

community | safety | mobility | maintainability



SR-836/I-395 from West of I-95 to MacArthur Causeway Bridge
I-95 Pavement Reconstruction
I-95 Southbound to SR-836 Westbound
SR-836 from West of NW 17th Avenue to Midtown Interchange (SR-836/I-395/I-95)
Aesthetic Volume 2: Proposer's Aesthetic Manual

FDOT DISTRICT 6

Aesthetic Volume 2:
Proposer's Aesthetic
Manual

SR-836/I-395/I-95

Financial Projects Number(s): I-395 Reconstruction 251688-1-52-01 (F.A.P. 3951-501-1)
I-95 Pavement Reconstruction 429300-2-52-01 (F.A.P. 0951-685-1)
I-95 SB to SR-836 WB Connector 423126-2-52-01
MDX 423126-1-52-01
Miami Dade Water & Sewer 251688-1-56-02
MDX Work Program Number: 83611
Contract Number: E-6J53

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INTRODUCTION



Miami's Fountain Signature Bridge - Gateway to the Americas. View from (Pérez Art Museum Miami (PAMM), looking West.

CONNECTING MIAMI

The SR-836/I-395/I-95 project presents a unique opportunity to transform Miami and benefit the community for years to come. This legacy project includes the iconic Signature Bridge over Biscayne Boulevard, community enhancements below I-395, and highway capacity improvements that improve mobility and safety.

For nearly three years, we have been meeting with key stakeholders including Florida Department of Transportation (FDOT), Miami-Dade Expressway Authority (MDX), the City of Miami, Miami-Dade County, the Overtown Community Redevelopment Agency (OCRA), and the Adrienne Arsht Performing Arts Center (AAPAC) to achieve a better understanding of each party's objectives. The Archer Western-deMoya Joint Venture (AW-dMG) Team has approached this project with the goal of delivering a state of the art infrastructure project that connects Miami. Our lead contractors Archer Western Contractors, LLC

(AW) and the deMoya Group, Inc. (dMG) are American, family-owned businesses that are trusted to provide world class construction resources for safe and on-time project delivery. In addition to our engineering leads HDR, Inc., RS&H, Inc., and Metric Engineering, Inc., the AW-dMG Team includes urban designers PlusUrbia, Ronald E. Frazier & Associates (Frazier), Neil Hall, AIA (Hall) and Design2Form (D2F). PlusUrbia has key local knowledge, having recently assisted the AAPAC with their vision for the plaza under the bridge. Frazier, Hall, and D2F are local DBE/SBE firms that are strongly committed to rejuvenating the Overtown Community. FDOT, MDX, OCRA, AAPAC, and the community can have confidence of unmatched design and construction expertise in the AW-dMG Team.

MAJOR OBJECTIVES

We have identified four major objectives that resonate throughout this project: Community, Safety, Mobility, and Maintainability. These goals have served as our guiding

principles when developing our comprehensive project approach, ATCs, APTes, and other enhancements.

PROPOSAL ORGANIZATION AND CRITERIA

We have provided detailed information about our aesthetic approach throughout this proposal, organizing the proposal in accordance with the Evaluation Criteria, while adhering to the RFP requirements. A thorough Design Intent section details our vision and how it was developed, followed by discussion and renderings of the aesthetic Zones. We included a summary of the evaluation criteria and detailed how our team's design meets and exceeds all of the requirements of this project at the conclusion of this document. The renderings and graphics throughout this proposal, and our attached Aesthetics Master Plan (AMP) roll plots, provide our vision of Miami's future that includes the Heritage Trail and the Fountain Signature Bridge.

KEY PROJECT OBJECTIVES

- COMMUNITY
- SAFETY
- MOBILITY
- MAINTAINABILITY

DESIGN INTENT



View of Heritage Trail from North Miami Avenue looking East - Heritage Trail commemorates Miami's history and connects communities

The Heritage Trail is a once-in-a-lifetime legacy urban space that embraces Miami's unique diversity.

INSPIRATION

The Heritage Trail sits at the heart of Miami, at a signature bridge that symbolizes Miami's location as the Center of the Americas. While the I-395 bridge's fountain-like arches are symbolic of Miami as the place where people from all backgrounds come together, the Trail is the actual place where that diversity meets to walk, exercise, play, bike, people watch, be entertained, and enjoy an oasis in the center of the international city.

Miami has long been a place of rebirth and renewal – a city pulsing with the energy of dozens of immigrant communities creating a better life for their families among the sun, sand, and sea of the subtropics. It is fitting that the Trail will serve to heal and reconnect communities long divided. The Fountain Signature Bridge design creates 55 acres of urban space that will re-stitch Overtown, Downtown, Omni, and Edgewater to each other. Once physically divided by infrastructure, these communities will now be united and embraced by a Trail that celebrates their unique culture and heritage.

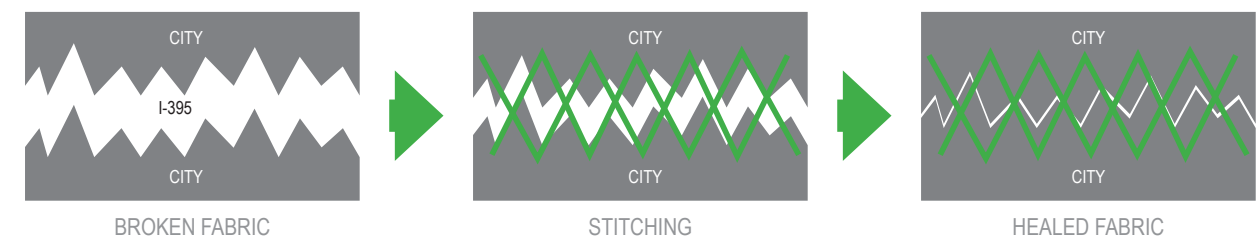
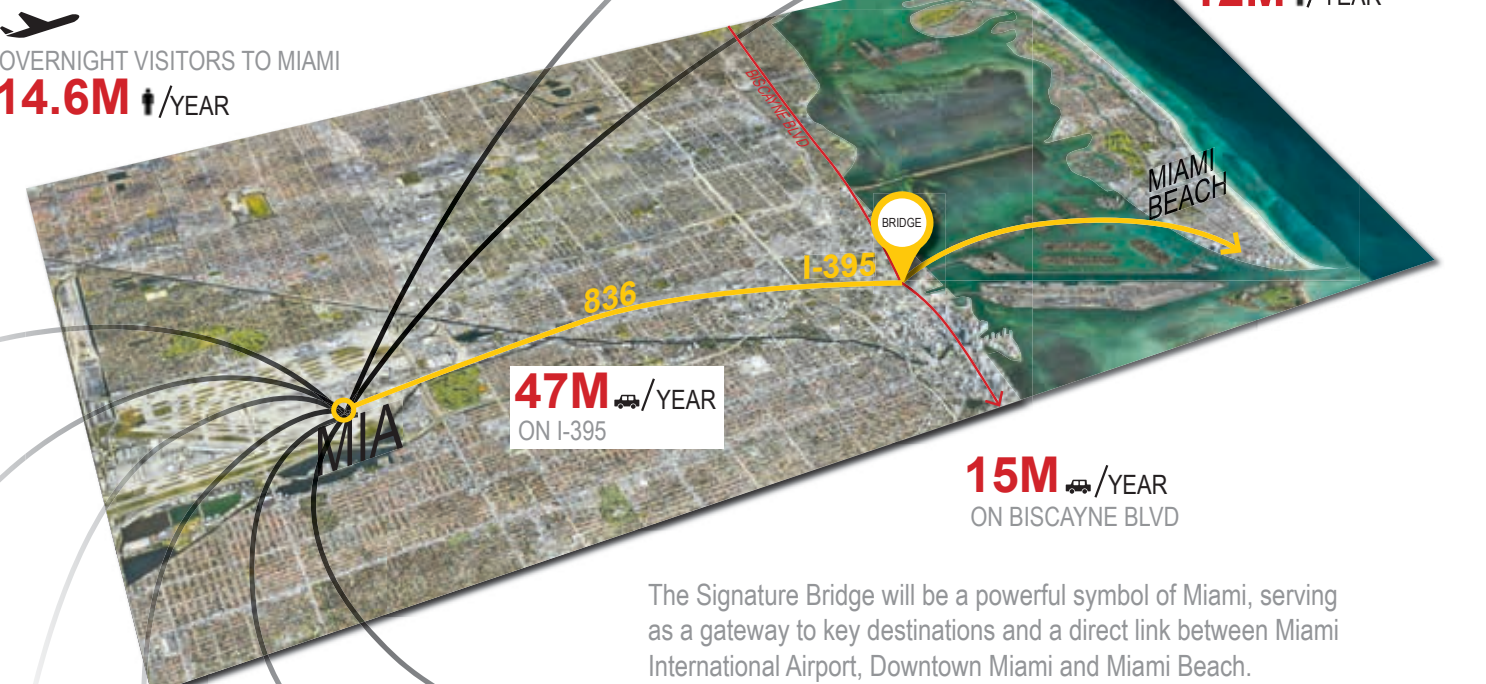
CONNECTIVITY

Connectivity is a strong element of the Heritage Trail. There is no main entrance or central attraction. Every segment of the more than mile-long community gathering place is a crucial element of this urban amenity. Historic Overtown will be directly connected to Miami's waterfront via the Trail that serves as a spine linking east to west and west to east. More than 90% of the Trail is designed for people. Our design utilizes a bridge instead of the earth plug in Zone 2, allowing the Trail to be truly continuous from west to east, connecting Overtown to Biscayne Boulevard.











DESTINATION

The Heritage Trail creates a pedestrian destination at the center of things in the heart of the Americas. Sadly, for decades much of the space under the bridge has been gloomy, isolated and neglected. Our design lets the sun shine in and opens the land up to a seamless parade of passive and active attractions. Grand interactive water features, a shaded urban forest, a multipurpose court, dog play area, people watching promenades and a pedestrian bridge are but a fraction of the jewels that will adorn this greenway of the Americas.

DESIGN INTENT



Streetscape improvements along north-south avenues further help connect communities across the corridor, and bridge long-standing divides between historically connected communities.

The Greenway	Heritage Trail	The High Line	Under Gardiner	Millennium Park
				
Boston, MA 1.5 miles 15 acres	Miami, FL 1.2 miles 55 acres	New York City, NY 1.15 miles 6.73 acres	Toronto, Canada 1.0 miles 10 acres	Chicago, IL 935 feet 24.5 acres
				

Public realm improvements along the Heritage Trail are designed to create a memorable destination in a class with other attractions such as Chicago's Millennium Park.

Millennium Park was built by Archer Western (Walsh)

CULTURE/HERITAGE

Miami wouldn't be the growing global destination that it has become without the rich tapestry of ever-evolving cultures that populate its neighborhoods and give it a heartbeat like no place else on earth. African, Latin, Caribbean, and other cultures are celebrated on the Trail. Miami's heritage -- including the Tequesta Native Americans, arrival of Henry Flagler's railway and diaspora of many cultures that create Miami's rich multicultural flavor -- will be honored with art, sculpture and design. Each zone has been designed to celebrate its heritage within the context of Miami's legacy. public art. A community garden, farmer's market, amphitheater, fountain square, a multipurpose court and play areas are among the many amenities in the active urban space.

THEMES & KEY FEATURES

The design team followed a holistic process of research, engagement, design development and refinement, while understanding the different contextual realities a mile-long linear open space is subject to. The design of the Heritage Trail was envisioned at a variety of scales to maintain an overarching identity while respecting the nuances of each zone and providing the experiential and design variety.

Design treatments and enhancements were prepared based on a careful evaluation of existing conditions, research into the history of individual communities, institutions and the City of Miami as a whole along the corridor, review of plans and policies, and dialogue with key stakeholders. The resulting understanding of conditions along the corridor and in the

surrounding neighborhoods provides the foundation upon which the team prepared and refined its designs.

The team's plans for improving streetscapes and public spaces along the corridor are guided by the visions and ideas expressed by key stakeholders and by the plans and strategies presented in documents prepared by the City of Miami. Partner agency input was gathered from: the Southeast Overtown-Park West CRA, the OMNI CRA, the Miami Downtown Development Authority (DDA), and the Town Square Community Development Corporation.

Direct engagement with community stakeholders helped to confirm and deepen the team's understanding of visions and

goals expressed in official planning documents, and provided an important foundation for the design effort. Our design responds to the need for improvements that better connect communities and bridge divides; improve livability, health, and sustainability; and provide safe places for informal and formal gathering. The Trail supports context-sensitive investment along the corridor by focusing attention on the unique qualities of Miami's historic urban neighborhoods.

DESIGN - HERITAGE TRAIL

ZONE A

ZONE 1

ZONE 2

ZONE 3

Aerial Perspective Looking Southeast Showing Heritage Trail Connecting Overtown with the Omni District

MIAMI
HERITAGE

HISTORIC OVERTOWN

RAILWAY

LATIN/CARIBBEAN HERITAGE

TEQUESTAS

MIAMI TODAY

The design overview of each zone is described and illustrated in the following pages. Through the Heritage Trail, we have provided visual consistency between all four zones, while providing features that uniquely define the zones and celebrate Miami’s rich heritage. Enhanced landscaping, lighting, and community features are provided throughout, creating an experience like no other.

