



ADMINISTRATIVE ACTION  
TYPE 2 CATEGORICAL EXCLUSION

Florida Department of Transportation

SR-9/I-95 FR MD/BROW LINE TO N OF SR-820/HOLLYWOOD BLVD

District: FDOT District 4

County: Broward County

ETDM Number: 14254

Financial Management Number: 436903-1-22-02

Federal-Aid Project Number: N/A

Project Manager: Kenzot Jasmin

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by the Federal Highway Administration and FDOT.

This action has been determined to be a Categorical Exclusion, which meets the definition contained in 40 CFR 1508.4, and based on past experience with similar actions and supported by this analysis, does not involve significant environmental impacts.

Signature below constitutes Location and Design Concept Acceptance:

Interim Director Office of Environmental Management  
Florida Department of Transportation



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This document was prepared in accordance with the FDOT PD&E Manual.

This project has been developed without regard to race, color or national origin, age, sex, religion, disability or family status (Title VI of the Civil Rights Act of 1964, as amended).

On 01/04/2016 the State of Florida determined that this project is consistent with the Florida Coastal Zone Management Program.

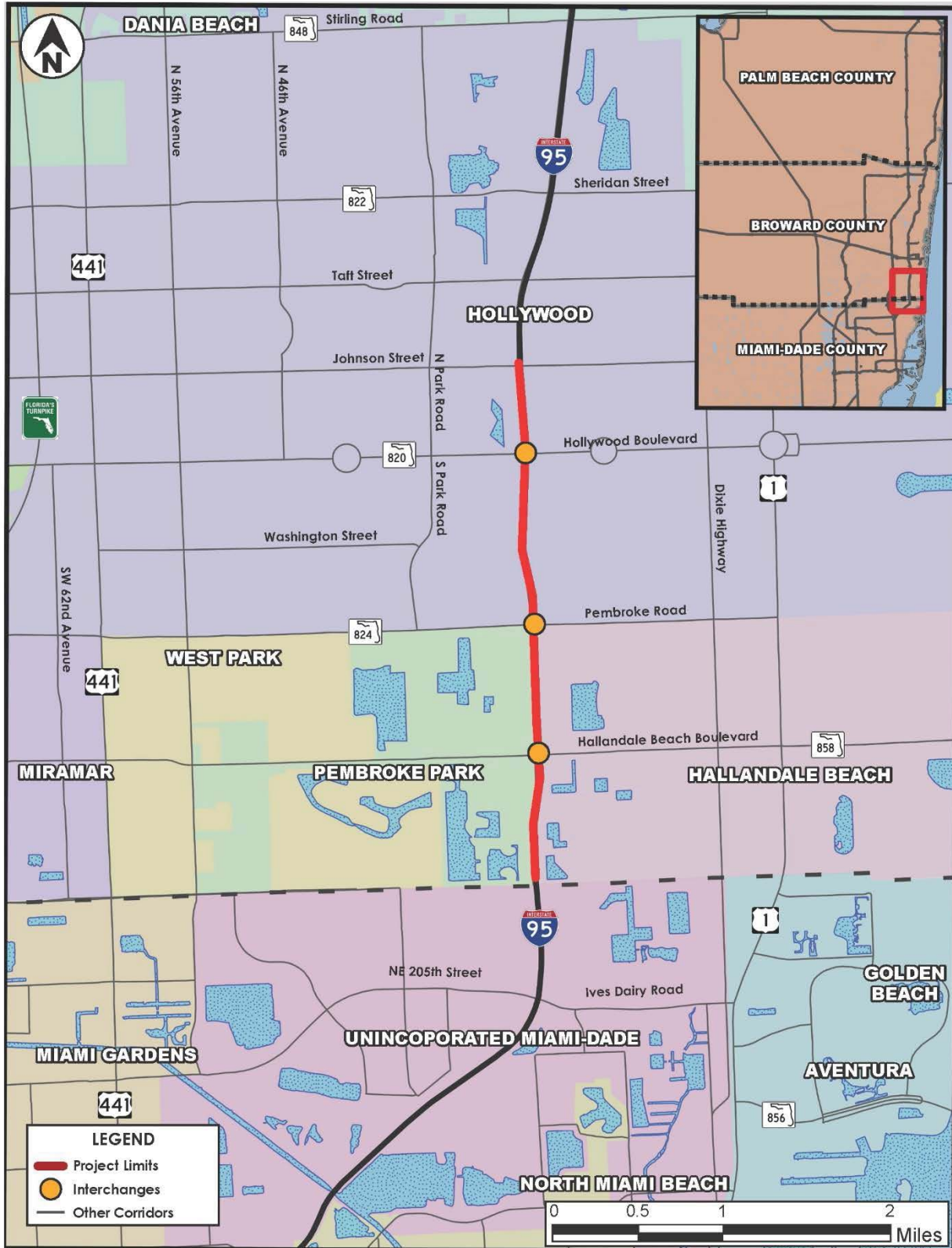
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Project Location Map



# 1. Project Information

## 1.1 Project Description

The Florida Department of Transportation (FDOT) District 4 is conducting a Project Development and Environment (PD&E) Study for Interstate 95 (I-95) from south of Hallandale Beach Boulevard (SR 858) to north of Hollywood Boulevard (SR 820), a distance of approximately three miles (see **Project Location Map**). The PD&E Study is proposing improvements to the Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard interchanges. The project is located in Broward County, Florida and is contained within the municipalities of Hallandale Beach, Pembroke Park, and Hollywood.

I-95 is the primary north-south interstate facility that links all major cities along the Atlantic Seaboard and is one of the most important transportation systems in southeast Florida. I-95 is one of the two major expressways, Florida's Turnpike being the other, that connects major employment centers and residential areas within the South Florida tri-county area. I-95 is part of the State's Strategic Intermodal System (SIS) and the National Highway System. In addition, I-95 is designated as an evacuation route along the east coast of Florida.

I-95, within the project limits, currently consists of eight general use lanes (four in each direction) and four dynamically tolled express lanes (two in each direction). This segment of I-95 is functionally classified as a Divided Urban Principal Arterial Interstate and has a posted speed limit of 65 miles per hour. The access management classification for this corridor is Class 1.2, Freeway in an existing urbanized area with limited access.

There are three existing full interchanges within the project limits located at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. All three roadways are classified as Divided Urban Principal Arterials. Hallandale Beach Boulevard consists of four lanes west of I-95 and six lanes east of I-95. Pembroke Road and Hollywood Boulevard each have six lanes west of I-95 and four lanes east of I-95.

This PD&E Study is evaluating the potential modification of existing entrance and exit ramps serving the three interchanges within the project limits. Widening and turn lane modifications at the ramp terminals were evaluated to facilitate the ramp modifications and improve the access and operation of the interchanges.

## 1.2 Purpose and Need

The overall goals and objectives of this PD&E Study are described below:

- Evaluate the implementation of potential interchange and intersection improvements that will improve capacity, operations, safety, mobility, and emergency evacuation.
- Identify the appropriate interstate/interchange access improvements that, combined with Transportation Systems Management and Operations (TSM&O) improvements, will service the users of the area, and achieve the Purpose and Need.
- Provide relief from existing and projected traffic congestion.
- Improve the safety of the I-95 mainline corridor by addressing speed differentials and lane weaving deficiencies between interchanges.
- Support the optimal operations of the existing roadway network.

- Maintain consistency with the current I-95 Express Lanes and local projects.
- Prioritize the proposed improvements based on the area needs (short-term vs. long-term), logical segmentation and funding.

The need for this project is to increase interchange and ramp terminals intersection capacity at Hallandale Beach Boulevard, Pembroke Road and Hollywood Boulevard. Other considerations for the purpose and need of this project include safety, system linkage, modal interrelationships, transportation demand, social demands, economic development, and emergency evacuation. The primary and secondary needs for the project are discussed in further detail below:

**Capacity** - The I-95 ramps at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard are currently congested and affecting traffic operations along I-95 between the interchange ramps and at the arterial intersections near I-95.

Without future improvements, the driving conditions will continue to deteriorate well below acceptable Level of Service (LOS) standards. The following I-95 freeway segments will operate below LOS D within at least one peak-hour period before the year 2045:

- Ives Dairy Road northbound on-ramp to Hallandale Beach Boulevard northbound off-ramp
- Hallandale Beach Boulevard northbound on-ramp to Pembroke Road northbound off-ramp
- Pembroke Road northbound on-ramp to Hollywood Boulevard northbound off-ramp
- Hollywood Boulevard northbound on-ramp to Sheridan Street northbound off-ramp
- Sheridan Street southbound on-ramp to Hollywood Boulevard southbound off-ramp
- Pembroke Road southbound on-ramp to Hallandale Beach Boulevard southbound off-ramp
- Hallandale Beach Boulevard southbound on-ramp to Ives Dairy Road southbound off-ramp

Additionally, the following intersections will fall below LOS D during at least one peak-hour period before the year 2045:

- Hallandale Beach Boulevard northbound ramp terminal
- Hallandale Beach Boulevard southbound ramp terminal
- Hollywood Boulevard southbound ramp terminal
- Hollywood Boulevard/28th Avenue

The improvements proposed as part of this project will increase the capacity of the interchanges and the ramp terminal intersections.

**Safety** - The crash safety analysis indicates that the I-95 study area segments have experienced greater overall number of crashes for the years 2012 through 2014 than what would typically be anticipated on similar facilities. A review of the crash data indicates that traffic operational improvements could address some of the safety issues.

Additional I-95 entry and exit ramp capacity at these interchanges will improve the safety and overall flow of traffic within the project corridor and adjacent intersections.

**System Linkage** - I-95 is part of the State's SIS and the National Highway System. I-95 provides limited access connectivity to other major arterials such as I-595 and Florida's Turnpike. The project is not proposing to change system linkage. However, potential interchange modifications would improve movements within the existing network systems.



**Modal Interrelationships** - There are sidewalks in both directions and public transit routes along Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. Additionally, there is a Tri-Rail Station in the northwest quadrant of the I-95/Hollywood Boulevard Interchange.

Capacity improvements within the study area will enhance the mobility of people and goods by alleviating current and future congestion at the interchanges and on the surrounding freight and transit networks. Reduced congestion will serve to maintain and improve viable access to the major transportation facilities and businesses in the area.

**Transportation Demand** - The I-95 PD&E Study phase from south of Hallandale Beach Boulevard to north of Hollywood Boulevard is included in the Broward Metropolitan Planning Organization (MPO) 2045 Long Range Transportation Plan (LRTP), Transportation Improvement Program (TIP), FDOT Work Program, FDOT State TIP, and FDOT SIS Five Year Plan.

**Social Demands and Economic Development** - Social and economic demands on the I-95 corridor will continue to increase as population and employment increase. The Broward County MPO LRTP predicted that the population would grow from 1.9 million in 2018 to 2.2 million by 2045, an increase of 16 percent. Jobs were predicted to increase from 0.9 to 1.2 million during the same period, an increase of 25 percent.

The project intersects the cities of Hallandale Beach, Pembroke Park, and Hollywood, the third largest city in Broward County.

**Emergency Evacuation** - The project is anticipated to improve emergency evacuation capabilities by enhancing connectivity and accessibility to major arterials designated on the state evacuation route. I-95, Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard serve as part of the emergency evacuation route network designated by the Florida Division of Emergency Management and by Broward County. Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard move traffic from the east to I-95. I-95 is critical in facilitating traffic during emergency evacuation periods as it connects to other major arterials and highways in the state evacuation route network (i.e., I-595 and the Florida's Turnpike).

### 1.3 Planning Consistency

The project is funded for the Design Phase.

Currently Adopted LRTP-CFP	COMMENTS			
Yes				
	Currently Approved	\$	FY	COMMENTS
<b>PE (Final Design)</b>				
TIP	Y	12,857,907	2021, 2022	2021 - \$90,000 2022 - \$12,767,907 Total: \$12,857,907
STIP	Y	19,511,360	Less than 2021, 2021, 2022	Less than 2021 - \$6,052,770 2021- \$690,683 2022 - \$12,767,907 Total: \$19,511,360
<b>R/W</b>				
TIP	N			

<b>STIP</b>	N			
<b>Construction</b>				
<b>TIP</b>	N			
<b>STIP</b>	N			

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## 2. Environmental Analysis Summary

Issues/Resources	Significant Impacts?*			
	Yes	No	Enhance	NoInv
<b>3. Social and Economic</b>				
1. Social	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Economic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Land Use Changes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Mobility	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Aesthetic Effects	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Relocation Potential	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Farmland Resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4. Cultural Resources</b>				
1. Section 106 of the National Historic Preservation Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Section 4(f) of the USDOT Act of 1966	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Section 6(f) of the Land and Water Conservation Fund	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Recreational Areas and Protected Lands	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5. Natural Resources</b>				
1. Protected Species and Habitat	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Wetlands and Other Surface Waters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Essential Fish Habitat (EFH)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Floodplains	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Sole Source Aquifer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Water Resources	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Aquatic Preserves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Outstanding Florida Waters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Wild and Scenic Rivers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Coastal Barrier Resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6. Physical Resources</b>				
1. Highway Traffic Noise	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Air Quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Contamination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Utilities and Railroads	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**USCG Permit**

- A USCG Permit IS NOT required.
- A USCG Permit IS required.

\* **Impact Determination:** Yes = Significant; No = No Significant Impact; Enhance = Enhancement; NoInv = Issue absent, no involvement. Basis of decision is documented in the referenced attachment(s).

### 3. Social and Economic

The project will not have significant social and economic impacts. Below is a summary of the evaluation performed.

#### 3.1 Social

This project is located in southern Broward County within the incorporated Town of Pembroke Park and the Cities of Hallandale Beach and Hollywood (see **Cities Location Map**). For this study, census block data from each of the incorporated areas was collected. The corridor begins south of Hallandale Beach Boulevard (the Miami-Dade/Broward County Line) and continues north along I-95 to north of Hollywood Boulevard (to Johnson Street). At the three interchanges, the limits are: east of South Park Road to west of NW 10th Terrace (Hallandale Beach Boulevard), east of South Park Road to east of NW 9th Avenue (Pembroke Road), and Calle Largo Drive to approximately North 29th Avenue (Hollywood Boulevard). Pertinent community features are shown in the **Community Features Map**.

The SCE study area comprises an approximate 0.25-mile (1,320 feet) radius/buffer around the corridor and intersects 13 census blocks. The census blocks selected for evaluation were predominately contained within the study area (see **Census Block Location Map**) to ensure the census data is representative of the study area. For example, census block data was not included if the study area included 25% or less of the block.

The summarized census block data is shown in the Summarized Census Block Data Table. Census data showed eight census blocks with greater than 50% minority populations.

#### Summarized 2015 Census Block Data

Census Block	Total Area (acres)	Total Population	Households	Black	Latino
1	122.00	908	239	0%	25%
2	271.00	686	391	0%	38%
3	224.00	2,818	1,091	15%	64%
4	518.00	946	408	18%	55%
5	207.00	2,191	634	36%	50%
6	406.00	3,077	1,179	15%	52%
7	170.00	1,864	505	70%	19%
8	185.00	1,611	587	33%	22%
9	114.00	1,236	521	22%	48%
10	224.00	1,197	451	0%	49%
11	169.00	1,950	853	44%	31%
12	151.00	1,351	494	9%	32%
13	171.00	581	315	12%	13%

In accordance with the Efficient Transportation Decision Making (ETDM) Summary Report, Income Map (dated October 20, 2015), north of Pembroke Road, on the east side of I-95 between Washington Street and Johnson Street are communities where the number of households below poverty were reported to be greater than 20%. Similarly, south of Pembroke Road on both sides of I-95, to the Broward/Miami-Dade County Line, the number of households whose incomes are reported to be below poverty is greater than 20% (specifically census blocks 2-5, 8, and 11).

Agency coordination regarding social impacts occurred through the ETDM Programming Screening (ETDM #14254). The ETDM Programming Screen Summary Report identified the Summary Degree of Effect for Social ranged from "Minimal" to "Substantial". The "Substantial" ranking was provided by the Environmental Protection Agency (EPA) and based on the potential for the project to have a disproportionately high and adverse human health or environmental effects on low-income, minority, and other special populations.

A total of 38 parcels will be impacted by the preferred alternative (9 residential-including one condominium, 25 commercial/industrial sites, and four miscellaneous sites consisting of road right-of-way, ditches, etc.). The majority of the proposed improvements are contained within existing FDOT limited access ROW, but ROW is being acquired primarily for drainage/ponds. The number of ROW impacts was reduced to the lowest amount practical and still meet the project's purpose and need. The FDOT conducted public outreach with local officials regarding the proposed improvements as well as meetings to discuss the proposed improvements with the public. Based on the above, the preferred alternative does not result in a disproportionate, adverse direct or indirect effect to low income, minority, or other disadvantaged communities. Changes to demographics or population characteristics within the study area are not anticipated, so environmental justice concerns are not anticipated.

The I-95 mainline is a limited access roadway, so east-west travel is only available at the existing cross streets (Hallandale Beach Boulevard, Pembroke Road and Hollywood Boulevard). However, the project will not create isolated areas, disrupt social relationships and patterns, or affect connectivity to community activity centers. Positive impacts are anticipated from improvements to local and regional transportation mode interfaces. The proposed bridges are adjacent to I-95's existing mainline and do not inhibit east-west travel (vehicular or pedestrian) between communities. Therefore, direct or indirect impacts to community cohesion are not anticipated. Conversely, the proposed project is anticipated to enhance access and mobility to the surrounding commercial/industrial and residential areas along I-95 as well as facilitate access to Miami-Dade and Palm Beach County.

The majority of the proposed roadway improvements, associated with the preferred alternative, will occur within the existing FDOT ROW, except for necessary drainage requirements. However, implementation of the preferred alternative will affect the service access to the St. John's Lutheran Church, which is located just east of I-95 and south of Hollywood Boulevard. The current service access is located within the FDOT ROW. Service access to the church will remain, but modified. No other long term access or service disruptions are anticipated with the preferred alternative.

Short-term impacts caused by construction activities, such as traffic congestion/delays, noise from construction equipment, and dust from roadway construction may occur but will end once construction is complete.

The project is anticipated to improve emergency evacuation capabilities by enhancing connectivity and accessibility to major arterials designated on the state evacuation route. The designated evacuation routes and zones map for Broward County identifies I-95 is included as one of those critical routes.

The City of Hollywood and the City of Hallandale Beach have their own police and fire departments and they are located outside of the project's 0.25-mile radius. The Town of Pembroke contracts their police and fire rescue services through the Broward Sheriff's Office. Disruptions to emergency services are not anticipated with the preferred alternative.

### 3.2 Economic

This project provides the ability to incorporate a regional express bus service that will provide an alternative to auto travel and help address the needs of low-income users and disadvantaged groups. No disruption in pedestrian traffic or travel is anticipated except for the existing shuttle route between the Pembroke Road and Hollywood Boulevard Interchanges. However, this shuttle can travel along the adjacent parallel corridors to I-95. Drivers exiting I-95 to the interchanges will be able to arrive at their cross street destinations faster by avoiding congestion along I-95, shorter queues at the ramp terminals and less traffic signal cycles; thereby enhancing both mobility and potentially economics. In accordance with the ETDM Summary Report, this category was designated a Minimal degree of effect.

### 3.3 Land Use Changes

The existing Land Use and Cover within the right of way (ROW) is transportation (road and highway) with supporting features such as drainage swales. The land use and cover within the study area is listed in the Existing Land Use and Cover Table.

Existing Land Use and Cover within the Study Area

<b>Land Use and Cover</b>
Channelized Waterways, Canals
Commercial and Services
Educational Facilities
Golf Course
Fixed Single Family Units
Mobile Home Units
Multiple Dwelling Units: Low and High Rise
Open Land
Other Light Industry
Parks/Recreation
Reservoirs
Retail Sales and Services
Roads and Highways

The Town of Pembroke Park and the Cities of Hallandale Beach and Hollywood, as well as Broward County, adopted comprehensive plans to establish goals, objectives and policies for future growth. Refer to each municipalities' and Broward County's future land use maps.

This I-95 project is included in the Broward County Metropolitan Planning Organization (MPO) Transportation Improvement Plan (TIP), the FDOT Work Program, the FDOT STIP, and the FDOT SIS Five Year Work Program. The Broward County MPO 2045 Long Range Transportation Plan included improvements to all I-95 interchanges in Broward County. As the existing corridor is developed, the future land use associated with it is anticipated to be very similar to the existing land use. The proposed improvements may result in redevelopment within the proposed study area, but this redevelopment will occur on land previously developed.



As depicted on the City of Hallandale Beach's Future Land Use Map (completed as part of the city's comprehensive plan), the existing and future land uses area are similar in that both identify residential, commercial, and educational uses adjacent to I-95.

The Town of Pembroke Park's existing land use in the project area is typically residential and commercial uses. As depicted on the Town of Pembroke Park's Future Land Use Map (completed as part of the city's comprehensive plan), the eastern side of the Town's limits (adjacent to I-95) are predominately residential, commercial, and industrial uses. The west side of the Town's future land use consists primarily of residential, commercial, educational/community facilities and recreational. This portion of the Town is outside the proposed study area.

The City of Hollywood's existing land use consists of residential, golf course, educational facilities, and commercial/services. As depicted on the City of Hollywood's Future Land Use Map (completed as part of the city's comprehensive plan), both sides of the project corridor consist of residential, commercial, parks and open space, educational facilities, and Regional Activity Center (RAC). A future RAC is proposed along Hollywood Boulevard, east of I-95 within the study limits. A RAC is a high intensity, high density multi-use area designed as appropriate for growth by the local government or jurisdiction. A RAC is intended to encourage attractive and functional mixed living, working, shopping, education, and recreation centers and also encourages mass transit and reduction in auto travel. The existing land use and future land use are similar except for the RAC. Incorporating a potential regional bus service and maintaining the existing shuttle service is consistent with the goals of the City of Hollywood's RAC.

The Broward County Land Use Plan was included to show surrounding future land use outside the project area. Overall, the existing and future land use maps of the municipalities are similar, as they both show residential, commercial and activity centers adjacent to the project boundaries.

As stated above, the future land use is similar to the existing land use. While the project may result in redevelopment of parcels, this redevelopment would occur over previously developed land. Therefore based on the above, adverse effects (direct/indirect) to land use are not anticipated as a result of this project.

### **3.4 Mobility**

The preferred alternative will improve mobility, travel speeds, and travel time for this vital SIS facility as well as on the cross streets. This project provides the ability to incorporate a regional express bus service that will provide an alternative to auto travel and help address the needs of low-income users and disadvantaged groups. No disruption in pedestrian traffic or travel between communities is anticipated except for the existing shuttle route between the Pembroke Road Interchange and Hollywood Boulevard Interchange. This shuttle route will be impacted by the preferred alternative by not accommodating direct travel between the two interchanges using I-95. However, this shuttle can travel along the adjacent parallel corridors to I-95. Drivers exiting I-95 to the interchanges will be able to arrive at their cross street destinations faster by avoiding congestion along I-95, shorter queues at the ramp terminals and less traffic signal cycles; thereby enhancing mobility. In accordance with the ETDM Summary Report, the degree of effect for Mobility is Enhanced.

### **3.5 Aesthetic Effects**

One new bridge is proposed with the preferred alternative adjacent to the Highland Garden Neighborhood. Aesthetic/visual impacts from this proposed bridge to this neighborhood are not anticipated as it is proposed adjacent to an existing I-95 bridge and not independently located within a new area that could then obstruct a previously unobstructed

view. The other proposed bridges and bridge widenings are not adjacent to residences, so aesthetic direct and indirect impacts are not anticipated. Existing landscaping will be impacted along the project corridor. The FDOT will coordinate with the Cities of Hallandale Beach, Hollywood and the Town of Pembroke Park on replacement landscaping during the project's design phase. Therefore, aesthetic impacts, post-construction, due to landscaping are not anticipated. FDOT committed to public outreach with the Broward County MPO and the Cities and Town to solicit input from the general public on community preferences as they relate to improving aesthetics of the area. Therefore, aesthetic impacts, post-construction, due to landscaping are not anticipated. In accordance with the ETDM Summary Report, the degree of effect assigned was Minimal.

### **3.6 Relocation Potential**

A total of 38 parcels will be impacted by the preferred alternative (nine residential sites (including one condominium), 25 commercial/industrial sites, and four miscellaneous sites consisting of road right-of-way, ditches, etc.) that results in the relocation of 68 businesses and three (3) residences. There are three (3) potential business relocations and two (2) personal property relocations. These relocations will be conducted in accordance with FDOT's *Conceptual Relocation Plan*. Per the ETDM Summary Report, the degree of effect assigned was Minimal.

FDOT conducted a review of the area that revealed a sufficient number of decent, safe and sanitary comparable single-family homes and duplexes located in the City of Hollywood (zip code 33020) available for both sale and lease at this time. As relocation activities begin and the needs of individuals to be relocated are determined, a search for specific replacement residential units will be performed.

