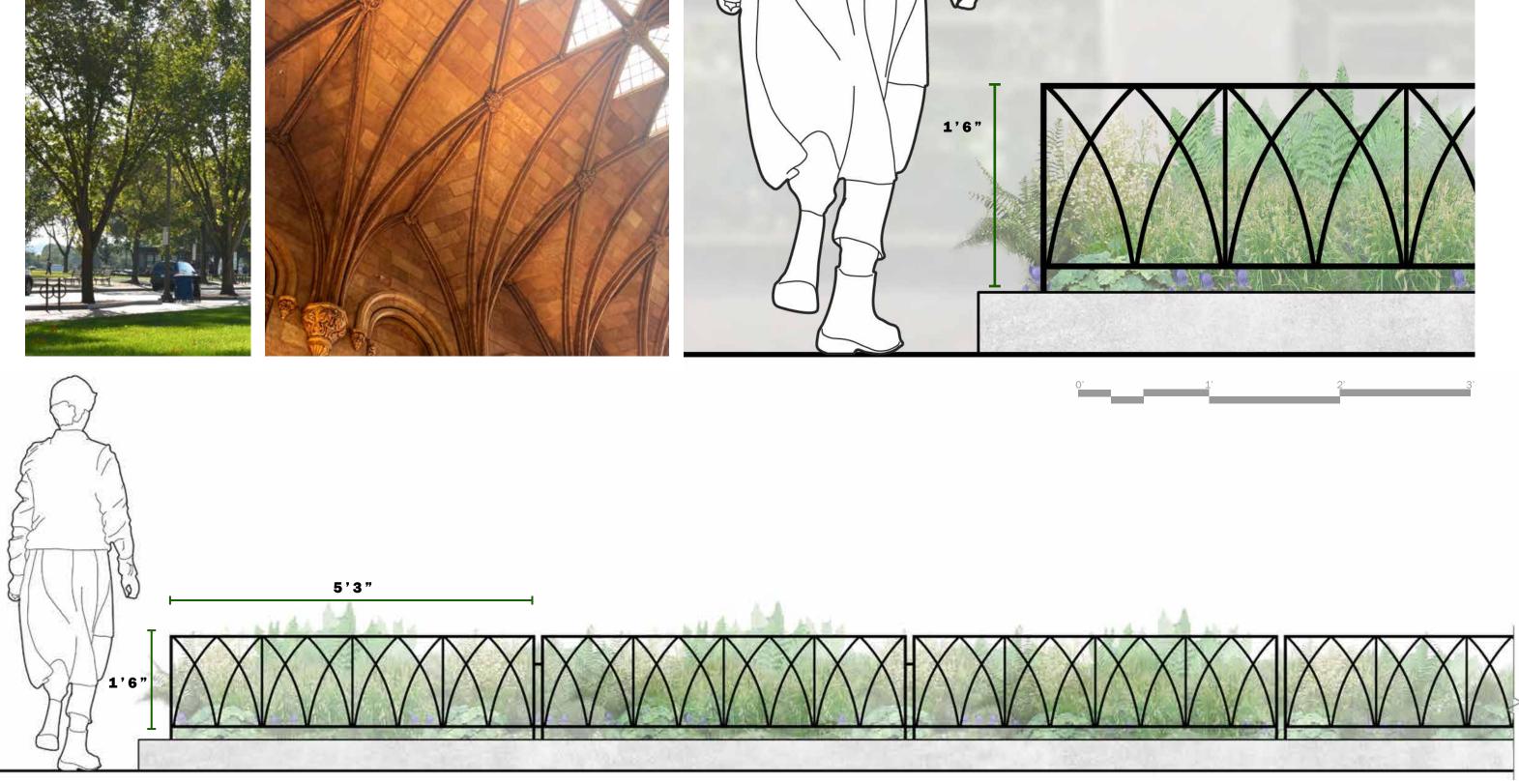
CASTLE COMMONS



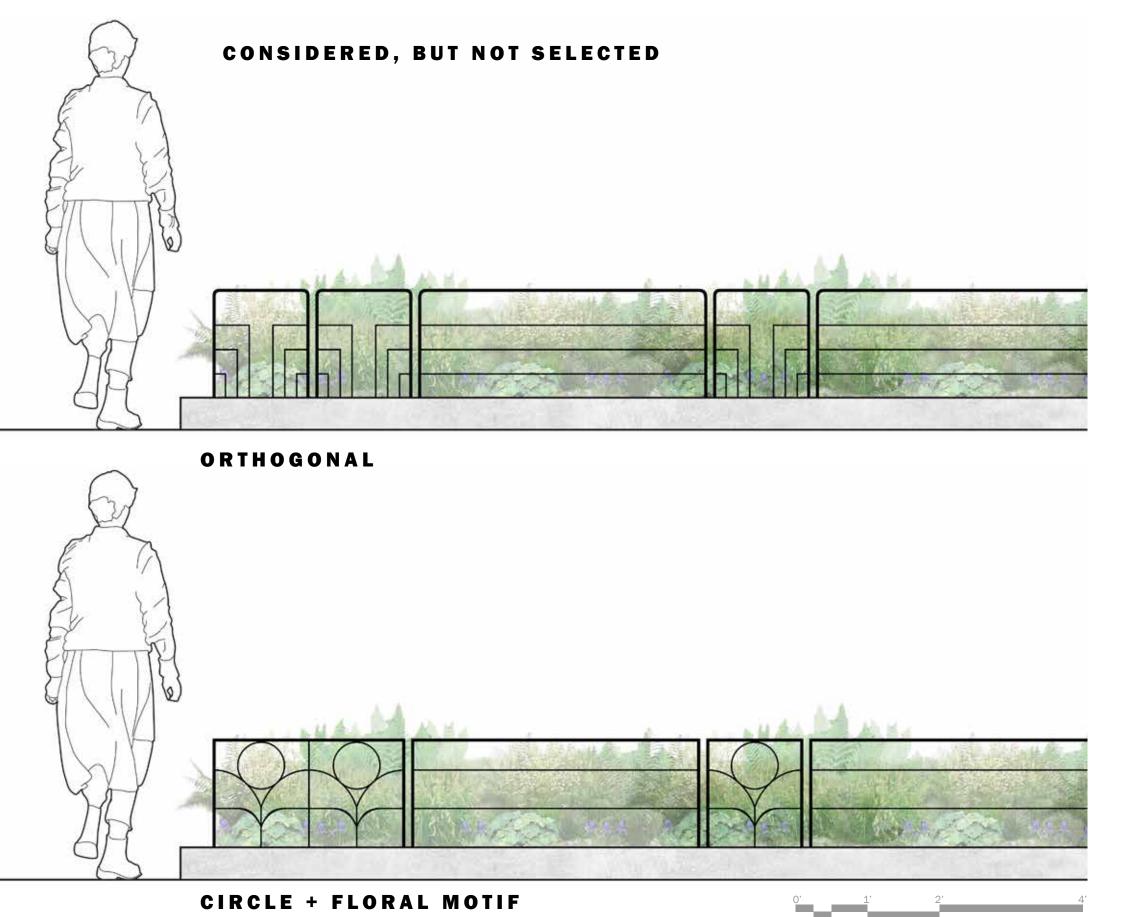


TESSELATION: repeated arches of the ribbed vault ceiling

PROPOSED STREET TREE FENCE DESIGN



DESIGN ALTERNATIVES



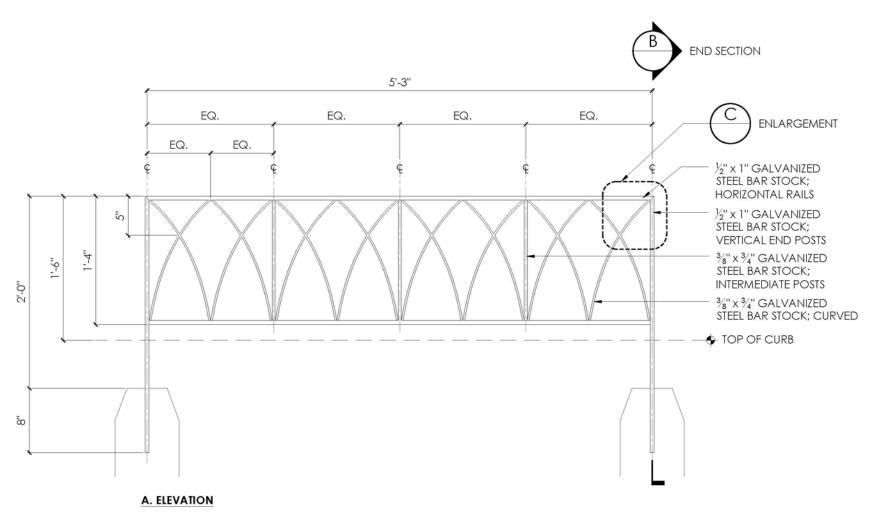


NASM looking northeast



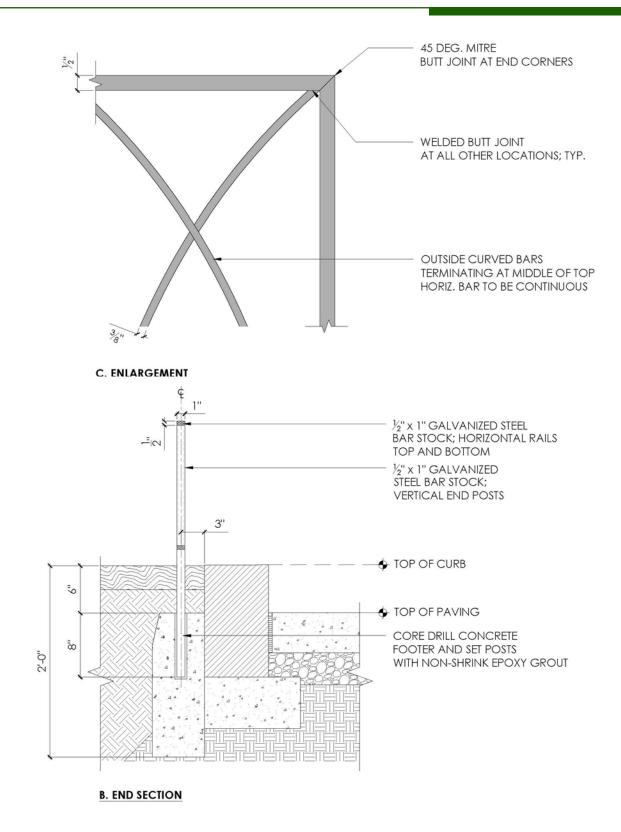
Renwick Gates

CONSTRUCTION DETAIL



NOTES:

1. ALL STEEL POSTS, RAILS, AND COMPONENTS SHALL BE GALVANIZED AND RECEIVE A HIGH PERFORMANCE EXTERIOR COATING. PANELS WILL BE SHOP PAINTED, AND WELDS BETWEEN PANELS FIELD PAINTED.



TREE FENCE - TYPICAL SEGMENT

SCALE: 1" = 1'0"

MATERIAL AND FINISH

MATERIAL

Welded steel frame from bar stock with two hot-dip galvanized coatings

Benefits of hot-dip galvanized finished frames:

- frame and welds are galvanized
- long-lasting and durable
- lightly textured finish

FINISH

Galvanized metal frames to be shop painted with two 2mm coatings of black high performance oil based paint. Semi-gloss finish.

The finish does not compete with the variety of finishes found on the existing streetlights, benches, and waste receptacles.