DESIGN ZONE A



OVERVIEW

Aesthetic treatments in Zone A focus on the reestablishment and enhancement of landscape impacted by new structures and related grading. Existing mature landscape material is protected or relocated where possible. New landscape material is planted in patterns and density sufficient to meet FDOT and community objectives for the creation of bold, visually appealing, and distinctive landscapes. We will also use enhanced MSE wall panels with the installation of Legacy Wall inset artwork panels west of NW 3rd Avenue (D.A. Dorsey Blvd) and new landscape plantings along NW 14th Street west of NW 3rd Avenue to soften the effect of the project on schools and institutions south of the interchange such as the Overtown Youth Center.

Please refer to the details of Zone A in the Aesthetic Master Plan (AMP) roll plots, as well as the baseline enhancement table shown on the right.

BASELINE REQUIREMENTS & ENHANCEMENTS

To meet baseline landscape requirements, a preliminary landscape relocation strategy has been developed with the objective of saving and relocating as many existing trees as possible. Working closely with the District's Landscape Architect, new locations for impacted trees will be identified for relocation and trees are replaced in-kind when relocation is not possible. We will maintain and build on bold landscape design objectives and the visual unity of the interchange.

BASELINE REQUIREMENT	COMPLIANCE
Steel Finish AMP A-5	High Performance Coating System Match existing color
Superstructure AMP A-5	Match existing girders
Piers AMP A-5	Match existing columns
Concrete Finish AMP A-5	FED-STD-595, table VIII, shade No. 36622 per 975
Landscape AMP A-2	Relocate impacted trees Mitigate where necessary

Additional APTE's without a
Baseline Requirement: 16, 61, 64, 78, 99

Total Aggregate Approved APTE's = 5

Please see AMP Roll Plot Sheet A-2 and A-5 for depictions and locations of APTEs, and how baseline requirements are met and significantly exceeded.

LANDSCAPE ENHANCEMENTS

The following enhancements above baseline requirements are incorporated in the project design:

- Vertical clearance was increased from 19' in the FDOT Baseline Concept to 63' with our design.
- Additional landscape material, planted to meet bold landscape design objectives, are located within the Interchange in Zone A in space created by the realignment of the roadway.
- Enhanced landscape plantings are established along the north side of NW 14th Street. This area will be dense with native and Florida friendly trees, shrubs and ground covers to create a visual buffer to the adjacent Youth Center.

OTHER ENHANCEMENTS

Aesthetic enhancements above baseline requirements are described below:

- Enhanced MSE wall panels (APTE 78) are used on the MSE walls west of NW 3rd Avenue to match enhanced treatments on the walls in Zones 2 and 3. The enhanced panels have a relief depth of 3" to maximize visual intrigue and deter graffiti and vandalism. Patterns are intended to give more flexibility in placement to achieve organic shapes and shadows.
- Legacy Wall panels (APTE 99) are located on the MSE walls west of NW 3rd Avenue to mark the western end of the Heritage Trail. The legacy wall panels are attached to the MSE wall and designed in 5'x 5' modules surrounded by MSE panels with custom rustications. The design includes culturally significant panels around the edges and a 3" recessed space in the middle for graphic patterns in ceramic tile.
- White LED lighting is provided to illuminate the vertical surfaces of each of the major abutment walls within the zone. These serve to highlight the verticality of these surfaces and provide additional visual interest.

DESIGN ZONE 1



OVERVIEW

Improvements in Zone 1 incorporate West African cultural symbolism to tell the unique story of Overtown's endurance, achievement, historical significance and cultural heritage. Our improvements in Overtown are designed to advance community goals for the future. A persistent force in the City's evolution, Overtown was founded in 1896 by African American pioneers and Black workers on Henry Flagler's Florida East Coast Railway. Overtown residents built a proud community with a booming economy and a vibrant social life.

To spark renewal, the project introduces new activities and design influences from West Africa and across the Caribbean and the Americas. Kente Cloth colors and Adinkra symbols from West Africa are used to tell stories of Overtown's endurance and achievement. The Heritage Trail, an interactive fountain, plazas, play spaces, and public art bring community history to life. Throughout, African heritage is expressed in bold colors, sculptural art forms, and graphic symbols and patterning.

Please refer to the details of Zone 1 in the AMP roll plots, as well as the baseline enhancement table beginning on page 29.

44' OF ADDITIONAL CLEARANCE UNDER I-395 IN OVERTOWN ABOVE THE RFP BASELINE REQUIREMENT!

OUR CONCEPT REMOVES THE "ROOF" OFF OF ZONE 1 IN OVERTOWN!

COMMUNITY ACTIVITY ENHANCEMENTS



ONLY 19' OF CLEARANCE IN OVERTOWN!

VIEW OF I-395 EASTBOUND FROM THE INTERSECTION OF NW 14TH STREET & NW 3RD AVENUE LOOKING EAST. Low vertical clearance results in constrained areas underneath expressway.



OUR CONCEPT PROVIDES FOR A SIGNIFICANTLY ENHANCED CLEARANCE OF 63'!

D.A. DORSEY URBAN MARKET PLAZA
The D.A. Dorsey Urban Market Plaza is a large public space designed for use for food and craft markets, music performances, and a gathering space for community events and activities. The space takes advantage of the openness and daylight access achieved through raising the height of the mainline.



FOUNTAIN SQUARE
Fountain Square is the centerpiece of the most active stretch of the Heritage Trail in Overtown. This area includes an interactive water feature, a ceremonial area featuring public art and sculpture, and an amphitheater for day and nighttime entertainment.

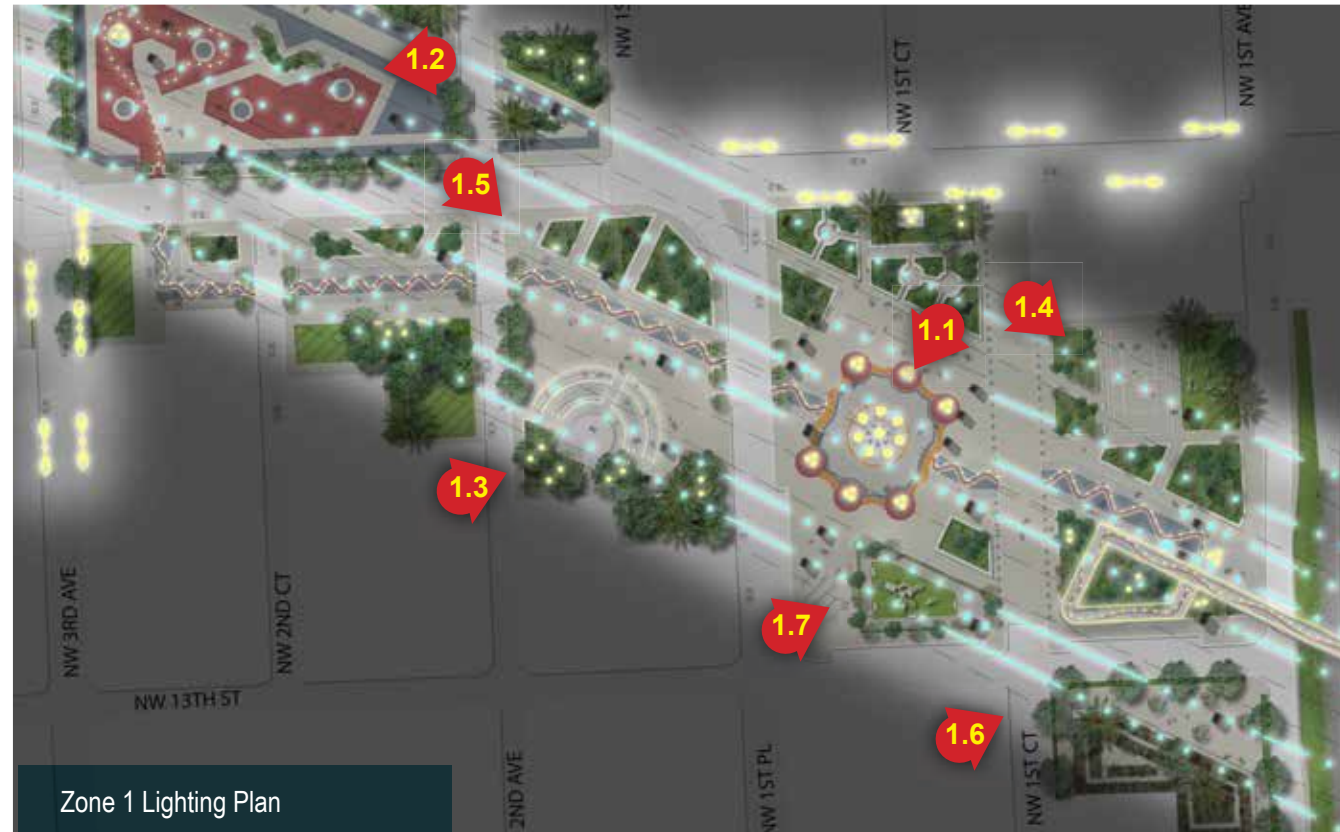


ACTIVITY SPACES

Activity areas along the Heritage Trail include a multipurpose court, adult exercise area and small children's play area; the passive recreation area with historic display walls; and the community garden for growing fresh produce.



DESIGN ZONE 1



**TURN NIGHT
INTO DAY**

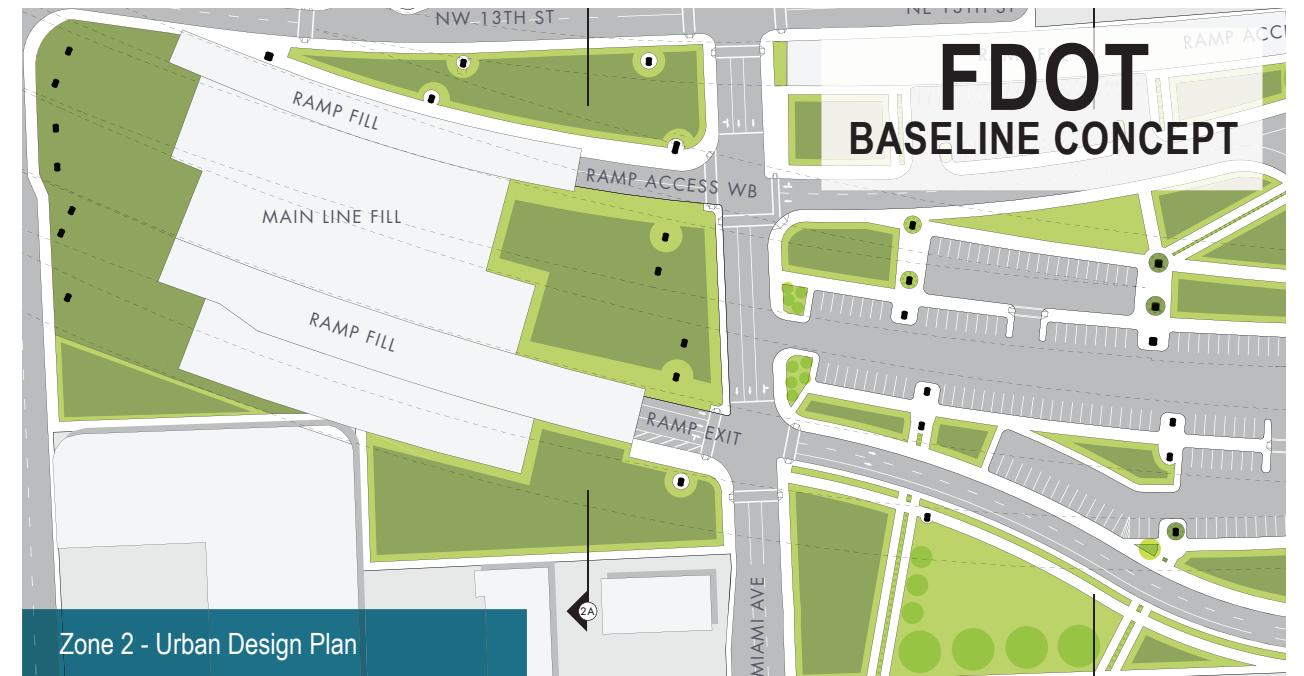
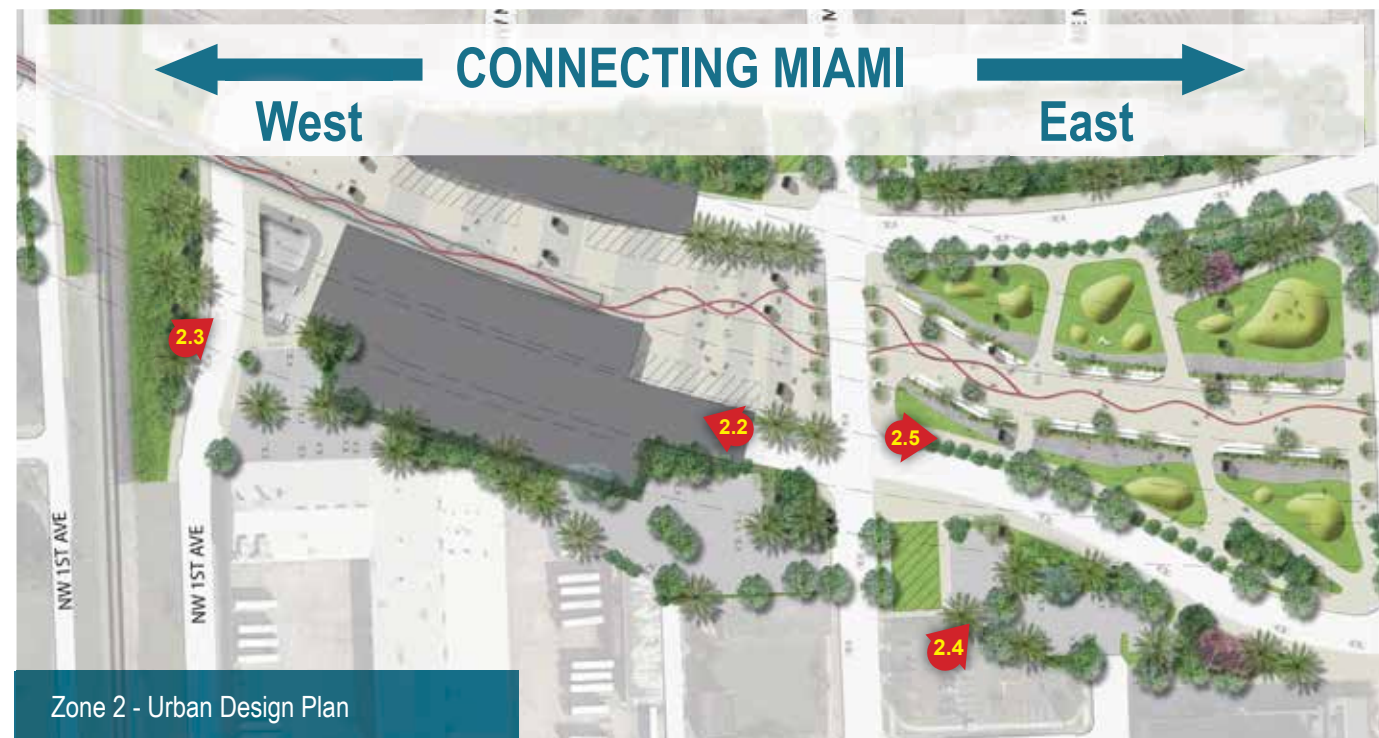
Our design goal for Zone 1 was to increase the vertical clearance of the highway, reduce the number of columns and provide illumination revitalizing Overtown. The combination of these goals has led to an extraordinary level of openness that significantly exceeds the FDOT Baseline concept. Our lighting design was developed to ensure that we minimize the potential for light pollution to adjacent neighbors.

