



U.S. Commission of Fine Arts

Long Bridge South Project
Final Design Approval Submittal

January 15, 2026

Project Agency and Team

Project Name

Long Bridge South

Project Location

Washington, DC

Agency Contacts

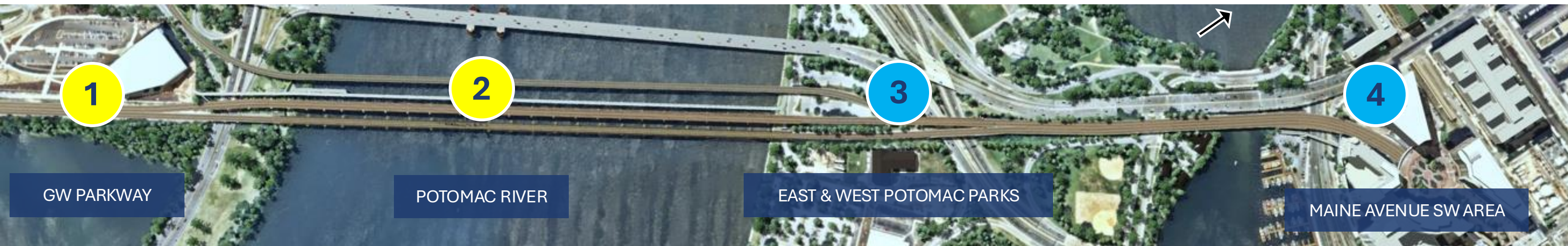
- Virginia Passenger Rail Authority | Shirlene Cleveland | shirlene.cleveland@vpra.virginia.gov | 1800 Diagonal Street, Suite 300, Alexandria, VA 22314
- National Park Service | Laurel Hammig | laurel_hammig@nps.gov | 1100 Ohio Drive SW, Washington, DC 20242

Project Team

- LBRP | Bryon Breese | Bryon.Breese@LBRPJV.com
- LBRP | Fred Parkinson, PE | Fred.Parkinson@STVinc.com



Project Context | Design Parameters from FEIS/ROD



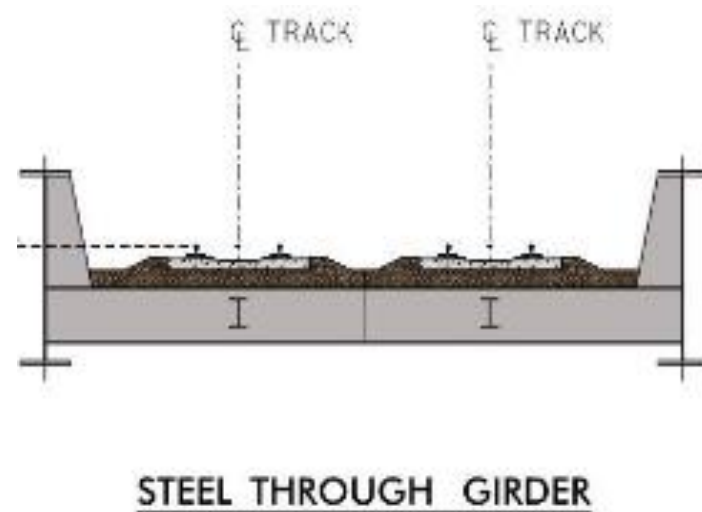
GW PARKWAY	POTOMAC RIVER	EAST & WEST POTOMAC PARKS	MAINE AVENUE SW AREA
Compatible vocabulary with George Washington Memorial Parkway	Consistent, compatible vocabulary with historic railroad bridge	Use of retaining walls to reduce footprint	Use of retaining walls to reduce footprint
Rail Bridge: Steel through-plate girder structure	Rail Bridge: Steel through-plate girder structure	Design walls to be compatible with character of existing resources and appropriate for context of the Monumental Core	Design of walls to be compatible with character of existing resources and appropriate for context of the Monumental Core
Bicycle-Pedestrian Bridge: Pre-fabricated truss spans	Rail Bridge: Piers & retaining walls similar in size and form to historic piers and walls	Design landscaping to mitigate visual impacts to East and West Potomac Parks	
Bicycle-Pedestrian Bridge: Connection to Long Bridge Park, Long Bridge Aquatics & Fitness Center, Mount Vernon Trail	Bicycle-Pedestrian Bridge: Pre-fabricated truss spans		
	Bicycle-Pedestrian Bridge: Single-column concrete piers w/concrete caps		
	Bicycle-Pedestrian Bridge: Opportunity for interpretive displays to communicate Long Bridge corridor history		

Yellow: Long Bridge South - Included in this Submission

Blue: Long Bridge North – Previously Submitted

Design Overview and Intent

Bridge Type



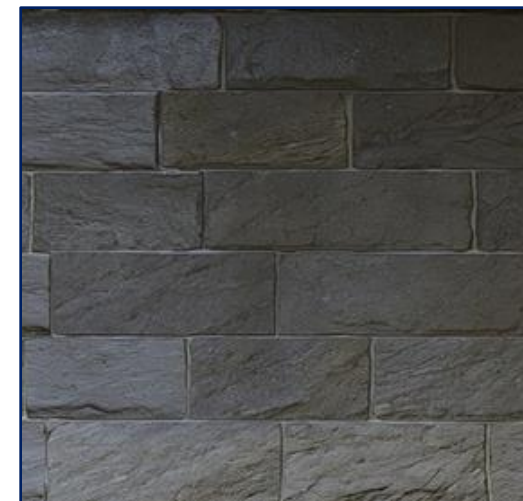
Design Intent:

- Weathering steel girders
- Through plate girders over George Washington Memorial Parkway, Mt. Vernon Trail, Potomac River, and Ohio Drive S/W

Retaining Walls, Piers & Abutments



Proposed Stone cladding for GW Parkway

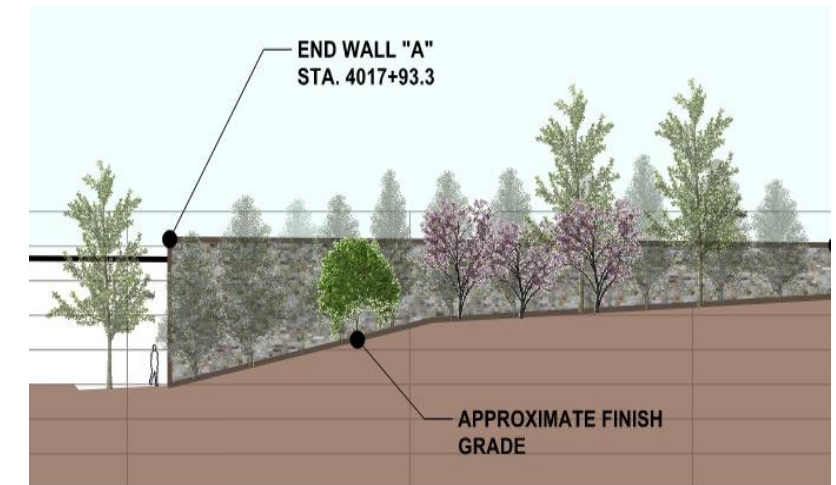


Proposed stone cladding for Potomac River & DC

Design Intent:

- Granite Stone Cladding applied to Rail Bridge River Piers in the Potomac River
- Broken Ashlar Stone Cladding applied to Rail Bridge Substructure Elements at George Washington Memorial Parkway and Mt. Vernon Trail

Landscaping



Design Intent:

- Restore historic and cultural landscapes planned in parkland around rail corridor
- Provide filtered views to existing and proposed rail bridges and walls
- Maintain critical viewsheds within the National Parks
- Bicycle-Pedestrian Ramp landscaping design to address safety concerns and maximize visibility of users
- Provide a plant palette that creates pollinator habitat and is in line with the historic planting plan



Structural Elements

CSX Long Bridge over Potomac River | Existing



Long Bridge South – Structures | Proposed

Structural Design Approach:

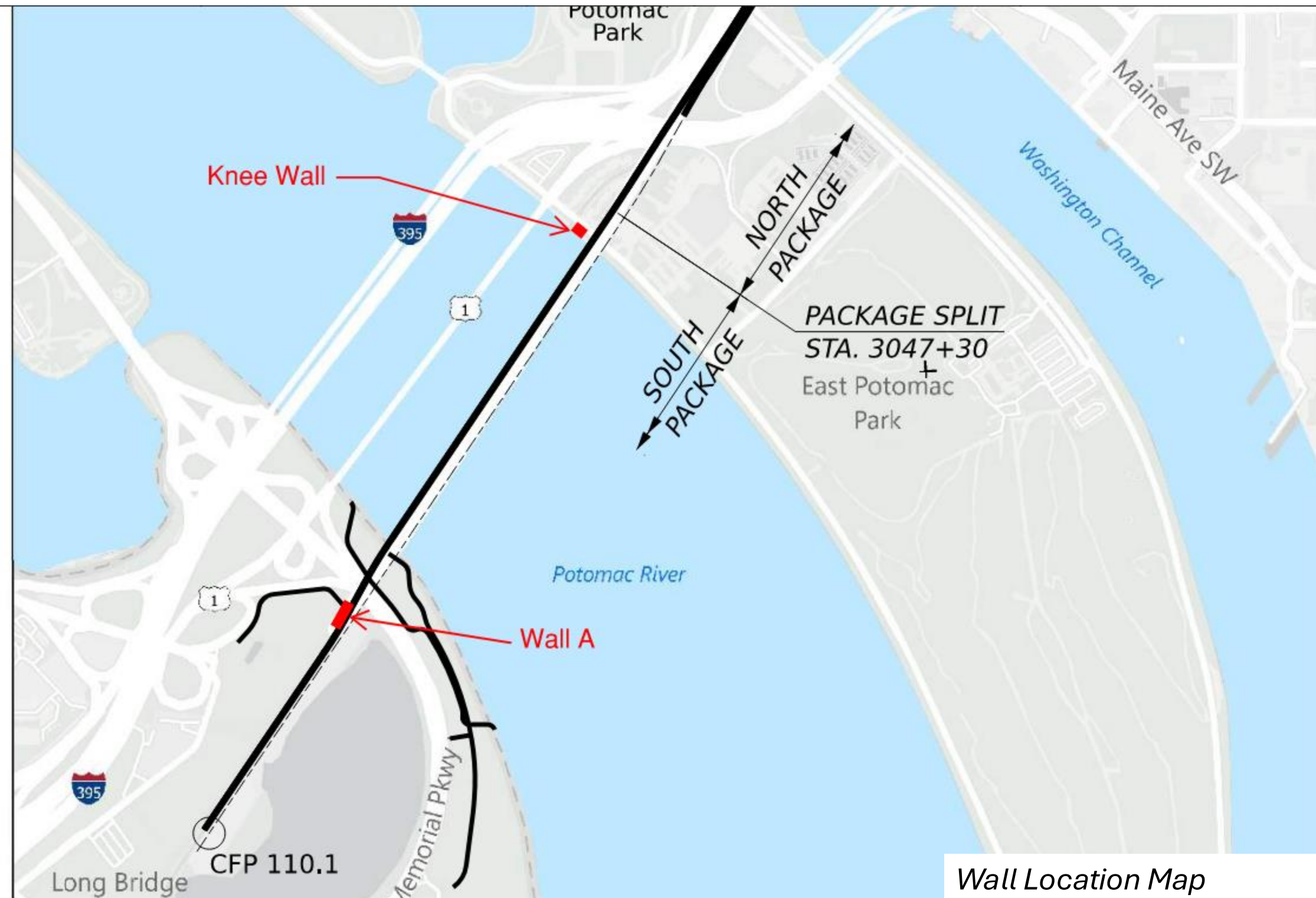
- **Consistent Corridor Wide Aesthetic**
- **Retaining Wall Parapet** – 7'-8" Height, Concrete (consistent with 30% Plans)
- **Stone Pattern** – Broken Ashlar and Granite Cladding, Dimensions Varying (river piers similar to existing bridge)
- **Stone Projections** – Match existing
- **Bridge Girders** – Weathering Steel (will weather gradually and naturally)
- **Wall Piers** – Bullnosed ends for piers on water
- **Abutments** – Plumb (not battered)
- **Retaining Wall A** – Precast Panels to Match Adjacent Bridge Abutment



Retaining Walls

Retaining Walls | Proposed

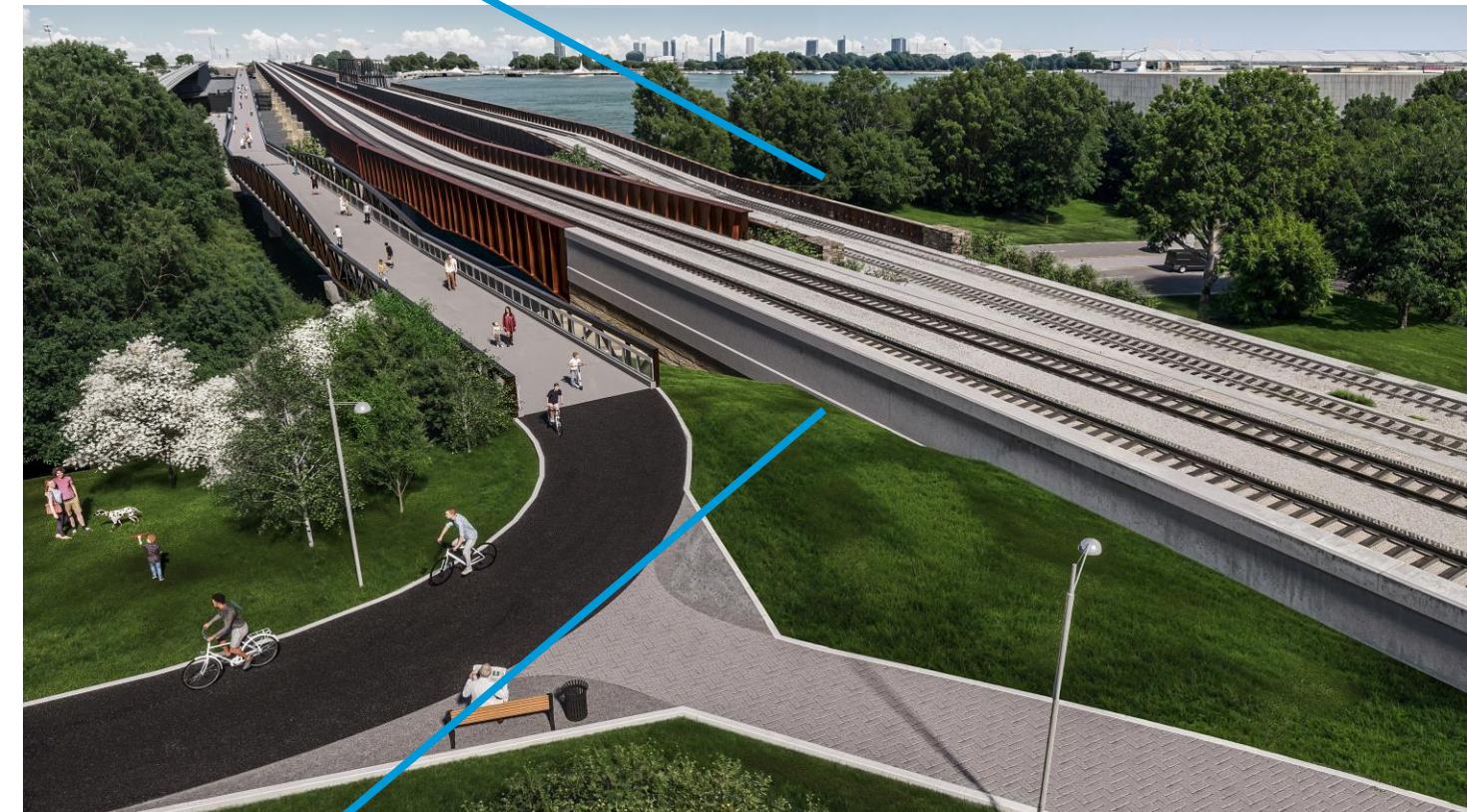
Long Bridge South - Retaining Wall Locations