If Housing of Last Resort becomes necessary, compensation greater than the current maximum replacement housing payment of \$31,000 for owner/occupants and \$7,200 for tenants will be provided.

In order to minimize the unavoidable effects of Right of Way acquisition and displacement of people, a Right of Way and Relocation Assistance Program will be carried out in accordance with Florida Statute 421.55, Relocation of displaced persons, and the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Public Law 91-646 as amended by Public Law 100-17).

### **3.7 Farmland Resources**

Lands within the project vicinity do not meet the definition of farmland as defined in 7 CFR § 658 and the provisions of the Farmland Protection Policy Act of 1981 do not apply because the entire project area is located in the urbanized area of Miami with no designated farmlands adjacent to the project corridor.

## 4. Cultural Resources

The project will not have significant impacts to cultural resources. Below is a summary of the evaluation performed.

### 4.1 Section 106 of the National Historic Preservation Act

A Cultural Resource Assessment Survey (CRAS), conducted in accordance with 36 CFR Part 800, was performed for the project, and the resources listed below were identified within the project Area of Potential Effect (APE). FDOT found that some of these resources meet the eligibility criteria for inclusion in the National Register of Historic Places (NRHP), and State Historic Preservation Officer (SHPO) has concurred with this determination. After application of the Criteria of Adverse Effect, and in consultation with SHPO, FDOT has determined that the proposed project will have No Adverse Effect on these resources.

In 2018, FDOT conducted the *CRAS for the I-95 / SR 9 PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) in Broward County, Florida* for the current PD&E Study for the proposed improvements to I-95 / SR 9 from South of Hallandale Beach Boulevard to North of Hollywood Boulevard on behalf of FDOT District 4 (Janus Research 2018; FMSF Manuscript No. 25712). The SHPO determined that the report was complete and sufficient and concurred with the recommendations on August 29, 2018. In 2019, Janus Research submitted the *Section 106 Documentation and Determination of Effects Case Study for the I-95/SR 9 PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820), Broward County, Florida*. The Section 106 Case Study and Determination of Effects focused on three resources: Hollywood Seaboard Air Line Railway Station (8BDE163), Seaboard Air Line (CSX) Railroad (8BD4649/8DA10753), and Stratford's (8BD6648). The SHPO concurred with the recommendations that there would be no adverse effects on the three resources on January 16, 2019 (Janus Research 2019).

In 2020, changes to the design of the project improvements necessitated expansion of the APE and additional field survey. This 2020 document serves as an addendum to the original CRAS report.

No archaeological resources were identified within the current archaeological APE as a result of the subsurface testing and pedestrian survey conducted for the current survey. One judgmental shovel test was excavated. No cultural material was recovered. Shovel testing was not conducted within most of the project area due to the presence of buried utilities, berms, ditches, pavement, existing ponds, and standing water.

In accordance with the 2020 addendum, a historic resources survey resulted in the identification of ten previously recorded (8BD4649/8DA10753, 8BD6496, 8BD6524-8BD6527, 8BD6633, 8BD6647, 8BD6671, 8BD6672) and eight newly recorded historic resources (8BD7709-8BD7715, 8BD7738) within the current project APE. Among the ten previously recorded resources, only the Seaboard Air Line (CSX) Railroad (8BD4649/8DA10753), which was recorded as part of the 2018 CRAS, was determined eligible for listing in the National Register. The eight newly recorded resources included six standing structures and two resource groups (building complexes). These buildings and resource groups all exhibited alterations that compromised their historic integrity. While some had historical associations, none rose to a level of significance that would make them eligible for listing in the National Register. Due to the overall lack of integrity among the buildings within and immediately surrounding the APE, it appears there are no National Register-eligible historic districts that would encompass any portion of the APE. The SHPO concurred with these findings on January 7, 2021.

An additional design change occurred in 2021. This design change did not involve changes to the project's elements that affected the findings reported in the 2020 addendum and therefore should not affect SHPO's concurrence.

## 4.2 Section 4(f) of the USDOT Act of 1966, as amended

The following evaluation was conducted pursuant to Section 4(f) of the U.S. Department of Transportation Act of 1966, as amended, and 23 CFR Part 774.

The potential Section 4(f) park resources adjacent to the corridor and evaluated as part of this PD&E Study are shown in the Potential Section 4(f) Resources Table and Potential Section 4(f) Resources Map. A total of six resources were identified.

### **Potential Section 4(f) Resources**

<b>Map No.</b>	<b>Park Name</b>	<b>Address</b>	<b>Official with Jurisdiction (OWJ)</b>
1	Ives Estate Park	20901 NE 16th Ave	Miami-Dade County
10	Oreste Blake (OB) Johnson Park	1000 NW 8th Avenue	City of Hallandale Beach
12	McNicol Community Center	1411 S 28th Avenue	City of Hollywood
16	Orangebrook Golf Course and Country Club	400 Entrada Drive	City of Hollywood
24	Lions Park	3003 Hollywood Boulevard	City of Hollywood
29	Stanley Goldman Memorial Park	800 Knights Road	City of Hollywood

The FDOT evaluated the preferred alternative in relation to the above Section 4(f) resources previously described (Lions Park, Stan Goldman Memorial Park, McNicol Community Center, Orangebrook Golf Course, and OB Johnson Community Center) and a "No Use" Determination was made. The FDOT evaluated the preferred alternative in relation to Ives Estates Park and determined there would be no Section 4(f) involvement with that resource. All of the resources, except Ives Estates Park and OB Johnson, are located within the City of Hollywood. OB Johnson is located within the City of Hallandale Beach and Ives Estates Park is located within Miami-Dade County. Coordination regarding Section 4(f) significance occurred with the Cities of Hollywood and Hallandale Beach as the Officials with Jurisdiction. FDOT received the City of Hollywood's significance determination on October 2, 2018 and the City of Hallandale Beach's significance determination on July 23, 2018. Note that Ingalls Park is also located within the City of Hallandale Beach but outside the 0.25-mile buffer, therefore further review of this resource was not performed.

Short-term impacts caused by construction activities, such as traffic congestion/delays, noise from construction equipment, and dust from roadway construction may occur temporarily during construction. Once construction is complete, these will no longer be present. No other direct or indirect effects to recreational areas are anticipated as a result of the preferred alternative.



### **4.3 Section 6(f) of the Land and Water Conservation Fund Act of 1965**

The following evaluation was conducted pursuant to Section 6(f) of the land and water conservation fund of 1965.

Stan Goldman Memorial Park is a Section 6(f) resource. It is managed by the City of Hollywood which is the Official with Jurisdiction and determined the resource significant to the City. Pursuant to the project's proposed improvements, conversion of Section 6(f) land is not proposed. The FDOT assigned a No Use Determination for this resource.

### **4.4 Recreational Areas and Protected Lands**

There are two conservation lands within the 0.25-mile buffer of the project, Ives Estates Park and a portion of the C-10 Canal (CERP Study Area - Broward County Secondary Canal System), north of Hollywood Boulevard. Road improvements associated with this project are not anticipated to impact either resource.

DRAFT

## 5. Natural Resources

The project will not have significant impacts to natural resources. Below is a summary of the evaluation performed:

### 5.1 Protected Species and Habitat

The following evaluation was conducted pursuant to Section 7 of the Endangered Species Act of 1973 as amended as well as other applicable federal and state laws protecting wildlife and habitat.

Through the ETDM process, the degree of effect assigned to Wildlife and Habitat by the FHWA, USFWS, and Florida Fish and Wildlife Conservation Commission (FWC) was *Minimal*. The degree of effect assigned to Wildlife and Habitat by the Florida Department of Agriculture and Consumer Services (FDACS) was *None*.

CECOS prepared a Natural Resource Evaluation for the project in accordance with the *FDOT PD&E Manual, Part 2, Chapters 9 (Wetlands and Other Surface Waters), 16 (Protected Species and Habitat) and 17 (Essential Fish Habitat)* and other state and federal laws and requirements. The purpose of the report was to document the protected species, essential fish habitats and wetland analyses in support of the environmental study consistent with federal, state, and local objectives for the preferred alternative.

Based on the results of the combined desktop review and on-site reviews, the federally-listed species potentially present within the project area are shown in the Federally-Listed Species Table below with their corresponding listing status and potential for occurrence.

#### Federally-Listed Species with the Potential to Occur in the Project Area

Scientific Name	Common Name	Listing Status	Probability of Occurrence
<b>REPTILES</b>			
<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	FT	Low
<i>Crocodylus acutus</i>	American Crocodile	FT	Low
<b>BIRDS</b>			
<i>Mycteria americana</i>	Wood Stork	FT	Moderate
<i>Rostrhamus sociabilis plumbeus</i>	Everglade Snail Kite	FE	Low
<b>MAMMALS</b>			
<i>Trichechus manatus latirostris</i>	West Indian (Florida) Manatee	FT	Moderate
<i>Eumops floridanus</i>	Florida bonneted bat	FE	Moderate
<b>PLANTS</b>			
<i>Halophila johnsonii</i>	Johnson's Seagrass	FT	No
<b>Note:</b> FT = Federally-designated Threatened; FE = Federally-designated Endangered			

Based on field reviews, some state-listed species could be associated with the project corridor. These species are listed in the State-Listed Species Table below.

#### State-Listed Species with the Potential to Occur in the Project Area

Scientific Name	Common Name	Listing Status	Probability of Occurrence
<b>REPTILES</b>			
<i>Gopherus polyphemus</i>	Gopher Tortoise	ST	Low
<b>BIRDS</b>			
<i>Athene cunicularia floridana</i>	Florida Burrowing Owl	ST	Moderate
<i>Egretta caerulea</i>	Little Blue Heron	ST	High
<i>Egretta tricolor</i>	Tricolored Heron	ST	High

**Note:** ST = State-designated Threatened

The project corridor falls within the Core Foraging Area (CFA) of two nesting wood stork colonies and the consultation areas of the Everglades snail kite, American crocodile and the Florida bonneted bat. The project is also located within the South Florida Urban Bat Area. However, no listed species were observed within or directly adjacent to the project corridor. Minimal potential habitat exists within the corridor for the Eastern indigo snake, Florida burrowing owl, gopher tortoise, and commensal species. Impacts to listed species are not anticipated with the preferred alternative; however, if the above-mentioned species are encountered within or adjacent to the ROW, a relocation permit may be required from FWC. The project is located within urban Broward County so, minimal, appropriate habitats are available for protected species within or adjacent to the ROW. Naturally-occurring uplands and wetlands are located outside the ROW and will not be impacted.

It was determined the project "**May Affect, Not Likely to Adversely Affect**" the federally listed eastern indigo snake, American crocodile, and wood stork. The FDOT's determination of effect for the Florida bonneted bat is **May Affect, Not Likely to Adversely Affect with BMPs**. The FDOT determine the project will have "**No Effect**" on the Everglade snail kite, West Indian manatee, and Johnson's seagrass.

It was determined after evaluation that the project will have "**No Adverse Effect**" to the state-listed Florida burrowing owl, little blue heron, tricolored heron, and gopher tortoise.

## 5.2 Wetlands and Other Surface Waters

The following evaluation was conducted pursuant to Presidential Executive Order 11990 of 1977 as amended, Protection of Wetlands and the USDOT Order 5660.1A, Preservation of the Nation's Wetlands.

Through the ETDM process, the degree of effect assigned to Wetlands by the US Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), SFWMD, FHWA was *Minimal*. The degree of effect assigned by the EPA was *Moderate*. In accordance with the FDOT PD&E Manual, Chapter 9 (July 1, 2020) Executive Order 11990, Protection of Wetlands as well as applicable state and federal regulatory requirements (Section 404 of the Clean Water Act and Chapter 373, Florida Statute, respectively) a wetland and other surface waters (OSW) evaluation was conducted for the project.

One fringe mangrove wetland adjacent to the C-10 Canal is present with hydrophytic vegetation, hydric soils, and hydrology. This wetland is considered jurisdictional to regulatory agencies and the hydrology of this area is dependent upon the C-10 Canal. In addition, four man-made SFWMD permitted stormwater swales with hydrophytic vegetation were also observed within the study area. Hydric soils are not present and their hydrology appeared dependent on rainfall,

stormwater runoff, and groundwater. These swales were considered jurisdictional surface waters as they are part of an existing SFWMD permitted stormwater drainage system. Other man-made surface waters were observed within the project area, including retention ponds associated with developments. The majority of these retention ponds do not contain littoral vegetation although some contained tapegrass (*Vallisneria spiralis*), duck potato (*Sagittaria latifolia*), spike rush (*Eleocharis spp.*), water hyssop (*Bacopa spp.*) and bald cypress (*Taxodium distichum*) at the time of the field reviews. The wetlands, wet swales, and surface waters table below summarizes those areas found within 500 feet of the project corridor, and describes the size, hydrologic contiguity and vegetative structural diversity.

## Wetlands, Wet Swales and Surface Waters within 500 Feet of the Corridor

ID	FLUCCode	NWI Code	Approx. Area Within 500' Buffer (AC)	Description	Dominant Wetland Vegetation	Hydric Soils (Historic)	Hydrologic Connection to Waters of the US
WL-1	612	E1UBLx	0.43	Mangrove fringe west of I-95 bordering brackish C-10 Canal. The wetland is within the canal adjacent to Stan Goldman Park and Lions Park, just north of Hollywood Boulevard.	White mangrove ( <i>Laguncularia racemosa</i> ) fringe, co-mingled with melaleuca, bald cypress, leather fern ( <i>Acrostichum danaeifolium</i> ), and pond apple	Yes (Ok)	Yes
Swale-1	511	PEM1Cx	0.17	Wet drainage swale located to the east of I-95 just south of Hallandale Beach Boulevard.	Water hyssop ( <i>Bacopa monieri</i> ) and primrose willow ( <i>Ludwigia spp.</i> )	No (Ur)	No
Swale-2	511	PEM1Cx	0.27	Wet drainage swale located to the east of I-95 just north of Hallandale Beach Boulevard.	Water hyssop, bald cypress Pennywort ( <i>Hydrocotyle spp.</i> ), and primrose willow	No (Ur)	No
Swale-3	511	PEM1Cx	0.04	Wet stormwater swale located on the west side of I-95 between Pembroke Road and Hallandale Beach Boulevard.	Duck potato, spike rush, and primrose willow	No (US)	Yes
Swale-4	511	PFOCx	0.87	Wet stormwater swale located at the northern project limits, on the east side of I-95.	Bald cypress appears as part of existing landscaping adjacent to a motel	No (US)	Yes
OSW-1	530	L1UBHx	1.15	Large stormwater retention pond located within Park Lake Estates residential community, west of I-95, south of Hallandale Beach Boulevard. Between Marine Drive and Lake Shore Drive.	Not present	No (Ur)	No
OSW-2	530	PUBHx	1.14	Stormwater retention pond within Ro-Len Lakes Gardens residential community, east of I-95 between SW 10th Avenue and 11th Avenue.	Not present	No (AU)	No
OSW-3	530	PUBHx	0.42	Stormwater retention pond within residential community and Hallandale Elementary School, east of I-95 and just north of SW 8th Street.	Not present	Yes (DU)	No



OSW-4	530	PUBHx	0.62	Stormwater retention pond within single-family residential community and commercial facilities east of I-95, between Hallandale Beach Boulevard and SW 3rd Street.	SAV: Tapegrass	No (AU)	No
OSW-5	530	PUBHx	0.39	Stormwater retention pond within Green Acres Village residential community and commercial facilities. The pond is located west of I-95 between Green Acres Road and Country Club Lane.	Bald cypress and marsh fern ( <i>Thelypteris palustris</i> )	No (Ur)	No
OSW-6	530	PUBHx	0.01	Stormwater retention pond located within Lakeside Business Park, west of I-95 and north of Hallandale Beach Boulevard.	Water hyssop and melaleuca	No (Ud)	No
OSW-7	530	PUBHx/ PEM1Fx	1.49	Stormwater retention pond within the Orangebrook Golf and Country Club. Multiple culverts surround and discharge to this drainage feature, which flows connects to other ponds within the country club.	Torpedo grass ( <i>Panicum repens</i> ), water hyssop, spike rush, and primrose willow	No (Ar); Yes (Da)	Yes
OSW-8	530	PUBHx	7.60	Large stormwater retention ditch, concrete-lined that temporarily stores water to the west of I-95, in between Orangebrook golf and country club and railroad tracks. No vegetation observed	Not present	Yes (Du)	Yes
OSW-9	510	E1UBLx / R5UBH	2.61	This waterbody is part of the C-10 Canal. Multiple culverts surround and discharge to this drainage feature, which flows under Hollywood Boulevard and connects to the Orangebrook Golf & Country Club.	Not Present, No SAV Associated with WL-1	No (Ar); Yes (Ok)	Yes
OSW-10	530	PUBHx	0.05	Stormwater retention area within single-family residential homes, located east of I-95 between Johnson and Lincoln Streets. Multiple culverts surround and discharge to this drainage feature.	Not present	No (Ar)	Yes
OSW-11	530	R5UBH	0.19	Stormwater retention area within Sunset Golf Club. Dominated by open water; multiple culverts surround and discharge to this drainage feature.	Australian pine, Brazilian pepper, swamp fern ( <i>Blechnum serrulatum</i> )	Yes (Ok)	Yes
OSW-12	510	E1UBLx	<0.01	This waterbody is part of the C-10 Canal.	Cocoplum ( <i>Chrysobalanus icaco</i> ) and pond apple on bank	No (Ar)	Yes

**FLUCCS:** 510 - Streams and Waterways; 511/600 - Swale/Wetland; 530 - Reservoirs/Retention Ponds; 612 - Mangroves  
**NWI:** L1UBHx = Lacustrine, limnetic, unconsolidated bottom, excavated; PUBHx = Palustrine, unconsolidated bottom, excavated; PEM1Fx = Palustrine, emergent, persistent, semipermanently flooded, excavated; E1UBLx = Estuarine, subtidal, unconsolidated bottom, subtidal, excavated; R5UBH = Riverine, unknown perennial, unconsolidated bottom, permanently flooded; PEM1Cx = Palustrine, emergent, persistent, seasonally flooded, excavated; PFOCx = Palustrine, forested, seasonally flooded, excavated.  
**Soils:** Ar = Arents, organic substratum-Urban land complex; Ok = Okeelanta muck, drained, 0 to 1 percent slopes; Da = Dade fine sand;  
 Ud = Udorthents; AU = Arents-Urban land complex; DU = Dade-Urban land complex; US = Udorthents, shaped; Ur = Urban land

No natural wetland systems or the C-10 Canal will be impacted by the project. Direct impacts to stormwater swales within the existing I-95 right-of-way are anticipated due to construction activities only.

The anticipated other surface water impacts are summarized in the table below.

**Preferred Alternative Summary of Potential Direct Wetland and Surface Water Impacts (Acres)**

ID	FLUCCS Code	Size (Ac)	Direct Impact	
			Wetlands	Other Surface Waters
WL-1	612	0.43	0.00	0.00
Swale-1	511	0.17	0.00	0.17
Swale-2	511	0.27	0.00	0.27
Swale-3	511	0.044	0.00	0.04
Swale-4	511	0.87	0.00	0.87
OSW-1	530	1.15	0.00	0.00
OSW-2	530	1.14	0.00	0.00
OSW-3	530	0.42	0.00	0.00
OSW-4	530	0.62	0.00	0.00
OSW-5	530	0.39	0.00	0.00
OSW-6	530	0.01	0.00	0.00
OSW-7	530	1.49	0.00	0.00
OSW-8	530	7.60	0.00	0.00
OSW-9	510	2.61	0.00	0.00
OSW-10	530	0.05	0.00	0.00
OSW-11	530	0.19	0.00	0.00
OSW-12	510	0.002	0.00	0.00
<b>Total Direct Impacts</b>			<b>0.00</b>	<b>1.35</b>

**5.3 Essential Fish Habitat (EFH)**

There is no Essential Fish Habitat (EFH) in the project area.

## 5.4 Floodplains

Floodplain impacts resulting from the project were evaluated pursuant to Executive Order 11988 of 1977, Floodplain Management.

Through the ETDM process, the degree of effect assigned to Floodplains by the SFWMD and FHWA was *Minimal*.

The project falls within the limits of the Community Panel 12011C0568H and 12011C731H of the FEMA FIRM Maps of Broward County (see the **Flood Maps**). The project is located within the flood zone AH, AE, and X.

Floodplain encroachment calculations will be completed when roadway geometry and cross sections are developed further. Our preliminary evaluation indicates that the volume of excavation proposed by the ponds will mitigate the expected encroachment.

## 5.5 Sole Source Aquifer

Biscayne Aquifer

The Environmental Protection Agency (EPA) assigned a degree of effect of Moderate for water quality due to the presence of surface waters and the sole source aquifer. The South Florida Water Management District (SFWMD) assigned a degree of effect of Minimal for water quality. The project is located within the Biscayne Sole Source Aquifer. There are no potential direct effects associated with project construction identified. The project will implement stormwater BMPs to satisfy SFWMD regulatory criteria for treatment of pollutants related to transportation projects. New ponds will be constructed or existing wet retention ponds will be expanded/reconstructed to provide water quality and attenuation of roadway runoff.

During construction, the project will be required to adhere to the Florida Department of Environmental Protection's NPDES permit for construction activities. A Stormwater Pollution Plan (SWPPP) will be prepared during the design phase and implemented during construction.

Coordination with the Environmental Protection Agency (EPA) was initiated by the FDOT due to the project's location within the Biscayne Sole Source Aquifer.

Based on the information presented above, impacts to the Biscayne Sole Source Aquifer are not anticipated as a result of this project.

## 5.6 Water Resources

The Environmental Protection Agency (EPA) assigned a degree of effect of Moderate for water quality due to the presence of surface waters and the sole source aquifer. The South Florida Water Management District (SFWMD) assigned a degree of effect of Minimal for water quality. The project will implement stormwater BMPs to satisfy SFWMD regulatory criteria for treatment of pollutants related to transportation projects. New ponds will be constructed or existing wet retention ponds will be expanded/reconstructed to provide water quality and attenuation of roadway runoff.

During construction, the project will be required to adhere to the Florida Department of Environmental Protection's NPDES permit for construction activities. A Stormwater Pollution Plan (SWPPP) will be prepared during design and implemented during construction.

The FDOT committed to preparing a Water Quality Impact Evaluation (WQIE) worksheet as part of this PD&E Study. This evaluation was completed.

### **5.7 Aquatic Preserves**

There are no aquatic preserves in the project area.

### **5.8 Outstanding Florida Waters**

There are no Outstanding Florida Waters (OFW) in the project area.

### **5.9 Wild and Scenic Rivers**

There are no designated Wild and Scenic Rivers or other protected rivers in the project area.

### **5.10 Coastal Barrier Resources**

There are no Coastal Barrier Resources in the project area.

## 6. Physical Resources

The project will not have significant impacts to physical resources. Below is a summary of the evaluation performed for these resources.

### 6.1 Highway Traffic Noise

The following evaluation was conducted pursuant to 23 CFR 772 Procedures for Abatement of Highway Traffic Noise and Construction Noise, and Section 335.17, F.S., State highway construction; means of noise abatement.

A traffic noise study was performed in accordance with 23 CFR 772, *Procedures for Abatement of Highway Traffic Noise and Construction Noise* (July 13, 2010), the FDOT's PD&E Manual, Part 2, Chapter 18, *Highway Traffic Noise* (July 1, 2020), and *FDOT's Traffic Noise Modeling and Analysis Practitioners Handbook* (December 31, 2018).

Design year (2045) traffic noise levels for the preferred alternative will approach [i.e., within 1 dB(A)], meet, or exceed the Noise Abatement Criteria (NAC) at 182 residences and seven special land use sites within the project limits within 13 NSAs. In accordance with FHWA and FDOT policies, the feasibility and reasonableness of noise barriers were considered for these impacted noise sensitive sites. The feasibility of noise barriers by NSA is presented in the Noise Study Report (NSR)

Noise barriers were not considered a feasible abatement at two of the 13 impacted NSAs (i.e., 12W and 18W) since an effective noise barrier at these locations would block direct access to these noise sensitive areas. NSA 12W represents two impacted residences within Central Golf Section of Hollywood subdivision (i.e., NSA 12W) located west of I-95 and south of Hollywood Boulevard. The southern portion of NSA 18W represents the outdoor use areas associated with Lions Park located west of I-95 and north of Hollywood Boulevard. The locations of this subdivision and park are depicted in **Figure 5.1, Sheet 3** (attached).