DOUBLE QUANTITY OF TEXTURED PAVEMENT

**PROVIDING 31 APTE's THAT INCLUDE LIGHTING, STREETSCAPES
AND LANDSCAPES AT OVER 120 LOCATIONS**



DESIGN ZONE 2



OVERVIEW

The Heritage Trail in Zone 2 becomes the key link that unifies the entire project into a single experience stitching together the Overtown and Omni Districts. The Heritage Trail in Zone 2 honors both Henry Flagler and Julia Tuttle, as the mother of Miami, by convincing Flagler to extend his railroad South and consequently lay the foundation for the incorporation of Miami. The Trail in this Zone plays off these themes, and provides east-west continuity through three transformative improvements that result in a seamless connection between historically divided and segregated communities:

1. Bridging the earth plug to allow for a direct connection between the east-west sections of the Heritage Trail
2. Crossing the railroad corridor with a pedestrian bridge
3. Moving off-street parking (as shown in the RFP) from the center of the corridor to the perimeter

Please refer to the details of Zone 2 in the AMP roll plots, as well as the baseline enhancement table beginning on page 29.

**ACTIVATED AND REVITALIZED ZONE 2 WITH TEAM'S INNOVATIONS
ENHANCED CONCEPT RESULTS IN ONE UNIFIED TRAIL FROM
OVERTOWN TO THE BAY!!!**

**SIGNIFICANT INVESTMENT IN ARTWORK COMMEMORATING
HERITAGE THEME THAT INCLUDES HENRY FLAGLER AND JULIA TUTTLE
INCREASE STREETCAPE AND LANDSCAPE AREAS WHILE MAINTAINING
REQUIRED NUMBER OF PARKING SPACES**

COMMUNITY ACTIVITY ENHANCEMENTS



CARIBBEAN HERITAGE PLAZA

The eastern block in Zone 2 is designed as a collection of intimate spaces that provide relief from activity along the Trail. The main features are the symbolic Caribbean Islands at either side of the Trail's spine. These spaces, recaptured from the space where parking was proposed, provides 3-dimensional elements that serves as resting slopes and create unique vantage points.



PEDESTRIAN BRIDGE

The pedestrian bridge crossing of the railroad tracks allows for direct, uninterrupted east-west travel for walkers, joggers, and cyclists. The bridge is designed with extended, gradually sloping ramps to allow for open lines of sight. Aesthetic lighting in addition to Trail lighting, promotes safe use and comfort.

DESIGN ZONE 2



DESIGN ZONE 3



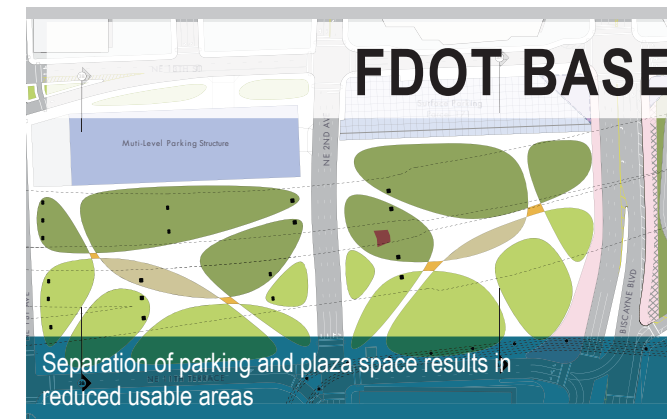
OVERVIEW

The origin of the Heritage Trail begins in Zone 3, home to the Signature Bridge. Zone 3 design takes into consideration the influence of the Tequesta Indians, and Miami's thriving entertainment district, including the AAPAC, the PAMM and the Frost Science Museum. Zone 3 serves as an integral part of the Trail incorporating the Fountain Bridge's main structural support, as well as the longest column-free space of the whole project. Zone 3 provides broad expanses of uninterrupted plaza to accommodate special events and activities. Paving patterns, bench forms, and design details are inspired by the paving along Biscayne Boulevard created by legendary Brazilian landscape architect Roberto Burle Marx. Translated through different iterations along the Trail, they provide additional design features and continuity. Overlaid circular bands symbolic of the native Tequestas extend as ripples from the AAPAC Thompson Square center outward.

Please refer to the details of Zone 3 in the AMP roll plots as well as the baseline enhancement table beginning on page 29.

MULTI-PURPOSE PLAZA PROVIDES BOTH A GATHERING SPACE, AS WELL AS AN AREA FOR VALET PARKING MADE POSSIBLE BY OUR 1,025' LONG BRIDGE!

WE HAVE PROVIDED 30 APTE's, INCLUDING A NEW MULTI-PURPOSE TEQUESTA PLAZA AND INTERACTIVE FOUNTAIN.



COMMUNITY ACTIVITY ENHANCEMENTS



TEQUESTA PLAZA & FOUNTAIN
The Heritage Trail's ribbon culminates in a circular, interactive water feature that mimics the shape of the Signature Bridge's arcs. The fountain is intended to attract families during the day and is able to be turned off at night.



Large concrete globes occupy a casual space that promotes outdoor wandering through historic references and colorful structures. The design of this block allows for future use of the space in coordination with the design of adjacent ground floor development.

NATIVE LANDSCAPE



MULTI-PURPOSE PLAZA
The north portion of the eastern block serves as an extended foyer for the AAPAC. This space, designed with planters and canopy trees, will be used as a gathering space as well as a space for valet parking for evening events. The public plaza will triple the capacity for outdoor events while providing a grand approach to the building.

PLAZA SPACE



The Trail provides a respite from the urban core. This subset of the block will become downtown's conservatory of native species to further support and define the original Tequesta environment.

DESIGN ZONE 3



FOUNTAIN SIGNATURE BRIDGE INTRODUCTION



The Signature Bridge’s “fountain” design symbolizes both the connection between Miami and the world, and Miami’s connection to the water - from the Tequesta Indians to Miami’s beaches, cruises, nightlife, culture and commerce - Ground Level View from NW 13th Street looking Southwest

The Fountain concept was inspired by Miami’s status as the center of the Americas. Miami’s growth as a gateway city has been influenced by various regions of the United States, the Caribbean, as well as Central and South America. In 1930, Pan American Airways established Miami as its worldwide headquarters. Its terminal at what is now City Hall opened up the potential of Miami’s waterfront to all of the Americas. The Fountain’s design symbolizes these influences similar to an “airline map” depicting the curved travel paths to and from Miami.

The Fountain pays tribute to Miami’s connection to the water that began several thousand years ago with the Tequesta Indians and continues to this day with the tens of millions of visitors that make Miami their destination for the sun, beach, cruises, nightlife, culture and commerce. The bridge is designed using contextual metaphors drawn from the region’s tropical and urban

environments. The design converts underutilized land beneath it into the focal point of civic life for all of Miami, destined to become the heart of the City for generations to come.

The concept of an abstract fountain and its arching forms is symbolic of the area’s culture as people from across the Americas come together as one. The connections created both in form and function with this structure will facilitate the full integration of neighbors from all directions, meeting in the central plaza. The physical and psychological barriers dividing the surrounding environment are torn down and replaced with a symbol of unification. The Fountain concept’s height and scale create a destination that transitions the high rises to the south with the AAPAC to the north.

The AW-dMG Team obtained approval for two signature bridge options: the Fountain cable-supported arch bridge and Unity, a tower-supported cable-stay bridge. When we placed the 450-ft tall cable stay bridge in our model, it was blocked by high-rise buildings from many views. The slender tower tended to blend in with the high rises. Due to their more two-dimensional appearance, cable-stayed bridges are better suited for water crossings where more expansive views are available.

We also analyzed the evaluation criteria for the Signature span and determined that the Fountain design best met those criteria, and Miami’s desire for an iconic bridge, much better than the cable-stayed option.

AESTHETIC TREATMENTS EVALUATION CRITERIA

The following pages provide a summary of the evaluation criteria and detail how our team’s design meets and significantly exceeds all of the requirements of this project with outstanding quality. The renderings and graphics throughout this proposal and our attached AMP (roll plots) provide a window into our Heritage Trail and the Fountain Signature Bridge, the future of Miami.

DYNAMIC 3D CABLE ARRANGEMENT

Through the use of six arches of varying lengths and heights, the cables produce a true three-dimensional effect that changes in view as drivers move through the structure and as pedestrians migrate through the open spaces. The views dramatically change and are very dynamic from multiple vantage points. Our lighting design emphasizes the cables throughout, with color-changing, programmable LED lights that can produce virtually any desired pattern on the cables. The multiple arches accomplish this intent of the Signature Bridge much more than a tower founded cable-stay, which is one of the reasons our team selected the Fountain.

SIGNIFICANT ENHANCEMENTS

- Provides for individualized one of a kind views from varying viewpoints
- LED Lighting on Dynamic Cable Arrangement will provide iconic night time views of Miami's skyline
- Six arches of varying lengths and heights result in dynamic cable array
- LED color-changing lights can produce any pattern
- The three-dimensional arches provide a cable display that can be seen from miles away when lit at night.



AESTHETIC TREATMENTS EVALUATION CRITERIA – SIGNATURE SPAN

VARYING APPEARANCE FROM DRIVER PERSPECTIVE

The Fountain Signature Bridge was designed and selected specifically to provide an appearance that varies as drivers move through the structure and also offers different appearances as viewed from different locations. The different lengths and heights of the arches result in a continually changing view, which will provide a pleasing experience. These different views are best seen in the Fountain renderings on this page. Additionally, our ATC 12C greatly improves the traffic flow on I-395 WB, so the drivers will be moving at a normal speed through the Fountain instead of being consistently backed up in traffic.