Wall Location Map

Retaining Walls | Proposed

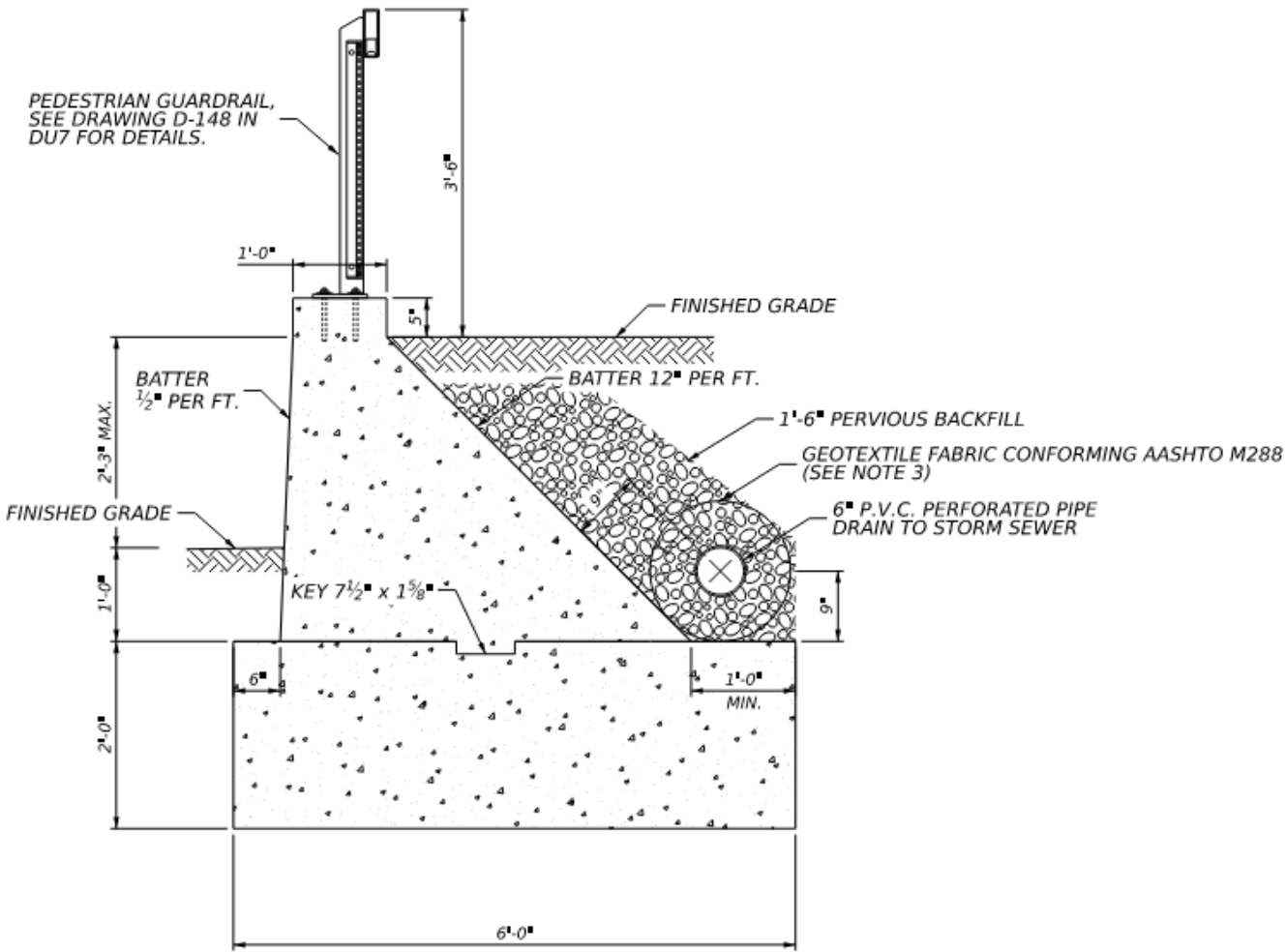
Retaining Wall A, Long Bridge Park, VA (landscaping not shown)



Wall "A" Elevation (length 154' - 6")

Retaining Walls | Proposed

Knee Wall – East Potomac Park, along Ohio Drive S/W



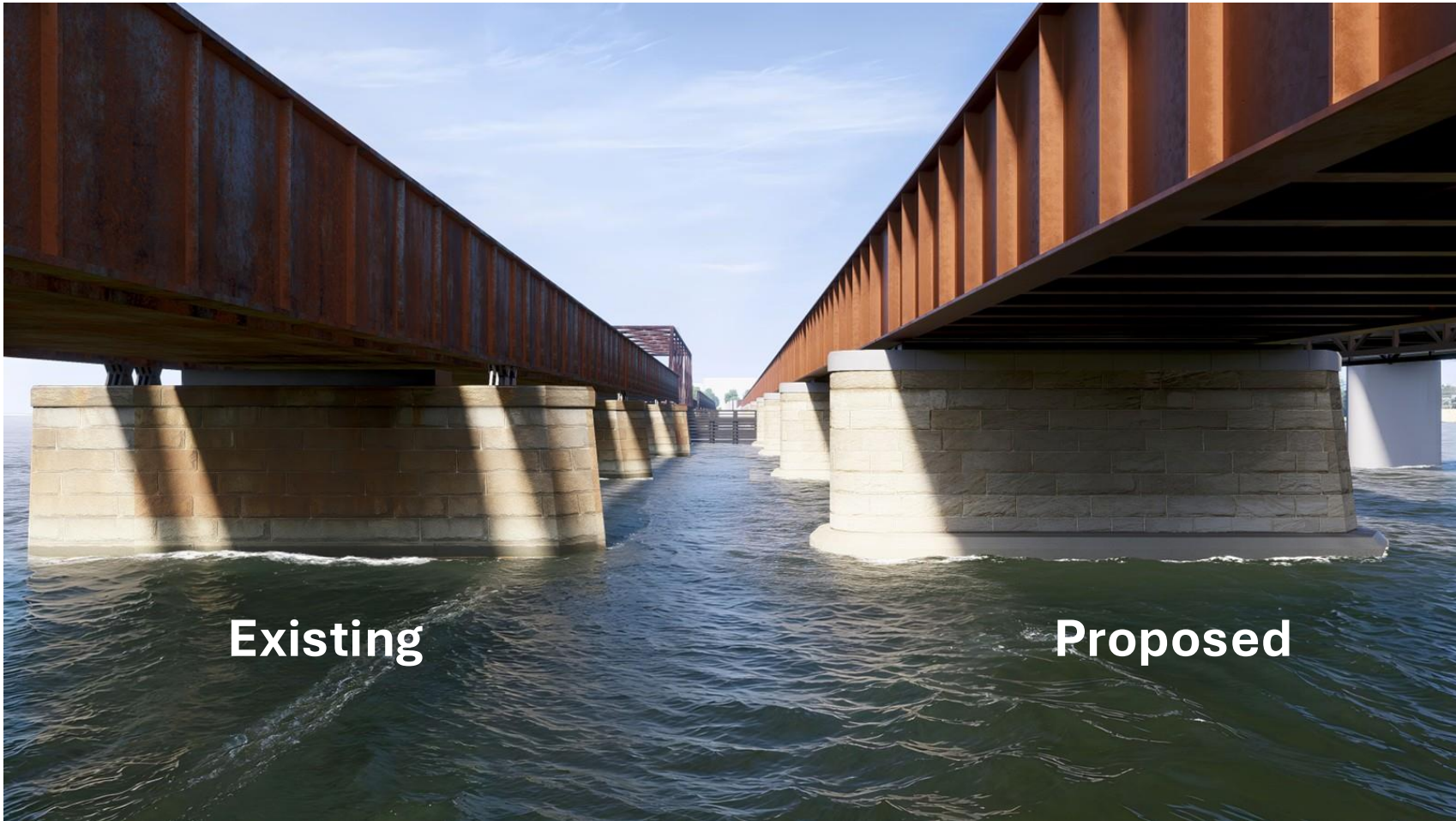
GRAVITY RETAINING WALL
SCALE 1" = 1'-0"

Wall Section View



Bridges

Bridges | Proposed Rail Bridge over the Potomac River



Pier Element	Existing Long Bridge River Piers	Proposed Potomac River Rail Piers
Pier Cap Pedestal	30" Deep Granite Blocks	Reinforced, High-Performance Concrete with Block Joints
Pier Cap Coping	8'-2" to 10'-8" Wide	7'-8" Wide
Coping Overhang	4"	Matches Existing
Pier Cap Chamfer	6"	Matches Existing
Pier Cap Coping Elevation	Approx. El. 19.5'	Approx. El 20.0'
Stem Geometry	Battered in all directions	Not Battered, Constant Width and Length
Upstream End	Ice Breaker Nose, Tapered	Matches Existing
Downstream End	Rounded End, Battered	Rounded End, Not Battered
Architectural Treatment	Granite Blocks	6" Thick Granite Stone Cladding, Matches Existing Patterning
Pile Cap	Top of Cap is below Mean Low Water	Top of Concrete Cap extends minimum 2' above Mean High Water

Bridges | Proposed Rail Bridge over the Potomac River



Bridges | Proposed Rail Bridge over George Washington Memorial Parkway



*Proposed Bike/Ped Bridge
shown in foreground*

Bridges | Proposed Rail Bridge over George Washington Memorial Parkway



Bridges | Proposed Rail Bridge over George Washington Memorial Parkway



Bridges | Proposed Bike/Pedestrian Bridge over the Potomac River



*Proposed Rail Bridge
shown in background*

Bridges | Bike/Pedestrian Bridge Landing at Ohio Drive S/W, East Potomac Park





Lighting

Long Bridge South – Lighting | Proposed

Lighting Design Approach:

- **Consistent Corridor Wide Aesthetic**
- **Light poles / Fixtures**– Reuse / Relocate lights where feasible
- **Underbridge Lighting** – Wall Packs and Underside Fixtures to enhance light levels in darkened areas under the two proposed bridges
- **Pedestrian Bridge Lighting** – Downlighting provided under the handrails along both sides of the bridge, ramp and stairs

Lighting | Proposed

Bike/Pedestrian Bridge Landing at East Potomac Park, 8-ft spacing of handrail





Landscape Design

Landscape Design Approach

Goals:

- Create a planting palette that is visually and historically consistent with the NPS-GWMP corridor
- Vary the selection and arrangement of plantings to achieve a naturalized look
- Maintain viewsheds
- Integrate plantings on the Bike/Pedestrian Bridge while preserving key viewsheds and maintain sightlines for users
- For trees removed for the project, replace as many as possible within the project area
- Integrate both pollinator and native species

Plant Palette

Canopy and Medium Trees



Aesculus flava – Yellow Buckeye



Betula nigra – River Birch



Liriodendron tulipifera – Tulip Tree



Nyssa sylvatica – Black Gum



Platanus occidentalis – American Sycamore



Quercus palustris – Pin Oak



Quercus phellos – Willow Oak



Quercus vellutina – Black Oak



Tilia americana – American Linden



Ostrya virginica - Hophornbeam



Sassafras albidum - Sassafras

Plant Palette

Flowering and Evergreen Trees



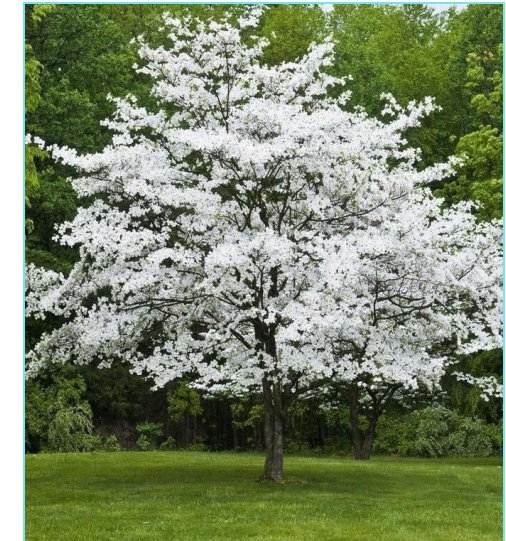
Amelanchier arborea – Downy Serviceberry



Cercis canadensis – Eastern Redbud



Chionanthus virginicus – White Fringetree



Cornus florida – Flowering Dogwood



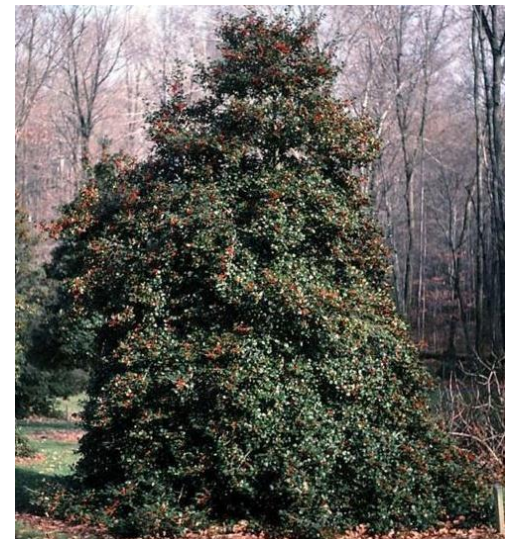
Crataegus phaenopyrum – Washington Hawthorn