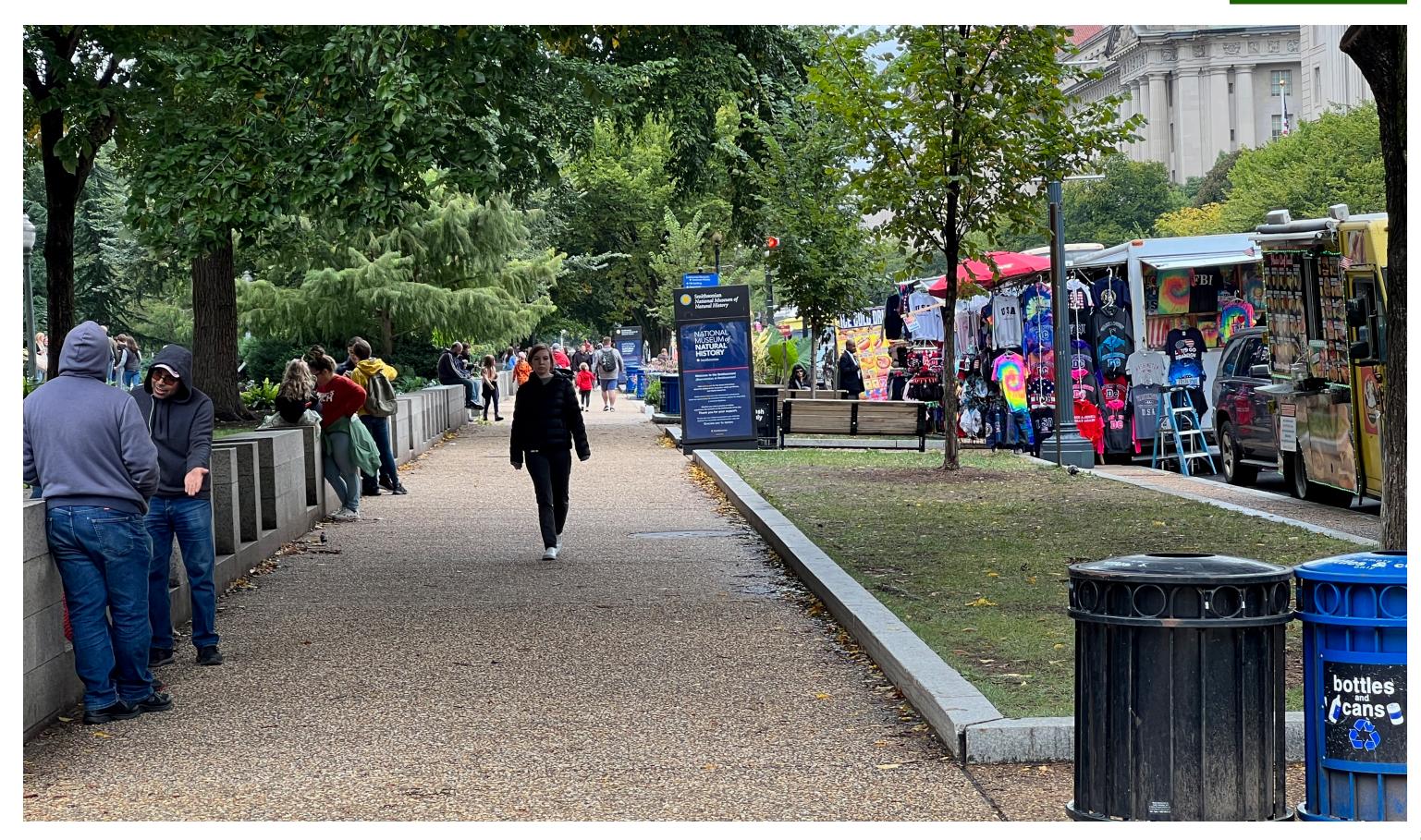




hot dipped galvanized texture



BLACK FINISH ON MOCK-UP FENCE PANEL



CONSTITUTION AVENUE: Proposed



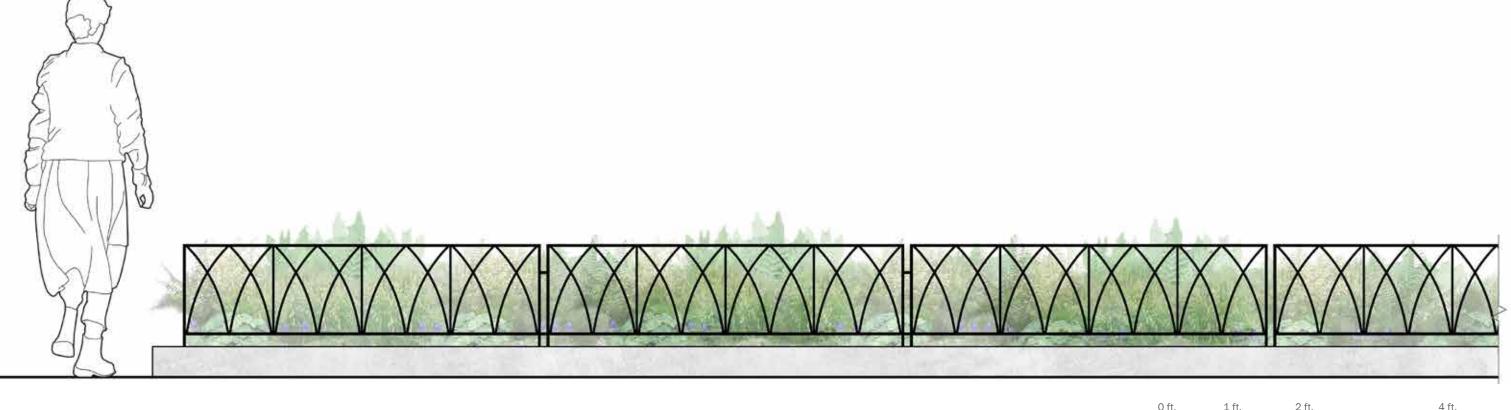
MUSEUM CONTEXT: NMAAHC



NMAAHC looking southwest



Constitution Avenue at NMAAHC looking west





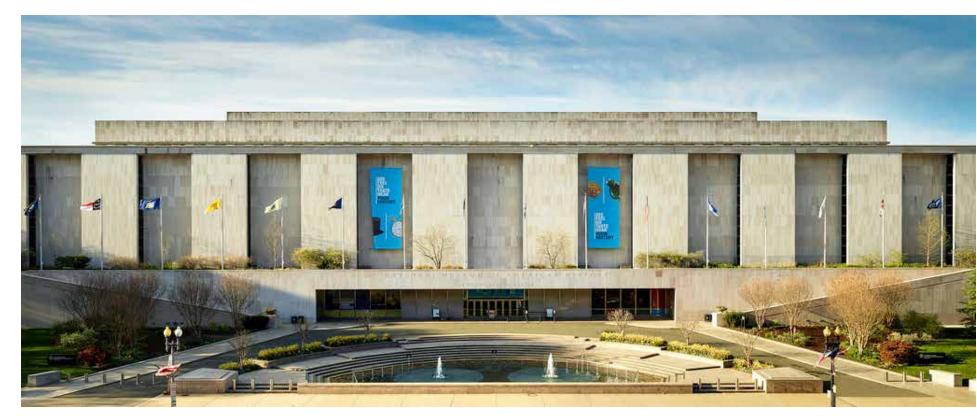
Northeast Elevation, looking southwest 14th Street NW at NMAAHC



North Elevation, looking south
Constitution Avenue NW at NMAAHC

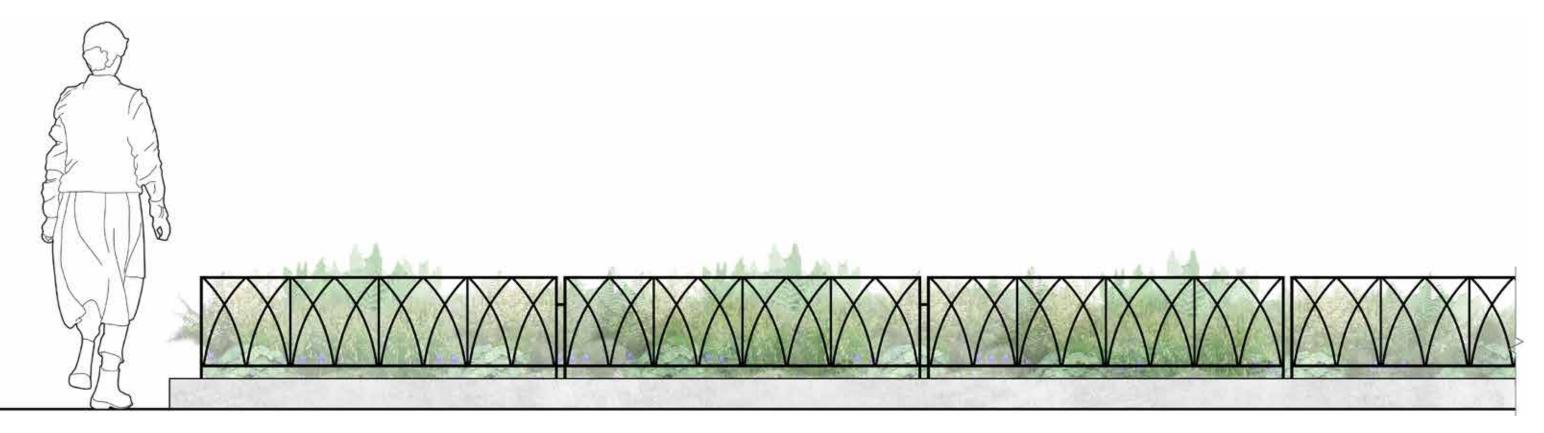
ANALYSIS Preferred design is mostly visible against the black granite landscape wall setback from the sidewalk. The repeating arch pattern resonates with the geometric open quality of NMAAHC's corona. The street tree fences are not proposed on 15th Street to avoid visual impacts on the open character of the Washington Monument Grounds and its existing post and chain fence design.

MUSEUM CONTEXT: NMAH



Constitution Avenue at NMAH looking west

NMAH from Constitution Avenue NW