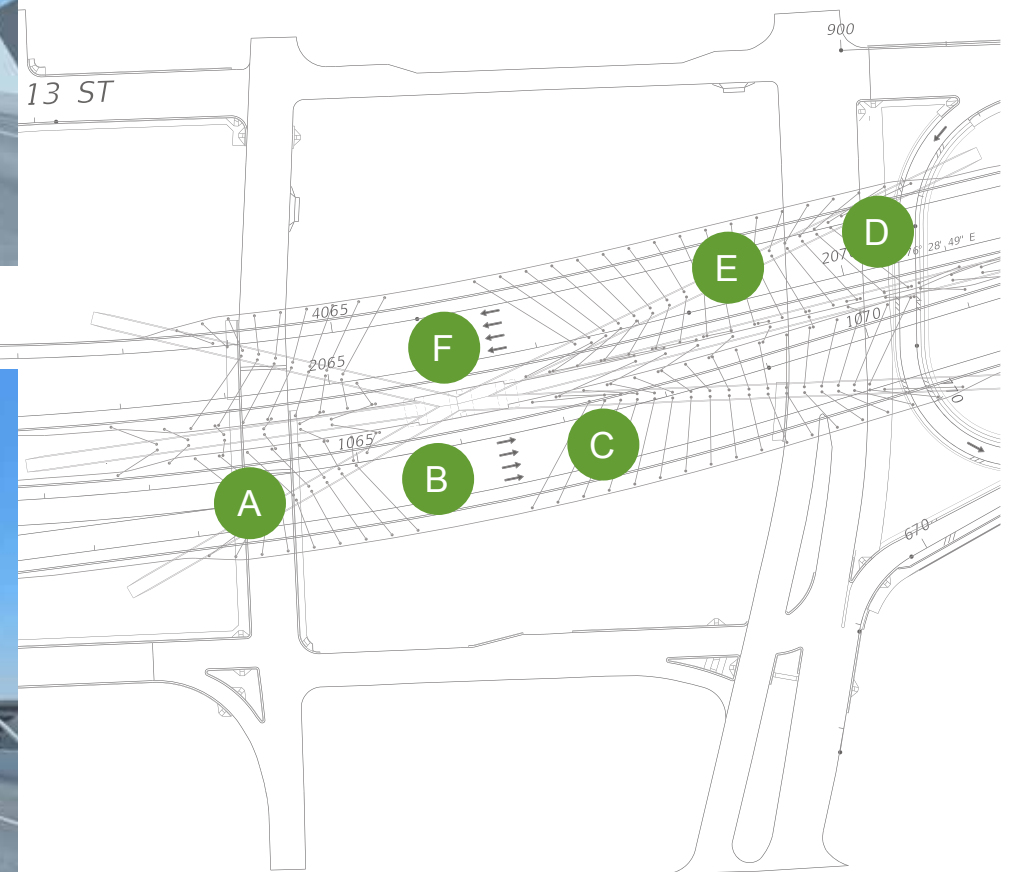
SIGNIFICANT ENHANCEMENTS

- 6 individual arches of varying lengths, heights and angles provide for a unique driver experience
- Significant bridge scale provides for a distinct driver perspective as the bridge is experienced differently from a distance and from underneath the sweeping arches

FROM EAST



FROM WEST



SIGNIFICANTLY DIFFERENT VIEWS FROM VARIOUS LOCATIONS

The Fountain is a one-of-a-kind structure that provides dynamic views from various vantage points, symbolizing the diversity of our community. The massive volume of the six arches provides visibility from all angles, and will not blend in with the skyscrapers like a cable stay. As shown in the renderings below, the Fountain fits perfectly into the Miami skyline as the signature focal point, encouraging residents and tourists alike to visit the bridge and the Heritage Trail below.

SIGNIFICANT ENHANCEMENTS

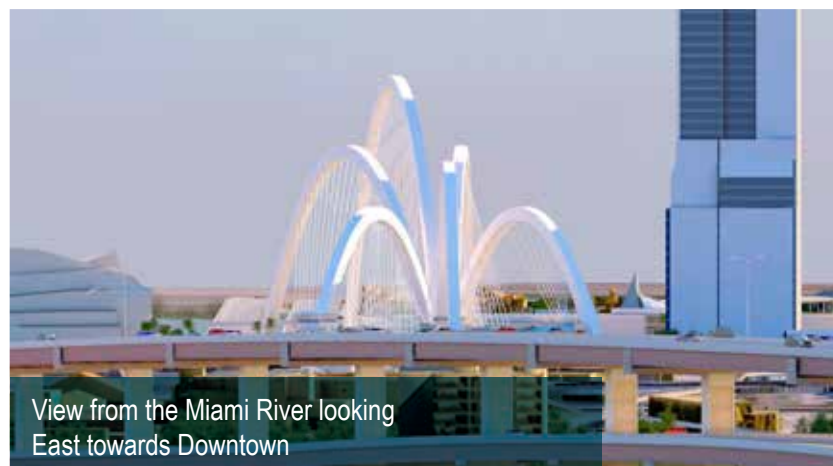
- Iconic one of a kind ground level roadway and aerial views provide a view of the Fountain's unique architectural design
- Varying arch heights, varying lengths, and angles provide dramatically different views from different angles
- Bridge width, when viewed as part of the skyline is more than 700 feet wide diagonally. While the view from the roadway parallel to the bridge is only 200 feet



Night time ground level view from NE 13th Street looking Southwest



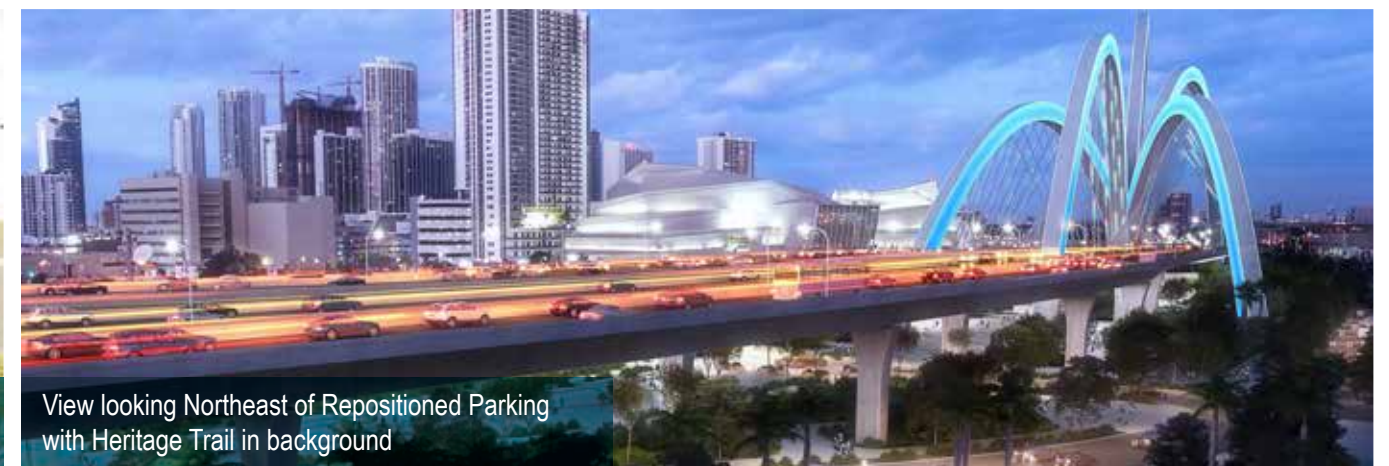
View of Fountain Bridge from the AAPAC looking South



View from the Miami River looking East towards Downtown



View from the Community Garden looking East



View looking Northeast of Repositioned Parking with Heritage Trail in background

TWO SUPERSTRUCTURES, COMBINED TO MAKE VISUALLY UNIFYING STRUCTURE

Our design provides for two superstructures, one EB and one WB, that combine into a single structure in visual appearance. The central pedestal of the Fountain and the arches that spring from this structure combine the bridge into a unified sculpture-like structure. The pedestal will also be visually appealing below the area used by motorists, decorated with art that represents the Heritage Trail and the history of Miami. Our design takes advantage of this separation for Maintenance of Traffic, as the WB direction will be constructed first, maintaining traffic on existing I-395 infrastructure. We will then immediately continue with the EB component, allowing Miami to enjoy the Fountain as quickly as possible.

SIGNIFICANT ENHANCEMENTS

- 6 sweeping arches coming together into one unifying central space
- The inspiration and essence of the Fountain Bridge is rooted in the unification of community and symbolic of Miami's place as a cultural melting pot



View looking West from Biscayne Bay
towards the Fountain Bridge

FEATURE BRIDGE LIGHTING

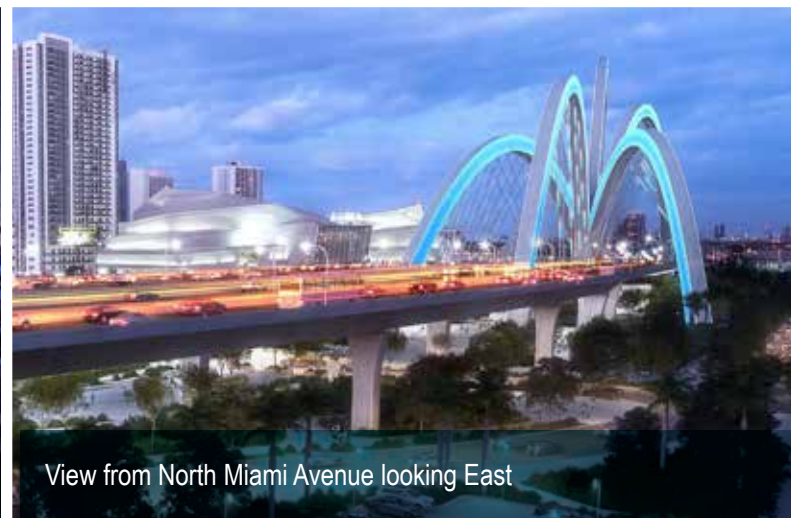
The lighting design of the arches and cables for the Fountain Bridge provides an unparalleled canvas to display unique and powerful sights at night. The sheer number and volume of the arches, combined with the cable supports, all of which can be uniformly lit and lit in harmony to provide impressive and relevant themes. During the Aesthetics Review Committee presentation, we shared an animation demonstrating how the lighting can be animated. The LED lights have a long life and color-changing ability. Additionally, because each light can be programmed to display a different color and intensity, there is virtually no lighting theme that cannot be displayed on the Fountain. Just a few examples of the lighting capabilities are shown below.

SIGNIFICANT ENHANCEMENTS

- The lighting of the 6 arches and 136 individual cables can be synchronized to provide truly 3D works of art within the bridge that can be viewed distinctly from 360 degrees!
- Six arches coupled with cable arrays provide nearly infinite lighting display options
- Color-changing lights can be remotely programmed to display animation



View from the Miami River looking East towards Downtown



View from North Miami Avenue looking East



Night time ground level view from NE 13th Street looking Southwest



Night time ground level view from NE 13th Street looking Southwest



Night time ground level view from NE 13th Street looking Southwest

AESTHETIC TREATMENTS EVALUATION CRITERIA – SIGNATURE SPAN

ADHERING TO AND EXCEEDING REQUIREMENTS

The AW-dMG Team has gone above and beyond the aesthetic requirements of the Contract Documents through the design and selection of the Fountain. Our bridge is 375' longer than the minimum requirements, and 40% taller. Most importantly, the Fountain has a significant footprint with the six arches that can be seen from all angles. The Fountain spans an area of six acres, extending its positive visual impact along the corridor.

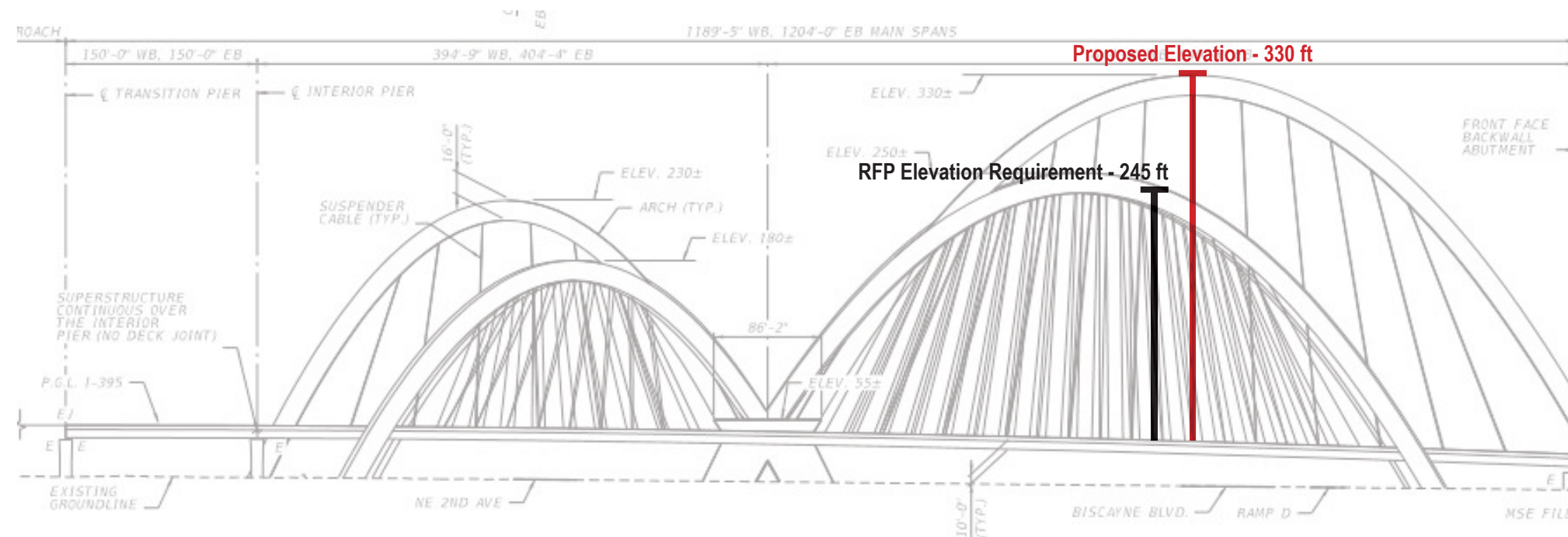
The RFP required the Signature Bridge to meet minimum length and height requirements. The Fountain exceeds the length requirement by 58% and height requirement by 85 feet, providing iconic status of this bridge that will be enjoyed by Miami and the world for years to come.