Malus coronaria – Sweet Crabapple



Prunus x yedoensis 'Yoshino' – Yoshino Cherry



Ilex opaca – American Holly

Plant Palette

Shrubs and Groundcover



Hydrangea arborescens ; 'Haas'
Halo - Haas Halo Hydrangea



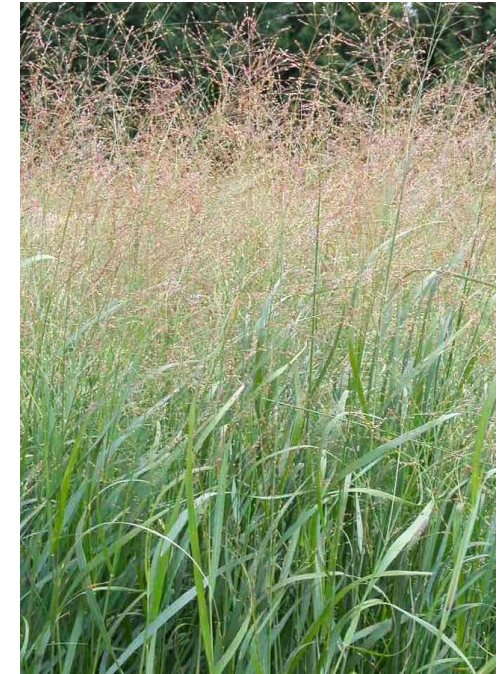
Asclepias incarnata - Swamp
Milkweed



Pycnanthemum muticum -
Clustered Mountain Mint



Rudbeckia fulgida var.
sullivantii - Orange Coneflower



Panicum virgatum -
Switchgrass

Site A



Site B



Site C



Site D





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Project Scope and Schedule

Site Acquisition

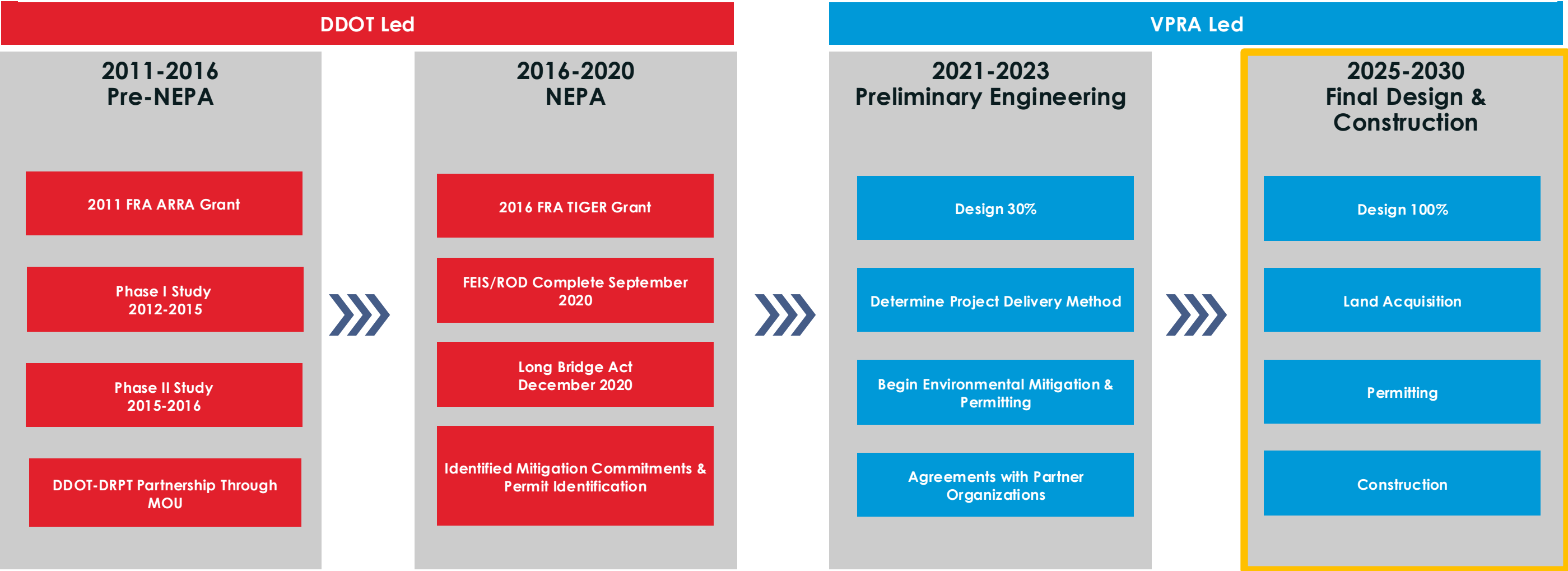
The Long Bridge Act of 2020 authorized the National Park Service (NPS) to convey to Virginia or the District of Columbia (the District) approximately 4.4 acres of NPS land for the construction of rail and other infrastructure relating to the Project. In 2019, VPRA struck an agreement to purchase railroad right-of-way and tracks owned by CSX Transportation (CSXT) for the Long Bridge Project (Project). Additional property acquisitions are underway.

Project Schedule

The overall Project schedule is shown below. The Project is currently in the Final Design phase following the issuance of the National Environmental Policy Act (NEPA) Final Environmental Impact Statement/Record of Decision (FEIS/ROD) in August 2020 and selection of Design Build contractors for the North and South contract packages. The North Package reached the 60% design milestone in 2024; final design is underway. The South Package is currently working toward 60% design.

Project Cost and Funding Status

The current total Project cost is \$2.3 billion. Current funding partners for the Project include VPRA, FRA, Amtrak, CSXT, and VRE. The Project received a Federal/State Partnership grant from the FRA and a RAISE grant for the bike/pedestrian bridge. The Project is fully funded.





Introduction

Project Phases



Project Map – Project Phases

The Project corridor is separated into four phases reflecting the varying site conditions and context that transitions from parkland to an urban context, see figure above and table to the right.

-  Yellow: Long Bridge South - Included in this submission (1 & 2)
-  Blue: Long Bridge North – Previously submitted (3 & 4)

Phase		Structures
1	GW Parkway	<ul style="list-style-type: none">Potomac River Rail Bridge (extends over the Parkway and Potomac River)Potomac River Bicycle-Pedestrian Bridge (extends over the Parkway and Potomac River to Long Bridge Park)
2	Potomac River	<ul style="list-style-type: none">Potomac River Rail Bridge (extends over the Parkway and Potomac River)Potomac River Bicycle-Pedestrian Bridge (extends over the Parkway and Potomac River)Retaining Walls and Landscape Design
3	East & West Potomac Parks	<ul style="list-style-type: none">Potomac River Bicycle-Pedestrian Bridge LandingWMATA/I-395 BridgeOhio Drive SW (East) BridgeWashington Channel Rail BridgeRetaining Walls and Landscape Design
4	Maine Avenue SW Area	<ul style="list-style-type: none">Maine Avenue SW Rail BridgeRetaining WallsMaine Avenue SW Pedestrian Bridge

1 Bridges over GWMP | Existing

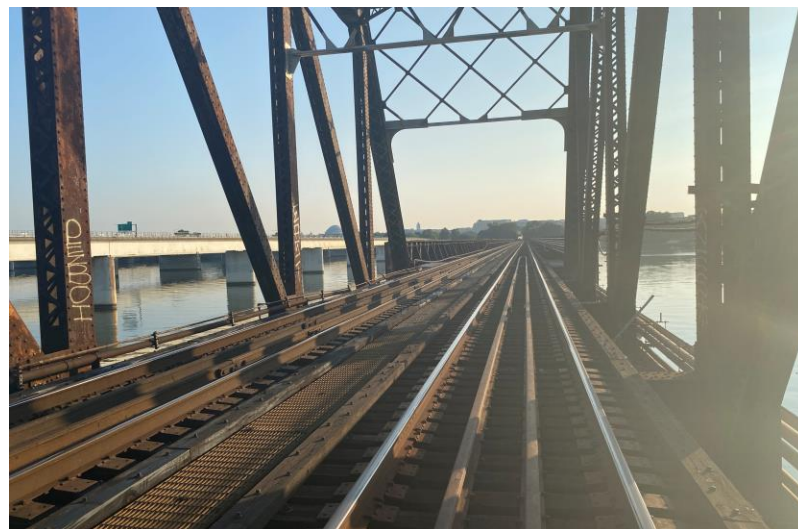


Long Bridge South – Structures | Existing

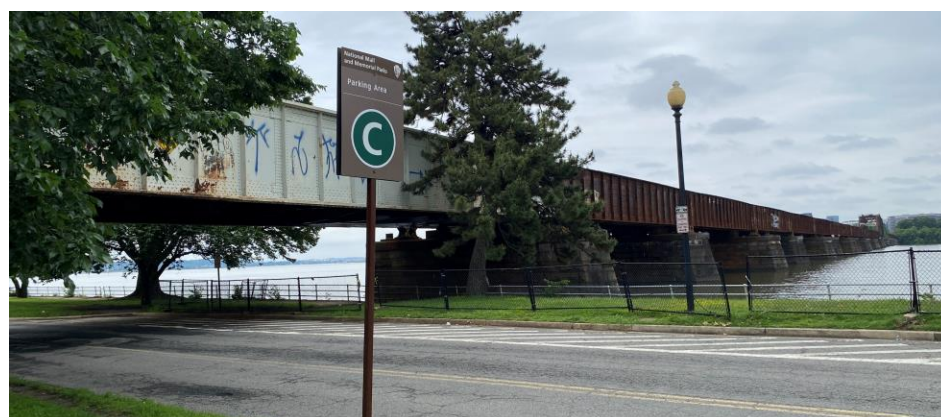
Existing structures will remain.

1 CSXT Rail Bridge over Ohio Drive SW, the Potomac River and the Mount Vernon Trail (Long Bridge) - 1904

Originally constructed in 1904 and substantially modified in 1943, the existing CSXT Rail Bridge over Ohio Drive SW, the Potomac River and the Mount Vernon Trail in Arlington, VA and Washington, DC consists of coated steel through girders, transverse floorbeams and an open deck. The abutments and piers consist of stone masonry blocks.



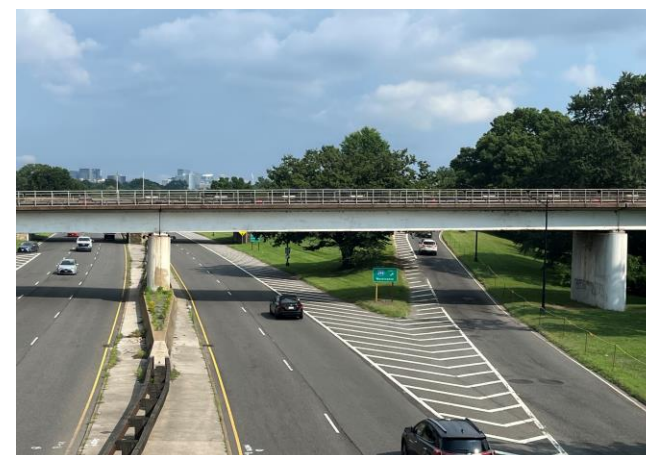
Long Bridge – Topside, Looking Northeast



Long Bridge – West Side

2 WMATA Yellow Line Bridge over Ohio Drive SW, the Potomac River, the Mount Vernon Trail and the George Washington Memorial Parkway - 1977

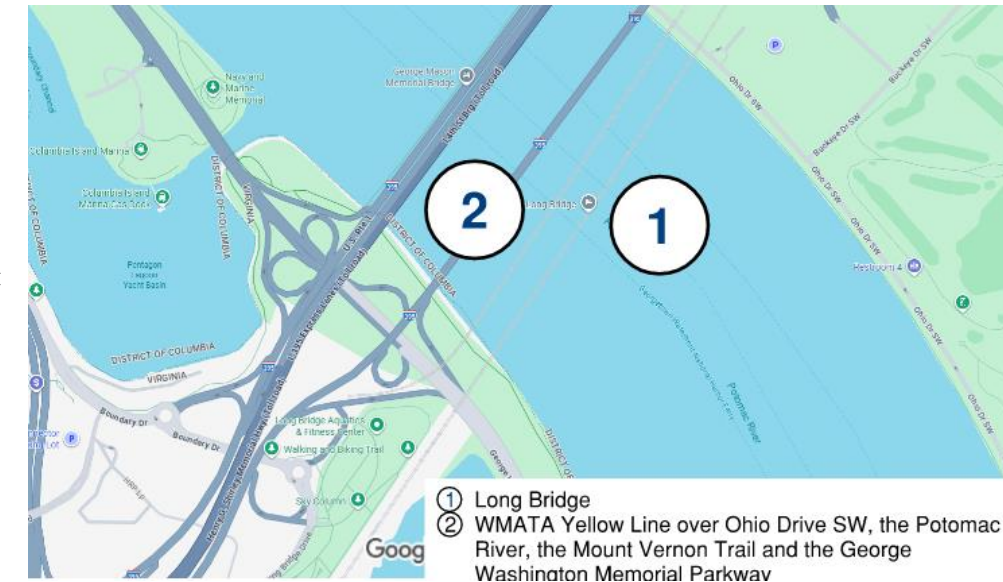
The WMATA Yellow Line Bridge over Ohio Drive SW, the Potomac River, the Mount Vernon Trail and George Washington Memorial Parkway in Arlington, VA and Washington, DC was constructed in 1977. Bridge consists of coated steel box girders with a concrete deck. The abutments and piers consist of reinforced concrete. Security fencing is located on top of the 90-degree wingwall to prevent access to WMATA right-of-way.