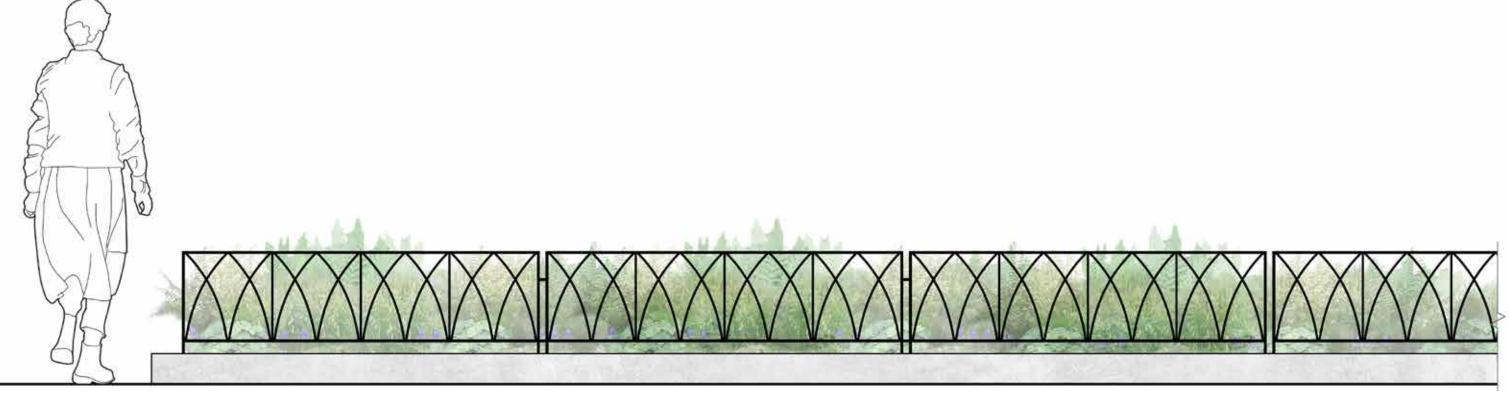
MUSEUM CONTEXT: NMNH



Server Control of the Control of the

NMNH from Constitution Avenue

Constitution Avenue at NMNH looking east





North Elevation, looking southwest Constitution Avenue NW at NMNH



North Elevation, looking southeast Constitution Avenue NW at NMNH

ANALYSIS The perimeter of the NMNH site contains a granite perimeter security wall with segments of open grill work in a pattern based upon the character defining large windows on the Museum building. Large geological specimens provide perimeter security at the corner of Constitution Avenue and 9th Street. This perimeter security design varies between 30" and 44" in height, and was determined to have an "adverse effect" on the NMNH, National Mall, and the Plan of the City of Washington. The preferred street tree fence design is complementary in NMNH's setting to the American elm trees and existing bench groupings and other street furniture.