Noise barriers were evaluated for 180 of 182 residences and five of the seven special land use sites that approach, meet, or exceed the NAC. Ten separate CNEs were used to assess noise barriers at these locations (i.e., CNE 1-W through CNE 10-E). The results of the noise barrier analysis for each of these CNEs are summarized in **Table 5.1** at the end of **Section 5.0**, as well as in **Sections 4.1.1** through **4.4.2** in the NSR. Of the 10 CNEs presented in **Table 5.1**, noise barriers are recommended for further consideration during the project's design phase and for public input at four locations (CNEs 2-W, 3-E, 8-E, and 10-E). Noise barriers are not recommended for further consideration at six locations (CNEs 1-W, 4-E, 5-E, 6-W, 7-W, and 9-W). The locations and limits of the noise barriers (both recommended and not recommended) are depicted on **Figure 5.1** and presented in **Table 5.1** in the NSR.

Noise barriers at one (i.e., CNE 2-W) of the four CNEs where noise barriers have been recommended for further consideration during the project's design phase are not currently considered feasible. The optimal conceptual barrier design at this location meets FDOT's noise barrier cost criteria of equal to or less than \$42,000 per benefited receptor site and FDOT's noise reduction reasonableness criteria of 7 dB(A) at one or more impacted sites. However, there does not appear to be sufficient right-of-way to construct a noise barrier at this location along the southside of Hallandale Beach Boulevard in the vicinity of the Green Acres Villages and Holiday Mobile Estates communities. Although noise barriers are not currently considered feasible, they are recommended for further evaluation at this location during the project's design phase when additional design information including topographical survey would be available to confirm the available right-



of-way at this location. The recommended noise barrier system at this location is expected to reduce traffic noise by at least 5 dB(A) at 20 residences including the three impacted residences within these residential communities. The estimated cost of the recommended noise barrier system is \$228,000.

Noise barriers at three of the four CNEs where noise barriers have been recommended for further consideration represent replacement noise barrier systems (i.e., CNEs 3-E, 8-E, and 10-E). At these three locations, the existing noise barriers or segments of the existing noise barriers, would be physically impacted by the proposed improvements and be required to be removed and replaced. The conceptual designs of these replacement noise barriers would be, at a minimum, an in-kind replacement or optimized with supplemental noise barriers to maximize the amount of noise reduction at the impacted noise sensitive receptors. In addition, the recommended conceptual noise barrier designs will meet the minimum noise reduction design goal of 7 dB(A) for at least one impacted residence. Since these are replacement noise barriers, the reasonable cost criteria of equal to or less than \$42,000 per benefited receptor site is not applicable in accordance with FDOT's noise policy. The recommended replacement noise barriers at these three CNEs are expected to reduce traffic noise by at least 5 dB(A) at 163 residences including 146 of the 175 impacted residences within these areas. In addition, the recommended noise barrier system for CNE 8-E would provide incidental benefit to one of the impacted special land uses (i.e., NSA 16E representing a playground associated with St. John's Lutheran Church). The estimated cost of the recommended noise barriers is \$3,112,200.

Additional noise barrier analysis will be performed during the project's design phase when more detailed project design information is available. It is during the project's design phase that final decisions regarding noise barrier length and height are made and an engineering constructability review is conducted to confirm that the noise barrier is feasible and support for noise barriers from the benefited noise sensitive sites is determined. Note that any of the 14-foot tall shoulder mounted noise barriers recommended for construction on a retaining or MSE wall will need approval in writing by the State Structures Design Engineer in accordance with FDOT's noise policy.

Noise barriers were not found to be feasible or cost reasonable at six CNEs. One of the six CNEs represent a residential area (i.e., 4-E). The other five represent non-residential/special land use sites (i.e., CNEs 1-W, 5-E, 6-W, 7-W, and 9-W). The cost of noise barriers at the residential areas would exceed FDOT's reasonable cost criteria of equal to or less than \$42,000 per benefited receptor site and the optimal conceptual noise barrier design did not meet the minimum noise reduction design goal of 7 dB(A) for at least one impacted residence. The usages of the special land use sites were less than required to be cost reasonable.

Based on the noise analysis performed to date, there appears to be no apparent solutions available to mitigate the noise impacts at 33 of the 182 impacted residences or at five special land use sites along the project corridor. Therefore, impacts to these and other noise sensitive sites along the project corridor are an unavoidable consequence of the project.

### **Statement of Likelihood**

FDOT is committed to the construction of feasible noise abatement measures (i.e., recommended noise barriers) at the noise impacted locations identified in **Table 5.1** and **Figure 5.1** upon the following conditions:

- Final recommendations on the construction of abatement measures are determined during the project's design and through the public involvement process;
- Detailed noise analyses during the final design process support the need, feasibility, and reasonableness of providing abatement;
- Cost analysis indicates that the cost of the noise barrier(s) will not exceed the cost reasonable criterion;
- Community input supporting types, heights, and locations of the noise barrier(s) is provided to the District Office; and

- Safety and engineering aspects as related to the roadway user and the adjacent property owner have been reviewed and any conflicts or issues resolved.

It is likely that the noise abatement measures for the identified locations will be constructed if found feasible based on the contingencies listed above. If, during the project's design phase, any of the contingency conditions listed above cause abatement to no longer be considered reasonable or feasible for a given location(s), such determination(s) will be made prior to requesting approval for construction advertisement. Commitments regarding the exact abatement measure locations, heights, and type (or approved alternatives) will be made during project reevaluation and at a time before the construction advertisement is approved.

## 6.2 Air Quality

This project is not expected to create adverse impacts on air quality because the project area is in attainment for all National Ambient Air Quality Standards (NAAQS) and because the project is expected to improve the Level of Service (LOS) and reduce delay and congestion on all facilities within the study area.

Estimates of CO were predicted for the default receptors, which are located between 10 and 150 feet from the edge of the roadway. The results of the CO Screening Analysis are presented in the **Predicted Carbon Monoxide Table**.

Table 2 - Predicted Carbon Monoxide Levels

Year	Maximum CO Levels (PPM)	
	One-Hour - Standard (NAAQS - 35 PPM)	Eight-Hour - Standard (NAAQS - 9 PPM)
Opening (2030)	8.9	5.3
Design (2045)	9.1	5.5

**Notes:** CO = Carbon Monoxide, PPM = Parts per million, NAAQS = National Ambient Air Quality Standard. No Build and Preferred Alternatives Maximum CO levels are the same.

Based on the results from the screening model, the highest project-related CO one-hour and eight-hour levels are not predicted to meet or exceed the one-hour or eight-hour NAAQS for this pollutant with either the No-Build or Preferred Alternatives. As such, the project passes the screening model.

## 6.3 Contamination

A Level I Contamination Screening Evaluation Report (CSER) was prepared in accordance with the FDOT *PD&E Manual, Part 2, Chapter 20*. The Level I assessment was conducted to determine potential contamination from properties or operations located within the vicinity of the project corridor. This evaluation included sites containing petroleum products, dry-cleaning and other hazardous materials contamination within 500 feet of the project corridor; Non-landfill solid waste facilities were evaluated within 1000 feet; and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), National Priorities List (NPL) Superfund sites and landfills were evaluated within 1/2-mile. Potential contamination sites were identified through Federal, State and County databases, historic reviews and field surveys. These sites were assigned ratings of No, Low, Medium or High in accordance with *Part 2, Chapter 20*, of the FDOT PD&E Manual.

A total of 52 sites within the screening radius were identified as potentially contaminated. Of these, 11 were ranked "High", 16 were ranked "Medium", 20 were ranked "Low", and five (5) were ranked "No" for potential contamination concerns.

Eleven sites were assigned a High risk rating due to documented releases pending clean up that may have an adverse effect on proposed construction activities such as the installation of drainage structures, dewatering, pond construction or ROW acquisition. Petroleum Products Corporation (PPC), a Superfund site is included in these eleven sites. Petroleum Products Corporation is located adjacent to the south side of Pembroke Road and approximately 850 feet west of I-95. This facility actively processed waste oil and other petroleum-derived products from 1958 to 1971. This process generated sludge waste and spent clay, contaminated with petroleum products and metals, which were disposed in unlined pits. Volatile organic compounds (VOCs), semi-VOCs, polychlorinated biphenyls (PCBs) and metals have been detected at this site, exceeding its soil and groundwater cleanup target levels (CTLs) pursuant to the Florida Administrative Code (FAC) Chapter 62-777. These impacts extend to the north boundary of the site, adjacent to Pembroke Road, and south to Bamboo Trailer Park (south of PPC). The U.S. Environmental Protection Agency, Region 4, has developed a proposed alternative for cleanup of the Superfund site. The EPA plans to issue a Record of Decision (ROD) for the proposed alternative during the summer of 2021. Remediation activities are expected to begin 18 - 24 months after the ROD is signed.

Sixteen sites were assigned a Medium risk rating. Eight of the sixteen sites were ranked as Medium due to current gas station operations. The remaining eight (8) sites were ranked as Medium due to pending or unknown cleanup status, proximity to the ROW, potential for dewatering and pond construction.

Twenty sites were assigned a Low risk rating and five (5) were assigned a No risk rating. These sites either maintained hazardous permits with no record of violations or non-compliance issues, maintained a UST, were distant in proximity to areas of proposed construction or has a historical release and was issued a Site Rehabilitation Completion Order (SRCO) or No Further Action (NFA) designation. The evaluation indicated there would not likely be any contamination impacts to the project for the Low risk sites. Contamination impacts are not expected for the No risk sites.

During the ETDM review process, the FHWA, EPA and SFWMD assigned a degree of effect of *Moderate* for the project effects of contamination. Further coordination with the regulatory agencies including the EPA, FDEP, SFWMD, and Broward County, should be conducted during the project design phase based on the results of the contamination screening evaluation. Resolution of issues regarding potential contamination should be coordinated with the appropriate regulatory agencies, and action should be taken where applicable prior to construction. If a dewatering permit is required for drainage construction, it should consider its proximity to potential contaminated sites. Additionally, FDOT will utilize best management practices during construction activities to minimize migration of existing contaminant plumes.

The preferred alternative will require a dewatering permit from the FDEP/SFWMD, as most of the project corridor has contaminated sites within 500 feet of potential dewatering areas.

Construction impacts shall be avoided and/or minimized during the design of the drainage, lighting, and signalization improvements. A Level II Assessment (as defined in *Part 2, Chapter 20* of the *PD&E Manual*) will be performed in the early stages of the final design phase to assess and identify potential contamination concerns associated with any of the Medium and High risk sites previously identified. Sites assigned a Low risk rating due to absence of any existing contamination and current regulatory compliance status, will be reassessed during the design phase.

No asbestos surveys were conducted for the preferred alternative. Bridge structures or facilities proposed for widening may have presumed ACM as defined by the Occupational Health and Safety Administration (OSHA) which includes thermal system insulation and surfacing materials. Bridge components such as Class V Finish, joints, black mastic, bearing pads, breaks for bascule bridges may contain ACM. Additionally, structures built prior to 1981, may contain presumed ACM. Asbestos surveys are recommended during final design.

No heavy metal surveys were conducted for the preferred alternative. Due to the common use of lead-based paint coating for corrosion in the 1960s and 1970s, a heavy metal survey for bridges requiring widening or demolition will be performed, as applicable, during final design.

The procedures specifying the contractor's responsibilities in regard to encountering petroleum contaminated soil and/or groundwater are set forth in the FDOT's Standard Specifications for Road and Bridge Construction. This specification requires that in the event that any hazardous material or suspected contamination is encountered during construction, or if any spills caused by construction related activities should occur, the Contractor shall be instructed to stop work immediately and notify the District Four Planning and Environmental Management (PL&EM) Office as well as the appropriate regulatory agencies for assistance. Proper notes will be included in the design plans to address contamination issues during construction.

## 6.4 Utilities and Railroads

### Utilities

Utility Agency Owners (UAOs) located in the vicinity of the I-95 were contacted and requested to provide information regarding their utility facilities within the project area. UAOs and contact information are provided in the table below.

#### UAO Contact List

Utility Company	Facility	Contact Information	
American Traffic Solutions	Not Available	Santiago Martinez 1150 North Alma School Road Mesa, AZ 85201	(480) 596-4595
AT&T Corporation (International)	Fiber Optic	Stefan Eriksson 6000 Metro West Blvd., Suite 201 Orlando, FL 32835	(407) 578-8000 <a href="mailto:seriksson@pea-inc.net">seriksson@pea-inc.net</a>
AT&T Corporation (Transmission)	Telephone	Stefan Eriksson 6000 Metro West Blvd., Suite 201 Orlando, FL 32835	(407) 578-8000 <a href="mailto:seriksson@pea-inc.net">seriksson@pea-inc.net</a>
AT&T Distribution	Telephone & Fiber	Keeve Otis 1120 South Rogers Circle	(305) 428-0510 <a href="mailto:ok1184@att.com">ok1184@att.com</a>

		Boca Raton, FL 33487	
Broward County Traffic Engineering	Fiber Optic	Robert Blount	(954) 847-2745
		2300 West Commercial Boulevard	<a href="mailto:rblount@broward.org">rblount@broward.org</a>
		Fort Lauderdale, FL 33309	
Broward County Water and Wastewater Services	Water and Sewer	Halina Pluta	(954) 831-0917
		2555 West Copans Road	<a href="mailto:HPLUTA@broward.org">HPLUTA@broward.org</a>
		Pompano Beach, FL 33069	

**UAO Contact List (Continued)**

Utility Company	Facility	Contact Information	
Century Link	Fiber Optic	Mike Fitzgerald	(941) 661-7557
		Jack Brady	(786) 495-2170
		5908-A Hampton Oaks Parkway	<a href="mailto:mike.fitzgerald@centurylink.com">mike.fitzgerald@centurylink.com</a>
		Tampa, FL 33610	<a href="mailto:jack.brady@centurylink.com">jack.brady@centurylink.com</a>
City of Hallandale Beach	Water and Sewer	Manga Ebbe	(954) 457-3043
		630 NW 2nd Street	<a href="mailto:mebbe@hallandalebeachfl.gov">mebbe@hallandalebeachfl.gov</a>
		Hallandale Beach, FL 33009	
City of Hollywood Public Works Department	Water & Sewer	Raul Carbonell	(561) 791-9280
		7777 Glades Road Suite 410	<a href="mailto:rcarbonell@craigasmith.com">rcarbonell@craigasmith.com</a>
		Boca Raton, FL 33434	
Comcast Cable	Cable TV	Christopher Taylor	(954) 239-8386
		Leonard Maxwell-Newbold	(954) 447-8405
		2601 SW 145th Avenue	<a href="mailto:Cable-utilities@cwsifl.com">Cable-utilities@cwsifl.com</a>
		Miramar, FL 33322	<a href="mailto:Leonard_Maxwell-Newbold@cable.comcast.com">Leonard_Maxwell-Newbold@cable.comcast.com</a>
Crown Castle NG	Fiber Optic	Rebecca Caldwell	(888) 632-0931
		2000 Corporate Drive	<a href="mailto:fiber.dig@crowncastle.com">fiber.dig@crowncastle.com</a>
		Canonsburg, PA 15317	
Fiberlight LLC.	Not Available	Troy Gaeta	(954) 213-3367
		11700 Great Oaks Way Suite 100	<a href="mailto:troy.gaeta@fiberlight.com">troy.gaeta@fiberlight.com</a>
		Alpharetta, Ga 33022	
Fibernet Direct	Fiber	Danny Haskett	
		Crown Castle Office	(786) 246-7827
		1601 NW 136th Avenue Suite A-200	<a href="mailto:danny.haskett@fibernetdirect.com">danny.haskett@fibernetdirect.com</a>
		Sunrise, FL 33323	

**UAO Contact List (Continued)**

Utility Company	Facility	Contact Information
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Florida City Gas	Gas	Oscar Paez	(305) 835-3622
		4045 NW 97th Avenue	<a href="mailto:fcheng@agresources.com">fcheng@agresources.com</a>
		Doral, FL 33178	<a href="mailto:opaez@southernco.com">opaez@southernco.com</a>
Florida Department of Transportation District 4 - ITS	Fiber Optic	Maria Rosado	(954) 847-2690
		2300 West Commercial Boulevard	<a href="mailto:mrosado@smartsunguide.com">mrosado@smartsunguide.com</a>
		Fort Lauderdale, FL 33309	
Florida Department of Transportation -Eland Engineering	Fiber Optic	Chris Beaudry/April Rizzo	(954) 847-1996
		3323 West Commercial Boulevard	<a href="mailto:chris.beaudry@dot.state.fl.us">chris.beaudry@dot.state.fl.us</a>
		Fort Lauderdale, FL 33309	<a href="mailto:april.rizzo@dot.state.fl.us">april.rizzo@dot.state.fl.us</a>
Florida Power & Light	Electric	Byron Sample	(386) 586-6403
		10705 Quail Roost Drive	<a href="mailto:Byron.A.Sample@fpl.com">Byron.A.Sample@fpl.com</a>
		Miami, FL 33157	
HEICO Corporation	Fiber Optic	Joe Asher	(954) 984-4000
		3000 Taft Street	<a href="mailto:jasher@heico.com">jasher@heico.com</a>
		Hollywood, FL 33021	
Level 3 Communications	Fiber Optic	Network Relations	(877) 366-8344 Ext. 2
		1025 El Dorado Boulevard	<a href="mailto:level3.networkrelocations@level3.com">level3.networkrelocations@level3.com</a>
		Broomfield, CO 80021	
MCI	Communications / Fiber Optic	Todd Mars	(786) 886-4238
		16563 NW 15th Ave	<a href="mailto:todd.mars@one.verizon.com">todd.mars@one.verizon.com</a>
		Miami, FL 33169	
Miami-Dade County Public Works and Traffic	Not Available	Octavio Vidal	(305) 412-0891 Ext. 201
		13284 SW 120th Street	<a href="mailto:ovidal@htlocating.com">ovidal@htlocating.com</a>
		Miami, FL 33186	

**UAO Contact List (Continued)**

Utility Company	Facility	Contact Information	
Miami-Dade County Water & Sewer	Water and Sewer	Sergio Garcia	(786) 268-5320
		3575 South Lejeune Road	<a href="mailto:sergio.garcia@miamidade.gov">sergio.garcia@miamidade.gov</a>
		Miami, FL 33146	
Sprint	Fiber Optic	Mark Caldwell	(321) 287-9942
		851 Rafalgar Court Suite 300	<a href="mailto:mark.d.caldwell@sprint.com">mark.d.caldwell@sprint.com</a>

		Maitland, FL 32751	
TECO People Gas South Florida	Gas	David Rivera	(954) 453-0794
		5101 NW 21st Avenue Suite 460	<a href="mailto:drrivera@tecoenergy.com">drrivera@tecoenergy.com</a>
		Fort Lauderdale, FL 33309	
Town of Davie - Utilities Department	Water and Sewer	Laura Borgesi	(954) 797-1096
		6591 Orange Drive	<a href="mailto:laura_borgesi@davie-fl.gov">laura_borgesi@davie-fl.gov</a>
		Davie, FL 33314	
Town of Pembroke Park	Sanitary, Sewer Storm	Raul Carbonell	
		Craig A. Smith and Associates	(561) 791-9280
		7777 Glades Road Suite 410	<a href="mailto:rcarbonell@craigasmith.com">rcarbonell@craigasmith.com</a>
		Boca Raton, FL 33434	
Windstream Communications	Fiber Optic	David F. Ackerman	(800) 289-1901
		929 Marthas Way	<a href="mailto:David.F.Ackerman@Windstream.com">David.F.Ackerman@Windstream.com</a>
		Hiawatha, IA 52233	
XO Communications	Fiber Optic	Tony Kowaleski	(305) 356-3160
		16563 NW 15th Avenue	<a href="mailto:anthony.kowaleski@xo.com">anthony.kowaleski@xo.com</a>
		Miami, FL 33169	

**Notes:** The UAO contact list was developed based on letters sent to each UAO or via responses received from the UAO within the I-95 corridor.

A summary of potential conflicts with the existing utility facilities within the study area is described in the supporting documentation related to utilities.

### Railroad

The South Florida Rail Corridor is a dual railroad track that runs parallel to the west side of the I-95 project corridor. This railroad line is currently under the jurisdiction of the SFRTA and owned by the FDOT. It was formerly owned by CSX Transportation and continues to carry CSX freight trains. The SFRTA also operates the commuter rail service called Tri-Rail on these tracks. Within the study limits, there is one Tri-Rail station, Hollywood Boulevard Station.

Amtrak also operates passenger trains on the South Florida Rail Corridor. North of the study limits, the Sheridan Amtrak Station is co-located with the Tri-Rail Station.

The proposed project improvements will have no adverse effect on the Hollywood Seaboard Air Line Railway Station, Seaboard Air Line (CSX) Railroad. Although there are three railroad intersections where the roadways will be widened, the railroad materials that will be removed will be replaced in-kind.

## 6.5 Construction

Construction activities may cause short-term air quality impacts in the form of dust from earthwork and unpaved roads. These impacts will be minimized by adherence to applicable state regulations and to applicable FDOT Standard Specifications for Road and Bridge Construction.

Best Management Practices will be used during construction to avoid/minimize construction impacts such as dust or other airborne pollutants, temporary noise, and stormwater runoff from the construction area. During construction, the project will adhere to the Florida Department of Environmental Protection (FDEP) NPDES construction permit criteria as well as the associated Stormwater Pollution Prevention Plan (SWPPP). FDOT will also adhere to construction permit conditions contained within the Environmental Resource Permit and/or federal Section 404 permit.

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## 7. Engineering Analysis Support

The engineering analysis supporting this environmental document is contained within the Preliminary Engineering Report.

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## 8. Permits

The following environmental permits are anticipated for this project:

### Federal Permit(s)

USACE Section 10 or Section 404 Permit

### Status

To be acquired

### State Permit(s)

DEP or WMD Environmental Resource Permit (ERP)  
DEP National Pollutant Discharge Elimination System Permit  
State 404 Permit

### Status

To be acquired  
To be acquired  
To be acquired

### Local Permit(s)

City of Hollywood Right-of-Way Permit

### Status

To be acquired

### Permits Comments

There is no bridge widening or in-water work proposed at the C-10 Canal. Therefore, a SFWMD ROW permit for the Hollywood Boulevard crossing over the C-10 Canal is not required.

The USACE recently delegated a portion of its State 404 permitting program to FDEP. If this project is determined to be within FDEP's assumed waters, then the Section 404 permit will be received from FDEP.

City of Hollywood Right-of-Way permit may be required if future work is proposed within the C-10 Canal. The C-10 Canal is owned by the City of Hollywood in the vicinity of the Hollywood Boulevard bridge crossing over the C-10 Canal.

## 9. Public Involvement

The following is a summary of public involvement activities conducted for this project:

### Summary of Activities Other than the Public Hearing

A comprehensive PIP was initiated as part of this PD&E Study. This program is in compliance with the FDOT's *PD&E Manual, Part 1, Chapter 11; Section 339.155, Florida Statutes; Executive Orders 11990 and 11988; Council on Environmental Quality Regulations for Implementing the Procedural Provisions of the National Environmental Policy Act*, and 23 CFR 771.

### Website

A FDOT webpage was created as an effective means to communicate with the public (<http://www.fdot.gov/projects/sefl/future/95/858-820/>). This webpage serves as the access point for the project and it includes project information such as: project location map, schedule, objectives, study details, newsletters, fact sheets, FAQ, public notices, and study documents, which will be uploaded as they become available throughout the PD&E Study process. The website follows FDOT guidelines and is user friendly.

### Public Kick-Off Meeting

On Thursday, May 25, 2017, the FDOT hosted a Public Kick-off Meeting. The meeting was held at the Orangebrook Golf & Country Club and was attended by 30 people. The meeting started with a short presentation including introductions, project purpose, schedule, and then was opened for questions and responses. Throughout the evening, project information was available for informal review, and members of the project team were available to hold one-on-one conversations and to respond to individual questions. Written comments received from the public involved:

- Request for posting of notifications and to eliminate at least one toll lane
- Request to evaluate the train crossings at the three intersections
- Request for a noise wall
- I-95 is not safe
- Request for an increase in public transportation stops/schedule
- Evaluate traffic congestion and noise
- Evaluate safety for traffic exiting I-95

### Alternatives Public Workshop

On Thursday, June 7, 2018, the FDOT hosted the Alternatives Public Workshop. The meeting was held at the Orangebrook Golf & Country Club and was attended by 33 people.

The meeting was conducted as a workshop with the project information made available for informal review. Members of the project team were available to hold one-on-one conversations and to respond to individual questions. Written comments provided from the public involved:

- Request for additional lighting



Request of aesthetic improvements (landscaping, for example)  
Request for additional accident data  
Request to eliminate the Tri-Rail Station at Hollywood Boulevard  
Request for drainage improvements/maintenance

Public Hearing

The hybrid public hearing is scheduled for August 26, 2021 (virtual) and September 2, 2021 (in-person).

**Date of Public Hearing:** 08/26/2021

**Summary of Public Hearing**

This is scheduled to be a virtual public hearing.