WMATA Yellow Line Bridge Tunnel Portal



WMATA Yellow Line Bridge Tunnel Portal



Long Bridge South – Structures | Existing

3

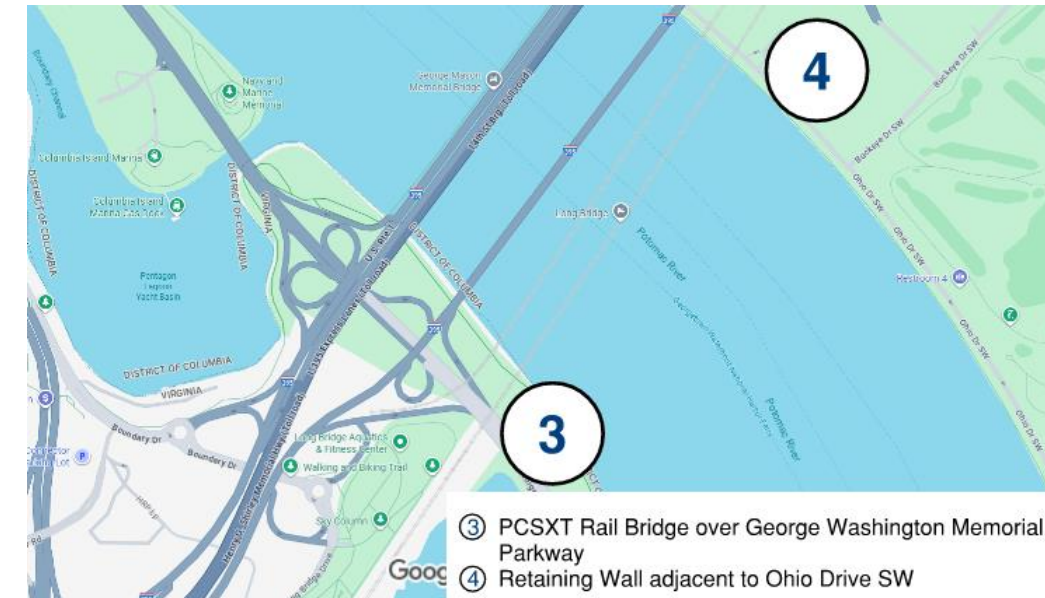
CSXT Rail Bridge over George Washington Memorial Parkway (GWMP) – 1930

Constructed in 1930, the existing CSXT Rail Bridge over George Washington Memorial Parkway in Arlington, VA consists of coated steel through girders, transverse floor beams and concrete deck. The abutments and pier consist of stone masonry blocks supported on pile foundations.

4

Retaining Wall adjacent to Ohio Drive SW

The Retaining Walls adjacent to Ohio Drive SW abut either side of the North Abutment of the Long Bridge is located in Washington, DC. Both structures are gravity retaining walls that consist of stone masonry blocks with stone coping.



CSXT over GWMP – East Side



CSXT over GWMP – West Side



West Retaining Wall adjacent to Ohio Dr SW (Left)
East Retaining Wall adjacent to Ohio Dr SW (Right)

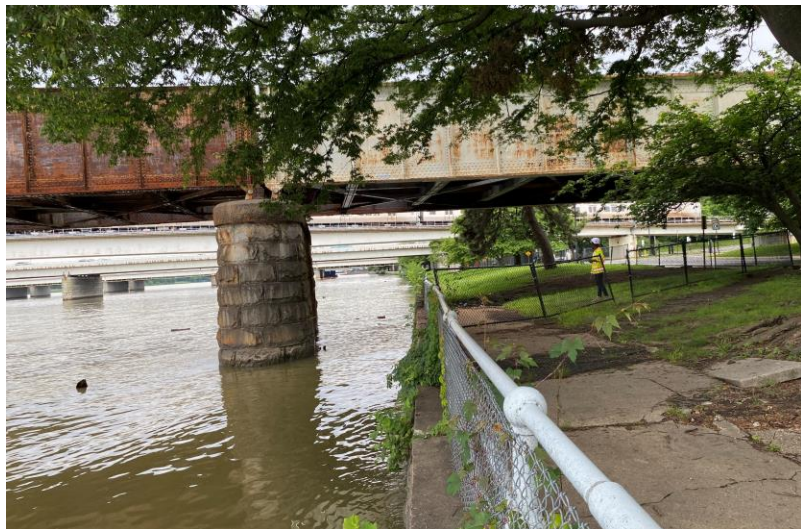


East Retaining Wall adjacent to Ohio Drive SW

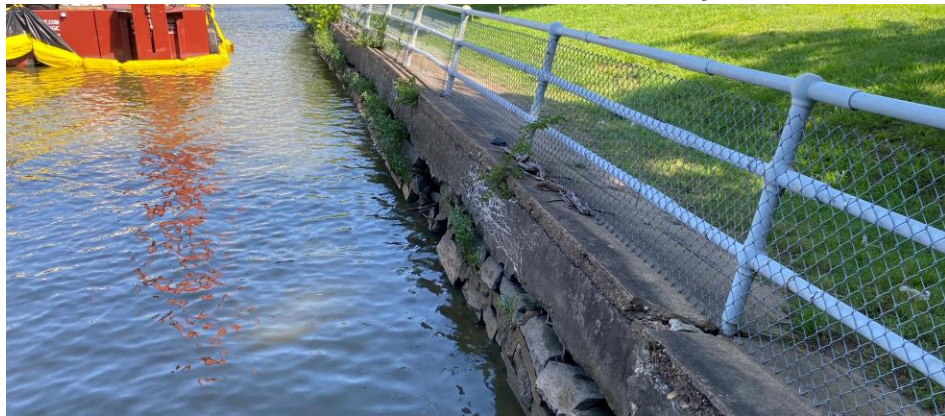
Long Bridge South – Structures | Existing

5 Potomac River Seawall – 1884 - 1913

Constructed between 1884 and 1913, the existing Potomac River Seawall in Washington, DC consists of a stone masonry block stem. Based on the estimated section the stem is supported by a wide trench filled by riprap. There is a sidewalk and steel pipe handrail on top of the seawall. The portion of the seawall from the Arland D. Williams Jr. Memorial Bridge over the Potomac River to approximately 125 feet southeast of the Long Bridge was surveyed as part of the Long Bridge Project – South Package.



Potomac River Seawall - East End of Surveyed Section



Potomac River Seawall – West of Long Bridge

6 Retaining Walls adjacent to the Long Bridge Aquatics & Fitness Center - 2019

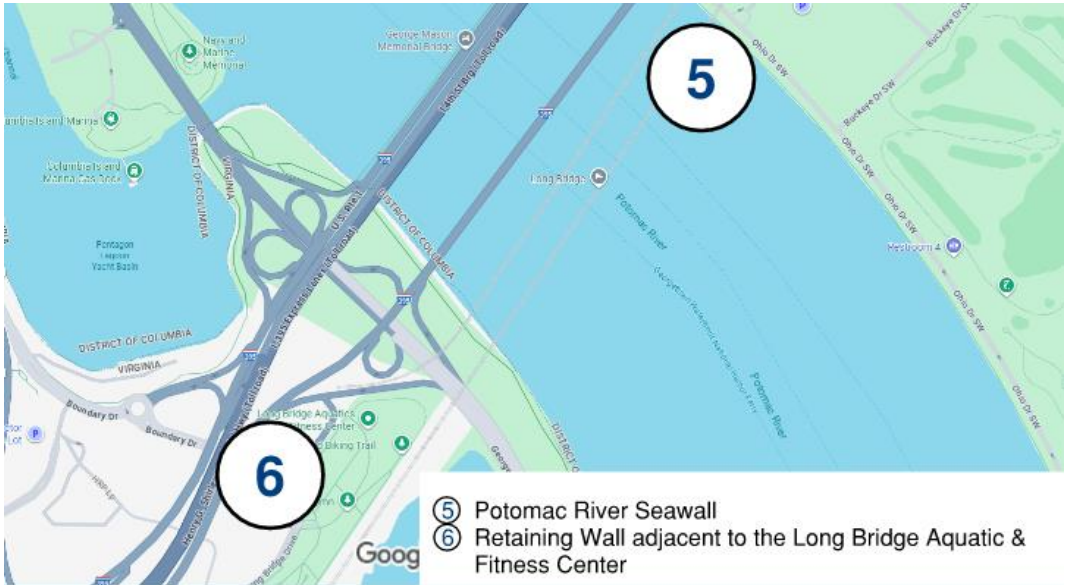
The retaining wall separating the Railroad right-of-way and the Long Bridge Aquatics & Fitness Center in Arlington, VA was built in 2019. The wall consists of a gabion faced reinforced soil retaining wall system made up of galvanized steel welded wire mesh facing, holding select rock. There are stainless steel guardrails at the top of the retaining wall. The portion of the wall surveyed as part of the Long Bridge Project – South Package measures 1,700 feet in length, starting from the north end of the wall at the CSXT Bridge over George Washington Memorial Parkway approach.



Long Bridge Aquatics & Fitness Center – South End of Surveyed Section (Left), North End (Right)



Long Bridge Aquatics & Fitness Center - Topside



Long Bridge South – Structures | Existing

7 CSXT Rail Bridge over Ohio Drive SW, Potomac River and the Mount Vernon Trail Fenders

There are existing fender systems in front of the north and east faces of Pier 9 and encircling Pier 8. The fender system at Pier 9 appears to consist of the original vertical timbers placed side-by-side. The fender system at Pier 8 consist of a rebuilt system with vertical timber posts and horizontal wales, built in the late 1990's.



Long Bridge Fender System – Pier 8, East Side



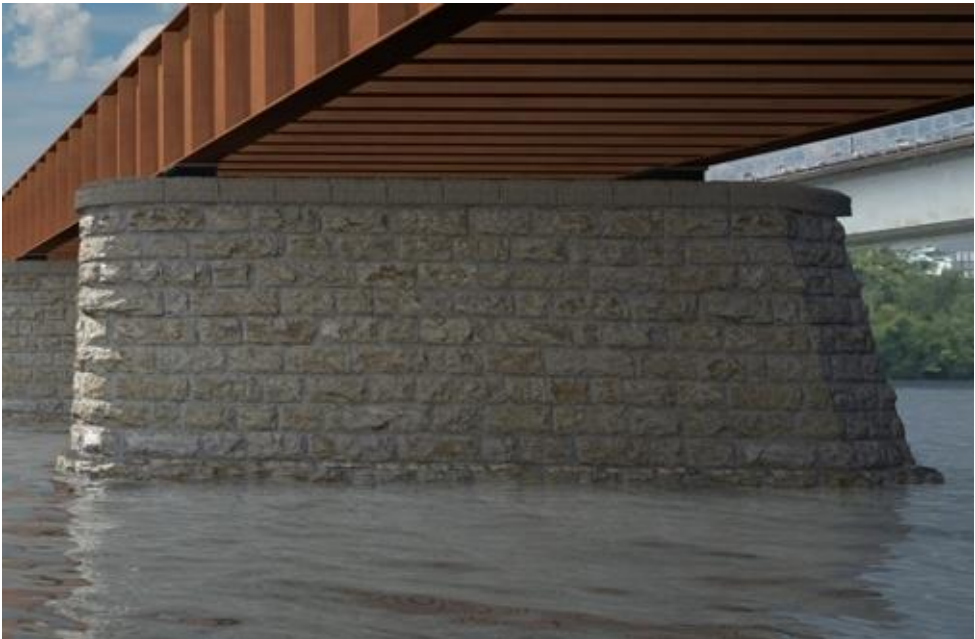
7 Long Bridge Fender System



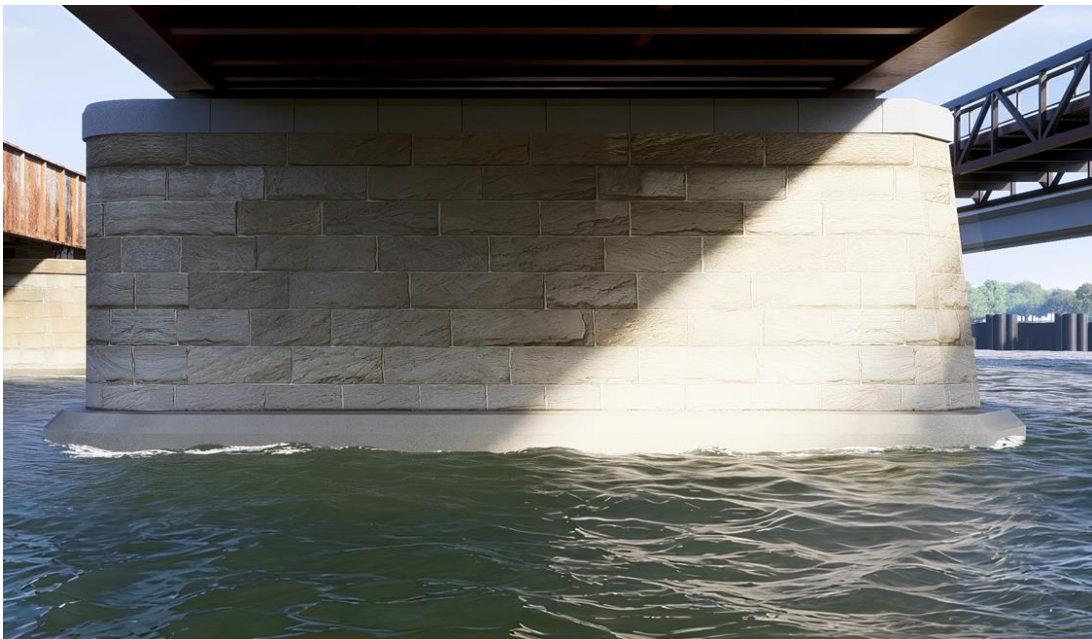
Bridges | Proposed Rail Bridge over the Potomac River



Existing



Preliminary Engineering
(30% Design)



Current
(60% Design)

Pier Element	Existing Long Bridge River Piers	Potomac River Rail Piers (30% Preliminary Engineering Concept)	Potomac River Rail Piers (Current Concept)
Pier Cap Pedestal	30" Deep Granite Blocks	Varying Height Reinforced Concrete	Reinforced, High-Performance Concrete with Block Joints
Pier Cap Coping	8'-2" to 10'-8" Wide	11'-8" Wide	7'-8" Wide
Coping Overhang	4"	Matches Existing	Matches Existing
Pier Cap Chamfer	6"	Matches Existing	Matches Existing
Pier Cap Coping Elevation	Approx. El. 19.5'	Approx. El 20.0'	Approx. El 20.0'
Stem Geometry	Battered in all directions	Not Battered, Constant Width and Length	Not Battered, Constant Width and Length
Upstream End	Ice Breaker Nose, Tapered	Matches Existing	Matches Existing
Downstream End	Rounded End, Battered	Rounded End, Not Battered	Rounded End, Not Battered
Architectural Treatment	Granite Blocks	6" Thick Granite Stone Cladding, Matches Existing Patterning	6" Thick Granite Stone Cladding, Matches Existing Patterning
Pile Cap	Top of Cap is below Mean Low Water	Top of Concrete Cap extends minimum 2' above Mean High Water	Top of Concrete Cap extends minimum 2' above Mean High Water