MUSEUM CONTEXT: NASM



Rendered view of new vestibule now under construction at NASM from Jefferson Drive SW

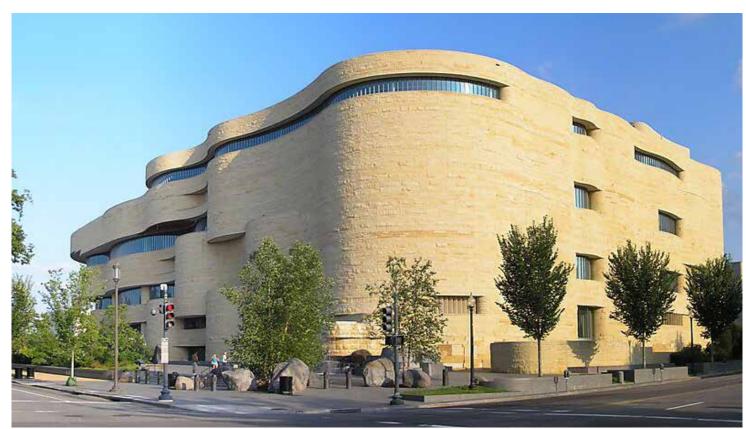


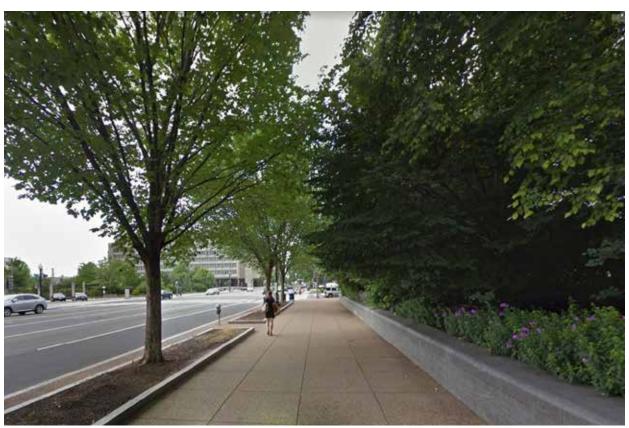
Jefferson Drive SW at NASM, looking southeast



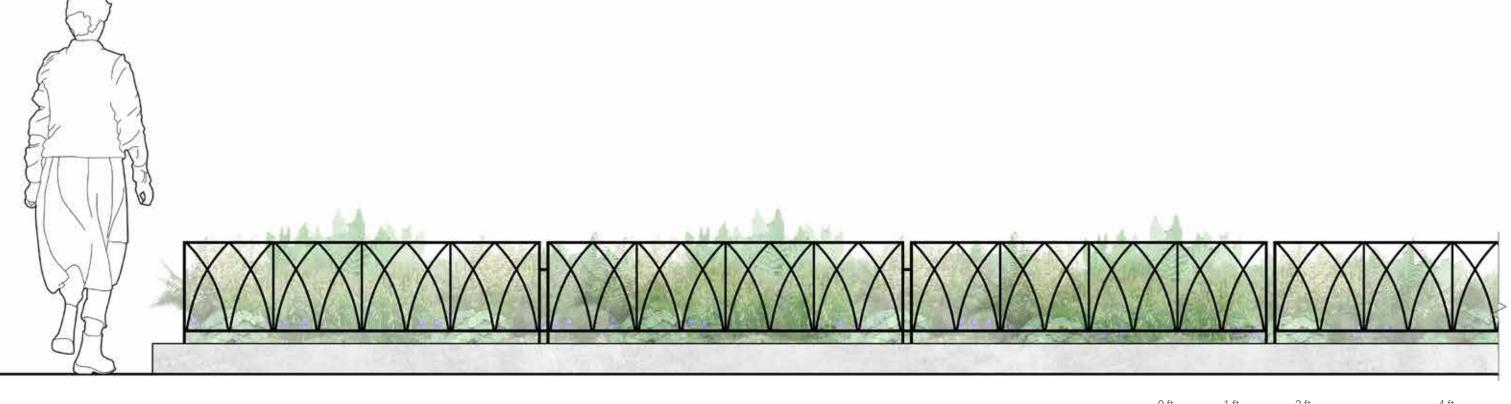


MUSEUM CONTEXT: NMAI





NMAI from the intersection of Jefferson Drive SW and 4th Street SW 3rd Street SW at NMAI looking south





Northeast Elevation, looking southwest Jefferson Drive SW at NMAI



East Elevation, looking west 3rd Street SW at NMAI

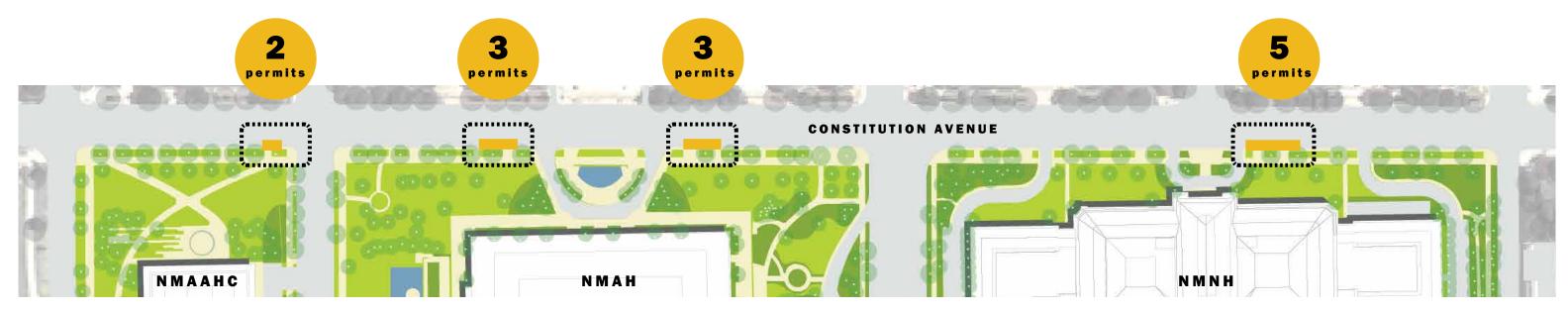
ANALYSIS The NMAI site features various site walls and designed raised plantings. The preferred design is complementary to the curvature of the Museum building facades and the complex landscaping within the site.