In order to improve maintainability and quality, the Fountain arches will be precast concrete segments. When completed, our bridge will be the largest concrete segmental arch bridge in the United States, and the second-largest concrete arch. The current longest segmental arch, the Natchez Trace bridge, was designed by team member John Corven more than 25 years ago, and remains virtually maintenance free to this day. The longest concrete arch bridge, at Hoover Dam, was also designed by our lead design firm HDR jointly with TY Lin.

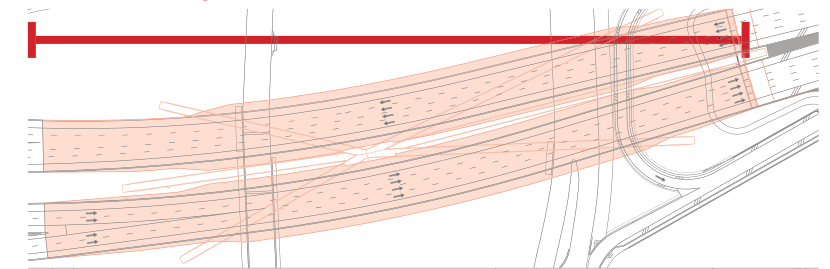


SIGNIFICANT ENHANCEMENTS

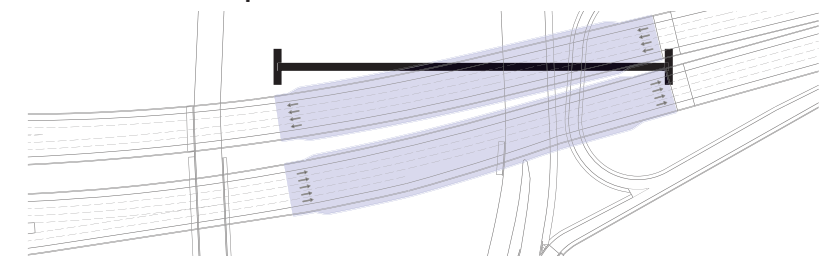
- Largest concrete segmental arch bridge in the United States
- Bridge length - 1,025 feet vs. 650 feet- Significantly exceeding
- Suspended span - 936 feet vs. 500 feet- Significantly exceeding
- Bridge Height- 330 feet vs 245 feet- Significantly exceeding



Proposed Length - 1025 ft



RFP Elevation Requirement - 650 ft



VISUAL CONSISTENCY AMONG PIERS

- All Approach Spans, Main Line, Connector Line, and Ramp piers have the same transverse form.
- The Signature Bridge transition pier cap does not extend below the bottom of the superstructure elevation.
- The Signature Bridge transition pier columns do not extend below the bottom of the superstructure elevation, and are of the same form as the piers.
- All Approach Structures have smooth superstructure transitions at ends of all frames except at straddle piers, bridge girders are closed box systems, all spans are constant depth except as allowed in the concept plans, in Zones 1 and 2, there are no horizontal offsets of the fascia web of the exterior box, except at straddle piers, and in Zone 3 smooth transitions are maintained between the Approach Structure superstructure and the superstructure of the Signature Bridge with no horizontal off-sets or vertical steps in web slopes.
- Pier shapes for bridges in Zones 1, 2, and 3 match the requirements of the RFP with two main pier types are used; one for the single box girder configuration (Connector Lines and Ramps) with a base width of 12' and the other used under the twin box girder arrangement of the Main Line is 8' wide at the base. Both pier types use similar, matching pier designs, tailored to match their width.
- Pier design is characterized by a parabolic arch that occurs on each transverse elevation and are individually monolithic and feature tapering heads that are inclined at the same angles as the web of the box for visual continuity between the two and Main Line and Connector Line piers are designed with deep relief for shadows and visual interest.
- The pier head widths in Zones 1 and 2 match the box girder soffit width.
- Drainage pipes are routed within the concrete bridge elements (e.g. piers, segments, and segmental box wings) and hidden from view.



TYPE 1



TYPE 2



TYPE 3



SIGNIFICANT ENHANCEMENTS

- Same shape for all segmental piers along the Heritage Trail. From approximately 200 Feet West of NW 3rd to the Signature Bridge
- Sight lines along the corridor have been significantly improved by adjusting span arrangements so the columns line up to provide a clean view
- Inset pier arch provides space for public art that complements the Heritage Trail.

MINIMIZES PIER LOCATIONS

Our design minimizes pier locations as shown in the table below. We provide E-W connectivity through Zone 2 by removal of the earth plug.

Overall Comparison of Spans and Columns		
	RFP	Proposed
Number of Pier Locations	66	61
Number of Columns	107	96

SIGNIFICANT ENHANCEMENTS

- Provides for 3 additional acres of Heritage Trail connecting Zones 1 and 3
- Removal of the walled section in Zone 2 significantly enhances the visual experience for pedestrians traversing the Heritage Trail

VISUAL CONSISTENCY OF STRUCTURE THROUGHOUT THE TOTAL PROJECT

Our design provides visual consistency of structures throughout the aesthetic corridor of I-395. We have significantly exceeded this requirement by adjusting the span arrangement through approved ATC 4, which provides for the use of consistent depth box girders throughout the project. By eliminating the haunched beams, the bridges not only look sleeker and streamlined, but they provide more vertical clearance and open space, as shown below. We have also extended the segmental bridges an additional span to the west so that the transition is beyond the Heritage Trail, and the Overtown Community. We have designed the span between the Signature Bridge and the segmental bridge to be over a full span that will be cast in place, providing a seamless, smooth transition.



SIGNIFICANT ENHANCEMENTS

- Transition #1: Signature Bridge Transition to Segmental Bridges - Transitioned from multiple boxes to the single box over one full-span that will be cast in place
- Transition #2: Segmental Transition to Zone A - Extended the segmental bridges an additional span to the west so the transition is beyond the Heritage Trail and the Overtown community
- Uniform and sleek structure with uniform box depths
- Columns line up to meet roadway conditions and improve sight lines



ADHERING TO AND EXCEEDING REQUIREMENTS

As shown in full detail on the AMP roll plots and renderings, our design significantly exceeds the requirements to provide visual consistency and open space throughout the project. By removing the earth plug and moving the parking to the outer borders of Zone 2, we provide E-W continuity of the entire Heritage Trail. The draft Aesthetics Manual indicated that Zone 2 was not designed for pedestrians, as there were no pedestrian destinations nearby. The AW-dMG design creates numerous pedestrian destinations and by constructing a bridge in place of the earth plug, we are providing “one” unified project truly reconnecting communities.

The design of the piers and superstructure in Zone 1 result in a significant improvement over current conditions. With superstructure clearance of up to 63’ at NW 3rd Avenue for the center spans, the quality of the space below the superstructure is vastly improved over existing conditions and those represented in the RFP Aesthetics Manual. The additional height and openings will allow for more vigorous plant growth at the edges of the span, brighter spaces along the trail during daylight hours, and less reflected noise from local traffic.

Details of wall patterns, concrete finishes, and steel finish are provided in the AMP roll plot.

SIGNIFICANT ENHANCEMENTS

- Transformation of Overtown experience
- Increase clearance under I-395 in Overtown from 19’ in the RFP to 63’!
- Reconnecting communities E-W by removing earth plug (walled in area) and extending the Trail



AESTHETIC TREATMENTS EVALUATION CRITERIA – STREETSCAPE

VISUAL CONSISTENCY BETWEEN ALL FOUR ZONES

The Heritage Trail, unique to the AW-dMG Team, is the epitome of visual consistency between all four zones. The Heritage Trail begins with the Legacy Wall in Zone A and continues to celebrate the history and heritage of Miami through Zones 1 and 2, culminating in Zone 3. The Trail's ribbon extends throughout, stitching the community together that has been divided for so many years. Similarly, native landscaping as well as wayfinding and educational signs along the Trail will provide a true sense of place and consistency even as the Trail changes along its length to tell the story of Miami. The piers are consistent in shape throughout the Trail, with inset murals that emphasize the heritage celebrated in each Zone.

The Trail's mural wall provided in Zone 2 (shown below) adjacent to our proposed shared use bridge crossing will be a focal point and an area of interest that will lure visitors to continue exploring along both sides of the FEC tracks, providing a connected corridor from end to end.

Heritage Trail provides consistency between all Zones, as illustrated in the Aesthetics Master Plan roll plots and the renderings below.

SIGNIFICANT ENHANCEMENTS

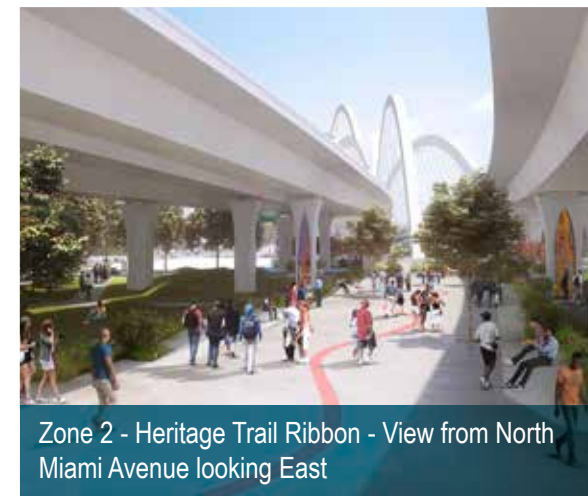
- Creation of activated spaces will ensure community members and visitors are compelled to visit and experience this iconic project
- Trail serves as a celebration of Miami's unique history
- Comprehensive Streetscape plan
- Heritage Trail is continuous with ribbon and lighting
- Connectivity- North, South, East, West



Zone A Legacy Wall and Landscaping - View from under I-395 from NW 3rd Avenue



Zone 1 - Enhanced Pavement - View from NW 2nd Avenue looking Southeast



Zone 2 - Heritage Trail Ribbon - View from North Miami Avenue looking East



Zone 3 - Landscaping - View from proposed Dog Park looking East



Zone 1 - Heritage Trail Fountain Square - View from NW 19th Street looking South



ZONE 1 - Community Garden - View from NW 1st Court looking East



Zone 2 - Multi-Purpose Plaza - View from North Miami Avenue looking West



Zone 3 - Multi-Purpose Plaza - View in front of AAPAC looking East

AESTHETIC TREATMENTS EVALUATION CRITERIA – STREETSCAPE

LANDSCAPING

Our landscaping design is in accordance with the RFP requirements and significantly exceeds the requirements through approved APTEs 14, 34, and 49 as shown in the Aesthetics Master Plan roll plots. Approved ATC 12C significantly raises the required clearance over the Trail by as much as 44 feet in Overtown, truly letting the sun shine in and allowing for enhanced landscaping that will provide much needed green space in downtown.

- Zone 1: Enhanced Landscape (APTE 14)
 - Native and naturalized Florida friendly plant material
 - Irrigation for areas under the structure
 - Canopy trees, small trees, triple palms, large shrubs, small shrubs, and ground cover
- Zone 2: Enhanced landscape (APTE 34)
 - Native and naturalized Florida friendly plant material
 - Irrigation for areas under the structure
 - Canopy trees, small trees, triple palms, large shrubs, small shrubs, and ground cover.
 - 12,615 SF of gravel cover, 32,655 SF of short synthetic turf, and 11,245 SF of long synthetic turf
- Zone 3: Enhanced low-maintenance landscaping (APTE 49)
 - Tropical Rockwood Hammock forest
 - Irrigation for areas under the structure
 - Canopy tree, small tree, triple palm, large shrub, small shrub, ground cover, and sod.
- Landscape lighting (APTE 81) provided for all Zones



Zone 3 - View of Multi-Purpose Plaza in front of the AAPAC looking East

SIGNIFICANT ENHANCEMENTS

- Our team commits to a 5 year warranty on all landscaping
- Extensive landscaping will significantly exceed the baseline requirements
- APTE's for each Zone enhance landscaping
- APTE's for lighting to enhance landscaping in each Zone
- Drought-tolerant and native plants
- Irrigation will be used throughout to sustain plant life



Zone A - View of Legacy Wall from NW 3rd Avenue looking West



Zone 3 - View from proposed Dog Park looking East

AESTHETIC TREATMENTS EVALUATION CRITERIA – STREETSCAPE

COMPLETE STREETS AND TRAFFIC CALMING

We have truly taken the desire for Complete Streets and traffic calming features to heart. The Heritage Trail is unmatched in the promotion of enjoyment by pedestrians, bicyclists, and drivers alike. All crosswalks will be high-visibility, some of them raised as approved by the City of Miami, to provide safe places for pedestrians and cyclists to cross the streets that pass through the Trail. The shared use bridge over the railway continues the Trail and provides unique views to users. In Zone 2, we have moved the parking to the outsides of the Trail where it belongs, to maintain continuity of design and separate vehicles from pedestrians.