**Date of Public Hearing:** 09/02/2021

**Summary of Public Hearing**

This is scheduled to be an in-person public hearing.

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## 10. Commitments Summary

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## 11. Technical Materials

The following technical materials have been prepared to support this environmental document.

Project Location Map  
Conceptual Stage Relocation Plan  
Cultural Resources Assessment Survey (CRAS)  
Section 4(f) Determination of Applicability - OB Johnson  
Section 4(f) Determination of Applicability - Lions Park  
Section 4(f) Determination of Applicability - McNicol  
Section 4(f) Determination of Applicability - Stan Goldman  
Section 4(f) Resources Form - No Use Form - McNicol  
Section 4(f) Resources No Use Form - OB Johnson  
Section 4(f) Resources Form - No Use - Stan Goldman  
Section 4f Determination of Applicability for Stan Goldman Memorial Park  
Other Documentation for Section 6(f) - No Use Determination - Stan Goldman  
Section 4(f) Determination of Applicability - Orangebrook  
Section 4(f) Resources Form No Use - Orangebrook  
Section 4(f) Resources No Use Form - Lions Park  
Section 106 Case Study Report Final  
Other Supporting Documentation regarding Water Quality and Quantity - Drainage Coordination Meeting  
Water Quality Impact Evaluation (WQIE)  
Location Hydraulics Report  
Pond Siting Report (PSR)  
Petroleum Products Corporation Meeting Summary  
Existing Utility Locations - Excerpt from PER  
Preliminary Engineering Report  
Preliminary Engineering Report Vol 2  
Public Involvement Plan Final

## Attachments

### Planning Consistency

Project Plan Consistency Documentation - TIP  
Project Plan Consistency Documentation - STIP  
Project Plan Consistency Documentation - LRTP

### Social and Economic

Supporting Documentation Specific to Social Resources - BC Evacuation Routes Map  
Land Use Map - Current  
Supporting Documentation Specific to Social Resources Cities Town Location Map  
Supporting Documentation Specific to Social Resources Community Features Map  
Supporting Documentation Specific to Social Resources Census Block Map  
Supporting Documentation Specific to Social Resources - Census Block Data  
Supporting Documentation Specific to Land Use Changes Future Land Use  
Additional Supporting Documentation Specific to Relocation - ROW Impacts Table for Preferred Alternative  
Supporting Documentation Specific to Social Resources - ETDM Income Map

### Cultural Resources

SHPO Concurrence Letter  
Section 106 Resource Map - Final CRAS Addendum APE Map  
Correspondence with Jurisdictional Officials - City of Hollywood  
Section 4(f) Resources Form - No Use Form - McNicol  
Correspondence with Jurisdictional Officials - Hallandale Beach  
Section 4(f) Resources Form - No Use - Stan Goldman  
Conservation Lands Map

### Natural Resources

Floodplains Map - FEMA Flood Maps  
USFWS response to FDOT concurrence request  
FDOT to USFWS Coordination Letter for Florida bonneted bat  
Species and Habitat Map - Consultation Areas Map  
Species and Habitat Map - Wood Stork CFA Map  
Species and Habitat Map - FBB Urban Bat Area Map  
Wetlands Map  
Sole Source Aquifer Coordination Letter  
FBB Key Excerpt Couplets  
Other Supporting Documentation related to Protected Species and Habitat - FDOT\_USFWS Coord Mtg

### Physical Resources

Summary of Conflicts with Existing Utilities - Excerpt from PER  
Noise Map  
Other Supporting Documentation regarding Highway Traffic Noise - Noise Analysis Map  
Other Supporting Documentation regarding Highway Traffic Noise - Barrier recommendations

Other Supporting Documentation regarding Highway Traffic Noise - Noise Barrier\_Evaluation\_Table  
Potential Contamination Site Map - Overall  
Other Supporting Documentation regarding Contamination-North  
Other Supporting Documentation regarding Contamination - Central  
Other Supporting Documentation regarding Contamination - South

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## **Planning Consistency Appendix**

### **Contents:**

- Project Plan Consistency Documentation - TIP
- Project Plan Consistency Documentation - STIP
- Project Plan Consistency Documentation - LRTP

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## 5-Year Summary of Projects by Funding Category

Project #	Project Name	2021	2022	2023	2024	2025	Total
<b>ACNP - ADVANCE CONSTRUCTION NHPP</b>							
4355141	SR-9/I-95 @ SUNRISE BLVD. INTERCHANGE IMPROVEMENT	0	0	0	2,358,140	0	<b>2,358,140</b>
4369031	SR-9/I-95 FROM S. OF IVES DAIRY ROAD TO N. OF SR-822/SHERIDAN STREET	0	8,555,799	0	0	0	<b>8,555,799</b>
4369581	SR-9/I-95 @ SR-834/SAMPLE RD FR S OF NB EXIT RAMP TO N OF NB ENT. RAMP	0	0	2,982,911	0	0	<b>2,982,911</b>
4369642	SR-9/I-95 FROM SOUTH OF SW 10TH STREET TO NORTH OF HILLSBORO BLVD.	11,000,000	0	215,809,227	0	0	<b>226,809,227</b>
4378322	SR-93/I-75 FROM SHERIDAN STREET TO SOUTH OF I-595	15,719,102	71,584	0	0	0	<b>15,790,686</b>
4378324	SR-93/I-75 FROM SHERIDAN STREET TO GRIFFIN RD. AUX LANES	870,000	10,000	3,531,199	0	0	<b>4,411,199</b>
4391701	SR-9/I-95 FROM SOUTH OF SHERIDAN STREET TO NORTH OF GRIFFIN ROAD	0	500,000	2,500,000	0	20,000	<b>3,020,000</b>
4391711	SR-9/I-95 AT DAVIE BOULEVARD	0	0	510,000	2,000,000	0	<b>2,510,000</b>
4391721	SR-9/I-95 AT SR-816/OAKLAND PARK BOULEVARD	0	0	510,000	2,000,000	0	<b>2,510,000</b>
4398911	SR-869/SW 10 ST FROM W OF SR-845/POWERLINE RD TO WEST OF MILITARY TRL	38,000,000	0	147,863,533	334,000	333,000	<b>186,530,533</b>
4401432	SR-25/US-27 FR N OF I-75 INTERCHANGE TO BROWARD/PALM BEACH COUNTY LINE	359,530	0	0	0	0	<b>359,530</b>
4416681	SR-93/I-75 FROM WEST OF US-27 TO I-595	14,202,399	90,935	0	0	0	<b>14,293,334</b>
4435911	SR-7/US-441 @ OAKES ROAD	15,000	45,000	2,427,002	0	0	<b>2,487,002</b>
4456731	I-595 EASTBOUND TO NORTHBOUND RAMP AT SR-7/US-441	140,811	0	0	0	718,937	<b>859,748</b>
<b>Total</b>		<b>96,541,442</b>	<b>13,573,318</b>	<b>380,133,872</b>	<b>27,555,221</b>	<b>31,345,759</b>	<b>549,149,612</b>

## 5-Year Summary of Projects by Funding Category

Project #	Project Name	2021	2022	2023	2024	2025	Total
<b>DDR - DISTRICT DEDICATED REVENUE</b>							
4337341	BROWARD OPERATIONS CONTINUING CEI CONSULTANT INSPECTION SUPPORT	200,000	50,000	0	0	0	250,000
4337371	BROWARD OPERATION CONTINUING CEI INSPECTION SUPPORT	200,000	200,000	100,000	0	0	500,000
4344771	SR-93/I-75 FROM SOUTH OF GRIFFIN RD TO SOUTH OF I-75/I-595 INTERCHANGE	0	0	0	598,140	0	598,140
4344802	CITY OF FT. LAUDERDALE TRANSIT CORRIDOR DOWNTOWN ROUTE	182,680	0	0	0	0	182,680
4347113	BROWARD COUNTY PAVEMENT MARKINGS & SIGNING	0	666,550	0	0	0	666,550
4347114	BROWARD COUNTY PAVEMENT MARKINGS & SIGNING	0	0	0	677,692	0	677,692
4355131	SR-9/I-95 @ SR-842/BROWARD BOULEVARD	0	982,640	3,749,996	5,780,466	0	10,513,102
4355141	SR-9/I-95 @ SUNRISE BLVD. INTERCHANGE IMPROVEMENT	0	1,491,138	3,650,000	0	0	5,141,138
4363081	EASTBOUND SR-84 TO SOUTHBOUND SR-93/I-75 ON-RAMP	25,000	0	0	0	0	25,000
4363392	BROWARD COUNTY PUSH BUTTON CONTRACT TRAFFIC SIGNAL CONST	0	1,167,950	0	0	0	1,167,950
4363393	BROWARD COUNTY PUSH BUTTON CONTRACT TRAFFIC SIGNAL CONST	0	0	0	1,010,000	0	1,010,000
4369031	SR-9/I-95 FROM S. OF IVES DAIRY ROAD TO N. OF SR-822/SHERIDAN STREET	0	4,212,108	0	0	0	4,212,108
4369581	SR-9/I-95 @ SR-834/SAMPLE RD FR S OF NB EXIT RAMP TO N OF NB ENT. RAMP	16,495	285,003	0	0	0	301,498
4369621	SR-9/I-95 @ COPANS RD FR S OF NB EXIT RAMP TO N OF SB TO WB EXIT RAMP	0	400,000	0	0	0	400,000

### 5-Year Summary of Projects by Funding Category

Project #	Project Name	2021	2022	2023	2024	2025	Total
<b>DIH - STATE IN-HOUSE PRODUCT SUPPORT</b>							
4363393	BROWARD COUNTY PUSH BUTTON CONTRACT TRAFFIC SIGNAL CONST	0	0	0	24,020	0	24,020
4363762	DISTRICTWIDE TRAFFIC OPERATIONS SAFETY REVIEWS AND STUDIES	10,000	10,000	10,000	10,000	10,000	50,000
4369031	SR-9/I-95 FROM S. OF IVES DAIRY ROAD TO N. OF SR-822/SHERIDAN STREET	90,000	0	0	0	0	90,000
4369643	SR-9/I-95 FROM S OF SR-869 / SW 10TH STREET TO BROWARD/PALM BEACH CL	0	0	0	0	5,000	5,000
4379011	DISTRICTWIDE ENVIRONMENTAL SERVICES	0	0	64,300	59,050	59,050	182,400
4381171	SR-84 FROM GLADES PARKWAY TO WESTON ROAD	47,884	43,033	0	0	0	90,917
4397141	SR-5/US-1 FR SR-862/I-595 TO N OF SR-842/BROWARD BLVD	135,049	111,298	0	0	0	246,347
4398912	SR-869/ SW 10TH STREET FROM SR-845/ POWERLINE ROAD TO MILITARY TRAIL	0	0	0	0	51,000	51,000
4399911	SR-5/US-1/FEDERAL HWY FROM JOHNSON ST TO SR-822/SHERIDAN ST	0	112,459	0	0	0	112,459
4400101	DISTRICTWIDE TRAFFIC OPS SIGNAL RETIMING	0	3,000	3,000	0	0	6,000
4401431	SR-25/US-27 FR N OF I-75 INTERCHANGE TO BROWARD/PALM BEACH COUNTY LINE	92,458	94,891	0	0	0	187,349
4412731	DISTRICTWIDE ENVIRONMENTAL SERVICES	50,000	50,000	0	0	0	100,000
4412732	DISTRICTWIDE ENVIRONMENTAL SERVICES	0	0	50,000	50,000	50,000	150,000
4413191	SR-93/I-75 FROM SR-823/SHERIDAN STREET TO SOUTH OF I-595	0	0	0	5,000	0	5,000
4413601	A1A FROM SOUTHERN CITY LIMIT OF HILLSBORO BEACH TO SOUTHEAST 3RD ST.	0	26,980	27,697	0	0	54,677



PAGE 102  
AS-OF DATE: 07/01/2020

FLORIDA DEPARTMENT OF TRANSPORTATION  
OFFICE OF WORK PROGRAM  
STIP REPORT

DATE RUN: 07/07/2020  
TIME RUN: 08.40.51  
MBRSTIP-1

=====

HIGHWAYS

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ITEM NUMBER:436876 1 PROJECT DESCRIPTION:MILITARY TRAIL FROM GOOLSBY BLVD. TO SOUTH OF HILLSBORO BLVD. \*NON-SIS\*

DISTRICT:04 COUNTY:BROWARD TYPE OF WORK:SIDEWALK

PROJECT LENGTH: .790MI

FUND CODE	LESS THAN 2021	2021	2022	2023	2024	GREATER THAN 2024	ALL YEARS
FEDERAL PROJECT NUMBER: D418 044 B							
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY CITY OF DEERFIELD BEACH							
TALT	46,202	0	0	0	0	0	46,202
TALU	143,771	0	0	0	0	0	143,771
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT							
TALU	2,838	2,381	0	0	0	0	5,219
TOTAL D418 044 B	192,811	2,381	0	0	0	0	195,192

FEDERAL PROJECT NUMBER: 8886 823 A							
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT							
TALT	5,328	0	0	0	0	0	5,328
TOTAL 8886 823 A	5,328	0	0	0	0	0	5,328
TOTAL 436876 1	198,139	2,381	0	0	0	0	200,520
TOTAL Project:	198,139	2,381	0	0	0	0	200,520

-----

ITEM NUMBER:436903 1 PROJECT DESCRIPTION:SR-9/I-95 FR S OF SR-858/HALLANDALE BCH BLVD TO N OF SR-820/HOLLYWOOD \*SIS\*

DISTRICT:04 COUNTY:BROWARD TYPE OF WORK:PD&E/EMO STUDY

PROJECT LENGTH: 6.651MI

FUND CODE	LESS THAN 2021	2021	2022	2023	2024	GREATER THAN 2024	ALL YEARS
FEDERAL PROJECT NUMBER: <N/A>							
PHASE: P D & E / RESPONSIBLE AGENCY: MANAGED BY FDOT							
DDR	5,402,421	585,079	0	0	0	0	5,987,500
DIH	114,983	8,329	0	0	0	0	123,312
PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT							
DDR	9,610	0	0	0	0	0	9,610
TOTAL <N/A>	5,527,014	593,408	0	0	0	0	6,120,422



PAGE 103  
AS-OF DATE: 07/01/2020

FLORIDA DEPARTMENT OF TRANSPORTATION  
OFFICE OF WORK PROGRAM  
STIP REPORT

DATE RUN: 07/07/2020  
TIME RUN: 08.40.51  
MBRSTIP-1

=====

HIGHWAYS

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FEDERAL PROJECT NUMBER: D419 102 B

PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT							
ACNP	523,031	0	8,555,799	0	0	0	9,078,830
ACSA	2,725	7,275	0	0	0	0	10,000
DDR	0	0	4,212,108	0	0	0	4,212,108
DIH	0	90,000	0	0	0	0	90,000
TOTAL D419 102 B	525,756	97,275	12,767,907	0	0	0	13,390,938
TOTAL 436903 1	6,052,770	690,683	12,767,907	0	0	0	19,511,360
TOTAL Project:	6,052,770	690,683	12,767,907	0	0	0	19,511,360

-----

ITEM NUMBER:436921 1 PROJECT DESCRIPTION:COLBERT ELEMENTARY SAFE ROUTES TO SCHOOL \*NON-SIS\*

DISTRICT:04 COUNTY:BROWARD TYPE OF WORK:SIDEWALK

PROJECT LENGTH: 5.517MI

FUND CODE	LESS THAN 2021	2021	2022	2023	2024	GREATER THAN 2024	ALL YEARS
-----------	----------------	------	------	------	------	-------------------	-----------

FEDERAL PROJECT NUMBER: SRTS 362 A

PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT							
TALT	5,121	0	0	0	0	0	5,121
TOTAL SRTS 362 A	5,121	0	0	0	0	0	5,121

FEDERAL PROJECT NUMBER: SRTS 363 A

PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY CITY OF HOLLYWOOD							
LFP	15,606	0	0	0	0	0	15,606
TALT	168,522	0	0	0	0	0	168,522
TALU	817,892	0	0	0	0	0	817,892

PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT							
ACTA	0	29	0	0	0	0	29
TALT	961	4,366	0	0	0	0	5,327
TALU	45,995	4,254	0	0	0	0	50,249
TOTAL SRTS 363 A	1,048,976	8,649	0	0	0	0	1,057,625
TOTAL 436921 1	1,054,097	8,649	0	0	0	0	1,062,746
TOTAL Project:	1,054,097	8,649	0	0	0	0	1,062,746

**Table 5-2: Transportation Improvement Program: Roadway Capacity Projects  
(FY 2020–2024) (in YOE dollars) (cont'd)**

FM	Description	Work Mix	PE	ROW	Construction	Total
4433091	SR-842/Broward Blvd from NW/SW 7th Ave to E of SR-5/US-1/Fed Hwy	Intersection Improvement	\$5,000	\$55,000	\$672,767	\$732,767
4361111	SR-858/Hallandale Beach Blvd E of RR Crossing #628290-Y to W of Ansin Blvd	Add Right Turn Lane(s)	-	-	\$27,103	\$27,103
4398911	SR-869/SW 10th St from W of SR-845/Powerline Rd to W of Military Trail	Add Managed Lanes	\$2,875,000	\$35,069,253	\$396,431,698	\$434,375,951
4358086	SR-9/1-95 at Cypress Creek Rd Interchange (East Side)	Interchange Improvement	-	\$1,570,260	-	\$1,570,260
4369581	SR-9/1-95 at SR-834/Sample Rd from S of NB Exit ramp to N of NB Entrance Ramp	Interchange Justification/Modification	\$10,227	\$824,615	\$21,203,079	\$22,037,921
4355131	SR-9/1-95 at SR-842/Broward Blvd	Interchange - Add Lanes	\$8,670,000	\$12,401,102	-	\$21,071,102
4355141	SR-9/1-95 at Sunrise Blvd Interchange Improvement	Interchange Improvement	\$610,412	\$2,994,603	\$28,012,539	\$31,617,554
4369621	SR-9/1-95 at Copans Rd from S of NB exit ramp to N of SB to WB exit ramp	Interchange Justification/Modification	\$218	\$1,286,600	\$22,512,892	\$23,799,710
4391711	SR-9/1-95 at Davie Blvd	Interchange - Add Lanes	\$2,585,000	-	-	\$2,585,000
4391721	SR-9/1-95 at SR-816/Oakland Park Blvd	Interchange - Add Lanes	\$2,585,000	-	-	\$2,585,000
4331088	SR-9/1-95 from Miami-Dade/Broward County Line to Palm Beach County Line	Preliminary Engineering for Future Capacity	-	-	\$4,250,000	\$4,250,000
4309321	SR-9/1-95 from N of SW 10th St to S of Hillsboro Blvd	Interchange Improvement	-	-	\$1,548	\$1,548
4331084	SR-9/1-95 from S of SR-842/Broward Blvd to N of SR-870/Commercial Blvd	Add Special Use Lane	-	\$290	\$393,610	\$393,900
4369031	SR-9/1-95 from S of SR-858/Hallandale Bch Blvd to N of Hollywood Blvd	PD&E/EMO Study	\$13,267,907	-	-	\$13,267,907
4331086	SR-9/1-95 from S of SW 10th St to Broward/Palm Beach County Line	Add Special Use Lane	-	-	\$2,725,500	\$2,725,500
4391701	SR-9/1-95 from S of Sheridan St to N of Griffin Rd	Interchange - Add Lanes	\$3,030,000	-	-	\$3,030,000
4369641	SR-9/1-95 from S of SW 10th St to N of Hillsboro Blvd	Interchange - Add Lanes	\$3,289,385	\$31,144,373	-	\$34,433,758
4417231	SR-9/1-95 NB off-ramp to EB I-595	Add Lanes and Rehabilitate Pavement	\$288,722	-	-	\$288,722
4358082	SR-9/1-95 SB C/D Rd from Cypress Creek Rd to SR-817/Commercial Blvd	Widen/Resurface Existing Lanes	-	\$5,905,101	-	\$5,905,101
4378324	SR-93/1-75 from Sheridan St to Griffin Rd Aux Lanes	Add Auxiliary Lane(s)	\$655,183	-	\$3,973,651	\$4,628,834
4151521	SR-93/1-75 Interchange @ SR-820 Pines Blvd from N of Miramar Pkwy to N of Pines Blvd	Interchange - Add Lanes	\$1,992,342	\$150,000	-	\$2,142,342
4215481	SR-93/1-75 Interchange @ Royal Palm Blvd from Griffin Rd to N of SW 14 St	Add Lanes and Reconstruct	\$20,000	-	\$2,104,600	\$2,124,600
4215486	SR-93/1-75 Interchange @ Royal Palm Blvd from Griffin Rd to Royal Palm Blvd	Add Lanes and Reconstruct	-	-	\$15,636,640	\$15,636,640
4215487	SR-93/1-75 Interchange @ Royal Palm Blvd from S Royal Palm Blvd to S SW 14 St	Add Lanes and Reconstruct	-	-	\$8,801,398	\$8,801,398
4307635	SR-93/1-75 Miami-Dade/Broward County Line to I-595	Preliminary Engineering for Future Capacity	\$25,000	-	-	\$25,000
4061031	Sunrise Blvd / TPK Interchange Modification (SR 838 / SR 91) (MP 58)	Interchange Improvement	\$3,283	\$17,141	\$16,676	\$37,100
4317571	SW 30th Ave from Griffin Rd to SW 45th St	Add Lanes and Reconstruct	-	-	\$63,259	\$63,259
4061561	SW 10th St/TPK (SR91) Interchange Modification (MP 71)	Interchange Justification/Modification	\$2,318	-	-	\$2,318
4193361	TPK ramps from I-595 to Griffin Rd SB Work	Add Lanes and Reconstruct	-	\$386,000	-	\$386,000

## **Social and Economic Appendix**

### **Contents:**

Supporting Documentation Specific to Social Resources - BC Evacuation Routes Map  
Land Use Map - Current

Supporting Documentation Specific to Social Resources Cities Town Location Map

Supporting Documentation Specific to Social Resources Community Features Map

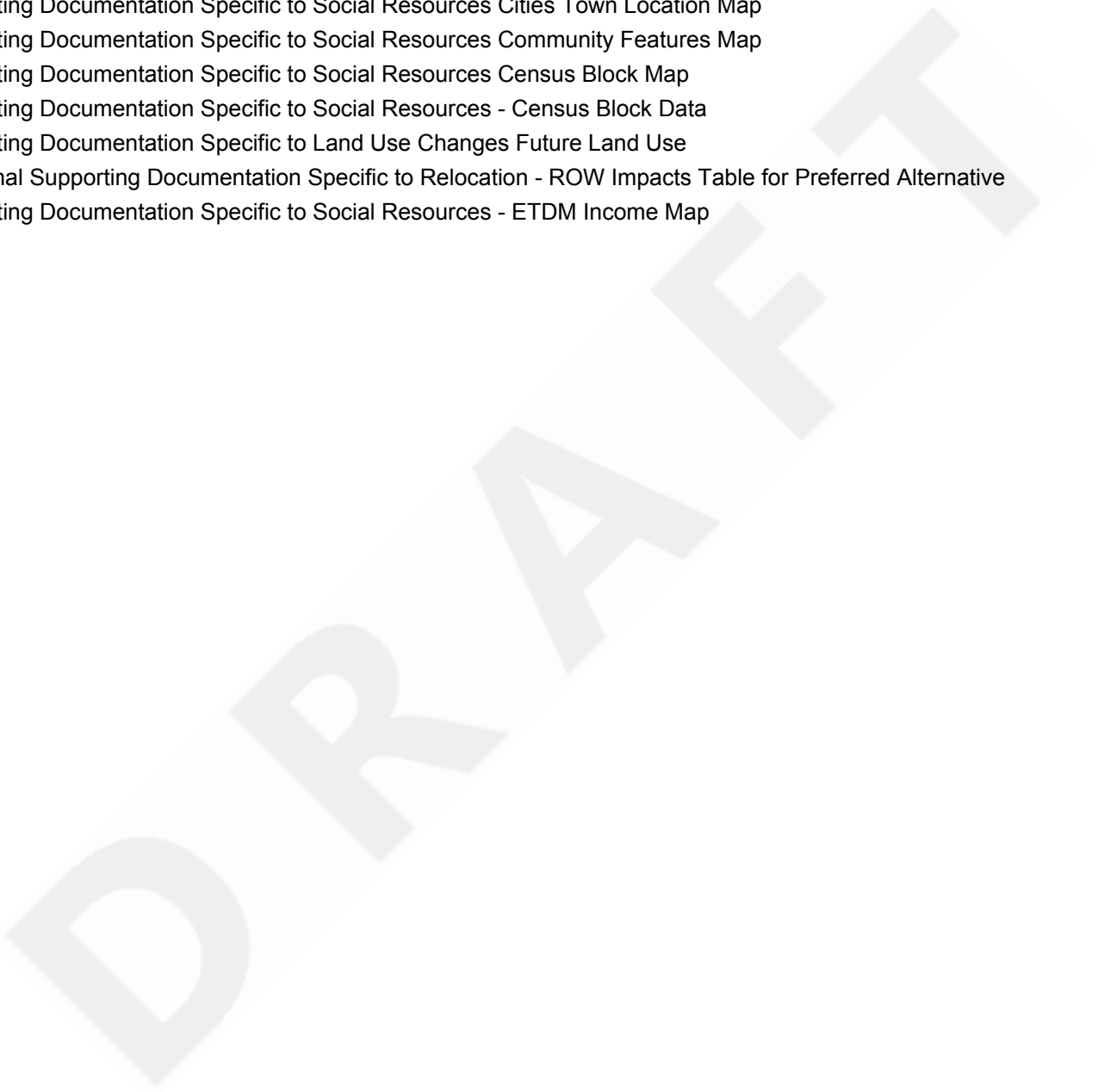
Supporting Documentation Specific to Social Resources Census Block Map