ADJACENT TREE FENCES



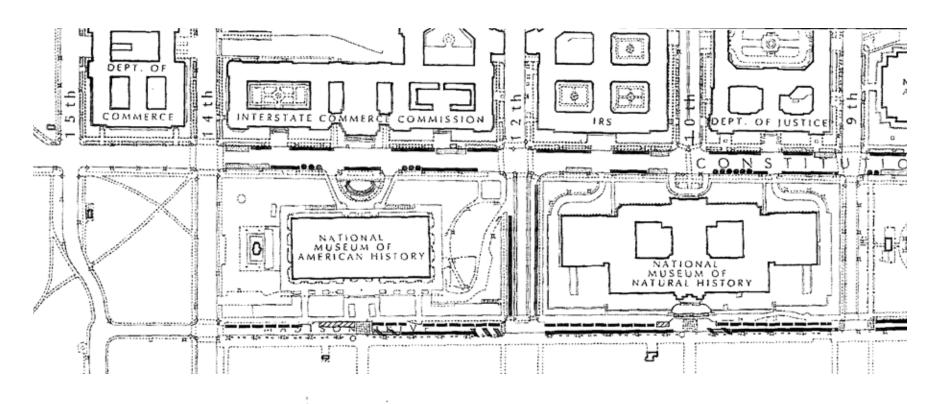
VENDING LOCATIONS

CONSTITUTION AVENUE LEGAL VENDING LOCATIONS



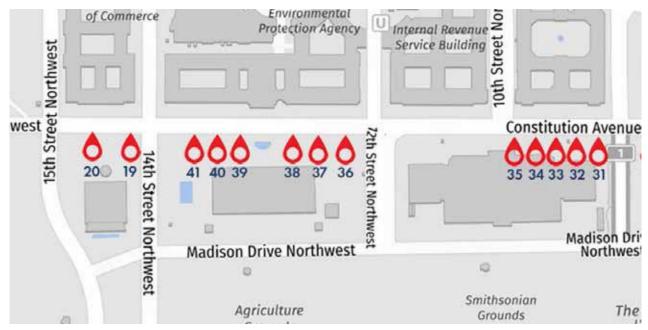
1994 MASTER PLAN - VENDING LOCATIONS

Automobile



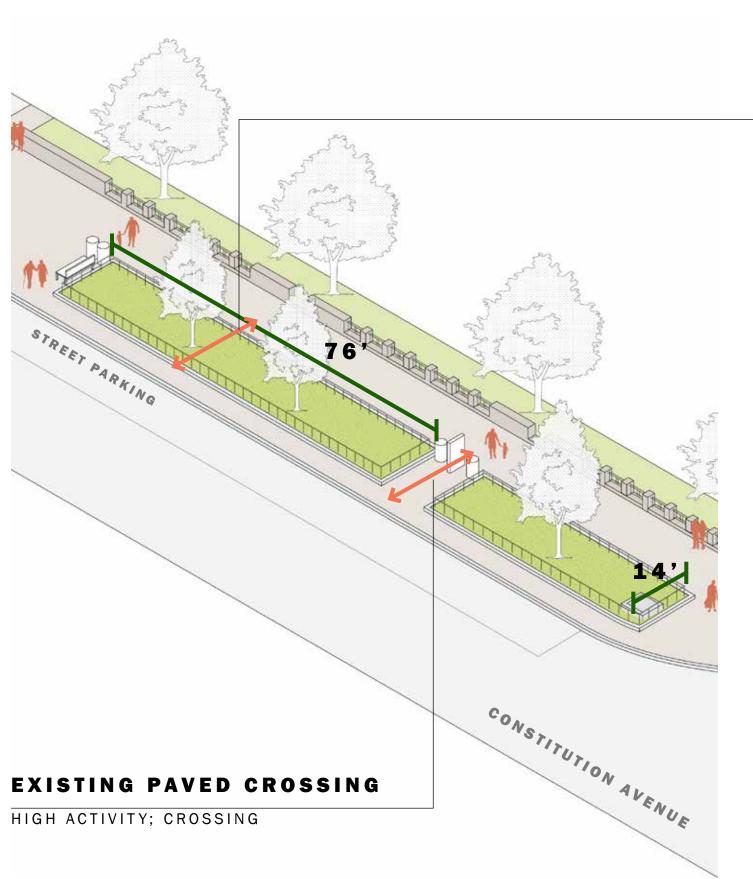
••••• Vendors

2023 VENDING HANDBOOK - SINGLE TRUCK PERMIT LOCATIONS



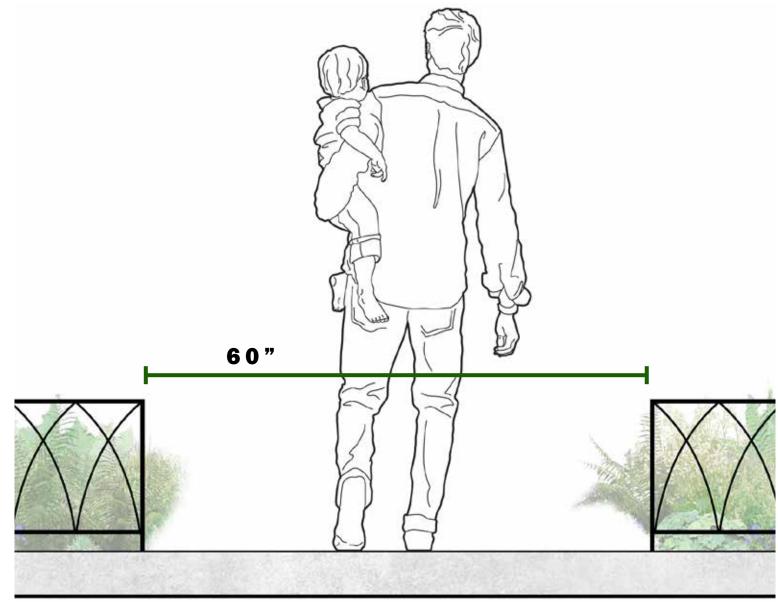


PROPOSED MID BLOCK PLANTER CUT THROUGHS



PROPOSED CUT THROUGH (BEDS > 75')