ENHANCEMENTS ACROSS ALL ZONES

- Traffic calming measures
 - Raised sidewalks provide safer pedestrian crossings
 - Slower vehicular travel speeds
 - Highly visible pedestrian crossings
 - Continuity along the Trail
- LED enhanced pedestrian crossings (APTE 102)
- Bollards (APTE 58) and planters designate crossings and separate pedestrians and vehicles
- Pavement lighting for Heritage Trail (APTE 2)

ZONE 1

- Traffic calming measures (APTE 6) along NW 14th Street and adjacent streets
- “Shared street” enhancements for NW 14th Street and NW 1st Court improve east-west connections and expand the footprint for the Market Square

ZONE 2

- Traffic calming measures (APTE 31) along N Miami Avenue and NE 1st Avenue
- Parking spaces moved from interior to exterior (APTE 28), provides continuity of Heritage Trail and separates pedestrians from vehicles. **Open space increased by 250%, as shown below**
- Shared use bridge crossing the FEC Railroad provides direct east-west access for walkers, joggers, and cyclists.

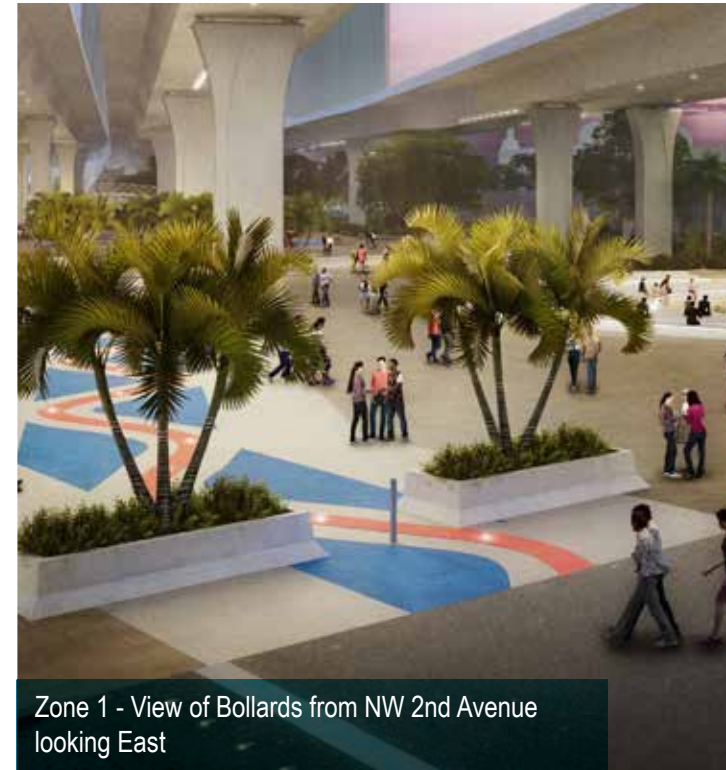
ZONE 3

- Traffic calming measures (APTE 41) along NE 2nd Avenue.

PEDESTRIAN SAFETY

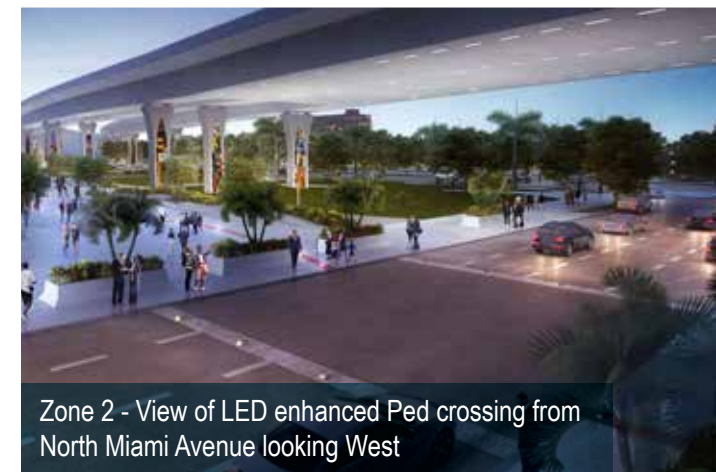
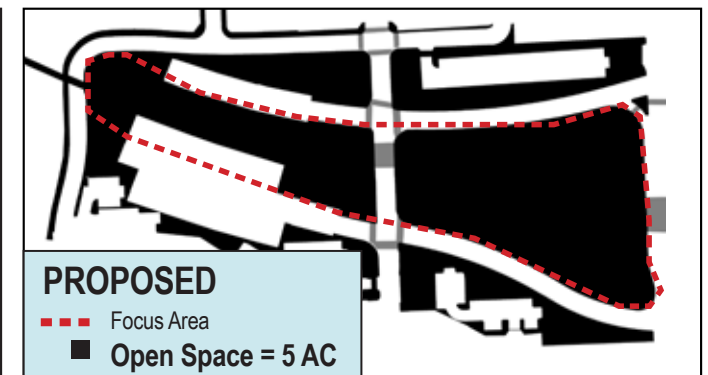
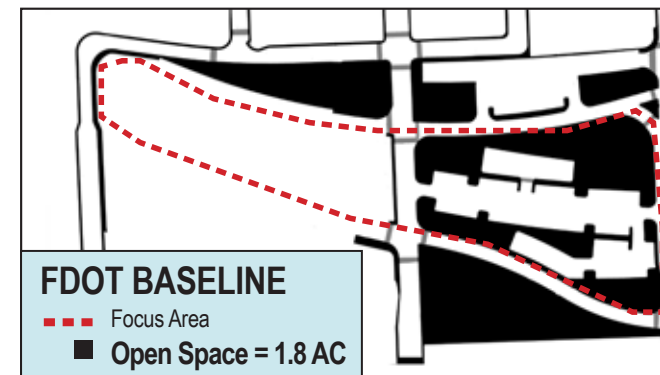
WE ARE COMMITTED TO PEDESTRIAN SAFETY. OUR TEAM WALKS THROUGH THIS CORRIDOR REGULARLY. WE ARE BUILDING A RAMP BRIDGE OVER THE PEDESTRIAN PATH AT THE METROMOVER STATION TO ALLOW VISITORS TO MUSEUM PARK AND RESIDENTS TO CROSS THE HIGH SPEED ENTRANCE RAMP FROM BISCAYNE BOULEVARD.

THIS IS A VALUE ADDED FEATURE WE ARE PROVIDING THAT SIGNIFICANTLY EXCEEDS THE FDOT REQUIREMENTS AND SERVES THE MILLIONS OF PEDESTRIANS THAT WILL COME TO VISIT THE FOUNTAIN SIGNATURE BRIDGE, MUSEUMS AND AAPAC.



SIGNIFICANT ENHANCEMENTS

- High emphasis crosswalks provided for enhanced pedestrian safety
- “Complete street” solutions with special signage and lighting from PAMM all the way to NW 3rd Avenue in Overtown
- Provided a bridge over the Biscayne EB on-ramp for safe travel route
- Removed parking from the interior of the Heritage Trail and relocated out of pedestrian areas in Zone 2
- Traffic calming features throughout project to reduce vehicular speeds at critical pedestrian crossing locations



AESTHETIC TREATMENTS EVALUATION CRITERIA – STREETScape

ENHANCING COMMUNITY ACTIVITIES

The incomparable 55-acre Heritage Trail enhances community activities like nowhere else in Miami. The Trail provides a destination and gathering place with plazas, an amphitheater, community garden, dog play area, children's play areas, and interactive fountains at each end that reflect the Fountain Signature Bridge. The Trail will serve to revitalize Miami from Biscayne Boulevard to the Midtown Interchange, providing a true reconnection both east to west and north to south. These enhancements were approved as APTEs and can be seen in the Aesthetic Master Plan roll plots.



Zone 1 - Multipurpose court (APTE 19), bicycle racks (APTE 62) outdoor training equipment (APTE 71) north of the Trail east of NW 1st Court

SIGNIFICANT ENHANCEMENTS

- Plazas for events such as Farmer's Market
- Amphitheater
- Interactive Water Fountain
- Playgrounds
- Musical Playground
- Multipurpose Space
- Dog Play Area
- Outdoor training equipment
- Multi Use Courts



Zone 1 - Interactive water feature (APTE 11), and passive recreation area (APTE 70)



Zone 1 - Community Garden (APTE 13) south of NW 13th Street



Zone 2 - Caribbean Heritage Plaza with enhanced pavement (APTE 27) and Shared Use Bridge



Zone 3 - Dog Park (APTE 45) and native landscaping (APTE 49)



Zone 3 - Multi-purpose Plaza and valet parking area (APTE 37)



Zone 1 - Children's play area (APTE 21), talking/viewing tubes (APTE 73), and musical playground (APTE 74) between NW 1st Place and NW 1st Court



Zone 1 - Amphitheater (APTE 10) between NW 2nd Avenue and NW 1st Place



Zone 2 - Sculptures and public art (APTE 33)



Zone 3 - Tequesta Plaza & Fountain (APTE 40)



Zone 3 - Plaza Space with cast stone spheres (APTE 43)

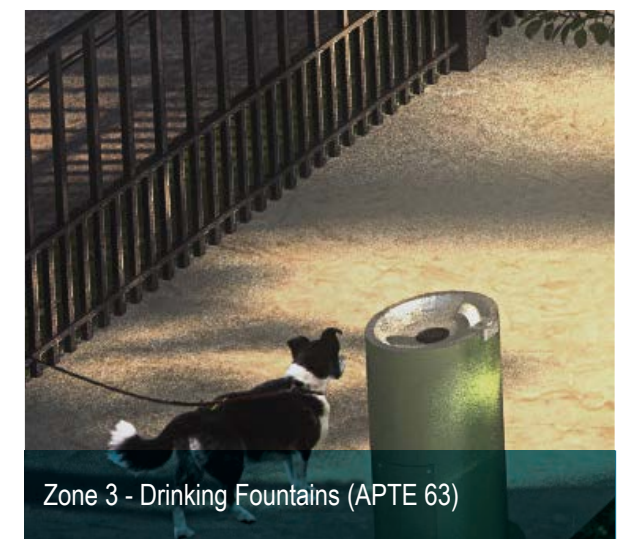
AESTHETIC TREATMENTS EVALUATION CRITERIA – STREETScape

ADHERING TO AND EXCEEDING REQUIREMENTS

The Heritage Trail is the ultimate representation of exceeding the baseline streetscape requirements. This comprehensive approach provides visual consistency between all four Zones, while treating each space as unique, provides enhanced landscaping, promotes complete streets and traffic calming to encourage pedestrian activity and provides outstanding community activities that far exceed the baseline. Unique to our team, the Heritage Trail will provide aesthetic and community enhancements that will be enjoyed for generations while telling the story of Miami's history.

SIGNIFICANT ENHANCEMENTS

- Total Project (all zones): Over 200 separate locations dedicated to streetscape enhancements results in significantly exceeding the baseline requirement
- Heritage Trail significantly exceeds the baseline aesthetic requirements to provide a true signature corridor, and as shown in the AMP roll plots



AESTHETIC TREATMENTS EVALUATION CRITERIA – LIGHTING

PORTAL LIGHTING AT CROSS STREETS

As shown on the AMP roll plots, we have provided portal lighting at all cross street locations that meet and exceed baseline requirements. Our extensive lighting plan brightens the Heritage Trail and turns night into day, making it safer for all visitors.

PORTAL LIGHTING ENHANCEMENTS

In-ground pavement lighting along the Heritage Trail (APTE 2) reinforces east-west connections

- Provides visual continuity
- Enhances safety and comfort

Zone 1: Additional period street lamps (APTE 68) along NW 14th Street to match existing double-headed pedestrian street lamps

Zone 3: Replace the existing street lighting with a pole and luminaire (APTE 77) to match those found near the AAPAC.



Zone 3 - View of multi purpose plaza and enhanced portal lighting looking Southwest towards Biscayne Boulevard

SIGNIFICANT ENHANCEMENTS

- Portal lighting enhanced with:
- Heritage Trail path lighting
 - Enhanced pedestrian safety lighting
 - NW 14th Street period lighting
 - See roll plots 2, 3, and 4 where our design turns “night into day”



Zone 2 - View of enhanced portal lighting from North Miami Avenue looking West

AESTHETIC TREATMENTS EVALUATION CRITERIA – LIGHTING

ENHANCING DESIGN FEATURES

We will provide lighting that enhances the design features of each zone. Throughout the Heritage Trail, we have designed lighting to highlight artwork on piers, landscaping, the interactive fountains, the amphitheater, and artwork throughout.

ZONE 1

- In-ground pavement lighting along the Heritage Trail (APTE 2)
- Interactive water feature lighting (APTE 82), with controls tied into the water feature programming
- Lighting for the amphitheater (APTE 83)
- Landscape lighting (APTE 81)
- Lighting for public art (APTE 84).