Supporting Documentation Specific to Social Resources - Census Block Data

Supporting Documentation Specific to Land Use Changes Future Land Use

Additional Supporting Documentation Specific to Relocation - ROW Impacts Table for Preferred Alternative

Supporting Documentation Specific to Social Resources - ETDM Income Map



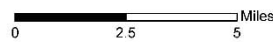
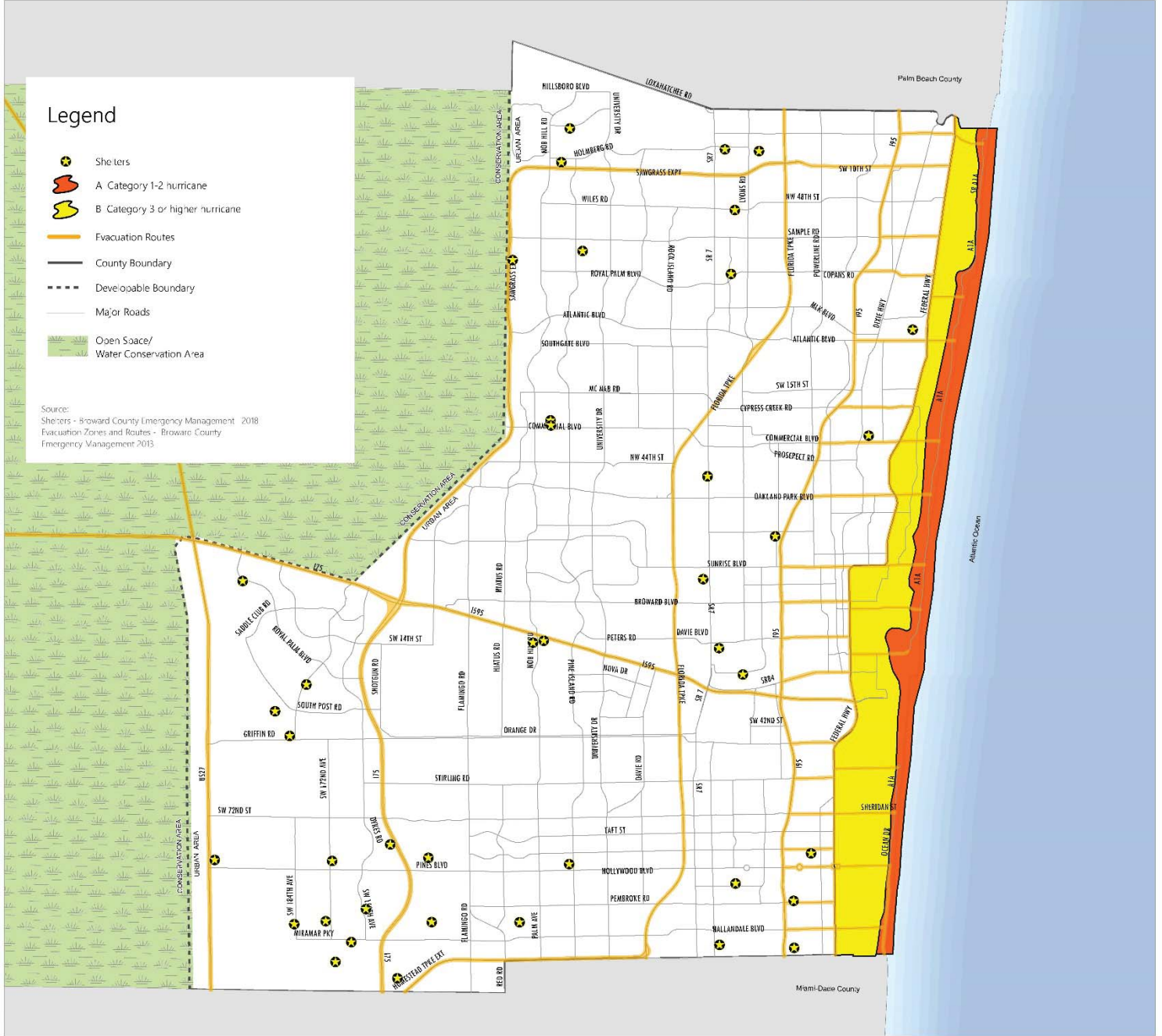


# EVACUATION MAP

## Legend

- Shelters
- A Category 1-2 hurricane
- B Category 3 or higher hurricane
- Evacuation Routes
- County Boundary
- Developable Boundary
- Major Roads
- Open Space/  
Water Conservation Area

Source:  
Shelters - Broward County Emergency Management 2018  
Evacuation Zones and Routes - Broward County  
Emergency Management 2013

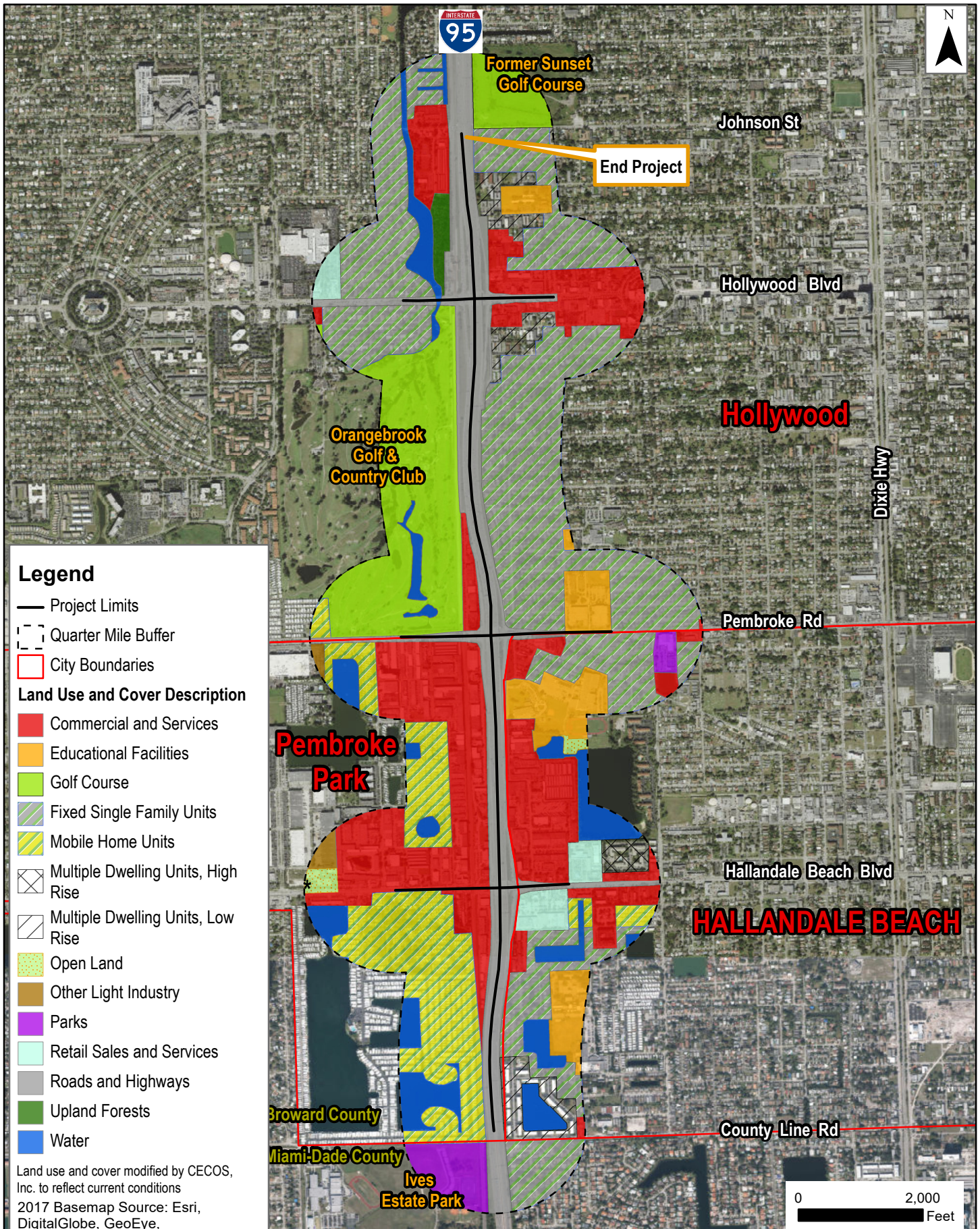


MAP NO. ND-1

11/21/18 dlcrc 6/26/2018

## Broward County Evacuation Routes





**Legend**

- Project Limits
- - - Quarter Mile Buffer
- City Boundaries
- Land Use and Cover Description**
- Commercial and Services
- Educational Facilities
- Golf Course
- ▨ Fixed Single Family Units
- ▨ Mobile Home Units
- ▩ Multiple Dwelling Units, High Rise
- ▩ Multiple Dwelling Units, Low Rise
- Open Land
- Other Light Industry
- Parks
- Retail Sales and Services
- Roads and Highways
- Upland Forests
- Water

Land use and cover modified by CECOS, Inc. to reflect current conditions  
 2017 Basemap Source: Esri, DigitalGlobe, GeoEye,



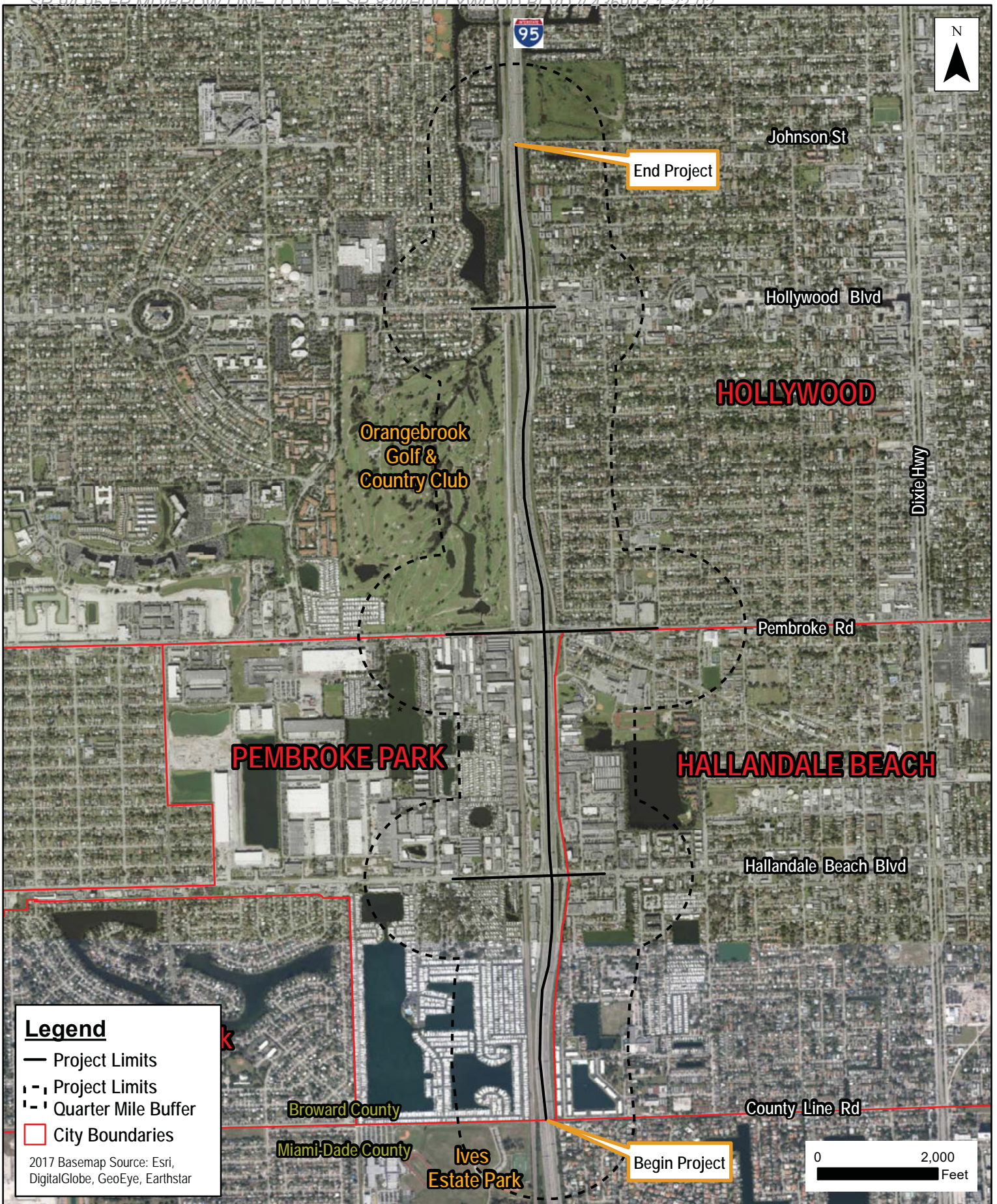
SR9/I-95 from South of SR858/Hallandale Beach Blvd. to North of SR820/Hollywood Blvd. PD&E Study  
 Broward County

Land Use and Cover Map

Figure 4.2

Source: SFWMD & FDOT (2015) Date Prepared: 12/28/2020





SR-9/1-95 from S of SR-858/Hallandale Beach Blvd.  
to N of SR-820/Hollywood Blvd. PD&E Study  
Broward County

Cities/Town  
Location Map

Figure 4.1

Date Prepared: 05/20/2021





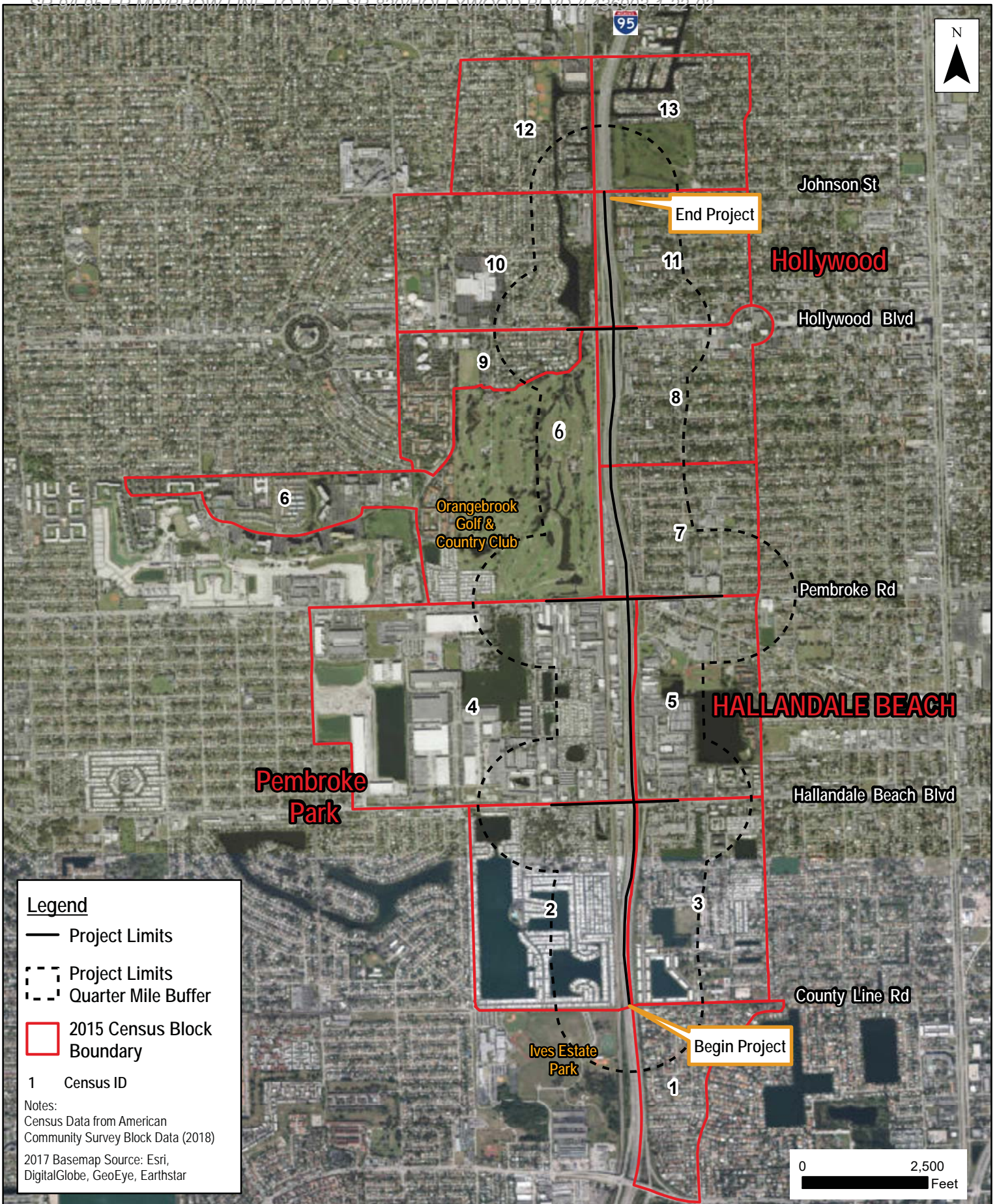
SR-9/I-95 from S of SR-858/Hallandale Beach Blvd.  
 to N of SR-820/Hollywood Blvd. PD&E Study  
 Broward County

Community Features  
 Location Map

Figure 4.2

Date Prepared: 05/20/2021





**Legend**

- Project Limits
- - - Project Limits Quarter Mile Buffer
- 2015 Census Block Boundary
- 1 Census ID

Notes:  
 Census Data from American Community Survey Block Data (2018)  
 2017 Basemap Source: Esri, DigitalGlobe, GeoEye, Earthstar

0 2,500 Feet



SR9/I-95 from South of SR858/Hallandale Beach Blvd. to North of SR820/Hollywood Blvd. PD&E Study  
 Broward County

U. S. Census Block Location Map

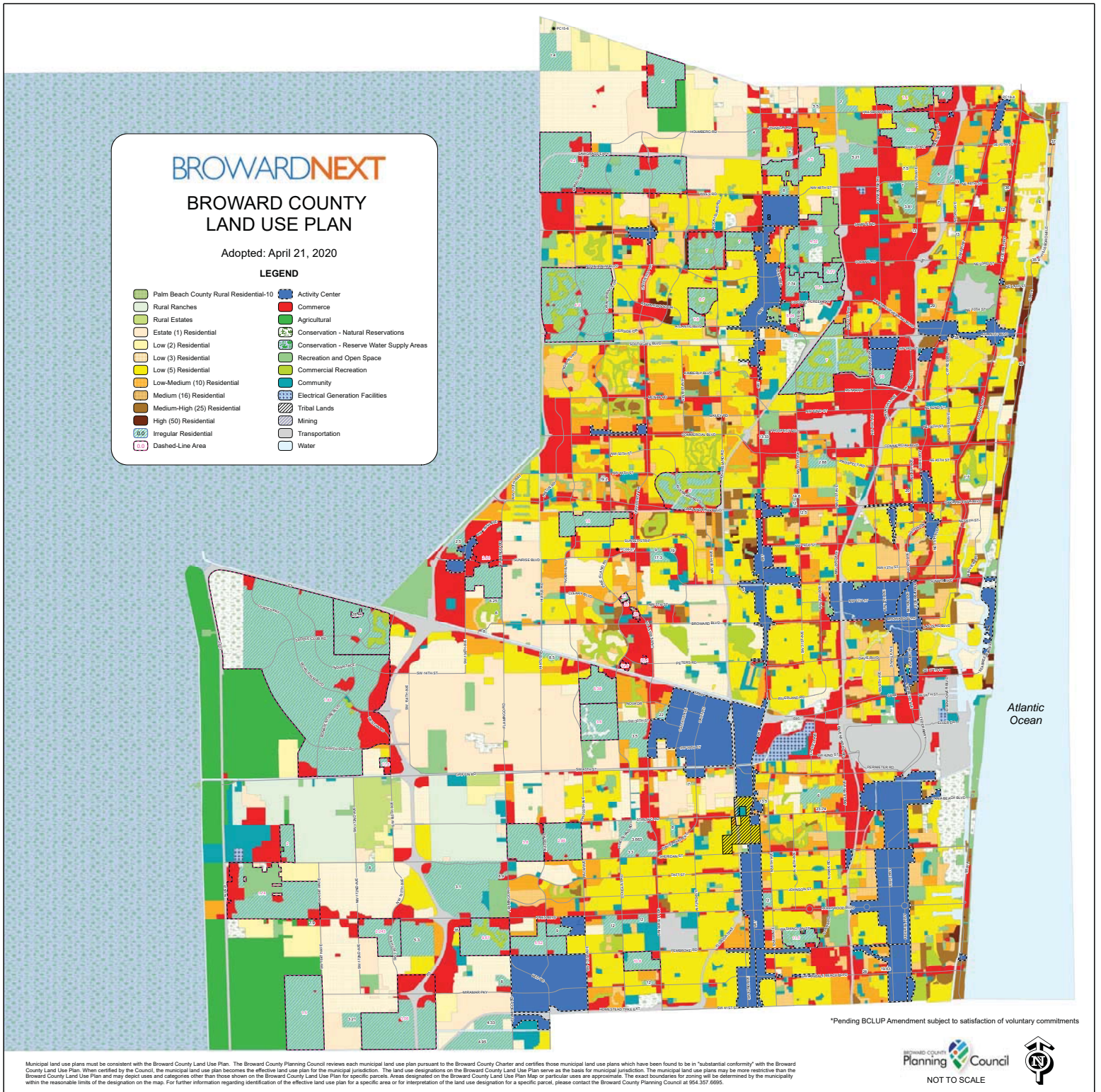
Figure 4.3

Date Prepared: 05/20/2021



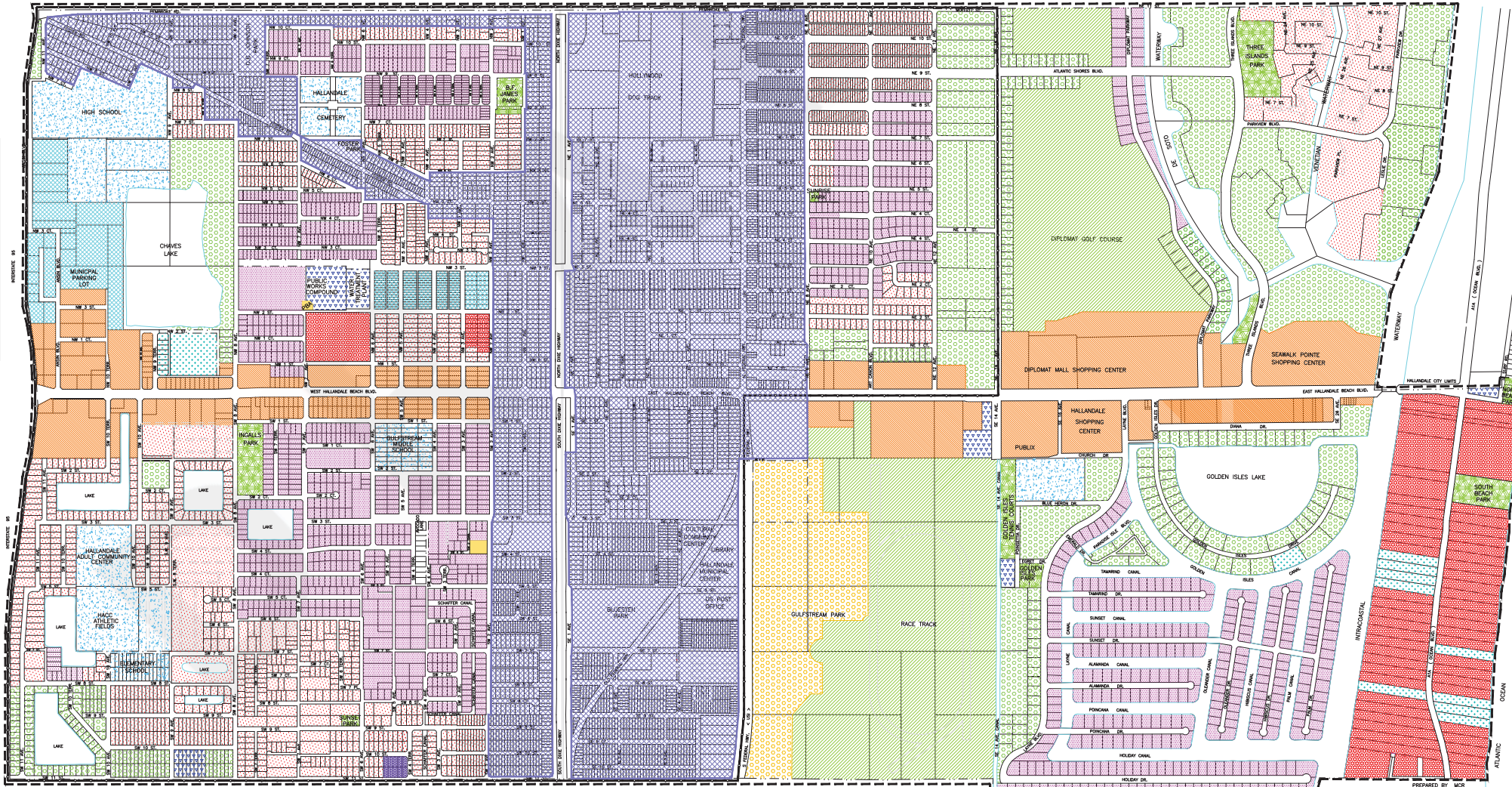
# U.S. Census Block Data (2015)