Bridges | Proposed Rail Bridge over the Potomac River



Bridges | Proposed Rail Bridge over the Potomac River



Bridges | Proposed Bike/Pedestrian Bridge over the Potomac River



Bridges | Proposed Bike/Pedestrian Bridge over the Potomac River



Bridges | Bike/Pedestrian Bridge Landing at East Potomac Park, Landscaping at NPS Parking Lot C



Bridges | Bike/Pedestrian Bridge Landings at Mt. Vernon Trail, NPS-GWMP, VA



Bridges | Bike/Pedestrian Bridge Landings at Mt. Vernon Trail, Wayfinding Signage



Existing MVT Wayfinding Signs



Bridges | Bike/Pedestrian Bridge Landing at Long Bridge Park, Arlington, VA



Lighting | Proposed

Bike/Pedestrian Bridge Landing at East Potomac Park, 4-ft spacing of handrail



Lighting | Proposed

Bike/Pedestrian Bridge Landings at Mount Vernon Trail, 4-ft spacing of handrail lights



Lighting | Proposed

Bike/Pedestrian Bridge Landings at Mount Vernon Trail, 8-ft spacing of handrail lights



Lighting | Proposed

Bike/Pedestrian Bridge Landing at Long Bridge Park, 4-ft spacing of handrail lights



Lighting | Proposed

Bike/Pedestrian Bridge Landing at Long Bridge Park, 8-ft spacing of handrail lights



Site A

SITE A TREE PRESERVATION



SITE A KEY MAP

LEGEND



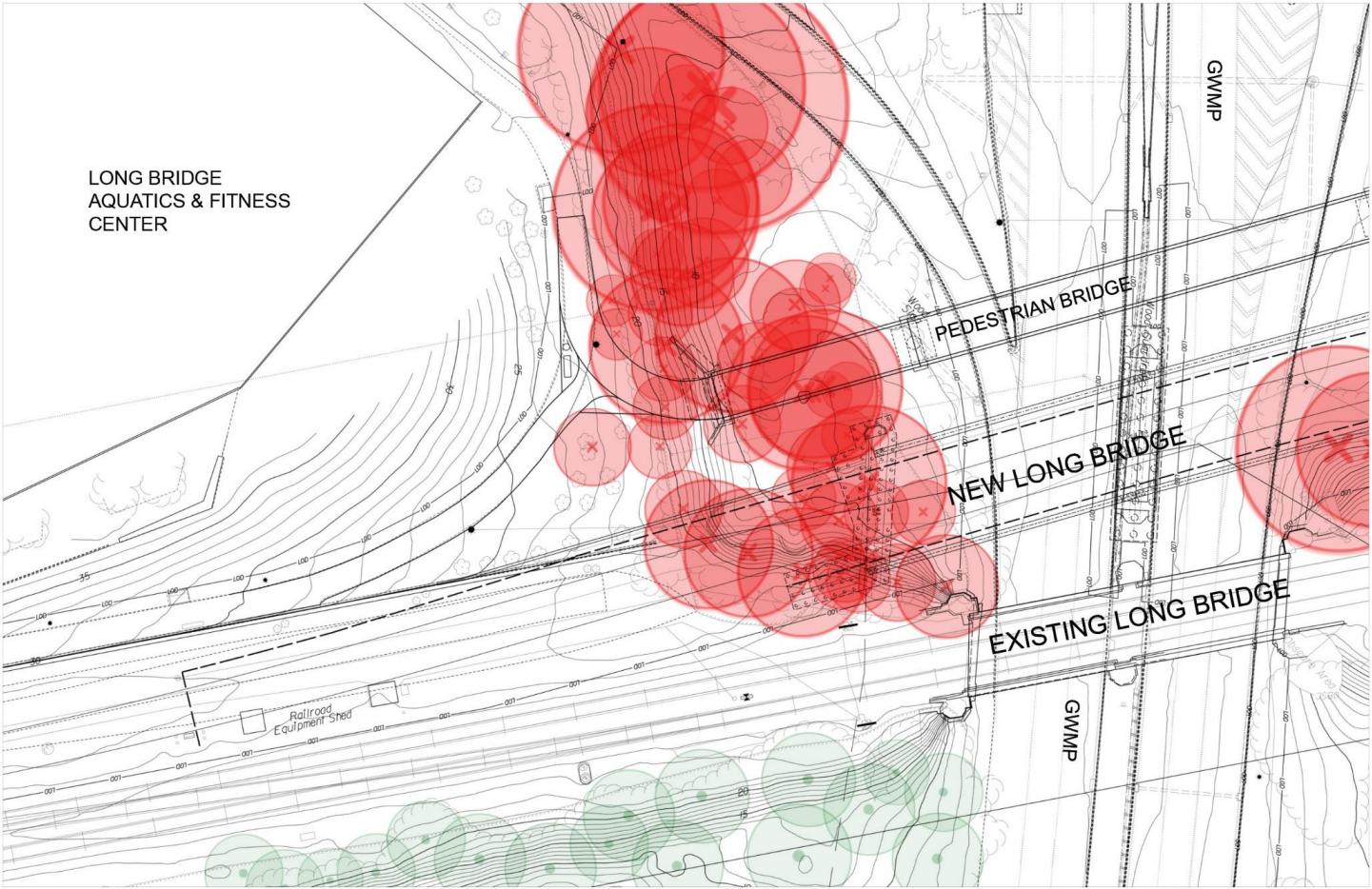
TREE TO BE REMOVED
AS PART OF LBS
PROJECT



TREE TO REMAIN



TREE TO BE REMOVED
AS PART OF LBN
PROJECT



SITE A TREE PRESERVATION AND REMOVAL



RIGHT: DIAGRAM ILLUSTRATING TREES TO BE PROTECTED AND TREES TO BE REMOVED DUE TO IMPACTS FROM CONSTRUCTION EFFORTS

Site A







SITE A LANDSCAPE AESTHETIC

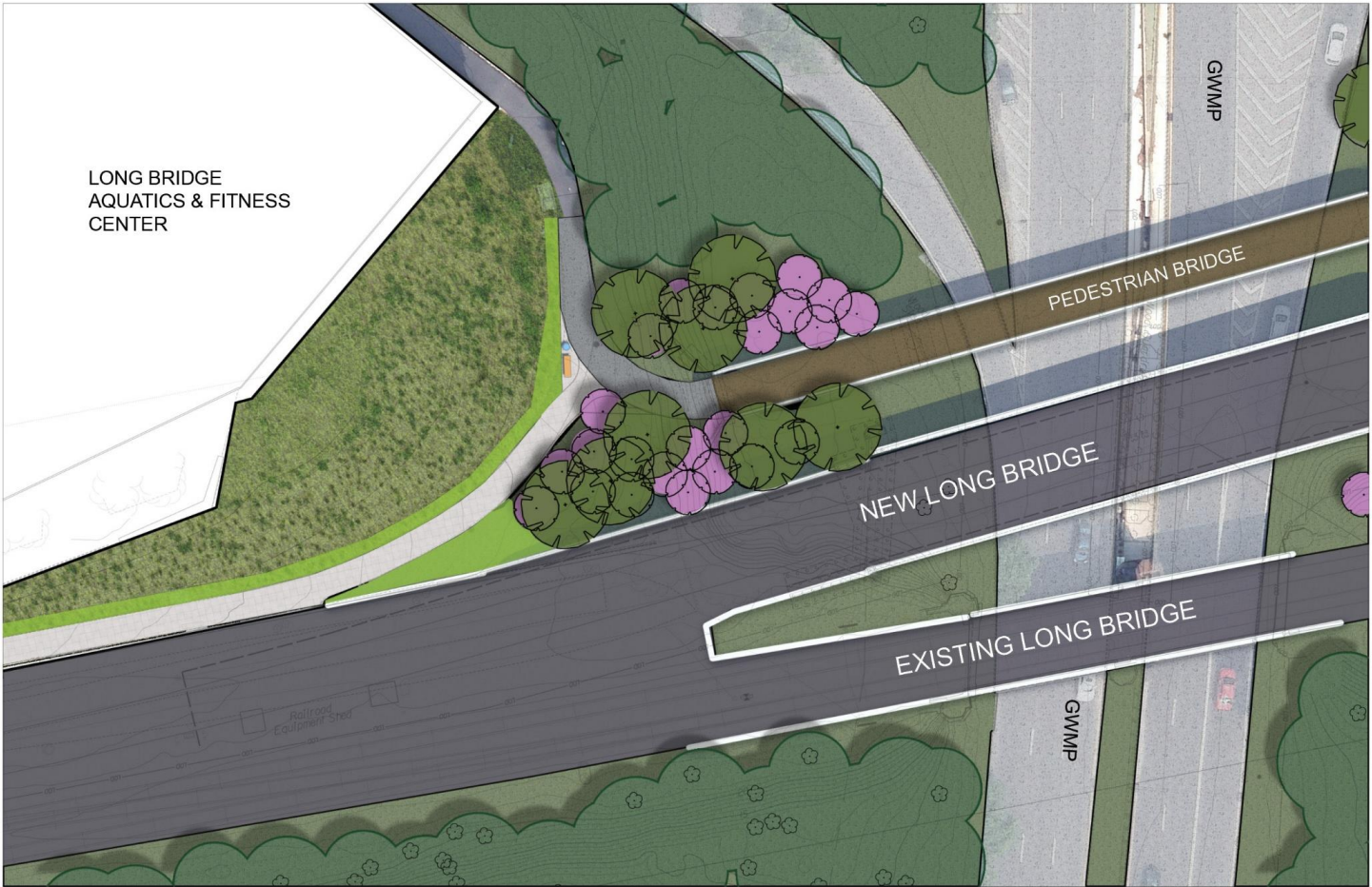


SITE A KEY MAP

The landscaping design intent throughout the project area is to emulate the naturalized clustering and spacing of existing trees throughout the project space, and to plant a diverse range of tree sizes to recreate the successional nature of the existing space. Trees are clustered and spaced to provide views through the trees and to the proposed bridges and walls within the landscape. The design is intended to be consistent with the proposed planting and aesthetic on the Long Bridge North Project, producing one cohesive landscaped corridor.

RIGHT: Illustrative plan showing the proposed landscape conditions throughout Site A.

LEGEND	
	CANOPY TREE
	MEDIUM TREE
	EVERGREEN TREE
	SHRUB
	PERENNIALS AND GRASSES
	EXISTING TREE TO REMAIN

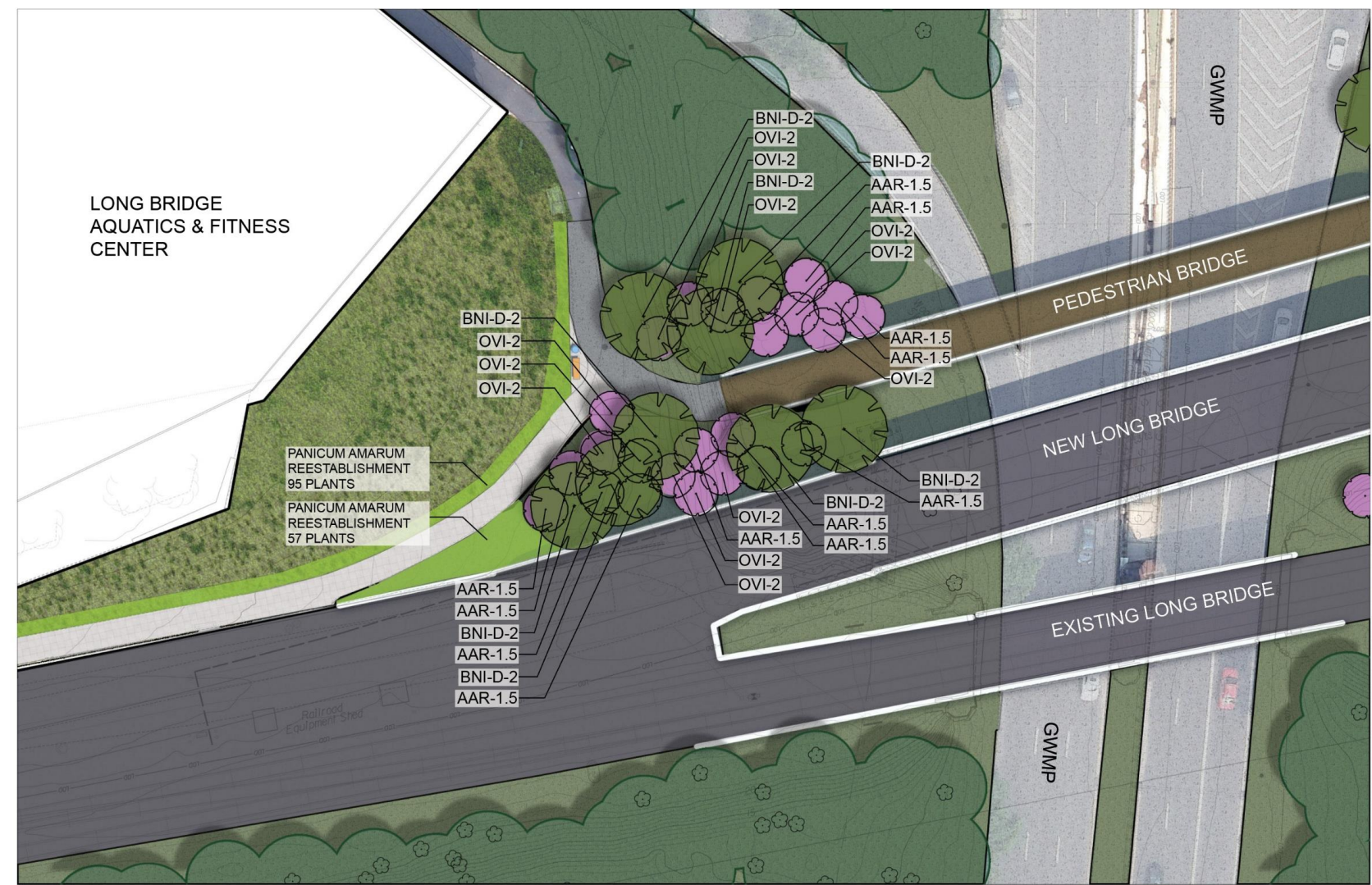


SITE A PROPOSED PLANTING



Site A

SITE A LANDSCAPE AESTHETIC



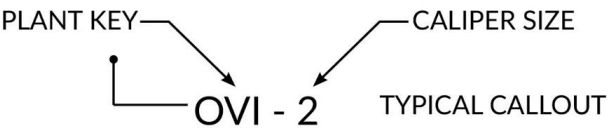
SITE A LANDSCAPE PLAN



SITE A KEY MAP

TOP LEFT: Plan illustrating proposed tree species and caliper sizes throughout the Site A, adjacent to the Long Bridge Aquatic Center, where the proposed pedestrian bridge meets the existing trail.