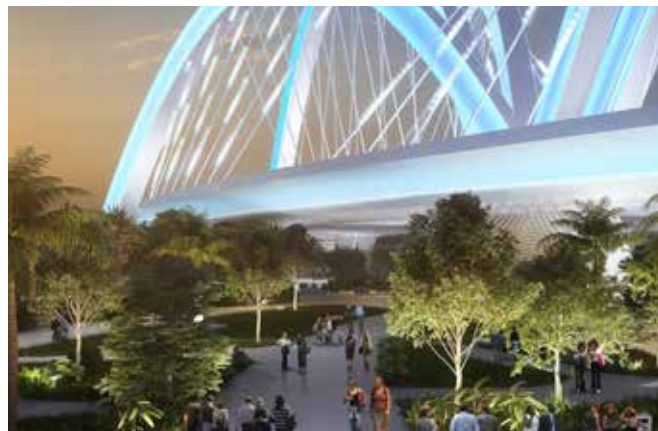
ZONE 2

- Decorative catenary, luminaries suspended from taut horizontal cables.
- Landscape lighting (APTE 81)
- Lighting for public art (APTE 84)



ZONE 3

- Color changing LED lighting on the signature bridge base's vertical surfaces (APTE 97)
- Lighting for the underside of concrete benches (APTE 94)
- Pole-mounted luminaries illuminate the parking lots (APTE 89)
- LED Lighting for the interactive water feature (APTE 93) with controls tied into the programming
- Multi-headed poles to illuminate the plaza (APTE 92)
- Landscape lighting (APTE 81)
- Lighting for public art (APTE 84)



SIGNIFICANT ENHANCEMENTS

- Heritage Trail lighting
- Interactive fountain lighting
- Pier lighting
- Landscaping lighting
- Landscape mound lighting
- Amphitheater lighting
- Period street lamps
- Art/sculpture lighting

ADHERING TO AND ENHANCING THE AESTHETIC REQUIREMENTS

The AW-dMG design far exceeds the lighting requirements set by the Contract Documents. We have committed over \$20M to LED lighting solutions that will turn night into day, making the Heritage Trail enjoyable into the evening hours. With the AAPAC and other arts institutes nearby, lighting is imperative as visitors will attend the many nighttime events and be able to enjoy the Trail before and after those events. Our detailed lighting plan, shown on the AMP roll plots, illustrates how our lighting design significantly exceeds the baseline requirements.

OVER \$20 MILLION DEDICATED TO TURNING NIGHT INTO DAY!



- Meets Baseline
- Exceeds Baseline
- New Elements

EXCEEDING MINIMUM AESTHETIC BASELINE REQUIREMENTS - ALL ZONES

The following table demonstrates how our design meets the baseline requirements and also describes our APTEs that exceed the baseline. Each of our 55 approved APTEs are shown in the Aesthetic Master Plan roll plots. The APTEs provide aesthetic and community enhancements that will develop the Heritage Trail as a place to meet, enjoy Miami, and learn of our great City’s rich history.

ALL ZONES

APTE	DESCRIPTION	QUANTITY	UNIT
②	Pavement Lighting along Heritage Trail	750	Fixtures
⑥4	Wayfinding Signage	8	Signs
⑦8	MSE Wall Pattern	55,350	SF
⑧0	Murals on Piers	16	Locations
⑧1	Lighting for Planters	60	Round ingrade uplights
⑧4	Lighting for Sculptures/Public Art	54 128	Round ingrade uplights LF LED wall washers
⑨9	Legacy Wall Panels	3,650 SF	5 Locations
⑩2	LED Lighting at Heritage Trail Crossings	8	Locations

APTE’s Included in all zones

55 TOTAL PROJECT ENHANCEMENTS IN 390 LOCATIONS



APTE EVALUATION CRITERIA – ADDITIONAL VALUE

- Meets Baseline
- Exceeds Baseline
- New Elements

EXCEEDING MINIMUM AESTHETIC BASELINE REQUIREMENTS - ZONE 1

APTE's Included in all zones

BASELINE REQUIREMENT	COMPLIANCE	APTE's/ENHANCEMENTS
Approach Span Superstructure AMP A-5	Smooth superstructure transitions	Approved ATC 4 adjusted span lengths to provide constant depth girders throughout. All haunched, variable-depth girders eliminated.
	Closed box girders	
	Constant depth girders where feasible	
	Haunched, variable-depth girders allowed	
	No horizontal offsets of fascia web	
Piers AMP A-2, A-5	Two main pier types used	Approved ATC 35 modified pier shapes for better maintainability and constructability, included a third, more slender pier of the same shape.
	Parabolic arch, tapering heads, deep relief	
	Same transverse form for all	
Retaining Walls AMP A-2, A-5	Pattern with 3" relief	APTE 78
	No permanent sheet piles or pile-and-panel walls	APTE 99
	Cheek walls at bridge abutments	
Concrete Finish AMP A-2, A-5	Federal Color FS37925 Insignia White	APTE 7
Steel Finish	N/A - No Steel bridges in Zone 1	
Roadway Lighting AMP A-2, A-5	Evenly spaced poles	APTE 68
	LED white lights, Fixture suits aesthetics	APTE 102
Streetscape Lighting AMP A-2, A-5	Portal, Secondary Area, Abutment Lights	APTE 2, 68, 81, 82, 83, 84
	Replace-in-kind impacted existing period lighting	
Urban Design AMP A-2, A-5	Sidewalks, curb cuts, road modifications	APTE 14, 16, 64, 80
	Fences prohibited	
Landscape AMP A-2, A-5	Sidewalks, crosswalks	APTE 6, 13, 14, 81, 99, 102
	Stamped, integral color concrete NW 3rd Ave-NW 2nd Ave	
	730 LF of 10' wide paths, 1,300 LF of 5' wide paths	

Additional APTE's without a Baseline Requirement: 2, 8, 10, 11, 19, 21, 23, 58, 61, 62, 63, 67, 70, 71, 73,74

Total Aggregate Approved APTE's = 31

Please see AMP Roll Plot Sheet A-2 and A-5 for depictions and locations of APTEs, and how baseline requirements are met and significantly exceeded.

APTE	DESCRIPTION	QUANTITY	UNIT
6	Traffic Calming Measures/Shared Streets	28,800	SF
		18	Planters
7	Enhanced Pavement	305,736	SF
13	Community Garden Fence	12,390	SF
		545	LF
14	Enhanced Landscape*	96,990	SF (Shrubs)
		999	Ea (Trees)
		73,807	SF (Ground Cover)
16	Sculpture and Public Art *	8	Display Frames
		8	Sculptures
68	Period Street Lamps	16	Ea
82	Lighting for Interactive Water Feature	8	White LED ingrade fountain lights
83	Lighting for Amphitheater	35	Recessed LED step lights
		472	LF (Flexible Linear LED Luminaire)

* Includes Quantities for Zone A

31 ENHANCEMENTS
IN 120 LOCATIONS



View of Community Garden from NW 1st Court looking East



View of Lighting for Amphitheater from NW 2nd Avenue looking East

APTE EVALUATION CRITERIA – ADDITIONAL VALUE

- Meets Baseline
- Exceeds Baseline
- New Elements

EXCEEDING MINIMUM AESTHETIC BASELINE REQUIREMENTS - ZONE 2

APTE's Included in all zones

BASELINE REQUIREMENT	COMPLIANCE	APTE's/ENHANCEMENTS
Approach Span Superstructure AMP A-5	Smooth superstructure transitions	Approved ATC 4 adjusted span lengths to provide constant depth girders throughout. All haunched, variable-depth girders eliminated.
	Closed box girders	
	Constant depth girders where feasible	
	Haunched, variable-depth girders allowed	
Piers AMP A-3, A-5	No horizontal offsets of fascia web	Approved ATC 35 modified pier shapes for better maintainability and constructability, included a third, more slender pier of the same shape. APTE (80)
	Two main pier types used	
	Parabolic arch, tapering heads, deep relief	
Retaining Walls AMP A-3, A-5	Same transverse form for all	APTE (78)
	Pattern with 3" relief	
	No permanent sheet piles or pile-and-panel walls	
Concrete Finish AMP A-3, A-5	Cheek walls at bridge abutments	APTE (99)
Steel Finish	Federal Color FS37925 Insignia White	APTE 27
Steel Finish	N/A - No Steel bridges in Zone 1	
Roadway Lighting AMP A-3, A-5	Evenly spaced poles	APTE (102)
	LED white lights, Fixture suits aesthetics	
Streetscape Lighting AMP A-3, A-5	Portal, Secondary Area, Abutment Lights	APTE (2) (81) (84) (89)
	Illuminate parking lot	
Urban Design AMP A-3, A-5	Sidewalks, curb cuts, road modifications	APTE 33, 34 (64) (80)
	Fences prohibited	
Landscape	Sidewalks, crosswalks	APTE 28 (81) (102)
	Surface parking for 200 spaces connected via streetscape	

Additional APTE's without a Baseline Requirement: 31, 36, 58, 61, 62, 63, 67

Total Aggregate Approved APTE's = 19

Please see AMP Roll Plot Sheet A-2 and A-5 for depictions and locations of APTEs, and how baseline requirements are met and significantly exceeded.

APTE	DESCRIPTION	QUANTITY	UNIT
27	Enhanced Pavement	181,600	SF
28	Parking Area Relocation/Improvement (included in surface street plans)	200	Parking Spaces
33	Sculptures/Public Art	2	Sculptures
34	Enhanced Landscape	77,591	SF (Shrubs)
		379	Ea (Trees)
		81,725	SF (Ground Cover)
		12,497	SF (Gravel)
89	Pole Mounted Luminaires for Parking	17	Ea

19 ENHANCEMENTS
IN 120 LOCATIONS



View of Public Art/ Legacy Wall from North Miami Avenue looking West

APTE EVALUATION CRITERIA – ADDITIONAL VALUE

- Meets Baseline
- Exceeds Baseline
- New Elements

EXCEEDING MINIMUM AESTHETIC BASELINE REQUIREMENTS - ZONE 3

APTE's Included in all zones

BASELINE REQUIREMENT	COMPLIANCE	APTE's/ENHANCEMENTS
Approach Span Superstructure AMP A-5	Smooth superstructure transitions	Approved ATC 4 adjusted span lengths to provide constant depth girders throughout. All haunched, variable-depth girders eliminated.
	Closed box girders	
	Constant depth girders where feasible	
	Haunched, variable-depth girders allowed	
	No horizontal offsets of fascia web	
Piers AMP A-4, A-5	Two main pier types used	Approved ATC 35 modified pier shapes for better maintainability and constructability, included a third, more slender pier of the same shape. APTE (80)
	Parabolic arch, tapering heads, deep relief	
	Same transverse form for all	
Retaining Walls AMP A-4, A-5	Pattern with 3" relief	APTE (78)
	No permanent sheet piles or pile-and-panel walls	APTE (99)
	Cheek walls at bridge abutments	
Concrete Finish AMP A-4, A-5	Federal Color FS37925 Insignia White	APTE 42
Steel Finish	N/A - No Steel bridges in Zone 1	
Roadway Lighting AMP A-4, A-5	Evenly spaced poles	APTE 77
	LED white lights, Fixture suits aesthetics	APTE (102)
Streetscape Lighting AMP A-4, A-5	Portal, Secondary Area, Abutment Lights	APTE 2 (81) (84) 89, 92
	Illuminate parking lot	
Urban Design AMP A-4, A-5	Sidewalks, curb cuts, road modifications	APTE 41, 49, 64 (80)
	Fences prohibited	
Landscape	Sidewalks, crosswalks	APTE 37, 59 (81) (102) 105
	Concrete pathways	
	Multi-purpose Parcel 171	
	Burle Marx streetscape design	

Additional APTE's without a Baseline Requirement: 40, 43, 45, 52, 53, 56, 58, 61, 62, 63, 67, 93, 94, 97

Total Aggregate Approved APTE's = 30

Please see AMP Roll Plot Sheet A-2 and A-5 for depictions and locations of APTEs, and how baseline requirements are met and significantly exceeded.

APTE	DESCRIPTION	QUANTITY	UNIT
37	Multipurpose Space	40,000	SF
41	Traffic Calming Measures	4,620	SF
		12	Planters
42	Enhanced Pavement	295,637	SF
49	Enhanced Landscape	111,195	SF (Shrubs)
		499	Ea (Trees)
		11,731	SF (Gravel)
		61,480	SF (Ground Cover)
59	Seating in Multi-Purpose Space	12	Planters
77	New Street Lighting	4	Fixtures
105	Photo-Luminescent Plaza Coating	7,760	SF

30 ENHANCEMENTS
IN 150 LOCATIONS



View of Multi purpose Space/Parking Plaza from NW 2nd Avenue looking East

- Meets Baseline
- Exceeds Baseline
- New Elements

IMPROVEMENTS EXCEEDING THE SUB-CRITERIA OF THE AESTHETICS PROPOSAL
ALL ZONES & ZONE 1

The Heritage Trail provides significant and meaningful improvements beyond the baseline. As shown on the AMP roll plots and the following table, our APTE's come together to create an experience like no other. Our APTE's provide aesthetic and community enhancements that will develop the Heritage Trail as a place to meet, enjoy Miami, and learn of our great City's rich history.