Census Block	Total Area (acres)	Total Population	Households	Male 65+	Female 65+	White	Black	Other	Latino	Home Ownership
1	122.00	908	239	48%	52%	99%	0%	0%	25%	89%
2	271.00	686	391	45%	55%	84%	0%	15%	38%	94%
3	224.00	2,818	1091	51%	49%	75%	15%	4%	64%	34%
4	518.00	946	408	44%	56%	78%	18%	0%	55%	48%
5	207.00	2,191	634	49%	52%	43%	36%	6%	50%	1%
6	406.00	3,077	1179	46%	54%	75%	15%	4%	52%	41%
7	170.00	1,864	505	48%	52%	27%	70%	0%	19%	65%
8	185.00	1,611	587	58%	42%	58%	33%	1%	22%	42%
9	114.00	1,236	521	43%	57%	66%	22%	5%	48%	16%
10	224.00	1,197	451	48%	52%	85%	0%	9%	49%	94%
11	169.00	1950	853	47%	53%	50%	44%	0%	31%	29%
12	151.00	1351	494	52%	48%	88%	9%	0%	32%	88%
13	171.00	581	315	55%	45%	84%	12%	0%	13%	65%





# CITY OF HALLANDALE BEACH FUTURE LAND USE MAP



**RESIDENTIAL NET DU/ACRE**

[Pattern]	LOW DENSITY UP TO 7.0
[Pattern]	LOW-MEDIUM DENSITY UP TO 14.0
[Pattern]	MEDIUM DENSITY UP TO 18.0
[Pattern]	HIGH DENSITY UP TO 25.0
[Pattern]	HIGH DENSITY-2 UP TO 50.0

**COMMERCIAL**

[Pattern]	NEIGHBORHOOD
[Pattern]	GENERAL
[Pattern]	RECREATION
[Pattern]	LIGHT INDUSTRIAL
[Pattern]	EMPLOYMENT CENTER

**COMMUNITY FACILITIES**

[Pattern]	PUBLIC PARKS
[Pattern]	INSTITUTIONAL
[Pattern]	UTILITIES
[Pattern]	HISTORIC

**LOCAL ACTIVITY CENTER**  
THE VILLAGE AT GULFSTREAM PARK LAC

**REGIONAL ACTIVITY CENTER**

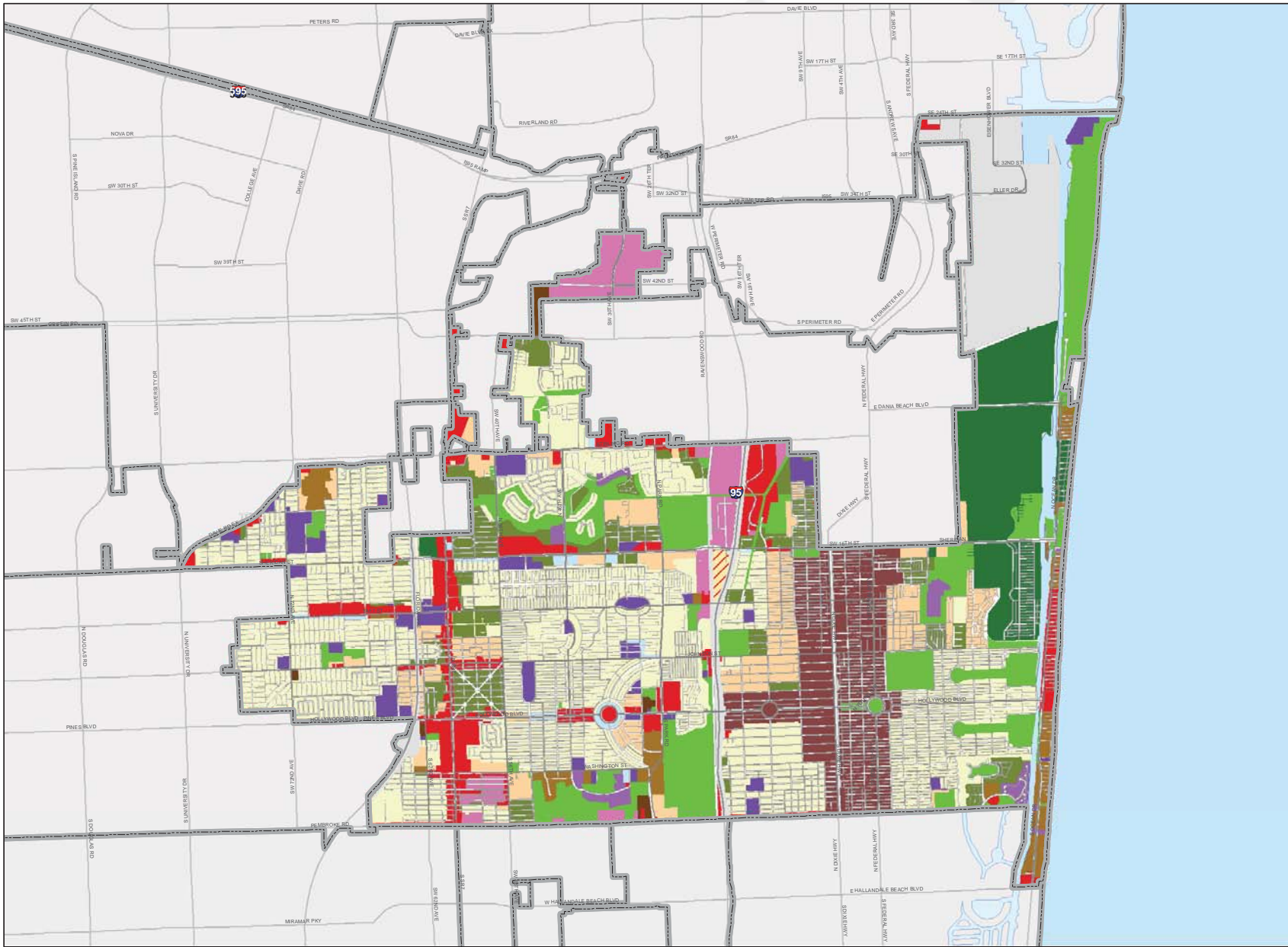
- NOTES:**
- (1) RECREATIONAL USES, FUTURE AND EXISTING, REFER TO: FIGURE 8-2, VOLUME II, COMPREHENSIVE PLAN.
  - (2) WATER WELLS AND CONES OF INFLUENCE, REFER TO: FIGURE 7-6, VOLUME II, COMPREHENSIVE PLAN.
  - (3) HISTORICAL DISTRICTS AND STRUCTURES, REFER TO: FIGURE 4-19, VOLUME II, COMPREHENSIVE PLAN.
  - (4) HALLANDALE FUTURE LAND USE PLAN COMPLIES WITH BROWARD COUNTY TRAFFIC WAYS PLAN, REFER TO: FIGURE 3-12, VOLUME II, COMPREHENSIVE PLAN.
  - (5) CITY OF HALLANDALE BEACH FLEXIBILITY ZONES, REFER TO: FIGURE 2-2, VOLUME II, COMPREHENSIVE PLAN.

**TRANSPORTATION CONCURRENCE EXCEPTION AREAS**

[Symbol]	URBAN INFILL AREA
[Symbol]	URBAN REDEVELOPMENT AREA
[Symbol]	CITY LIMITS

PREPARED BY: MGR  
SCALE: 1"=500'  
DATE: 10/09/2012





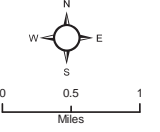
City of Hollywood  
Comprehensive Plan

Map LU-12

Future Land Use

- Legend**
- Hollywood City Boundary
  - Hollywood Future Land Use**
  - F.L.U. Designations**
  - LOW RESIDENTIAL
  - LOW MEDIUM RESIDENTIAL
  - MEDIUM RESIDENTIAL
  - MEDIUM HIGH RESIDENTIAL
  - HIGH RESIDENTIAL
  - COMMUNITY FACILITY
  - INDUSTRIAL
  - OFFICE
  - GENERAL BUSINESS
  - RIGHTS OF WAY
  - TRANSPORTATION
  - UTILITIES
  - RAC ZONE
  - PARKS AND OPEN SPACE
  - CONSERVATION AREA
  - TOD
  - TOC (NO SITE DESIGNATED)

Printed September 13, 2007



Calvin, Giordano & Associates, Inc.  
PLANNING SERVICES

GIS  
Produced and maintained by the CGA  
Geographic Information Systems Services

**LEGEND**

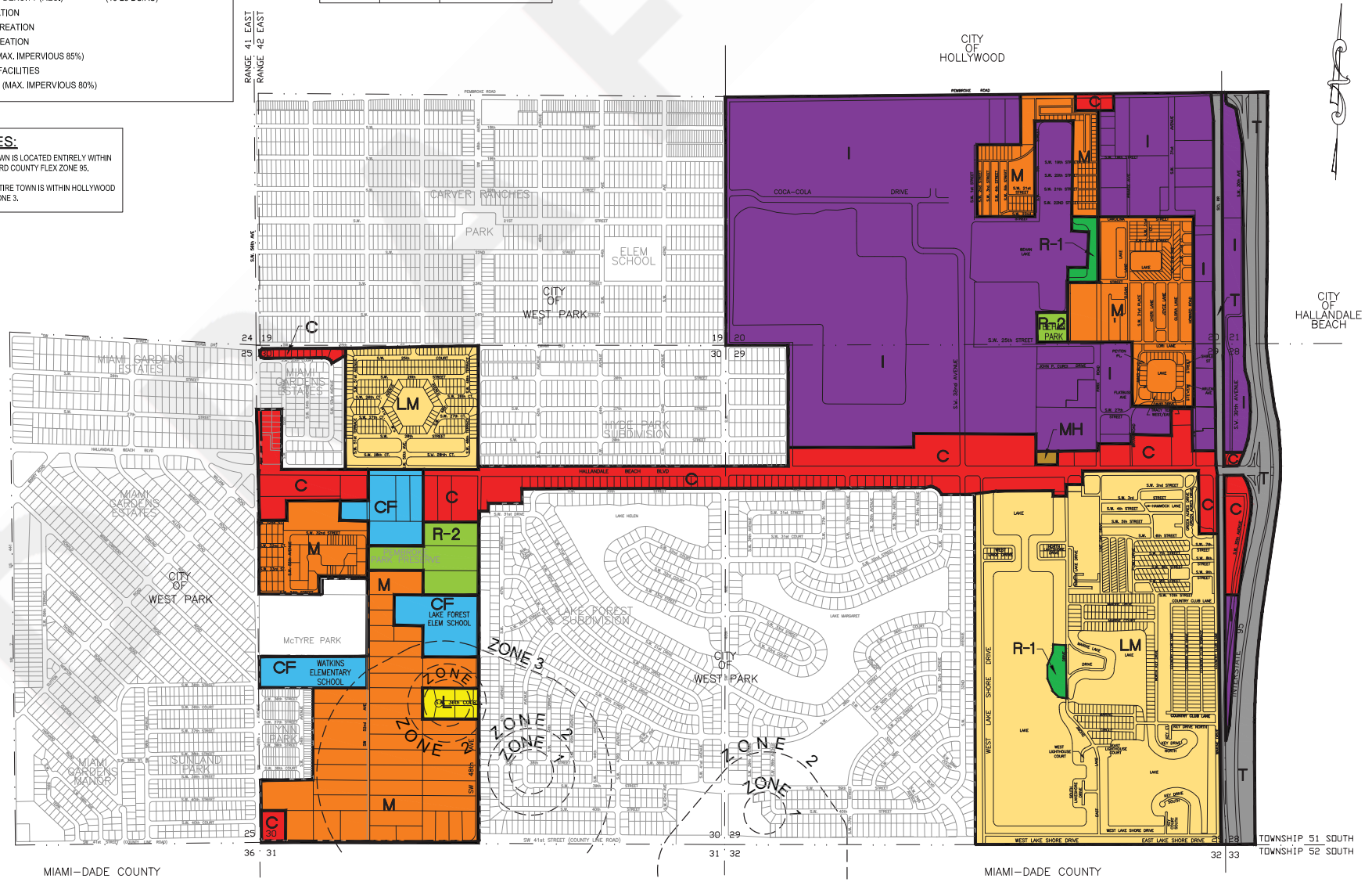
L	LOW DENSITY (RES.)	(0-5 DU/AC)
LM	LOW MEDIUM DENSITY (RES.)	(5-10 DU/AC)
M	MEDIUM DENSITY (RES.)	(10-16 DU/AC)
MH	MEDIUM HIGH DENSITY (RES.)	(16-25 DU/AC)
T	TRANSPORTATION	
R-1	PRIVATE RECREATION	
R-2	PUBLIC RECREATION	
I	INDUSTRIAL (MAX. IMPERVIOUS 85%)	
CF	COMMUNITY FACILITIES	
C	COMMERCIAL (MAX. IMPERVIOUS 80%)	

**AMENDMENTS SINCE 1989**

DATE	OPD. NO.	PURPOSE
6/29/03	03-06-04	SP SS FUM
6/17/04	HB 1401	WEST PARK CREATED - DEMARINATION
6/16/09	HB 777	McTYRE PARK DEMARINATION
XX/XX/2016	XX/XX/XX	2016 EBA

**NOTES:**

1. THE TOWN IS LOCATED ENTIRELY WITHIN BROWARD COUNTY FLEX ZONE 95.
2. THE ENTIRE TOWN IS WITHIN HOLLYWOOD WELLZONE 3.



NO.	DATE	REVISION	BY

Designed: MJM  
 Drawn: SDM  
 Checked: MJM

**MICHAEL MILLER PLANNING ASSOCIATES, INC.**  
 7522 Wiles Rd. Suite B-203  
 Coral Springs, Florida 33067  
 Tel. (954) 757-9909 Fax. (954) 757-7089

PREPARED FOR  
**TOWN OF PEMBROKE PARK**

**FUTURE LAND USE MAP  
 2015-2030**

FUTURE LAND USE MAP  
 09/23/16  
 SCALE  
 1" = 500'

SHEET NO.  
**1**  
 PROJECT  
 2032



**I-95 PD&E Study**  
**From South of Hallandale Beach Boulevard to North Hollywood Boulevard**  
**Preferred Alternative Parcel Impacts**

Parcel ID	Folio	Owner	Primary Zone	Primary Land Use	Approximate R/W Impact Area (SF)
P-01	30-1233-054-0160	MARCIA A FERNANDEZ & HERNESTO L FERNANDEZ	0100SINGLE FAMILY - GENERAL	0101RESIDENTIAL - SINGLE FAMILY : 1 UNIT	1,440.9
P-02	5142-28-00-0120	Town of Pembroke Park	90-97 Miscellaneous	94 Right of way, streets, roads, irrigation channel, ditch, etc.	2,588.8
P-03	5142-28-00-0110	Discount Auto Parts Inc Advance Stores Co Inc	10-39 Commercial	11 Stores, 1-story	71.4
P-04	5142-28-64-0010	Timely Property Inc	10-39 Commercial	18 Office buildings, non-professional services buildings, multi-story	26,250.8
P-05	5142-28-74-0010	Timely Property Inc	40-49 Industrial	48 Warehousing, distribution terminals, trucking terminals, van & storage warehousing	30,987.8
P-06	5142-28-00-0102	Tharp, Barry D	40-49 Industrial	41 Light manufacturing, small equipment manufacturing plants, small machine shops, instrument manufacturing, printing plants	11,251.9
P-07	5142-28-71-0010	2550 SW 30th Ave LLC	10-39 Commercial	17 Office buildings, non-professional services buildings, one-story	63,785.3
P-08	5142-21-01-0131	Rob Investment Property LLC	40-49 Industrial	48 Warehousing, distribution terminals, trucking terminals, van & storage warehousing	55,103.9
P-09	5142 28 00 0093	BETHEL INVESTMENTS CORP	40-49 Industrial	48 Warehousing, distribution terminals, trucking terminals, van & storage warehousing	12,332.8
P-10	5142 28 00 0092	GIANT PROPERTIES II LLC	40-49 Industrial	41 Light manufacturing, small equipment manufacturing plants, small machine shops, instrument manufacturing, printing plants	11,123.2
P-11	5142 28 00 0090	311 ANSIN LLC	40-49 Industrial	48 Warehousing, distribution terminals, trucking terminals, van & storage warehousing	274.8
P-12	5142-21-28-0013	831 FEDERAL HIGHWAY PROPERTY LLC	10-39 Commercial	10 Vacant commercial	44,297.1
P-13	5142-21-06-4560	Desmarais Investments Inc	40-49 Industrial	41 Light manufacturing, small equipment manufacturing plants, small machine shops, instrument manufacturing, printing plants	1,118.1
P-14	5142-21-06-4010	Desmarais Investments Inc	40-49 Industrial	48 Warehousing, distribution terminals, trucking terminals, van & storage warehousing	2,297.6
P-15	5142-21-06-3920	Desmarais Investments Inc	40-49 Industrial	48 Warehousing, distribution terminals, trucking terminals, van & storage warehousing	300.4
P-16	5142-21-06-4011	City of Hollywood Dept of Community & Economic Dev	90-97 Miscellaneous	94 Right of way, streets, roads, irrigation channel, ditch, etc.	1,289.7
P-17	5142-21-06-3930	City of Hollywood Dept of Community & Economic Dev	90-97 Miscellaneous	94 Right of way, streets, roads, irrigation channel, ditch, etc.	859.4
P-18	5142-21-35-0090	Charles, Lee	00-09 Residential	01 Single family	775.0
P-19	5142 21 AA 0430	THE TOWN COLONY CONDO	00-09 Residential	04 Condominium	596.0
P-20	5142-21-01-0020	Pembroke I-95 LLC	90-97 Miscellaneous	94 Right of way, streets, roads, irrigation channel, ditch, etc.	1,848.3
P-21	5142 16 02 8730	ROUDENOK, SERGUEI	00-09 Residential	01 Single family	320.8
P-22	5142-16-02-8300	Albanese, Matthew & Astrid	00-09 Residential	01 Single family	3,242.2
P-23	5142-16-02-8320	Brew, Georgette H/E Yacobellis, Linda	00-09 Residential	01 Single family	2,472.2
P-24	5142-16-02-8321	Rocha, Zeneyda H/E Rourk, Maruice C & Rourkrocha, M P	00-09 Residential	01 Single family	1,950.0

**I-95 PD&E Study  
From South of Hallandale Beach Boulevard to North Hollywood Boulevard  
Preferred Alternative Parcel Impacts**

Parcel ID	Folio	Owner	Primary Zone	Primary Land Use	Approximate R/W Impact Area (SF)
P-29	5142-28-00-0083	Five Brothers LLC	10-39 Commercial	26 Service stations	5,722.1
P-30	5142-28-00-0080	1040 Blvd LLC	10-39 Commercial	22 Drive-in restaurants	4,192.2
P-33	5142-21-06-4590	Shalah Corp	10-39 Commercial	18 Office buildings, non-professional services buildings, multi-story	1,745.6
P-34	5142-21-06-4500	Street Ad! Corporation	10-39 Commercial	27 Auto sales, repair and storage, auto service shops, body and fender shops, commercial garages, farm and machinery sales and services, auto rental, marine equipment, mobile home sales, motorcycles, construction vehicle sales	5,109.0
P-35	5142-21-06-4480	Family Tire Holdings LLC	10-39 Commercial	27 Auto sales, repair and storage, auto service shops, body and fender shops, commercial garages, farm and machinery sales and services, auto rental, marine equipment, mobile home sales, motorcycles, construction vehicle sales	5,796.5
P-38	5142-21-28-0110	Gallo, Carmen TRSTEE	10-39 Commercial	11 Stores, 1-story	3,090.1
P-39	5142-21-28-0090	Gallo, Carmen TRSTEE	10-39 Commercial	17 Office buildings, non-professional services buildings, one-story	1,408.3
P-40	5142-21-28-0081	Gallo, Carmen TRSTEE	10-39 Commercial	17 Office buildings, non-professional services buildings, one-story	979.1
P-41	5142-21-28-0030	Gallo Marble Enterprise Inc	40-49 Industrial	41 Light manufacturing, small equipment manufacturing plants, small machine shops, instrument manufacturing, printing plants	6,649.2
P-44	5142 16 02 6520	SP TOWERS FLORIDA LLC	00-09 Residential	00 Vacant residential	10,665.0
P-45	5142 16 02 6530	SP TOWERS FLORIDA LLC	00-09 Residential	00 Vacant residential	10,675.0
P-55	5142 29 00 0091	AMERICAN BANK OF HALLANDALE	10-39 Commercial	23 Financial institutions (banks, savings & loan companies, mortgage companies, credit services)	792.1
P-56	5142 29 02 0012	3101 REALTY CORP	10-39 Commercial	12 Mixed use – store and office or store and residential or residential combination	182.6
P-57	5142 29 02 0010	3101 REALTY CORP	10-39 Commercial	12 Mixed use – store and office or store and residential or residential combination	506.8
<b>TOTAL PARCEL IMPACTS = 38</b>					<b>334,092.0</b>

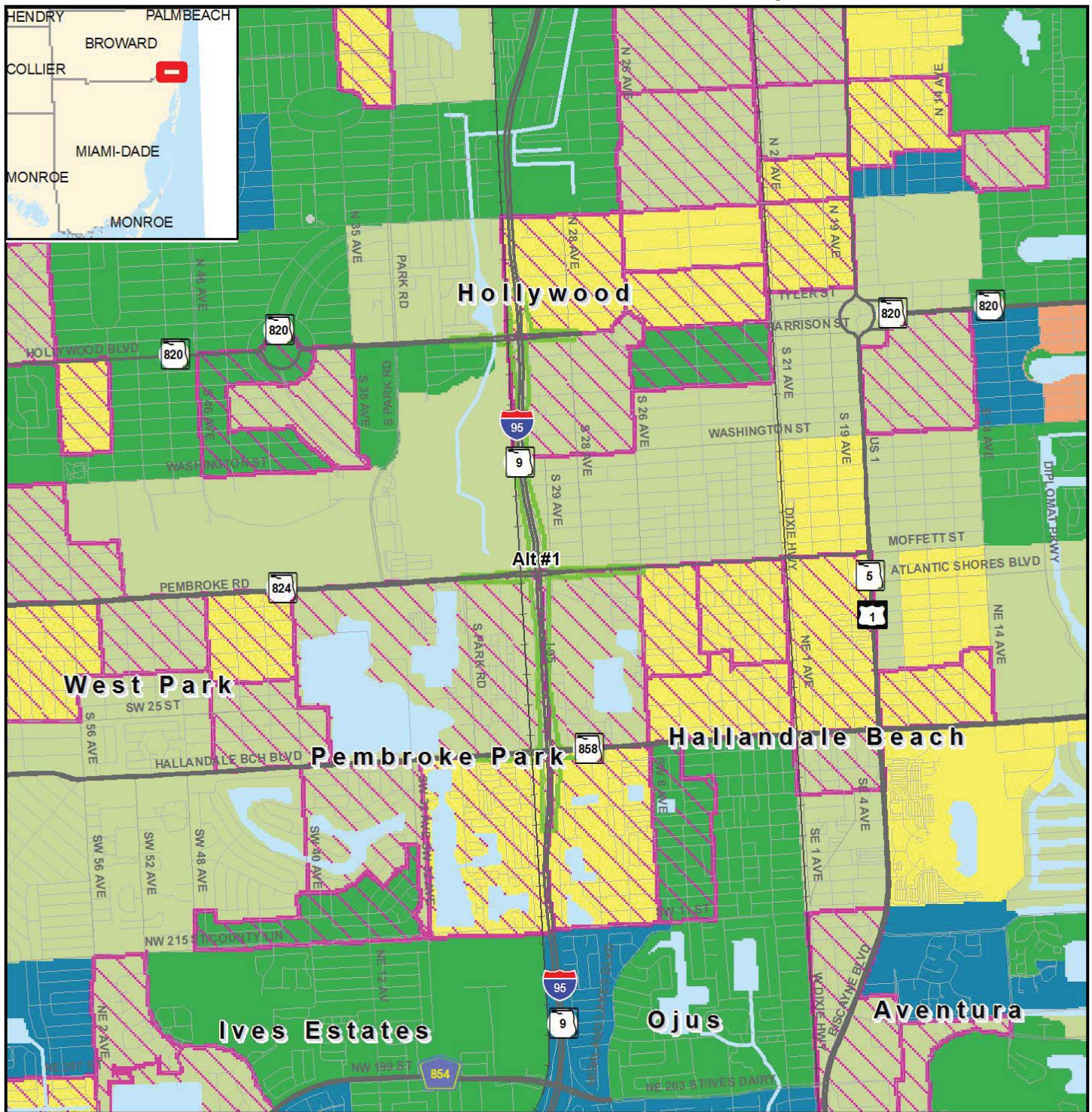


# 14254 I-95 from North of Hollywood Boulevard to

## South of Hallandale Beach Boulevard, Alternative #1

SR-9/I-95 FR MD/BROW LINE TO N OF SR-820/HOLLYWOOD BLVD/ 436903-1-22-02

### South of Hallandale Beach Blvd to North of Hollywood Blvd



#### Income Map

ETDM Alternative	<b>Median Household Income</b>	0 - 10,000	Data Sources: US Geological Survey FL Department of Transportation NAVTEQ US Census Bureau (2010)
ETDM Alternative Terminus	10,001 - 29,999	30,000 - 49,999	
Major Road	50,000 - 79,999	80,000 - 125,000	
Local Road or Trail	> 125,000	> 125,000	
> 20% Below Poverty			

0 0.2 0.4 0.8 Miles

N

**etdm**  
Environmental Screening Tool

10/20/2015

This map and its content is made available by the Florida Department of Transportation on an "as is," "as available" basis without warranties of any kind, express or implied.