BOTTOM LEFT: Schedule of proposed tree species. The historic reference column identifies the basis of selection



LEGEND	
	CANOPY TREE
	MEDIUM TREE
	EVERGREEN TREE
	SHRUB
	PERENNIALS AND GRASSES
	EXISTING TREE TO REMAIN

NOTE: No pollinator species, including shrubs or herbaceous species, are present at this site. Site D showcases pollinator species, and a schedule with bloom time and mix of native species is shown on a later slide.

PLANT SCHEDULE						
Key	Quantity	Botanical name	Common name	Size	Root (Depth/Diameter)	Historical Justification
CANOPY TREES						
BNI-D	8	<i>Betula nigra</i> ; Duraheat	River Birch	2" caliper	14 3/8 in. / 24 in.	Bridges Area Species: 1971, as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report
UNDERSTORY TREES						
AAR	12	<i>Amelanchier arborea</i>	Downy Serviceberry	6-7' HT.	N/A / 24 in.	Bridges Area Species: 1932, as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report
OVI	12	<i>Ostrya virginica</i>	Hop Hornbeam	2" caliper	15 5/8 in. / 24 in.	
ORNAMENTAL GRASSES						
PAM	152	<i>Panicum amarum</i>	Bitter Switchgrass	24"-36" wide		

Site B

SITE B TREE PRESERVATION



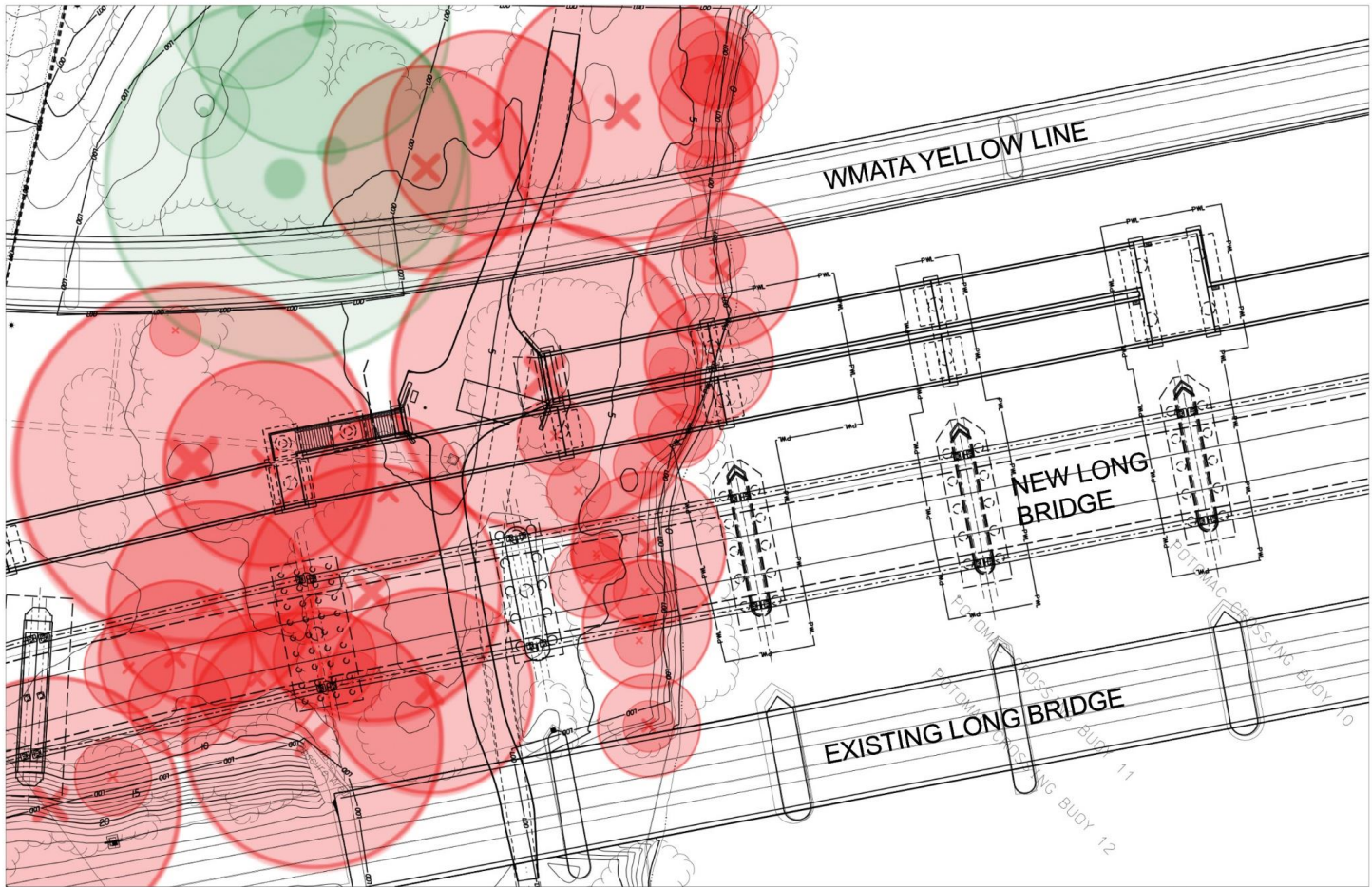
SITE B KEY MAP

LEGEND

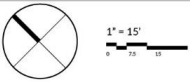
TREE TO BE REMOVED
AS PART OF LBS
PROJECT

TREE TO REMAIN

TREE TO BE REMOVED
AS PART OF LBN
PROJECT



SITE B TREE PRESERVATION AND REMOVAL



RIGHT: DIAGRAM ILLUSTRATING TREES TO BE PROTECTED AND TREES TO BE REMOVED DUE TO IMPACTS FROM CONSTRUCTION EFFORTS

Site B



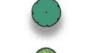
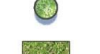

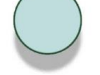
SITE B LANDSCAPE AESTHETIC

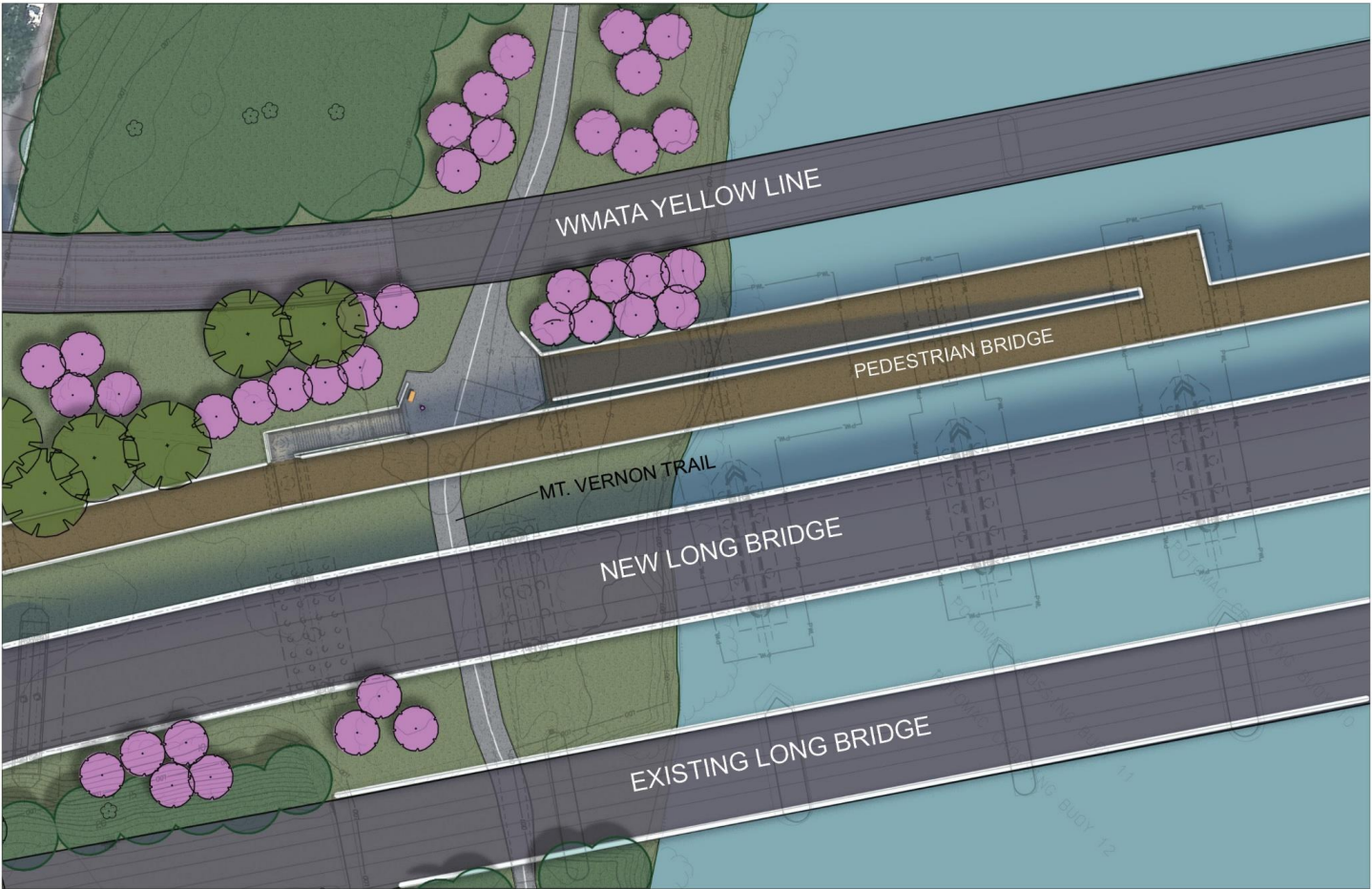


SITE B KEY MAP

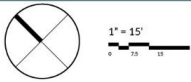
RIGHT: Illustrative plan showing the proposed landscape conditions throughout Site B.