MEDIUM ACTIVITY; CROSSING

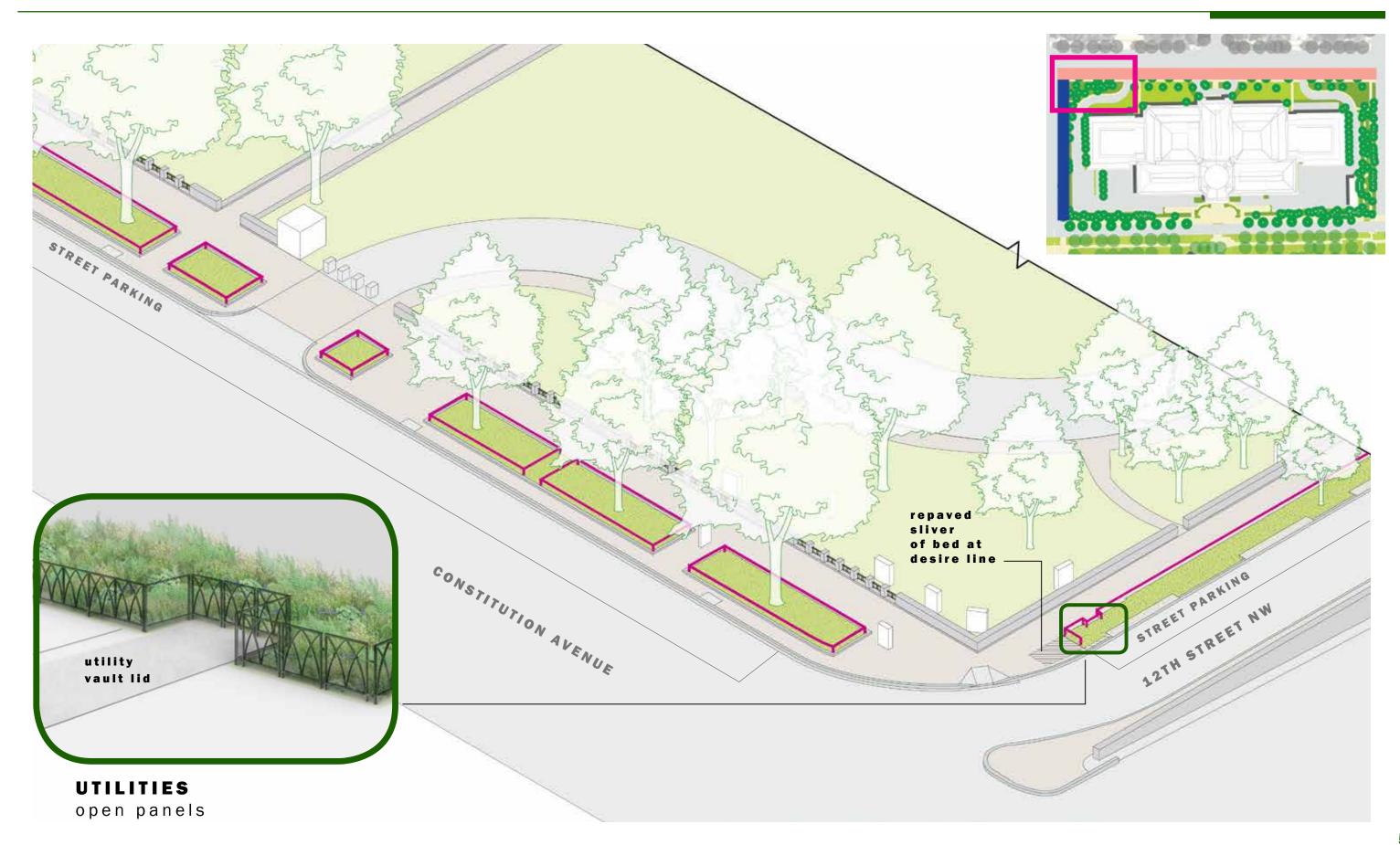


*no alterations to existing planter curbs

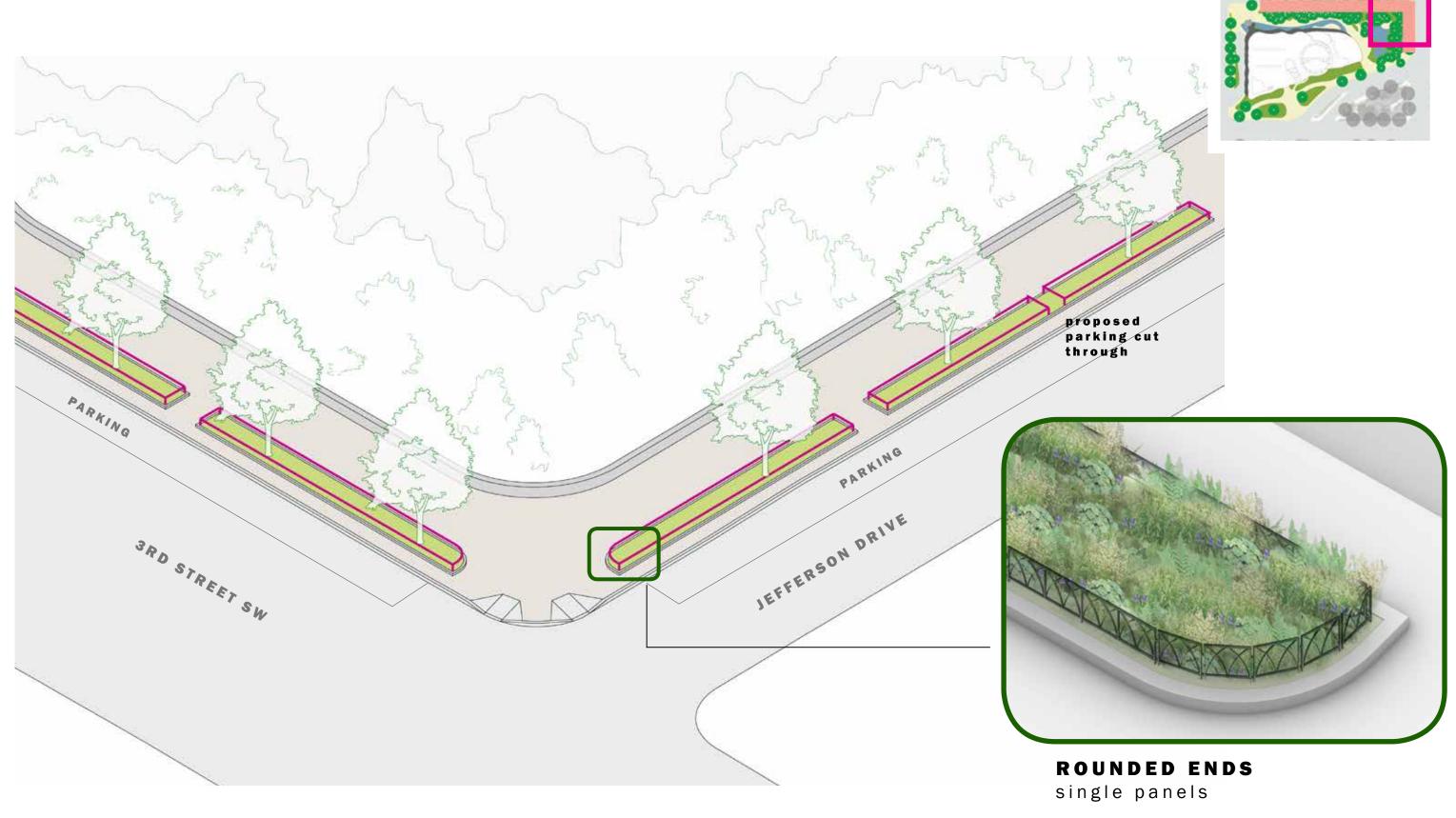
MUSEUM CONTEXT: NMAH



MUSEUM CONTEXT: NMNH

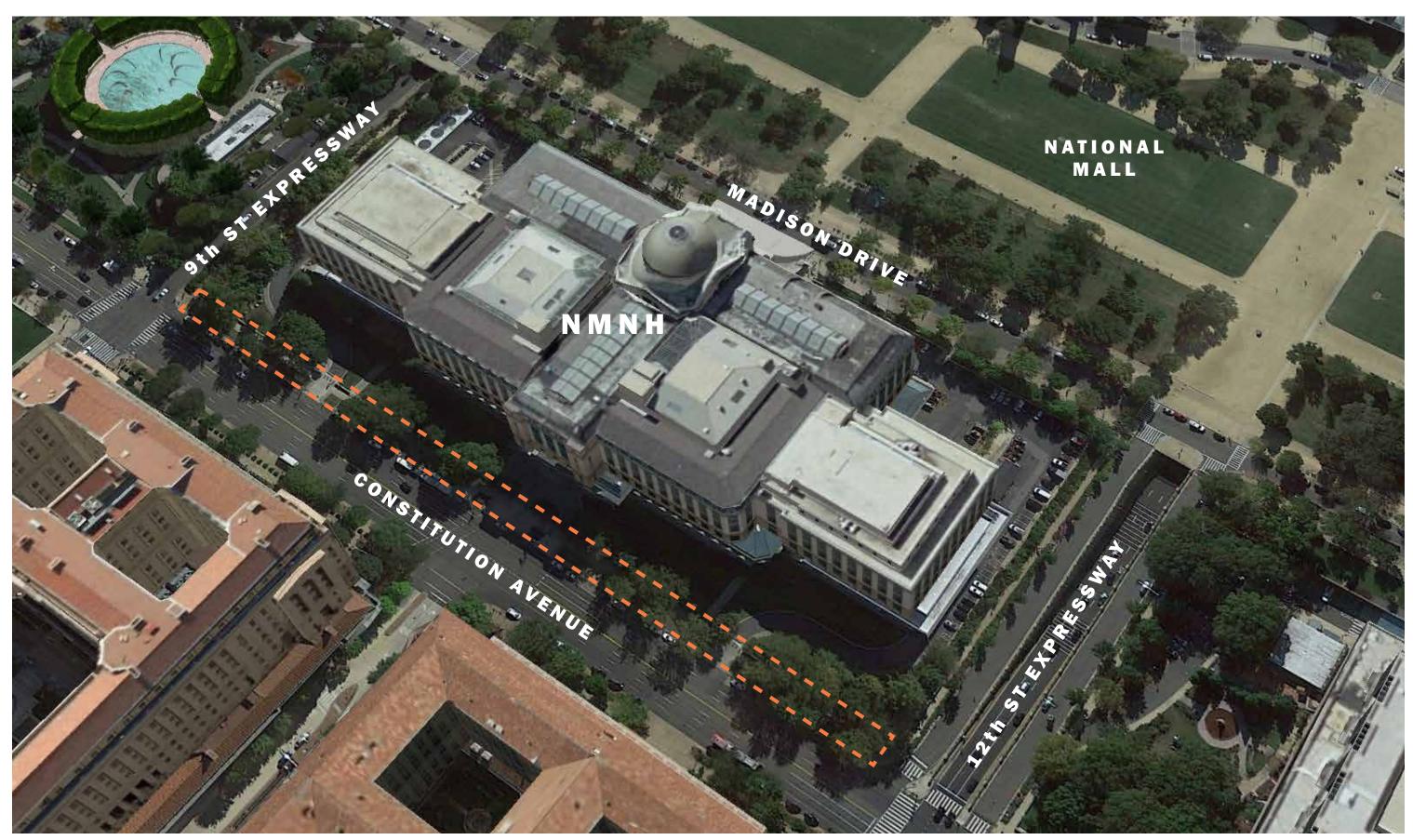


MUSEUM CONTEXT: NMAI

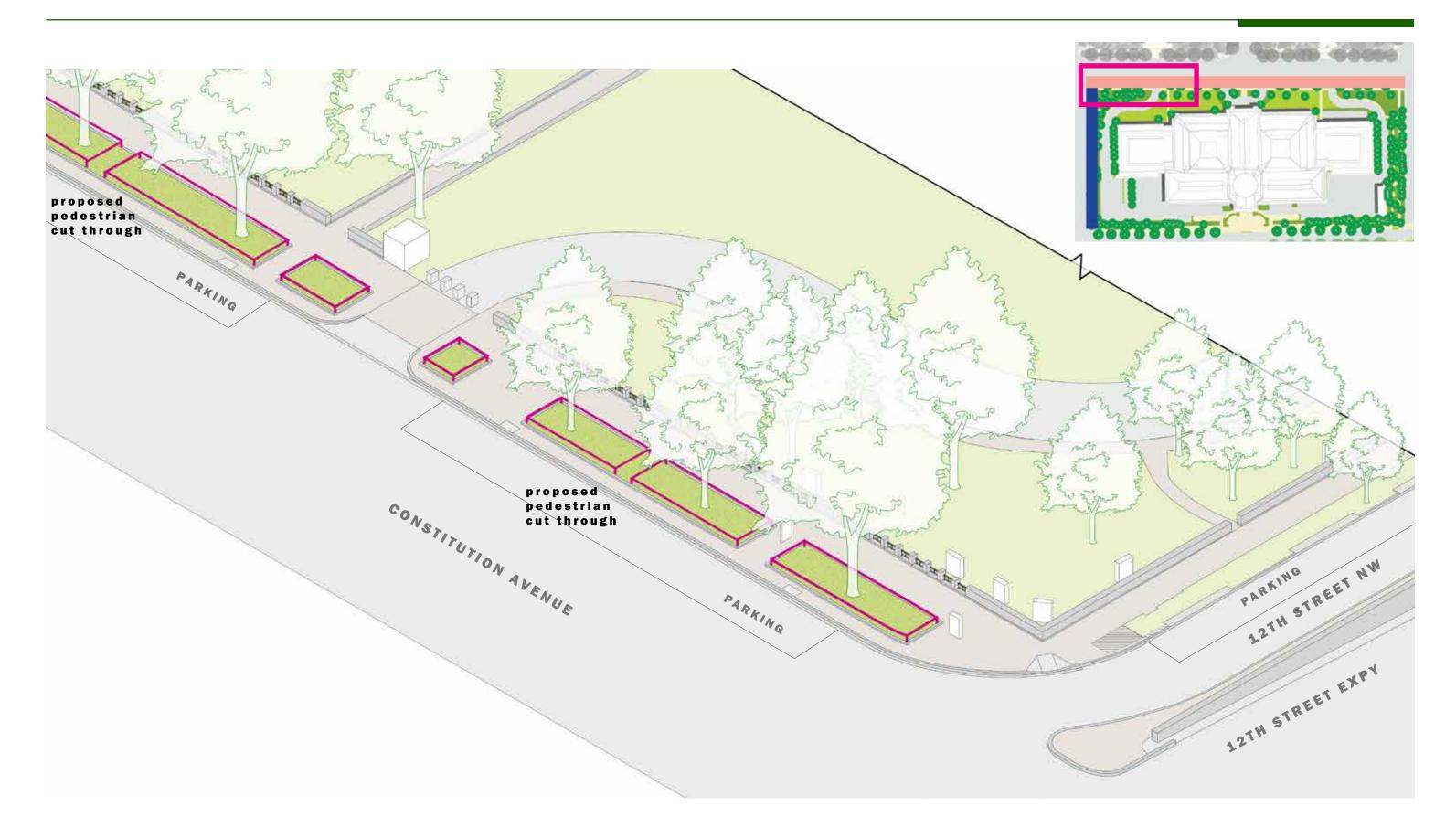




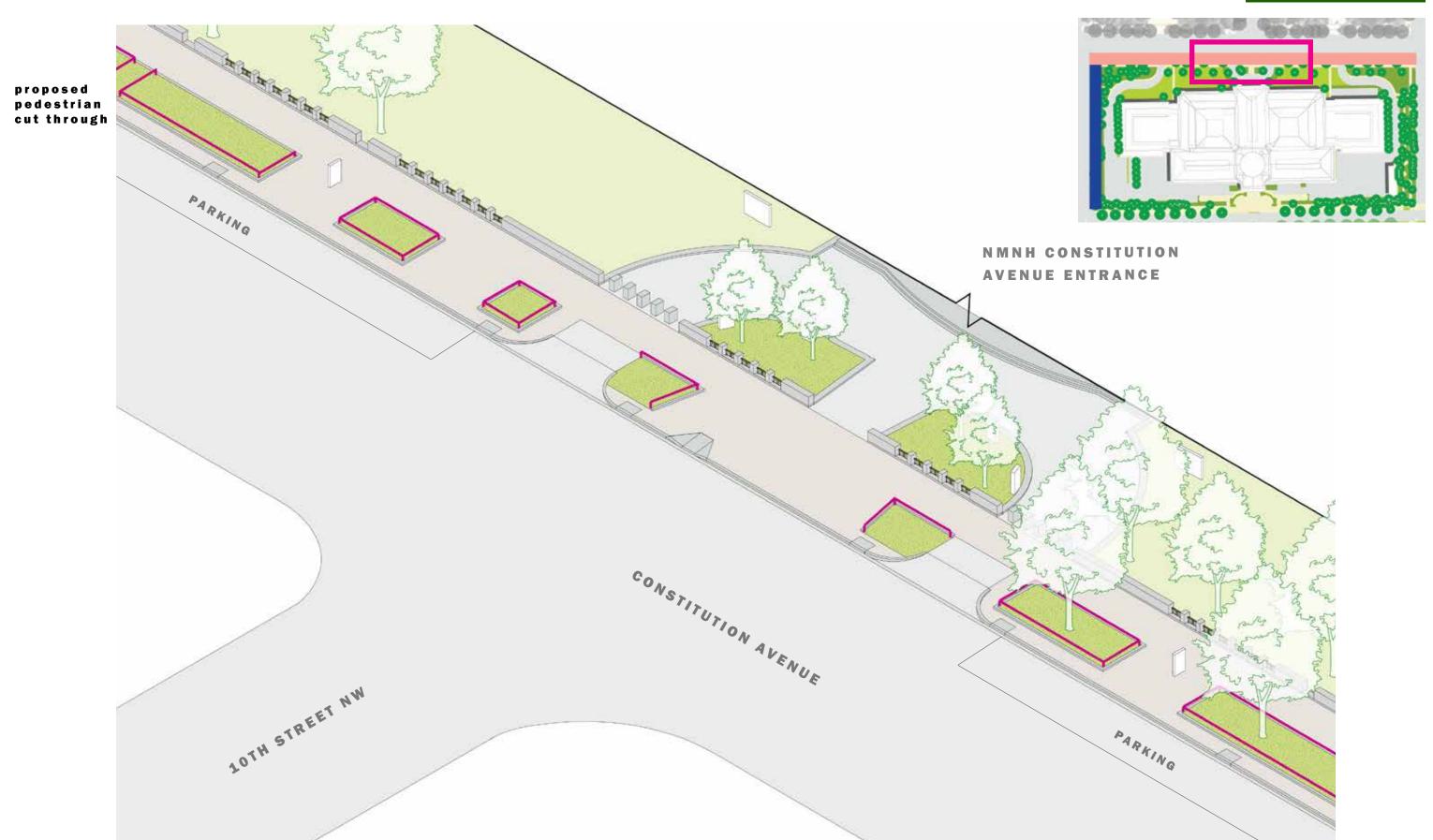
OVERALL SCOPE



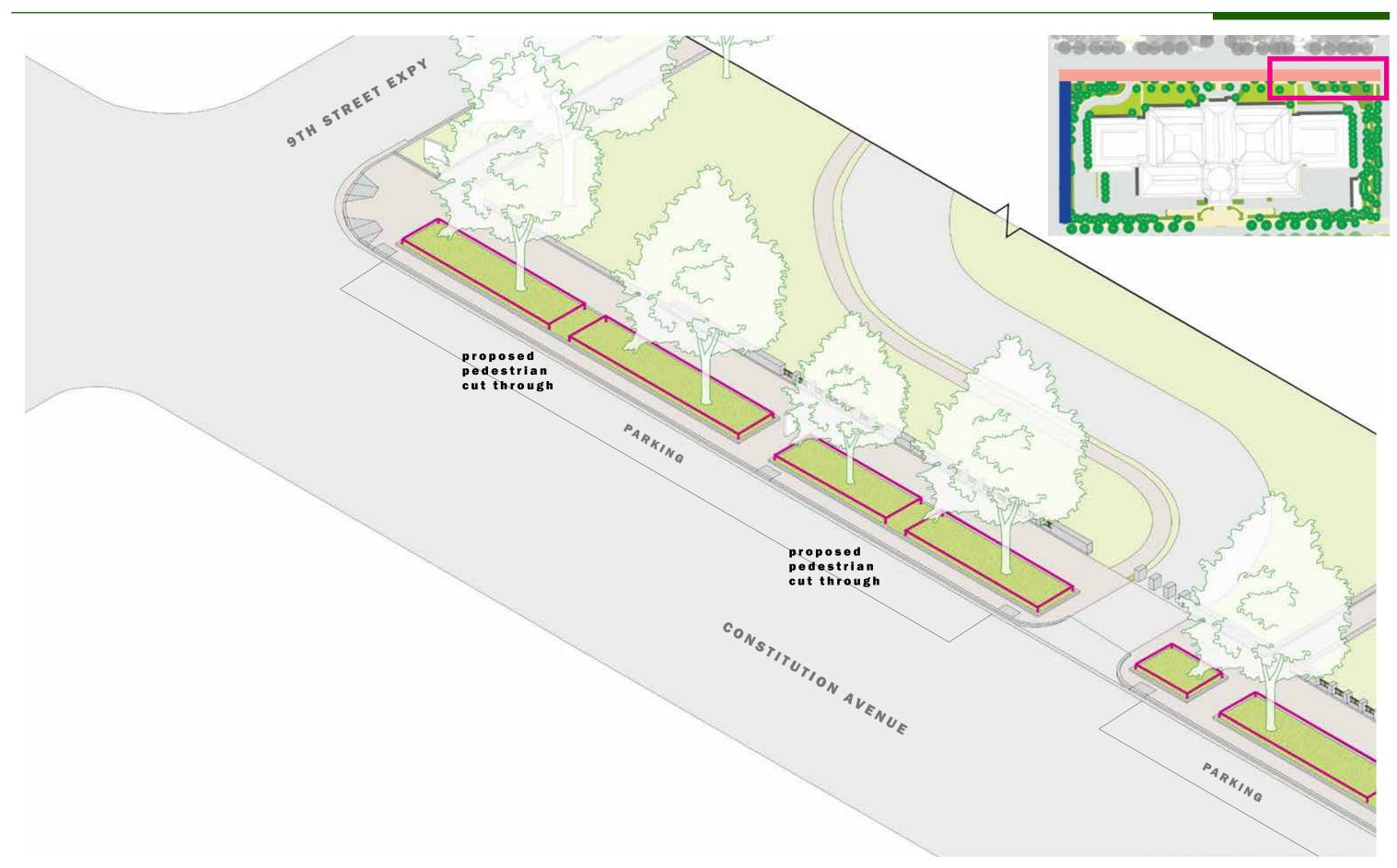
WEST