## **Cultural Resources Appendix**

### **Contents:**

SHPO Concurrence Letter

Section 106 Resource Map - Final CRAS Addendum APE Map

Correspondence with Jurisdictional Officials - City of Hollywood

Section 4(f) Resources Form - No Use Form - McNicol

Correspondence with Jurisdictional Officials - Hallandale Beach

Section 4(f) Resources Form - No Use - Stan Goldman

Conservation Lands Map

DRAFT





## Florida Department of Transportation

RON DESANTIS  
GOVERNOR

3400 West Commercial Boulevard  
Fort Lauderdale, FL 33309

KEVIN J. THIBAUT, P.E.  
SECRETARY

December 21, 2020

Dr. Timothy Parsons, Director and  
State Historic Preservation Officer  
Division of Historical Resources  
500 South Bronough Street  
Tallahassee, Florida 32301

Subject: **Request for Review**  
Cultural Resource Assessment Survey Addendum  
SR 9/I-95 from south of Hallandale Beach Boulevard (SR 858) to north of Hollywood  
Boulevard (SR 820)  
Financial Management #: 436903-1-22-01  
Broward County, Florida

Attention: Adrienne Daggett

Dear Dr. Daggett;

The Florida Department of Transportation (FDOT) District 4 prepared an Addendum to the Cultural Resource Assessment Survey (CRAS) for the I-95 / SR 9 Project Development and Environment (PD&E) Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) in Broward County, Florida. Based on the changes to the project since the 2018 CRAS for the I-95 / SR 9 Project Development and Environment (PD&E) Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) in Broward County, Florida (FMSF Manuscript No. 25712) (Janus Research 2018), this addendum was prepared to identify cultural resources within the updated project area of potential effect (APE) and assess the resources in terms of their eligibility for listing in the National Register of Historic Places (National Register) according to the criteria set forth in 36 CFR Section 60.4. This assessment complies with Section 106 of the National Historic Preservation Act (NHPA) of 1966 (Public Law 89-665, as amended), as implemented by 36 CFR 800 -- Protection of Historic Properties (incorporating amendments effective August 5, 2004); Stipulation VII of the Programmatic Agreement among the Federal Highway Administration (FHWA), the Advisory Council on Historic Preservation (ACHP), the Florida Division of Historical Resources (FDHR), the State Historic Preservation Officer (SHPO), and the FDOT Regarding Implementation of the Federal-Aid Highway Program in Florida (Section 106 Programmatic Agreement, effective March 2016, amended June 7, 2017); Section 102 of the National Environmental Policy Act (NEPA) of 1969, as amended (42 USC 4321 et seq.), as implemented by the regulations of the Council on Environmental Quality (CEQ) (40 CFR Parts 1500–1508); Section 4(f) of the Department of Transportation Act of 1966, as amended (49 USC 303 and 23 USC 138); the revised Chapter 267, Florida Statutes (F.S.); and the standards embodied in the FDHR's Cultural Resource Management Standards and Operational Manual (February 2003), and Chapter 1A-46 (Archaeological and Historical Report Standards and

*Cultural Resources Assessment Survey Addendum**I-95 from S. of SR 858 to N. of SR 820**FM 436903.1*

Guidelines), Florida Administrative Code. In addition, this report was prepared in conformity with standards set forth in Part 2, Chapter 8 (Archaeological and Historical Resources) of the FDOT PD&E Manual (effective January 14, 2019). All work also conforms to professional guidelines set forth in the Secretary of Interior's Standards and Guidelines for Archaeology and Historic Preservation (48 FR 44716, as amended CRAS Addendum I-95 (SR 9) PD&E Study Page ii and annotated). Principal Investigators meet the Secretary of the Interior's Professional Qualification Standards (48 FR 44716) for archaeology, history, architecture, architectural history, or historic architecture. In 2018, Janus Research conducted the CRAS for the I-95 / SR 9 PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) in Broward County, Florida for the current PD&E Study for the proposed improvements to I-95 / SR 9 from South of Hallandale Beach Boulevard to North of Hollywood Boulevard on behalf of FDOT District 4 (Janus Research 2018; FMSF Manuscript No. 25712). The SHPO determined that the report was complete and sufficient and concurred with the recommendations on August 29, 2018. In 2019, Janus Research submitted the Section 106 Documentation and Determination of Effects Case Study for the I-95/SR 9 PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820), Broward County, Florida. The Section 106 Case Study and Determination of Effects focused on three resources: Hollywood Seaboard Air Line Railway Station (8BDE163), Seaboard Air Line (CSX) Railroad (8BD4649/8DA10753), and Stratford's (8BD6648). The SHPO concurred with the recommendations that there would be no adverse effects on the three resources on January 16, 2019 (Janus Research 2019). Since this time, changes to the design of the project improvements have necessitated the expansion of the APE and additional field survey. The current document serves as an addendum to the original CRAS report.

No archaeological resources were identified within the current archaeological APE as a result of the subsurface testing and pedestrian survey conducted for the current survey. Shovel testing was not conducted within most of the project area due to the presence of buried utilities, berms, ditches, pavement, existing ponds, and standing water. The historic resources survey resulted in the identification of ten previously recorded (8BD4649/8DA10753, 8BD6496, 8BD6524-8BD6527, 8BD6633, 8BD6647, 8BD6671, 8BD6672) and eight newly recorded historic resources (8BD7709- 8BD7715, 8BD7738) within the current project APE. Among the ten previously recorded resources, only the Seaboard Air Line (CSX) Railroad (8BD4649/8DA10753), which was recorded as part of the 2018 CRAS, was determined eligible for listing in the National Register. The eight newly recorded resources included six standing structures and two resource groups (building CRAS Addendum I-95 (SR 9) PD&E Study Page iii complexes). These buildings and resource groups all exhibited alterations that compromised their historic integrity. While some had historical associations, none rose to a level of significance that would make them eligible for listing in the National Register. Due to the overall lack of integrity among the buildings within and immediately surrounding the APE, it appears there are no National Register-eligible historic districts that would encompass any portion of the APE

The District has determined that no historic properties will be affected by the project design changes. I respectfully request your concurrence with this determination. If there are any questions, please feel free to contact me at (954) 777-4324 or Lynn Kelley at (954) 777-4334.

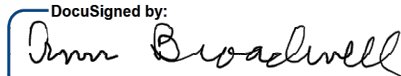
*Cultural Resources Assessment Survey Addendum*

*I-95 from S. of SR 858 to N. of SR 820*

*FM 436903.1*

Sincerely,

DocuSigned by:



1942EE83B10D4E7  
Ann Broadwell

Environmental Administrator

FDOT - District 4

Enclosures

cc. file

DRAFT



*Cultural Resources Assessment Survey Addendum*

*I-95 from S. of SR 858 to N. of SR 820*

*FM 436903.1*

**The Florida State Historic Preservation Officer finds the attached Cultural Resources Assessment Report complete and sufficient and concurs with the recommendations and findings provided in this cover letter for SHPO/DHR Project File Number \_\_\_\_\_.**

**SHPO Comments:**


*Jason Aldridge DSHPO*  
**Timothy A. Parsons**  
**State Historic Preservation Officer**  
**Florida Division of Historical Resources**

January 7, 2021  
**Date**

DRAFT



**Figure 3.1a - Project APE  
(Map 1 of 6)**

SR 9 / I-95 Hallandale Beach Blvd.  
to Hollywood Blvd.  
(FM No. 436903-1-22-02, ETDM No.14254)

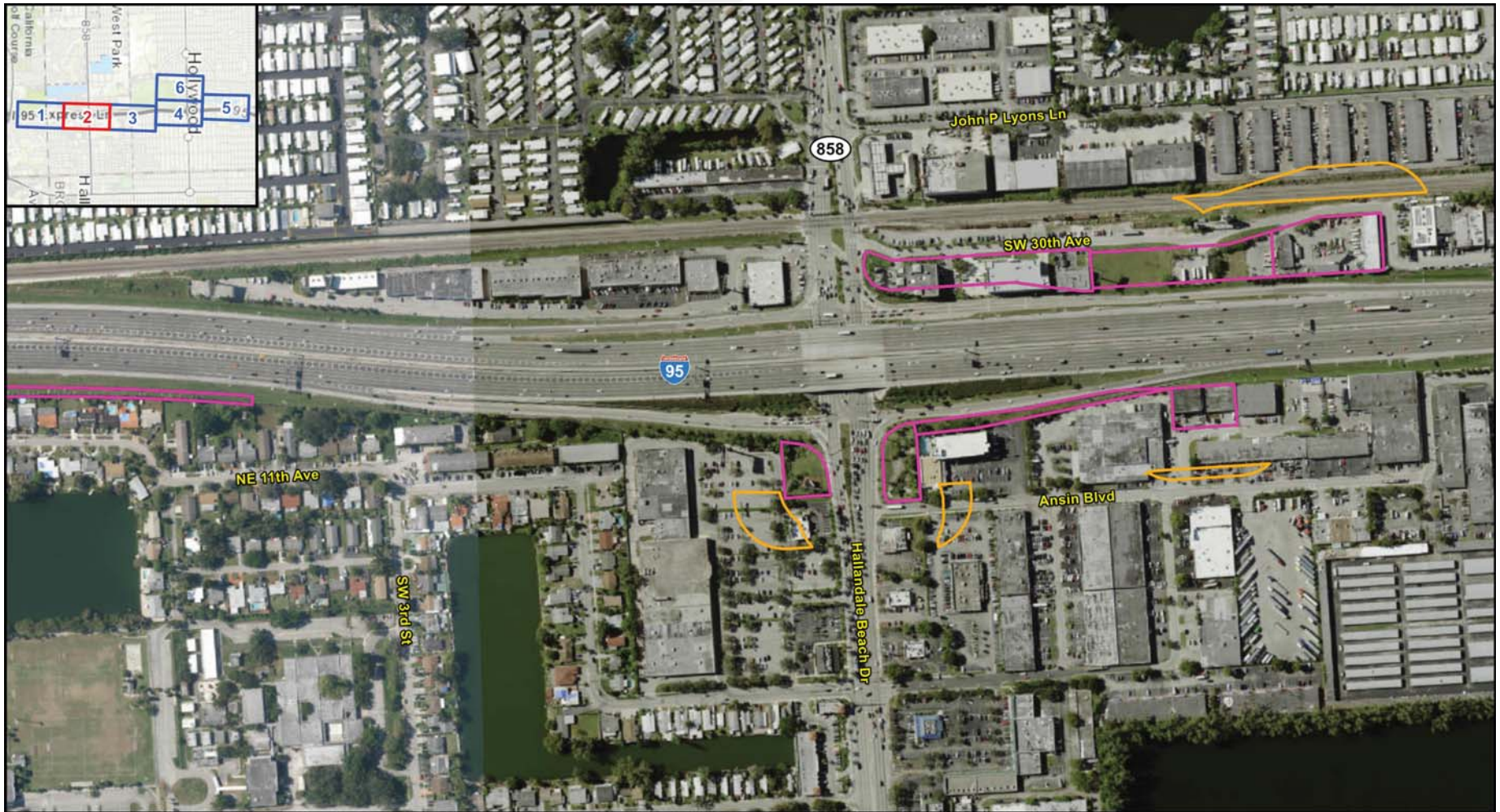
- Archaeological APE
- Historic Resources APE

**Broward and Miami-Dade Counties**

Feet  
 250

Meters  
 50 100





**Figure 3.1b - Project APE**  
(Map 2 of 6)

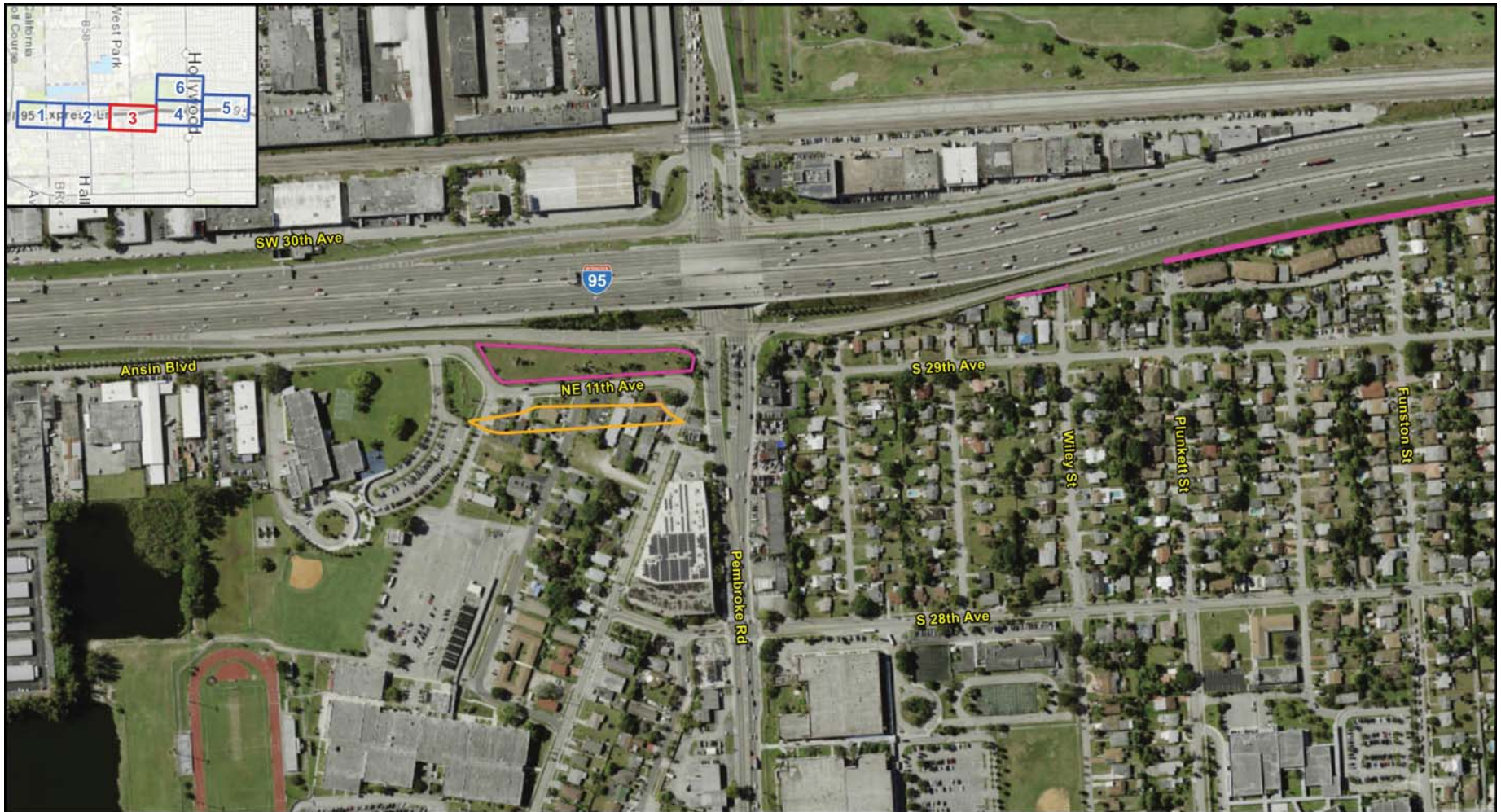
SR 9 / I-95 Hallandale Beach Blvd.  
to Hollywood Blvd.  
(FM No. 436903-1-22-02, ETDM No.14254)

- Archaeological APE
- Historic Resources APE

**Broward and Miami-Dade Counties**

0 250 Feet  
0 50 100 Meters





**Figure 3.1c - Project APE**  
(Map 3 of 6)

SR 9 / I-95 Hallandale Beach Blvd.  
to Hollywood Blvd.  
(FM No. 436903-1-22-02, ETDM No.14254)

- Archaeological APE
- Historic Resources APE

**Broward and Miami-Dade Counties**

Feet  
 250

Meters  
 50 100

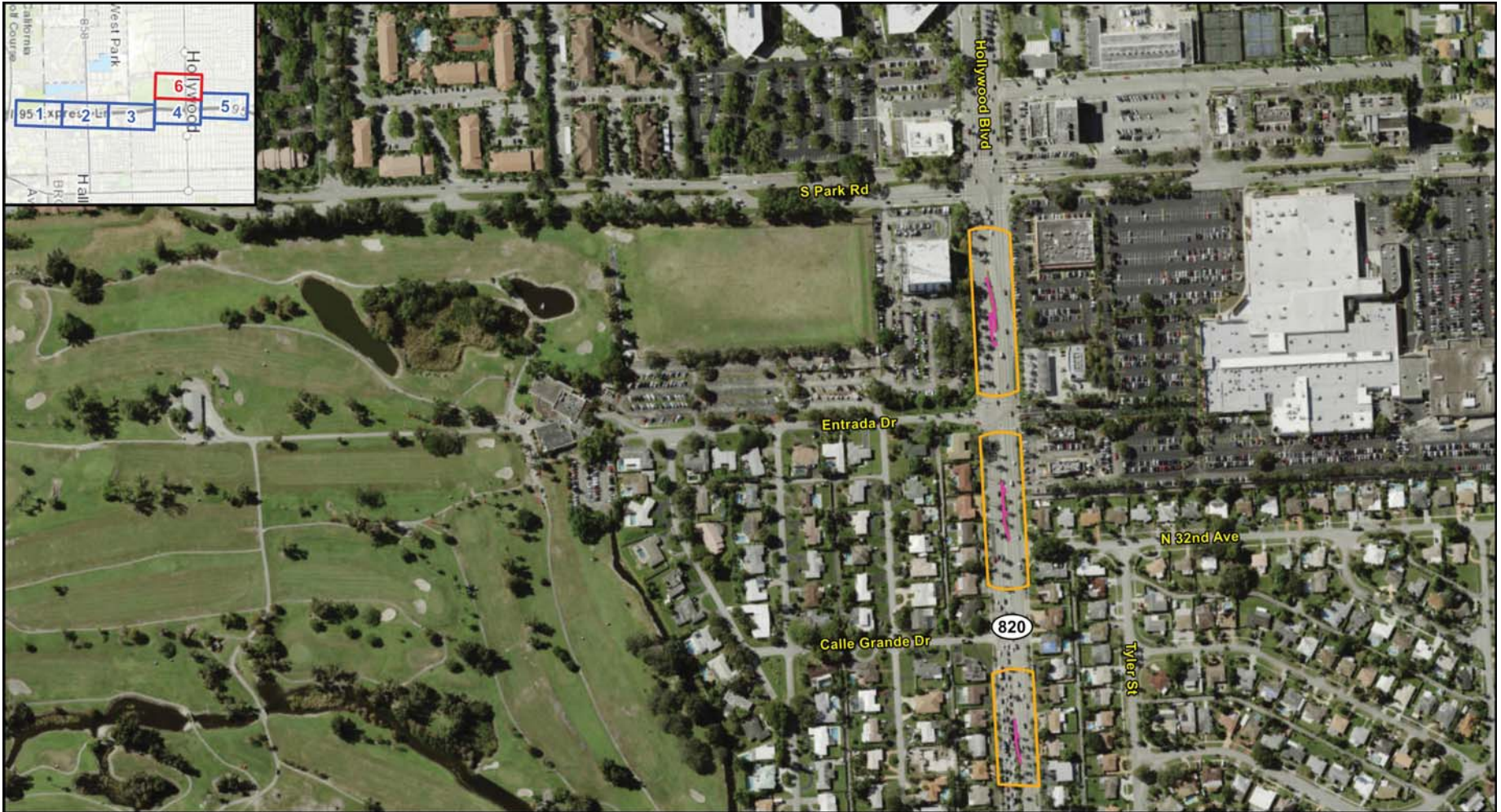












**Figure 3.1f - Project APE  
(Map 6 of 6)**

SR 9 / I-95 Hallandale Beach Blvd.  
to Hollywood Blvd.  
(FM No. 436903-1-22-02, ETDM No.14254)

- Archaeological APE
- Historic Resources APE

**Broward and Miami-Dade Counties**

Feet  
 250

Meters  
 50 100



**From:** [David Vazquez](#)  
**To:** [Mark Clark](#)  
**Cc:** "[Jasmin, Kenzot](#)"; "[Ryan Solis-Rios](#)"; "[Wendy Cyriacks](#)"  
**Subject:** RE: I-95 Project Development and Environment Study\_Hallandale Beach Blvd to Hollywood Boulevard\_Section 4(f)  
**Date:** Tuesday, October 02, 2018 11:55:49 AM  
**Attachments:** [cohemail@hollywoodfl.org\\_20181002\\_114049.pdf](#)

---

Mark,

Good afternoon. Please view attachment.

DV

-----Original Message-----

From: Mark Clark [<mailto:mc@cecosenvironmental.com>]  
Sent: Friday, September 14, 2018 10:28 AM  
To: David Vazquez  
Cc: 'Jasmin, Kenzot'; 'Ryan Solis-Rios'; 'Wendy Cyriacks'  
Subject: I-95 Project Development and Environment Study\_Hallandale Beach Blvd to Hollywood Boulevard\_Section 4(f)

Mr. Vazquez,

Good morning. The purpose of this email is to request the response status.

Please let me know.

Thanks,

Mark

From: David Vazquez [<mailto:DVazquez@hollywoodfl.org>]  
Sent: Tuesday, July 24, 2018 6:07 PM  
To: Clark, Mark <[mc@cecosenvironmental.com](mailto:mc@cecosenvironmental.com)>  
Cc: Jasmin, Kenzot <[Kenzot.Jasmin@dot.state.fl.us](mailto:Kenzot.Jasmin@dot.state.fl.us)>; 'Ryan Solis-Rios' <[rsolis-rios@CORRADINO.com](mailto:rsolis-rios@CORRADINO.com)>; Renee Richards <[RRichards@hollywoodfl.org](mailto:RRichards@hollywoodfl.org)>  
Subject: RE: I-95 Project Development and Environment Study\_Hallandale Beach Blvd to Hollywood Boulevard\_Section 4(f)

EXTERNAL SENDER: Use caution with links and attachments.

Mr. Clark,

Good afternoon. We're in receipt of the email and attachment. We'll begin to respond to the inquires. If we have questions or clarifications we'll reach out.