LEGEND

-  CANOPY TREE
-  MEDIUM TREE
-  EVERGREEN TREE
-  SHRUB
-  PERENNIALS AND GRASSES
-  EXISTING TREE TO REMAIN

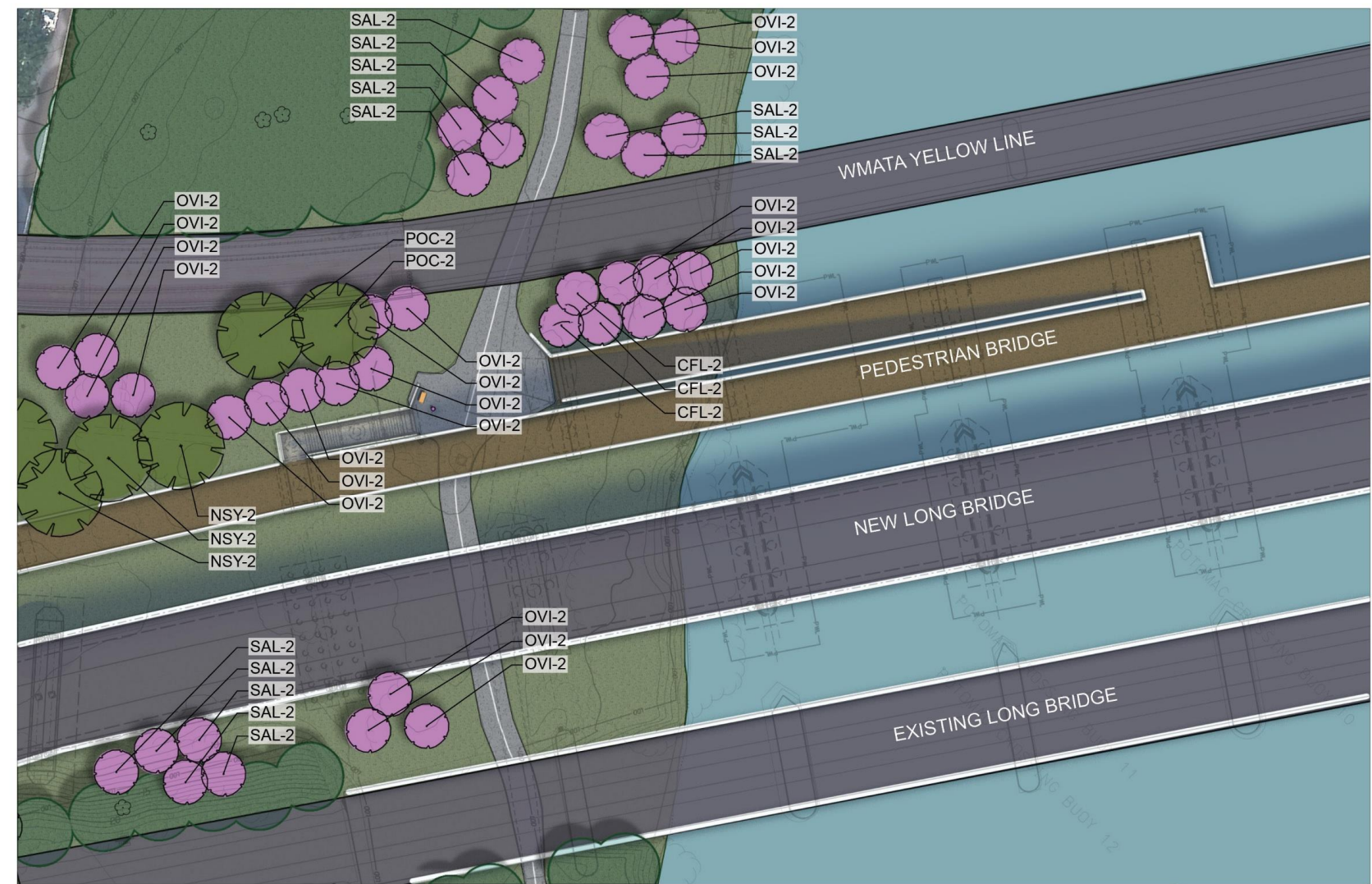


SITE B PROPOSED PLANTING



Site B

SITE B LANDSCAPE AESTHETIC



SITE B LANDSCAPE PLAN

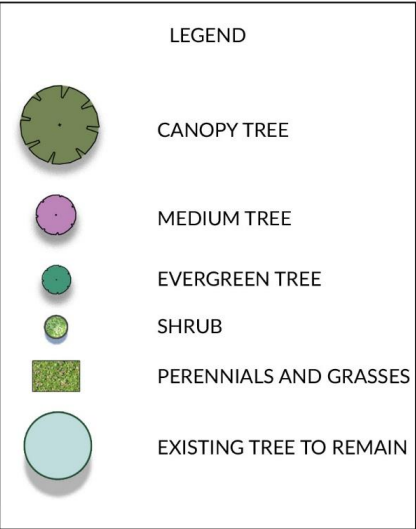
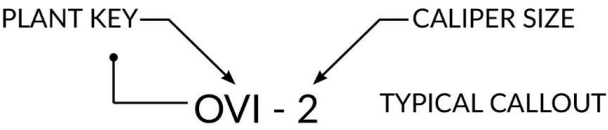
PLANT SCHEDULE						
Key	Quantity	Botanical name	Common name	Size	Root (Depth/Diameter)	Historical Justification
CANOPY TREES						
NSY	3	<i>Nyssa sylvatica</i>	Black Gum	2" caliper	14 3/8 in. / 24 in.	The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report recommended native alternatives and replacement for <i>Broussonetia papyrifera</i> and <i>Morus alba</i>
POC	2	<i>Platanus occidentalis</i>	American Sycamore	2" caliper	14 3/8 in. / 24 in.	Bridges Area Species: 1932, as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report. Replace with p. occidentalis
UNDERSTORY TREES						
CFL	3	<i>Cornus florida</i>	Flowering Dogwood	2" caliper	15 5/8 in. / 24 in.	Bridges Area Species: 1932, 79, 31, 8, as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report.
OVI	11	<i>Ostrya virginica</i>	Hop Hornbeam	2" caliper	15 5/8 in. / 24 in.	Bridges Area Species: 1932, as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report.
SAL	13	<i>Sassafras albidum</i>	Sassafras	2" caliper	15 5/8 in. / 24 in.	The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report recommended native alternatives and replacement for <i>Broussonetia papyrifera</i> and <i>Morus alba</i>



SITE B KEY MAP

TOP LEFT: Plan illustrating proposed tree species and caliper sizes throughout the Site B, along the Mount Vernon Trail, where the proposed pedestrian bridge crosses the trail, and the ramp and stairs join with the trail elevation.

BOTTOM LEFT: Schedule of proposed tree species. The historic reference column identifies the basis of selection



NOTE: No pollinator species, including shrubs or herbaceous species, are present at this site. Site D showcases pollinator species, and a schedule with bloom time and mix of native species is shown on a later slide.

Site C

SITE C TREE PRESERVATION



SITE C KEY MAP

LEGEND

TREE TO BE REMOVED
AS PART OF LBS
PROJECT

TREE TO REMAIN

TREE TO BE REMOVED
AS PART OF LBN
PROJECT



SITE C TREE PRESERVATION AND REMOVAL

RIGHT: DIAGRAM ILLUSTRATING TREES TO BE PROTECTED AND TREES TO BE REMOVED DUE TO IMPACTS FROM CONSTRUCTION EFFORTS

Site C


SITE C LANDSCAPE AESTHETIC




SITE C KEY MAP

RIGHT: Illustrative plan showing the proposed landscape conditions throughout Site C.


LEGEND




CANOPY TREE




MEDIUM TREE




EVERGREEN TREE



SHRUB



PERENNIALS AND GRASSES



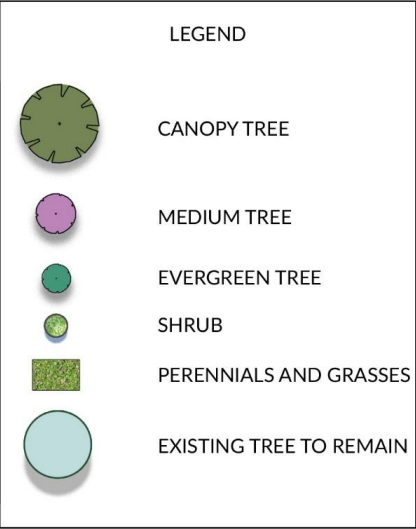
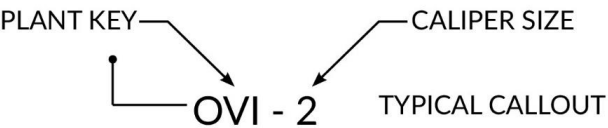
EXISTING TREE TO REMAIN



SITE C PROPOSED PLANTING

Site C

SITE C LANDSCAPE AESTHETIC



SITE C KEY MAP

TOP LEFT: Plan illustrating proposed tree species and caliper sizes throughout the Site C, adjacent to the Mount Vernon Trail and the Gravelly Point Park.

BOTTOM LEFT: Schedule of proposed tree species. The historic reference column identifies the basis of selection

PLANT SCHEDULE						
Key	Quantity	Botanical name	Common name	Size	Root (Depth/Diameter)	Historical Justification
CANOPY TREES						
LTU	6	<i>Liriodendron tulipifera</i>	Tulip Tree	2" caliper	14 3/8 in. / 24 in.	Bridges Area Species: 1969 (GWMP CLR), as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report.
POC	3	<i>Platanus occidentalis</i>	American Sycamore	2" caliper	14 3/8 in. / 24 in.	Bridges Area Species: 1932, as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report. Replace with p. occidentalis
QPA	2	<i>Quercus palustris</i>	Pin Oak	2" caliper	14 3/8 in. / 24 in.	Bridges Area Species: 1980 (GWMP CLR), as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report.
QPH	3	<i>Quercus phellos</i>	Willow Oak	2" caliper	14 3/8 in. / 24 in.	Bridges Area Species: 1932, 1971, 1974, 1980 (GWMP CLR), as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report.
TAM	6	<i>Tilia americana</i>	American Linden	2" caliper	14 3/8 in. / 24 in.	The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report recommended native alternatives and replacement for Broussonetia papyrifera.
UNDERSTORY TREES						
CCA	3	<i>Cercis canadensis</i>	Eastern Redbud	2" caliper	15 5/8 in. / 24 in.	Bridges Area Species: 1969, 1974, 1980 (GWMP CLR), as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report.
CPH	7	<i>Crataegus phaenopyrum</i>	Washington Hawthorn	2" caliper	N/A / 24 in.	Bridges Area Species: 1932, 1969 (GWMP CLR), as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report.
CVI	16	<i>Chionanthus virginicus</i>	White Fringetree	2" caliper	15 5/8 in. / 24 in.	Bridges Area Species: 1932 (GWMP CLR), as defined in The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report.
SAL	5	<i>Sassafras albidum</i>	Sassafras	2" caliper	15 5/8 in. / 24 in.	The Vegetation of the George Washington Memorial Parkway Central Section: Alexandria to Arlington Memorial Bridge Cultural Landscape Report recommended native alternatives and replacement for Broussonetia papyrifera and Morus alba

SITE C LANDSCAPE PLAN

NOTE: No pollinator species, including shrubs or herbaceous species, are present at this site. Site D showcases pollinator species, and a schedule with bloom time and mix of native species is shown on a later slide.



Site D

SITE D TREE PRESERVATION



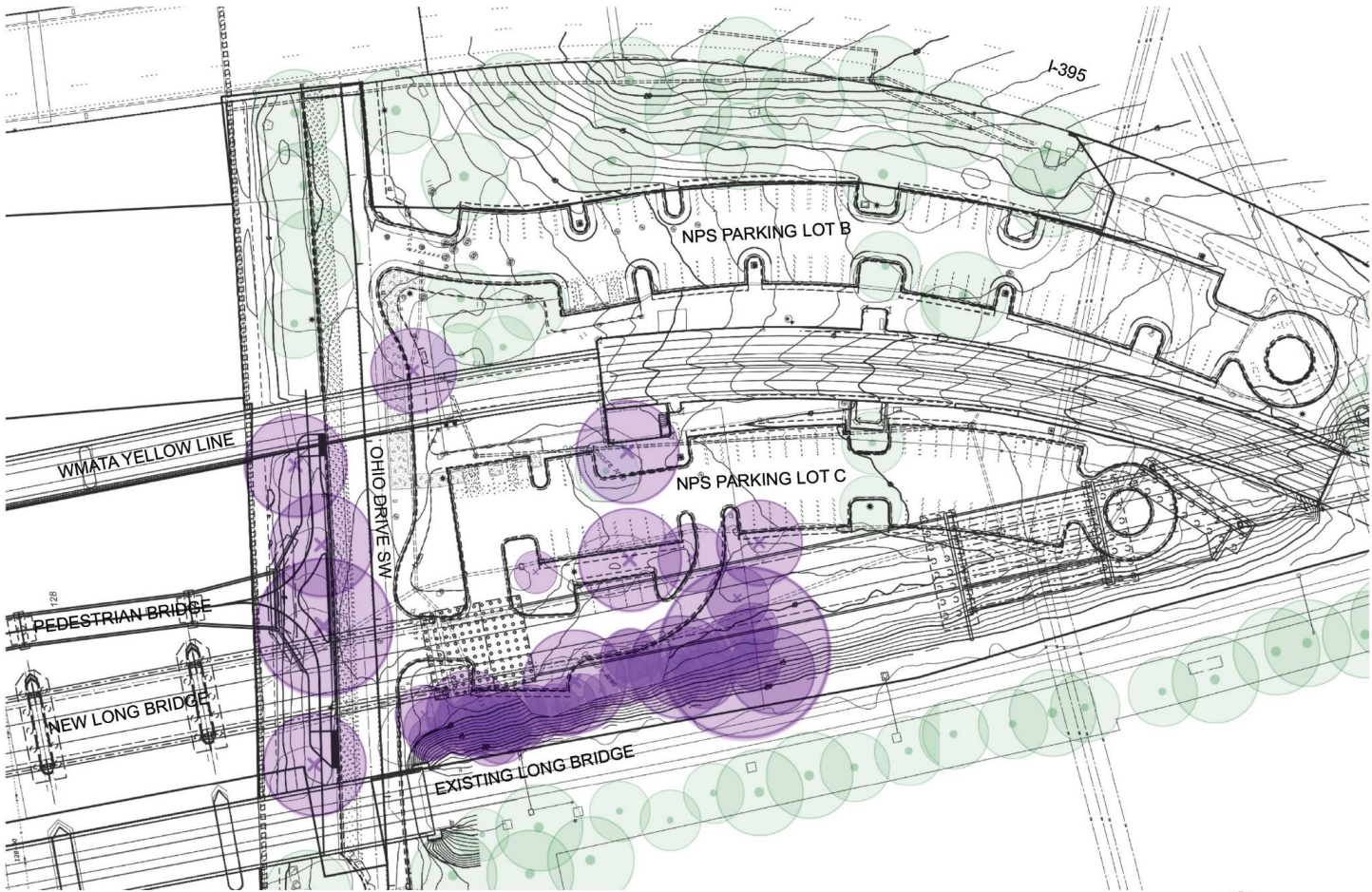
SITE D KEY MAP

LEGEND

TREE TO BE REMOVED
AS PART OF LBS
PROJECT

TREE TO REMAIN

TREE TO BE REMOVED
AS PART OF LBN
PROJECT



SITE D TREE PRESERVATION AND REMOVAL

RIGHT: DIAGRAM ILLUSTRATING TREES TO BE PROTECTED AND TREES TO BE REMOVED DUE TO IMPACTS FROM CONSTRUCTION EFFORTS

Site D

SITE D LANDSCAPE AESTHETIC



SITE D KEY MAP

RIGHT: Illustrative plan showing the proposed landscape conditions throughout Site D. Trees to be planted as part of LBN project are shown in transparency.