MID-BLOCK



EAST



PLANTING DESIGN







100% MID-ATLANTIC NATIVE SPECIES

65% matrix plants 35% accent plants

3-4 SEASON SPECIES

MATRIX PLANTS

Amsonia tabernaemontana 'Blue Ice'
Carex plantaginea
Carex sprengelii
Dryopteris marginalis
Polystichum acrostichoides





ACCENT PLANTS

Aquilegia chrysantha
Asclepias quadrifolia
Aster ericoides
Camassia scilloides
Chelone glabra
Echinacea pallida
Erythronium americanum
Geranium maculatum
Heuchera villosa 'Autumn Bride'
Ionactis linarifolia
Iris verna
Iris virginica
Mertensia virginica
Monarda bradburiana

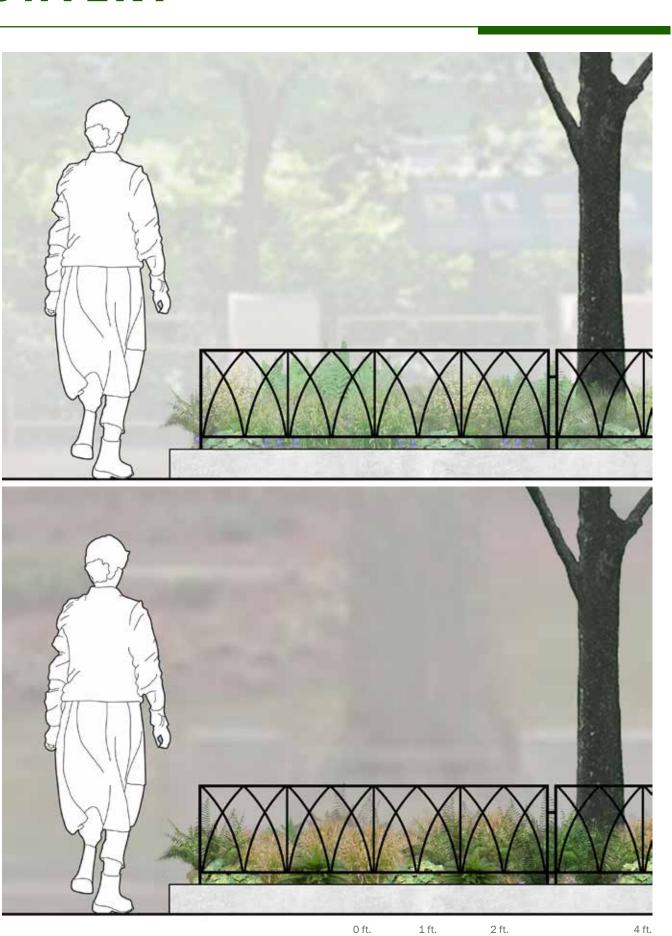
Phlox divaricata 'Blue Moon'
Podophyllum peltatum
Pycnanthemum flexuosum
Spigelia marilandica
Thalictrum thalictroides

Bulbs: Crocus spp. Narcissus 'Pheasant's Eye'

PLANTING CONTEXT

IN LEAF

IN DORMANCY





CONSTITUTION AVENUE: Proposed