ALL ZONES

APTE	DESCRIPTION	QUANTITY	UNIT
58	Bollards	211	Ea
61	Trash Bins	34	Ea
	Recycling Bins	34	Ea
62	Bicycle Racks (6 slots each)	6	Ea
63	Drinking Fountains	7	Ea
67	Cast Stone Benches	42	Ea

ZONE A

APTE	DESCRIPTION	QUANTITY
16	Sculpture and Public Art	Included in Zone 1
61	Trash Cans and Recycling Bins	Included in All Zones
64	Wayfinding Signage	Included in All Zones
78	MSE Wall Pattern	Included in All Zones
99	Legacy Wall	Included in All Zones

ZONE 1

APTE	DESCRIPTION	QUANTITY	UNIT
8	Parallel Parking	1,191	LF
10	Amphitheater	1	Ea
11	Interactive water feature	1	Ea
19	Multipurpose court	1	Ea
	Children's play area	1	Equipment
21	Turf	3,220	SF
	Fence	350	LF
23	Restroom Facilities infrastructure	1	Ea
	Pump House	100	SF
70	Passive Recreation Area	1	Ea
71	Outdoor Training Equipment	1	Area
	Turf	5,317	SF
73	Talking/Viewing Tubes	2	Tubes
74	Musical Playground	2	Instruments



View of Amphitheater from NW 2nd Avenue looking East






View of Children's Play Area from NW 13th Street looking NE



View of Interactive Water Feature from NW 14th Street looking South

APTE EVALUATION CRITERIA – ADDITIONAL VALUE

	Meets Baseline
	Exceeds Baseline
	New Elements

IMPROVEMENTS EXCEEDING THE SUB-CRITERIA OF THE AESTHETICS PROPOSAL ZONE 2 & ZONE 3

ZONE 2

APTE	DESCRIPTION	QUANTITY	UNIT
31	Traffic Calming Measures	20	Planters
36	Restroom Facilities infrastructure Pump House	1 100	Ea SF

ZONE 3

APTE	DESCRIPTION	QUANTITY	UNIT
40	Interactive Water Feature	1	Ea
43	Cast Stone Spheres	7	Ea
45	Dog Play Area	26,660	SF
	Fence	1,051	LF
52	Sculptures and Public Art	1	Sculpture
	Mural	9,000	SF
53	Concrete Benches	6,644	SF
56	Restroom Facilities Infrastructure Pump House	1 100	Ea SF
92	Lighting for Multi-Purpose Space	16	Poles
93	Lighting for interactive Water Feature	12	Ingrade Fountain White LED Lights
94	Lighting for Concrete Benches	1,661	LF
97	Lighting for Signature Bridge Base		
	Color Change LED ingrade	160	LF
	Color Change LED wall washer	152	LF
	Color Change LED flood lights	32	Ea



SIGNATURE CORRIDOR THAT EXCEEDS AESTHETIC REQUIREMENTS

The Heritage Trail is the epitome of furthering the Department's goal of building a signature corridor with aesthetic features that exceed the Threshold Requirements. Please review our AMP roll plots to experience the future Heritage Trail.

Our singular focus of reconnecting communities and “making right the wrongs of the past” is evidenced by the over 390 APTE locations and our focus on safety, community, mobility and maintainability.

SIGNIFICANT ENHANCEMENTS

- 55 Approved APTE's at over 390 locations significantly exceeding the baseline aesthetic requirements
- Provides true North, South, East, West connectivity
- Focus on safety, community, mobility and maintainability



Zone 3 - View of multi purpose plaza looking Southeast towards Biscayne Boulevard



Zone 1 - View of Interactive Fountain with Public Art in from NW 14th Street looking South



Zone 2 - View along the Heritage Trail from North Miami Avenue looking East

PEDESTRIAN AND BICYCLE SAFETY FEATURES

The Trail is made complete with pedestrian and bicycle safety features throughout. With enhanced crosswalks, shared streets, and the shared use pedestrian bridge over the railroad, the Trail will be a haven to Miami's growing walking and cycling enthusiasts.

- Traffic calming measures (APTE 6 for Zone 1; APTE 31 for Zone 2; APTE 41 for Zone 3)
 - Raised sidewalks provide safer pedestrian crossings
 - Slower vehicular travel speeds
 - Highly visible pedestrian crossings
 - Continuity along the Heritage Trail
- LED enhanced pedestrian crossings (APTE 102)
- Bollards (APTE 58) separate pedestrians and vehicles
- Pavement lighting for Heritage Trail (APTE 2)
- "Shared street" enhancements for NW 14th Terrace and NW 1st Court improve east-west connections and expand the footprint for the Market Square (Zone 1)
- Parking spaces moved from interior to exterior (APTE 28) in Zone 2 provides continuity of Heritage Trail and separates pedestrians from vehicles.
- Shared use bridge crossing the FEC Railroad provides direct east-west access for walkers, joggers, and cyclists.
- Significant LED lights throughout to ensure pedestrian and bicycle safety and security

SIGNIFICANT ENHANCEMENTS

- Significant number of traffic calming measures throughout the corridor
- Emphasis on night time pedestrian and bicycle safety and security with enhanced lighting
- Design of Heritage Trail routes pedestrian traffic through designated safe crossings



Zone 2 - View of shared use bridge crossing from NW 1st Avenue looking East



Zone 1 - View of safety bollards from NW 1st Court looking Southeast



Zone 2 - View of enhanced pedestrian crossing from North Miami Avenue looking West

LONG TERM DURABILITY AND MAINTAINABILITY

The features of the Heritage Trail have been designed to incorporate long term durability and maintainability while achieving superior aesthetic and community enhancements. Our APTE's have been designed to be sustainable and long lasting, from the all concrete Fountain Signature Bridge to LED lights throughout to our 5 year warranty on all landscaping. We have also sought and obtained letters of commitment to maintain these features from local community agencies such as Miami-Dade County, City of Miami, and Florida International University. Letters of support are included in the APTE package. The following tables detail the extraordinary efforts and significant improvements made to ensure we provide the Department and community with a long term, durable and maintainable project.



MAINTENANCE
COMMITMENTS

“The Education Effect will set up, manage and maintain the proposed community garden area.”
- Florida International University

ZONE	APTE #	DESCRIPTION	LONG-TERM DURABILITY/MAINTAINABILITY
All	2	Pavement Lighting along Heritage Trail	High durability LED lights 50,000 hour service life
1	7	Enhanced Pavement	Integral color concrete does not require painting Abrasion resistant surface Highly durable
1	10	Amphitheater	CIP Concrete Highly durable Low maintenance
1	11	Interactive Water Feature	CIP Concrete surface No standing water - no chlorine or cleaning Easy pressure wash maintenance
1	13	Community Garden	FIU commitment to maintain Low maintenance concrete path Low maintenance aluminum fence
1	14	Enhanced Landscape	Drought-tolerant, Florida friendly plants 5 year warranty on landscaping Concrete planter curbs, benches, and raised planter beds Highly durable, low maintenance Irrigation system included 40-year service life
1	16	Sculptures and Public Art	Durable concrete sculptures and artwork frames Long lasting ceramic tile art Graffiti-resistant coating on all ceramic tile
1	19	Multi-purpose Courts	Low maintenance concrete surface
2	27	Enhanced Pavement	Integral color concrete does not require painting Abrasion resistant surface Highly durable
2	33	Sculptures and Public Art	Durable concrete sculptures and artwork frames Long lasting ceramic tile art Graffiti-resistant coating on all ceramic tile
2	34	Enhanced Landscape	Drought-tolerant, Florida friendly plants 5 year warranty on landscaping Concrete planter beds - highly durable, low maintenance Irrigation system included 40-year service life

APTE EVALUATION CRITERIA – LONG TERM DURABILITY AND MAINTAINABILITY

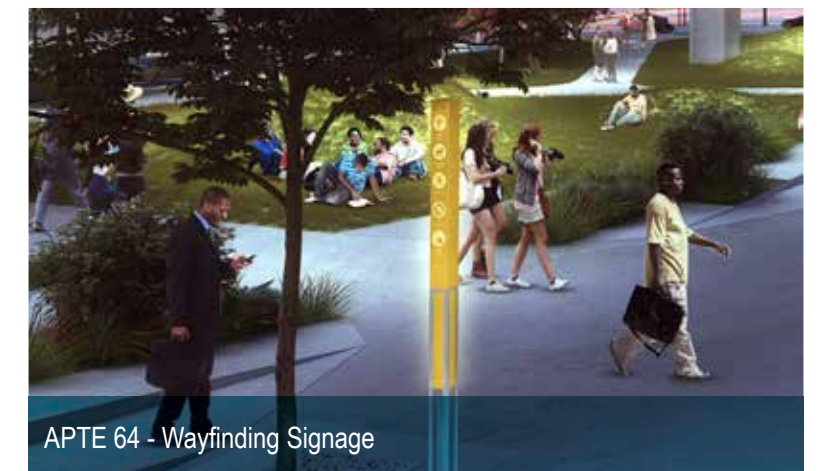
LONG TERM DURABILITY AND MAINTAINABILITY

ZONE	APTE #	DESCRIPTION	LONG-TERM DURABILITY/MAINTAINABILITY
3	37	Multi-purpose Space	6" thickness - more durable than 4" minimum Integral color concrete does not require painting Highly durable
3	40	Interactive Water Feature	CIP Concrete surface No standing water - no chlorine or cleaning Easy pressure wash maintenance
3	42	Enhanced Pavement	Integral color concrete does not require painting Abrasion resistant surface Highly durable
3	43	Cast Stone Spheres	CIP concrete Highly durable Low maintenance
3	45	Dog Play Area	Low-maintenance aluminum fence
3	49	Enhanced Landscape	Drought-tolerant, Florida friendly plants 5 year warranty on landscaping Concrete planter beds - highly durable, low maintenance Irrigation system included 40-year service life
3	52	Sculptures and Public Art	Durable concrete sculptures and artwork frames Long lasting ceramic tile art Graffiti-resistant coating on all ceramic tile
3	53	Concrete Benches	CIP concrete Highly durable Low maintenance
All	58	Bollards	Stainless Steel Highly durable Low maintenance
3	59	Seating in Multi-purpose Space	CIP concrete Highly durable Low maintenance
All	61	Trash and Recycling Bins	Low-maintenance concrete
All	62	Bicycle Racks	Low-maintenance aluminum

ZONE	APTE #	DESCRIPTION	LONG-TERM DURABILITY/MAINTAINABILITY
All	63	Drinking Fountains	Corrosion resistant coating 20+ year service life
All	64	Wayfinding Signage	Highly durable aluminum 15+ year service life
All	67	Cast Stone Benches	CIP concrete Highly durable Low maintenance
1	68	Period Street Lamps	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy



APTE 43 - Cast Stone Spheres



APTE 64 - Wayfinding Signage

MAINTENANCE COMMITMENTS

“We will program maintenance of “pedestrian platform crossings, planter boxes/jersey barriers located outside of County R/W to separate traffic from pedestrians, approach roadways, visibility crossings, and bicycle lanes.”

- Miami-Dade County

APTE EVALUATION CRITERIA – LONG TERM DURABILITY AND MAINTAINABILITY

ZONE	APTE #	DESCRIPTION	LONG-TERM DURABILITY/MAINTAINABILITY
1	70	Passive Recreation Area	CIP concrete benches Highly durable Low maintenance 40+ year service life
1	71	Outdoor Training Equipment	15+ year service life
3	73	Talking/Viewing Tubes	Low-maintenance aluminum
3	74	Musical Playground	15+ year service life
3	77	New Street Lighting	High durability LED lights 50,000 hour service life Long-lasting aluminum
All	78	MSE Wall Pattern	Concrete material Highly durable Low maintenance 40+ year service life
All	80	Murals on Piers	Long lasting ceramic tile art Graffiti-resistant coating on all ceramic tile
All	81	Landscape Lighting	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy
1	82	Interactive Water Feature Lighting	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy Durable casing for fountain lights
1	83	Amphitheater Lighting	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy
All	84	Sculptures and Public Art Lighting	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy
2	89	Pole Mounted Luminaires for Parking	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy
3	92	Lighting for Multi-purpose Space	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy

ZONE	APTE #	DESCRIPTION	LONG-TERM DURABILITY/MAINTAINABILITY
3	93	Interactive Water Feature Lighting	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy Durable casing for fountain lights
3	94	Lighting for Concrete Benches	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy
3	97	Lighting for Signature Bridge Base	High durability LED lights 50,000 hour service life Long-lasting aluminum alloy
All	99	Legacy Wall Panels	Highly durable ceramic tile panels Anti-graffiti coating Easy pressure wash maintenance 15+ year service life
All	102	Lighting at Heritage Trail Crossings	High durability LED lights 20-30 year service life
3	105	Photo-Luminescent Plaza Coating	Epoxy coating 10+ year service life

MAINTENANCE COMMITMENTS

“We will commit to accepting responsibility for maintenance and operation of the multi-use parking facilities and improvements.”
- Miami Parking Authority

Our local team is committed to serving Miami as we have been for decades. This community is our hometown, not just a project to complete and move on. This commitment is reflected in the plethora of aesthetic and community features of the Heritage Trail as well as the Fountain Signature Bridge that demonstrates Miami's status as the center of the Americas.



View of Heritage Trail from North Miami Avenue looking East



View of Heritage Trail in and Fountain Bridge in background from North Miami Avenue looking Northeast



View of Fountain Signature Bridge from NE 13th Street looking Southwest



View of Community Garden from NW 1st Court looking East

The Heritage Trail will truly meet Miami's vision to reconnect and revitalize the area that was divided by the I-395 and I-95 construction so many years ago. Our primary goal was to ensure that once built, this project would serve as a legacy to all those who played a key role in creating Miami's past, present and future. The attention to detail spent in creating this one of a kind iconic facility was to ensure that thousands of yearly visitors would continue to experience the beauty and culture that this project and Miami have to offer. The AW-dMG Team looks forward to working with the community, our community, to complete this legacy for all to enjoy for generations.