LEGEND

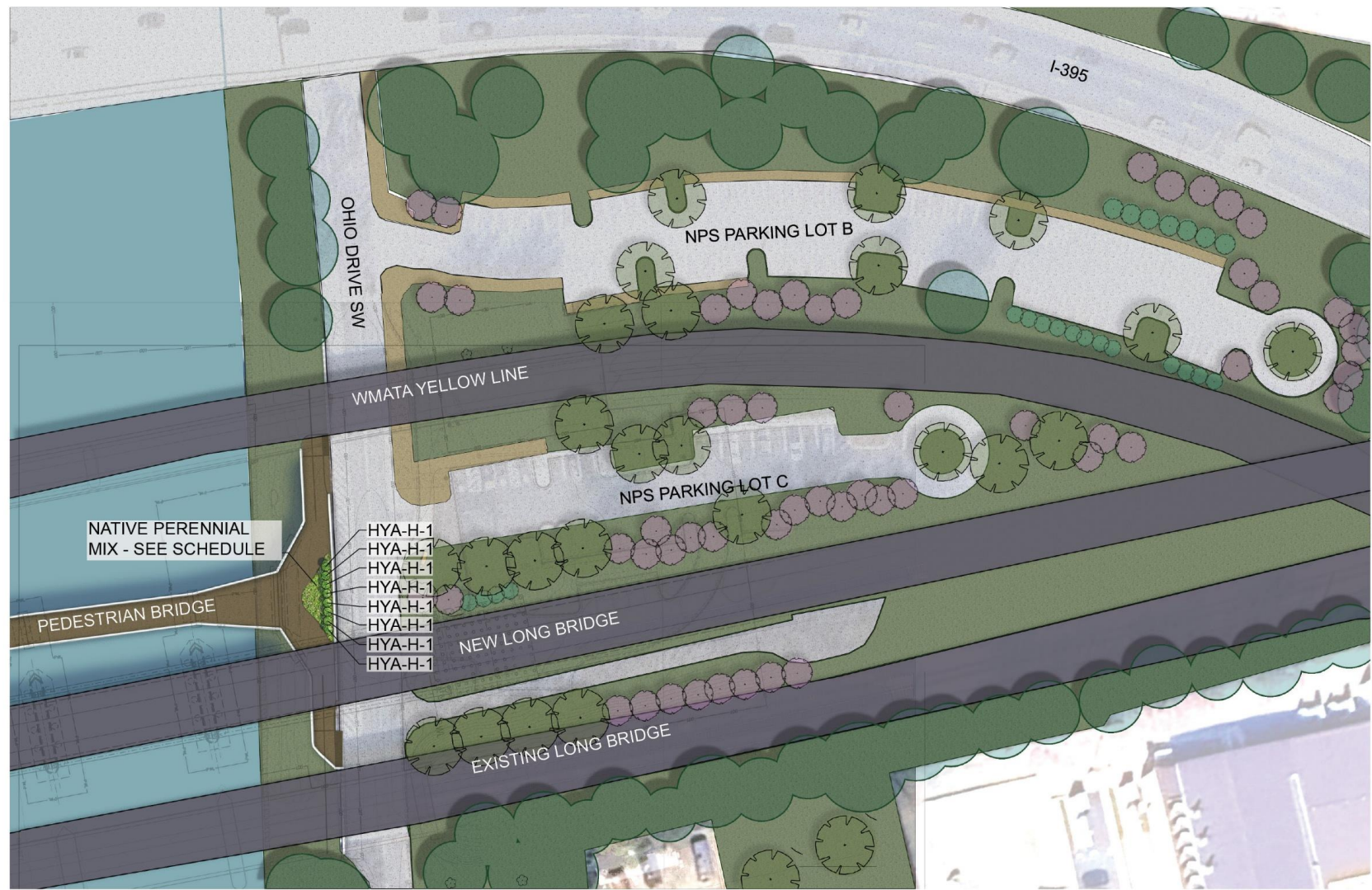
- CANOPY TREE
- MEDIUM TREE
- EVERGREEN TREE
- SHRUB
- PERENNIALS AND GRASSES
- EXISTING TREE TO REMAIN



SITE D PROPOSED PLANTING

Site D

SITE D LANDSCAPE AESTHETIC



SITE D LANDSCAPE PLAN

PLANT SCHEDULE					
Key	Quantity	Botanical name	Common name	Size	Root (Depth/Diameter)
SHRUBS					
HYA-H	8	Hydrangea arborescens ; 'Haas' Halo'	Haas Halo Hydrangea	4-5' HT.	15 1/2 in. / 26 in.
HERBACEOUS PERENNIALS					
ASI	6	Asclepias incarnata	Swamp Milkweed	12-24" HT. / 12-18" WD.	
PAV	7	Panicum virgatum	Switch grass	36-48" HT. / 24-36" WD.	
PYM	14	Pycnanthemum muticum	Clustered Mountain Mint	24-36" HT. / 12-18" WD.	12-18 in. / N/A
RUF-S	8	Rudbeckia fulgida var. sullivantii	Orange Coneflower	36-48" HT. / 24-36" WD.	



SITE D KEY MAP

TOP LEFT: Plan illustrating proposed tree species and caliper sizes throughout the Site D, adjacent to Ohio Drive, where the proposed pedestrian bridge meets the existing trail. This is also where the project meets the LBN project. Planting as part of the LBN project is shown in transparency.

BOTTOM LEFT: Schedule of proposed tree species. The historic reference column identifies the basis of selection

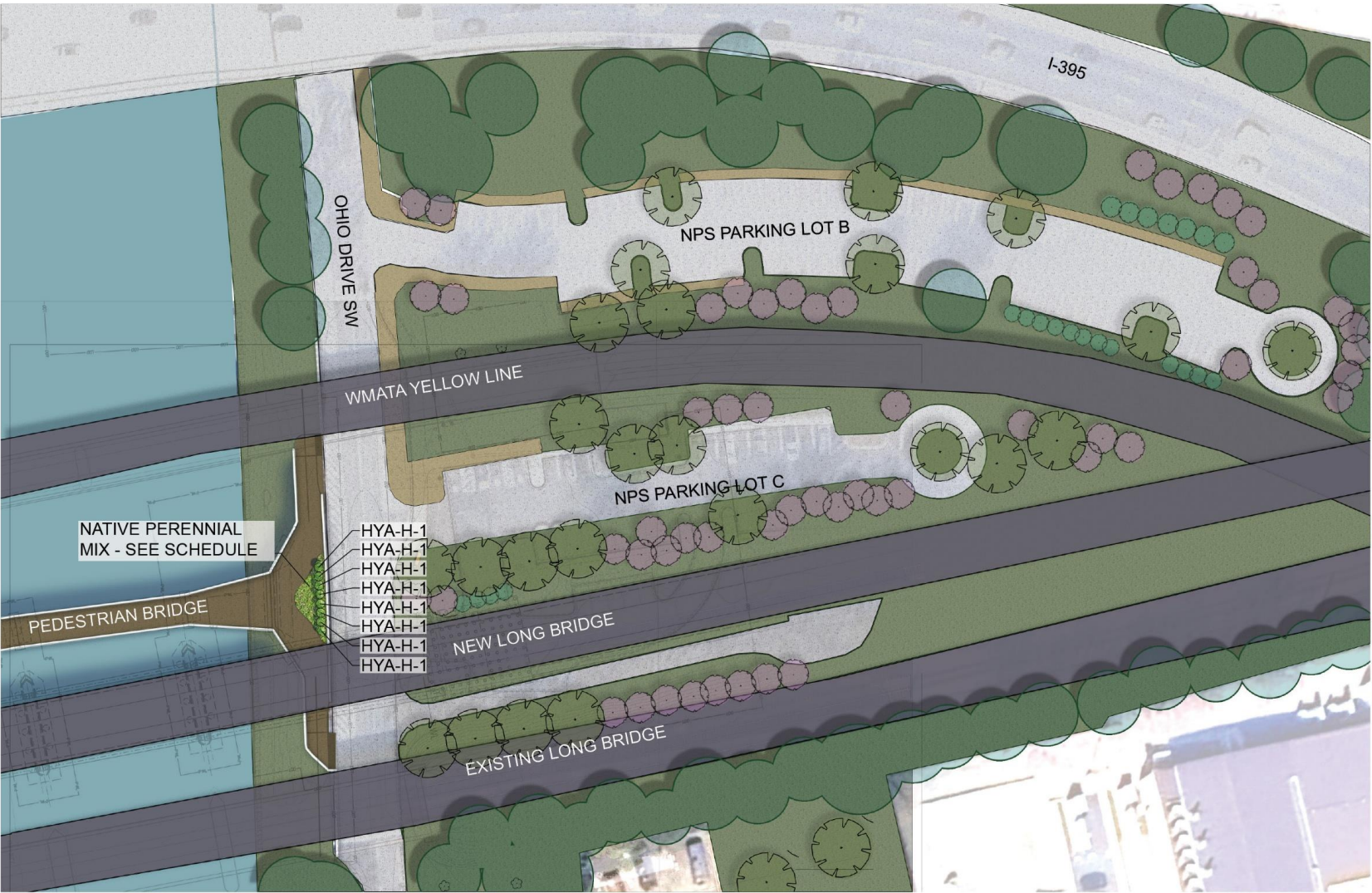
PLANT KEY
CALIPER SIZE
OVI - 2
TYPICAL CALLOUT

LEGEND	
	CANOPY TREE
	MEDIUM TREE
	EVERGREEN TREE
	SHRUB
	PERENNIALS AND GRASSES
	EXISTING TREE TO REMAIN

NOTE: This site, Site D, showcases pollinator species, and a schedule with bloom time and mix of native species is shown on a later slide.

Site D

SITE D LANDSCAPE AESTHETIC



SITE D LANDSCAPE PLAN



SITE D KEY MAP

TOP LEFT: Plan illustrating proposed pollinator species within the proposed planting area at the terminus of the pedestrian bridge near Ohio Drive. Planting as part of the LBN project is shown in transparency.

BOTTOM LEFT: Schedule of proposed species fit for proposed conditions and chart illustrating bloom times for each proposed species.

PLANT SCHEDULE				POLLINATOR SCHEDULE													
Key	Quantity	Botanical name	Common name	Bloom Time													
SHRUBS				Early Spring	Mid Spring	Late Spring	Early Summer	Mid Summer	Late Summer	Early Autumn	Mid Autumn	Late Autumn	Early Winter	Mid Winter	Late Winter		
HYA-H	8	<i>Hydrangea arborescens</i> ; 'Haas' Halo'	Haas Halo Hydrangea														
HERBACEOUS PERENNIAL MIX																	
ASI	6	<i>Asclepias incarnata</i>	Swamp Milkweed														
PAV	7	<i>Panicum virgatum</i>	Switch grass														
PYM	14	<i>Pycnanthemum muticum</i>	Clustered Mountain Mint														
RUF-S	8	<i>Rudbeckia fulgida</i> var. <i>sullivantii</i>	Orange Coneflower														

LEGEND

CANOPY TREE

MEDIUM TREE

EVERGREEN TREE

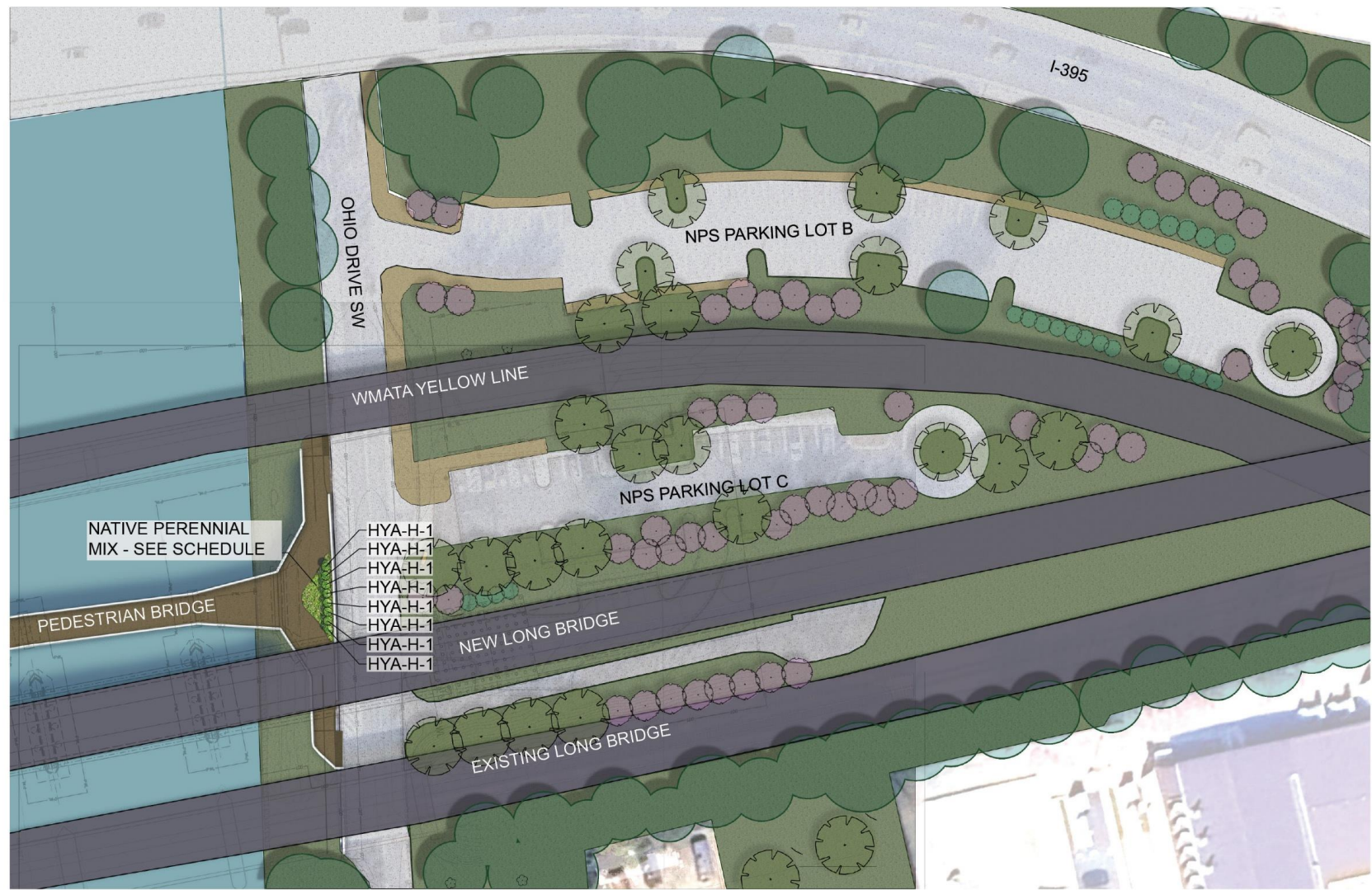
SHRUB

PERENNIALS AND GRASSES

EXISTING TREE TO REMAIN

Site D

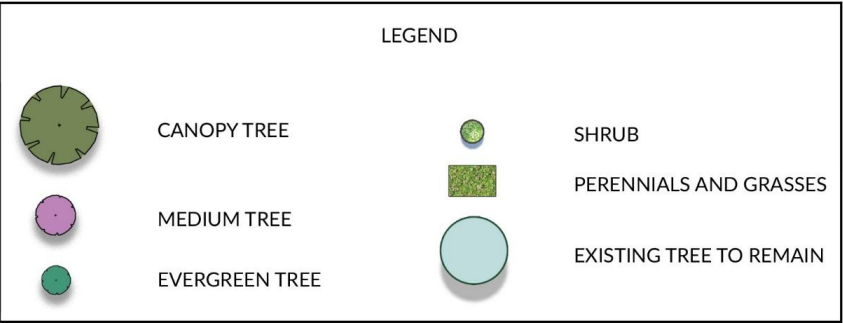
SITE D LANDSCAPE AESTHETIC



SITE D LANDSCAPE PLAN

TOP LEFT: Plan illustrating proposed pollinator species within the proposed planting area at the terminus of the pedestrian bridge near Ohio Drive. Planting as part of the LBN project is shown in transparency.

BOTTOM RIGHT: Native species composition breakdown for proposed planting area at the terminus of the pedestrian bridge near Ohio Drive..



SITE D KEY MAP

PROPOSED PLANTING COMPOSITION