DV

From: Mark Clark [<mailto:mc@cecosenvironmental.com>]  
Sent: Tuesday, July 17, 2018 9:34 PM  
To: David Vazquez  
Cc: 'Jasmin, Kenzot'; 'Ryan Solis-Rios'  
Subject: I-95 Project Development and Environment Study\_Hallandale Beach Blvd to Hollywood Boulevard\_Section 4(f)

Mr. Vazquez,

Good day. The purpose of this email is to coordinate with the City of Hollywood regarding the applicability of Section 4(f) criteria for four City-owned public recreation areas. The Florida Department of Transportation (FDOT) is performing a Project Development and Environment (PD&E) Study for that segment of I-95 starting south of Hallandale Beach Boulevard and continuing north of Hollywood Boulevard. Please see the attached letter from the FDOT Project Manager, Mr. Kenzot Jasmine, for additional project information. In addition, the attached letter also requests information pertinent to the Section 4(f) evaluation related to each recreational area. Your assistance with that information will be greatly appreciated. Please note the FDOT's and Consultant Team's Project Manager are also copied on this email, so their contact information is shown above.

Please let me know if you have any questions and thank you, again for your assistance.

Mark Clark

Senior Environmental Scientist

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Cyriacks Environmental Consulting Services, Inc.

3001 Southwest 15th Street | Suite B | Deerfield Beach, Florida 33442

T: 954.571.0290 | F: 954.480.9962

7850 Northwest 146th Street | Suite 510 | Miami Lakes, Florida 33016

T: 305.509.6550

mc@cecosenvironmental.com<<mailto:mc@cecosenvironmental.com>>

---

David Vazquez

Interim Director, Parks and Recreation & Cultural Arts City of Hollywood Parks and Recreation and Cultural Arts

1405 South 28 Avenue

P.O. Box 229045

Hollywood, FL 33022-9045

Office: 954-921-3469

E-mail: DVazquez@hollywoodfl.org<<mailto:DVazquez@hollywoodfl.org>>

[[www.hollywoodfl.org](http://www.hollywoodfl.org)]

Notice: Florida has a broad public records law. All correspondence sent to the City of Hollywood via e-mail may be subject to disclosure as a matter of public record.

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*Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

3400 West Commercial Boulevard  
Fort Lauderdale, Florida 33309

MIKE DEW  
SECRETARY

July 16, 2018

David Vazquez, Interim Director  
Parks, Recreation, and Cultural Arts  
City of Hollywood  
PO Box 229045  
Hollywood, FL 33022-9045

RE: Section 4(f) Determination of Applicability  
FDOT Project FM No.: 436903-1-22-02  
I-95 Project Development and Environment Study  
From: South of Hallandale Beach Boulevard  
To: North of Hollywood Boulevard  
Broward County, Florida

Dear Mr. Vazquez:

The purpose of this correspondence is to coordinate with the City regarding the applicability of Section 4(f) criteria for four City-owned public recreation facilities/sites. The Florida Department of Transportation (FDOT) is performing a Project Development and Environment (PD&E) Study for the segment of I-95 from south of Hallandale Beach Boulevard to north of Hollywood Boulevard (see Figure 1). The primary need for this project is to increase capacity at the interchanges of I-95 at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. Arterial improvements are also proposed along Pembroke Road and Hollywood Boulevard, within the City of Hollywood. A Section 4(f) resource is divided into two categories: 1) publicly owned parks, recreation areas, and waterfowl/wildlife refuges and, 2) historic and archaeological sites of national, state, or local significance in public or private ownership. Section 4(f) only applies to publicly owned parks, recreation areas, and wildlife/waterfowl refuges determined to be significant by the Official with Jurisdiction (OWJ). As part of the significance evaluation, the following statement from the FDOT's PD&E Manual applies:

*"Significance means that in comparing the availability and function of the recreation area, park or wildlife and waterfowl refuge area with the recreational park and refuge objectives of that community, the land in question plays an important role in meeting those objectives."*

As stated above, the City owns four public recreation facilities/sites adjacent to, or in the vicinity of, the project: Orangebrook Golf Course (400 Entrada Drive), Lions Park (3003 Hollywood Boulevard), McNicol Community Center (1411 South 28<sup>th</sup> Avenue), and Stanley Goldman Memorial Park (800 Knights Road). Figure 2 depicts the locations of these areas in relation to the project. To ascertain applicability, a Section 4(f) Determination of Applicability (DOA) must be prepared by FDOT for those resources determined by the OWJ to be significant. The DOA then provides the information needed to ascertain if Section 4(f) criteria applies to the resources/properties identified. As part of the evaluations, the FDOT requests your assistance answering the following questions for all these facilities/sites:

- Please confirm the facilities/properties are owned and managed by the City, open to the public during normal hours of operation, and whose major purpose is recreation.

Section 4(f) Determination of Applicability  
I-95 PD&E Study

FM 436903-1-22-02  
July 16, 2018

- Orangebrook Golf Course – *yes*
  - Lions Park – *yes*
  - McNicol Community Center – *yes*
  - Stanley Goldman Memorial Park – *yes*
- What is their size and location park?
    - Orangebrook Golf Course – *255 acres*
    - Lions Park – *.36 acres*
    - McNicol Community Center – *.14 acres*
    - Stanley Goldman Memorial Park – *11.82 acres*
  - Does the City consider these facilities/properties significant in relation to Section 4(f)? Section 4(f) significance means that in comparing the availability and function of the resources they meet the objectives of the agency, community or authority. Section 4(f) only applies to public and private historic sites, publicly-owned parks, recreation areas, and wildlife and waterfowl refuges determined to be significant by the Official with Jurisdiction.
    - Orangebrook Golf Course – *yes*
    - Lions Park – *yes*
    - McNicol Community Center – *yes*
    - Stanley Goldman Memorial Park – *yes*
  - Please describe the locations of available appurtenances and facilities (e.g. tennis courts, pools, shelters, sports fields, etc.) on each property. Is a site map showing these facilities available for each facility/property? *no site map.*
    - Orangebrook Golf Course – *golf, disc golf, banquet hall, restaurant*
    - Lions Park – *walkway benches*
    - McNicol Community Center – *community, playground*
    - Stanley Goldman Memorial Park – *walkway, dog park, skate park, pickleball courts*
  - What are the functions of/or the available activities at/on the facilities/properties?
    - Orangebrook Golf Course – *golf*
    - Lions Park – *passive park*
    - McNicol Community Center – *aftercare, camps, programs, community meetings*
    - Stanley Goldman Memorial Park – *passive/active park*
  - Please describe access and use of the facilities/properties by the public.
    - Orangebrook Golf Course – *down to dusk*
    - Lions Park – *down to dusk*
    - McNicol Community Center – *operational hours determined by season.*
    - Stanley Goldman Memorial Park – *down to dusk.*
  - Are there any unusual characteristics of the facilities/properties that either limit or enhance the value of the resources? If so, please explain. *no.*

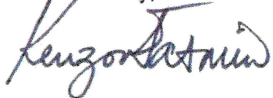
Section 4(f) Determination of Applicability  
I-95 PD&E Study

FM 436903-1-22-02  
July 16, 2018

- o Orangebrook Golf Course - *deduct restriction*
- o Lions Park - *No*
- o McNicol Community Center - *located on SABC land?*
- o Stanley Goldman Memorial Park - *No*

Thank you for your assistance. If you have any questions, please contact me at (954) 777-4462, kenzot.jasmin@dot.state.fl.us.

Sincerely,



Kenzot Jasmin  
Project Management Engineer

Cc: Mary Milford, FDOT  
Ryan Solis-Rios, Corradino  
Mark Clark, CECOS

FLORIDA DEPARTMENT OF TRANSPORTATION  
**SECTION 4(F) NO USE DETERMINATION**

<b>Name:</b>	I-95 (SR 9) PD&E Study from South of Hallandale Beach Blvd to North of Hollywood Blvd		
<b>FM#:</b>	436903-1-22-01	<b>ETDM#:</b>	14254
<b>FAP#:</b>	D419-102-B		
<b>Project Review Date:</b>	10/13/2020		
<b>FDOT District:</b>	4		
<b>County(ies):</b>	Broward		

**Project Description including Section 4(f) Specific Information:**

The project proposes improvements to I-95 Interchanges at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. The project limits are from the Miami-Dade/Broward County Line to Johnson Street, a distance of approximately three miles. This study will evaluate potential modifications to existing entrance and exit ramps and the potential addition of collector-distributor roadways serving these three interchanges. The McNicol Community Center is a recreational facility managed by the City of Hollywood but located on property owned by the School Board of Broward County.

**Type of Property: Public Parks and Recreation Areas**

**Description of Property: McNicol Community Center - This facility provides multipurpose rooms, playground, lighted basketball court, track and field, tennis court and a baseball/multipurpose field. It provides aftercare services, summer camp and other public programs. It is located north of Pembroke Road on South 28<sup>th</sup> Avenue. The property is adjacent to the City of Hollywood's Parks, Recreation & Cultural Arts Administrative Offices and all are located on property owned by the School Board of Broward County. It is located north of Pembroke Road on South 28<sup>th</sup> Avenue.**

**Establishing Section 4(f) Use of the Property**

Will the property be "used" as defined in **Section 4(f)** Resources chapter of the FDOT PD&E Manual? Examples of a "use" include but are not limited to acquiring right of way, new easements, and temporary occupancy?

Yes

No

**An explanation of the relationship between the Section 4(f) property and the project:**

The facility begins approximately 515-feet north of Pembroke Road on South 28<sup>th</sup> Avenue and approximately 1,100-feet east of I-95. The proposed improvements to I-95 or Pembroke Road do not extend to this facility. Temporary construction use is not proposed. Access to this facility can be provided via sidestreets and/or Johnson Street along South 28<sup>th</sup> Avenue. Therefore, access to this facility during construction and post-construction should not be affected.


**Documentation**

The following items **must** be attached to this form to ensure proper documentation of the Section 4(f) No Use:

1. DOA package (if used)
2. Required communications with the OWJ

**Signatures**

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 14, 2016, and executed by FHWA and FDOT.

  
 \_\_\_\_\_  
 Preparer

2/26/2021  
 \_\_\_\_\_  
 Date





**Determination of Applicability (DOA) Form and Supporting  
Information**

DRAFT

**SECTION 4(F) DETERMINATION OF APPLICABILITY**

<b>Project Name:</b>	I-95 (SR 9) PD&E Study from South of Hallandale Beach Blvd to North of Hollywood Blvd		
<b>FM#:</b>	436903.1	<b>ETDM#:</b>	14254
<b>FAP#:</b>	D419-102-B		
<b>Project Review Date:</b>	10/13/2020		
<b>FDOT District:</b>	4		
<b>County(ies):</b>	Broward		

**Project Description including Section 4(f) Specific Information:**

The proposed project involves improvements to I-95 Interchanges at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. The project limits are from the Miami-Dade/Broward County Line to Johnson Street, a distance of approximately three miles. This study will evaluate potential modifications to existing entrance and exit ramps and the potential addition of collector-distributor roadways serving these three interchanges. The McNicol Community Center is a recreational facility managed by the City of Hollywood but located on property owned by the School Board of Broward County.

**Type of Property**

Check all that apply:

- Public Parks and Recreation Areas
- Wildlife and Waterfowl Refuges
- Historic Sites

**Description of Property:** McNicol Community Center - This facility provides multipurpose rooms, playground, lighted basketball courts (three courts), track and field, tennis court (two courts), a baseball/multipurpose field with bleachers and parking areas. It provides aftercare services, summer camp and other public programs. The property is adjacent to the City of Hollywood's Parks, Recreation & Cultural Arts Administrative Offices and all are located on property owned by the School Board of Broward County. It is located north of Pembroke Road on South 28th Avenue.

**Criteria of Selected Property Type(s):** **Public Parks and Recreation Areas**

- Must be publicly owned which refers to ownership by local, state or federal government
  - Ownership can also include permanent easements and long-term lease agreements
- Must be open to the public during normal hours of operation
- The major purpose must be for park or recreation activities
- Must be designated or function as a significant park or recreational area.
  - Applies to the entire park or recreation area not just a specific feature

 **Wildlife and Waterfowl Refuge**

- Must be publicly owned which refers to ownership by local, state or federal government;
  - Ownership can also include permanent easements and long-term lease agreements;
- Must be open to the public but **refuges are able to restrict access for the protection of refuge habitat and species;**
- The major purpose must be for wildlife and waterfowl refuges;
- Must be designated or function as a significant as a wildlife and waterfowl refuges; -
  - Applies to the entire wildlife and waterfowl refuges not just a specific feature

**SECTION 4(F) DETERMINATION OF APPLICABILITY**

**Historic Sites-** includes historic buildings, historic transportation facilities, archeological sites, traditional cultural places, historic & archeological districts and historic trails.

- o Must be of national, state or local significance and it must be eligible for listing or is listed in the National Register of Historic Places (NRHP); or
- o If a site is determined not to be eligible OEM may determine that the application of Section 4(f) is otherwise appropriate when an official (such as the Mayor, president of a local historic society) provides information to support that the historic site is of local importance.

**Does the identified resource meet all of the criteria for the selected property type?**

Yes, continue to complete the form

No, STOP Section 4(f) does not apply

**Identify the Official(s) with Jurisdiction (OWJ) contacted:** David Vazquez, Interim Director

**Date correspondence sent to the OWJ:** 7/16/2018

**Has the Official(s) with Jurisdiction (OWJ) responded?**

Yes  No

**Has the 30-day response period passed since the initial OWJ correspondence was sent?**

Yes  No

**Please answer the questions below about the resource:**

**Note: A potential source for this information can include the property management plan, resource website and/or communications with the OWJ (be sure to document these communications in writing).**

**What is the size and location of the property (include a map of the resource)?**

The community center building and playground encompass 0.14-acres and is adjacent to the track and field, basketball courts, tennis courts, and a baseball/multipurpose field. It is located on South 28<sup>th</sup> Avenue, approximately 515-feet north of Pembroke Road, east of I-95.

**Who/what organization owns/manages the property?**

School Board of Broward County/City of Hollywood.

**What is the primary function (activities, features and attributes) within the meaning of Section 4(f) of the facility or property?**

Public park use, aftercare, camps, community programs and meetings.

**Please describe the location of available appurtenances and facilities (e.g. tennis courts, pools, shelter houses, sports fields, beaches) on the property:**

Multipurpose rooms, lighted basketball court, track and field, playground, trails, tennis courts and a baseball/multipurpose field.

**What is the function of/or the available activities on the property?**

The facilities are available to the general public.

**Access and Usage of the property by the Public:**

**SECTION 4(F) DETERMINATION OF APPLICABILITY**

Access along South 28<sup>th</sup> Avenue through side streets or Pembroke Road to the south or Johnson Street to the north. Facility has operational hours depending on the season.

**Relationship to other similarly used lands/facilities in the vicinity:**

Another community center is located southeast of McNicol approximately 0.39-miles away. This other facility (OB Johnson Community Center) is located on the south side of Pembroke Road within the City of Hallandale Beach.

**Are there any unusual characteristics of the property that either limit or enhance the value of the resource? If so please explain:**

McNicol Community Center is located on property owned by the School Board of Broward County. The property is adjacent to the City of Hollywood's Parks, Recreation & Cultural Arts Administrative Offices within the overall Broward County School Board parcel.

**Describe project activities that could potentially "use" the resource:**

None. As previously discussed, the center is not located adjacent to proposed road improvements. Staging or storage of materials on center grounds is not proposed at this time and access can be maintained during construction via side streets and/or Johnson Street should the South 28<sup>th</sup> Avenue/Pembroke Road intersection be temporarily closed.

**If applicable, give a general description of the history of the Historic Site, Archaeological Site or Historic District:**

N/A.

**Based on the above information the recommended type of documentation for this property is:**

Select the appropriate documentation (i.e. No Use, Exception, de minimis approval, etc.): No Use

**Reason the selected level is appropriate:**

No use of the facility is proposed per the aforementioned reasons.

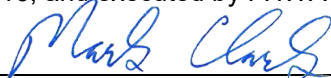
**Supporting Documentation**

The following items **must** be attached to this form:

1. A map of the resource based on the guidelines in Part 2, Chapter 7 of the PD&E Manual, including the proposed alternative being evaluated.
2. Statement of Significance from OWJ or FDOT's presumption of significance.
3. Determination of Eligibility or Listing in the National Register of Historic Places, Archaeological Site (*include criterion of eligibility*) or a Historic District if applicable.

**Signatures**

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 14, 2016, and executed by FHWA and FDOT.

  
Preparer

2/26/2021  
Date



**SECTION 4(F) DETERMINATION OF APPLICABILITY**

\_\_\_\_\_  
Environmental Manager, or designee

\_\_\_\_\_  
Date

**OEM  
Concurrence:**

\_\_\_\_\_  
OEM Subject Matter Expert

\_\_\_\_\_  
Date

DRAFT

**Aerial/Ground Level Photos**

DRAFT



**Legend**

- ▭ Approximate Community Center Boundary
- - - Approximate School Boundary

2017 Basemap Source: Esri, DigitalGlobe, GeoEye, Earthstar




	<p>SR9/I-95 from South of SR858/Hallandale Beach Blvd. to North of SR820/Hollywood Blvd. PD&amp;E Study Broward County</p>	<p>McNicol Community Center</p>	<p>Date Prepared: 10/15/2020 Page 86 of 194</p>
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Photo 1: City of Hollywood's McNicol Community Center and playground, note the entire facility is located on land owned by the Broward County School Board. City of Hollywood's Parks, Recreation & Cultural Arts Administrative Offices are co-located with community center, looking east.



Photo 2: McNicol Community Center, tennis courts, looking southeast.





Photo 3: McNicol Community Center, playground, looking east.



Photo 4: McNicol Community Center, baseball field, looking north.

**OWJ Response**

**DRAFT**



*Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

3400 West Commercial Boulevard  
Fort Lauderdale, Florida 33309

MIKE DEW  
SECRETARY

July 16, 2018

David Vazquez, Interim Director  
Parks, Recreation, and Cultural Arts  
City of Hollywood  
PO Box 229045  
Hollywood, FL 33022-9045

RE: Section 4(f) Determination of Applicability  
FDOT Project FM No.: 436903-1-22-02  
I-95 Project Development and Environment Study  
From: South of Hallandale Beach Boulevard  
To: North of Hollywood Boulevard  
Broward County, Florida

Dear Mr. Vazquez:

The purpose of this correspondence is to coordinate with the City regarding the applicability of Section 4(f) criteria for four City-owned public recreation facilities/sites. The Florida Department of Transportation (FDOT) is performing a Project Development and Environment (PD&E) Study for the segment of I-95 from south of Hallandale Beach Boulevard to north of Hollywood Boulevard (see Figure 1). The primary need for this project is to increase capacity at the interchanges of I-95 at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. Arterial improvements are also proposed along Pembroke Road and Hollywood Boulevard, within the City of Hollywood. A Section 4(f) resource is divided into two categories: 1) publicly owned parks, recreation areas, and waterfowl/wildlife refuges and, 2) historic and archaeological sites of national, state, or local significance in public or private ownership. Section 4(f) only applies to publicly owned parks, recreation areas, and wildlife/waterfowl refuges determined to be significant by the Official with Jurisdiction (OWJ). As part of the significance evaluation, the following statement from the FDOT's PD&E Manual applies:

*"Significance means that in comparing the availability and function of the recreation area, park or wildlife and waterfowl refuge area with the recreational park and refuge objectives of that community, the land in question plays an important role in meeting those objectives."*

As stated above, the City owns four public recreation facilities/sites adjacent to, or in the vicinity of, the project: Orangebrook Golf Course (400 Entrada Drive), Lions Park (3003 Hollywood Boulevard), McNicol Community Center (1411 South 28<sup>th</sup> Avenue), and Stanley Goldman Memorial Park (800 Knights Road). Figure 2 depicts the locations of these areas in relation to the project. To ascertain applicability, a Section 4(f) Determination of Applicability (DOA) must be prepared by FDOT for those resources determined by the OWJ to be significant. The DOA then provides the information needed to ascertain if Section 4(f) criteria applies to the resources/properties identified. As part of the evaluations, the FDOT requests your assistance answering the following questions for all these facilities/sites:

- Please confirm the facilities/properties are owned and managed by the City, open to the public during normal hours of operation, and whose major purpose is recreation.

Section 4(f) Determination of Applicability  
I-95 PD&E Study

FM 436903-1-22-02  
July 16, 2018

- Orangebrook Golf Course – *yes*
  - Lions Park – *yes*
  - McNicol Community Center – *yes*
  - Stanley Goldman Memorial Park – *yes*
  
- What is their size and location park?
  - Orangebrook Golf Course – *255 acres*
  - Lions Park – *.36 acres*
  - McNicol Community Center – *.14 acres*
  - Stanley Goldman Memorial Park – *11.82 acres*
  
- Does the City consider these facilities/properties significant in relation to Section 4(f)? Section 4(f) significance means that in comparing the availability and function of the resources they meet the objectives of the agency, community or authority. Section 4(f) only applies to public and private historic sites, publicly-owned parks, recreation areas, and wildlife and waterfowl refuges determined to be significant by the Official with Jurisdiction.
  - Orangebrook Golf Course – *yes*
  - Lions Park – *yes*
  - McNicol Community Center – *yes*
  - Stanley Goldman Memorial Park – *yes*
  
- Please describe the locations of available appurtenances and facilities (e.g. tennis courts, pools, shelters, sports fields, etc.) on each property. Is a site map showing these facilities available for each facility/property? *no site map.*
  - Orangebrook Golf Course – *golf, disc golf, banquet hall, restaurant*
  - Lions Park – *walkway benches*
  - McNicol Community Center – *community, playground*
  - Stanley Goldman Memorial Park – *walkway, dog park, skate park, pickleball courts*
  
- What are the functions of/or the available activities at/on the facilities/properties?
  - Orangebrook Golf Course – *golf*
  - Lions Park – *passive park*
  - McNicol Community Center – *aftercare, camps, programs, community meetings*
  - Stanley Goldman Memorial Park – *passive/active park*
  
- Please describe access and use of the facilities/properties by the public.
  - Orangebrook Golf Course – *down to dusk*
  - Lions Park – *down to dusk*
  - McNicol Community Center – *operational hours determined by season.*
  - Stanley Goldman Memorial Park – *down to dusk.*
  
- Are there any unusual characteristics of the facilities/properties that either limit or enhance the value of the resources? If so, please explain. *no.*



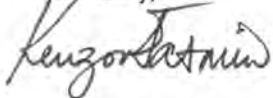
Section 4(f) Determination of Applicability  
I-95 PD&E Study

FM 436903-1-22-02  
July 16, 2018

- o Orangebrook Golf Course - *deeded restriction*
- o Lions Park - *No*
- o McNicol Community Center - *located on SABC land?*
- o Stanley Goldman Memorial Park - *No*

Thank you for your assistance. If you have any questions, please contact me at (954) 777-4462, kenzot.jasmin@dot.state.fl.us.

Sincerely,



Kenzot Jasmin  
Project Management Engineer

Cc: Mary Milford, FDOT  
Ryan Solis-Rios, Corradino  
Mark Clark, CECOS

**From:** [Schanz, Cathie](#)  
**To:** [Mark Clark](#)  
**Cc:** ["Jasmin, Kenzot"; "Ryan Solis-Rios"](#)  
**Subject:** RE: I-95 Project Development and Environment Study\_Hallandale Beach Blvd to Hollywood Boulevard\_Section 4(f)  
**Date:** Monday, July 23, 2018 12:19:20 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[OB Johnson Site Plan.pdf](#)  
[Ingalls Site Plan.pdf](#)

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Hello,

Please accept the following information in response to your request for information for the I-95 PD&E study:

Please confirm both parks are owned and managed by the City, open to the public during normal hours of operation, and whose major purpose is recreation.

- o Oreste Blake Johnson Park – OB Johnson Park is owned and managed by the City of Hallandale Beach, it is open to the public during normal hours of operation, and the major purpose is recreation.
- o Ingalls Park- Ingalls Park is owned by the State of Florida under the Department of Natural Resources, Division of State Lands and is managed by the City of Hallandale Beach under a 99 year lease. It is currently under construction for major renovations and will be open to the public during normal business hours of operation once the construction is completed. The major purpose is recreation.

Does the City consider these parks significant in relation to Section 4(D)? Section 4(D) significance means that in comparing the availability and function of the resources they meet the objectives of the agency, community or authority. Section 4(D) only applies to public and private historic sites, publicly-owned parks, recreation areas, and wildlife and waterfowl refuges determined to be significant by the Official with Jurisdiction.

Yes, the City of Hallandale Beach considers both Parks to be significant as they are part of the City's Comprehensive Plan - Recreation and Open Space element as well as the Broward County Land Use Plan.

- o Oreste Blake Johnson Park – OB Johnson Park is located in the City's Northwest Planning District.
- o Ingalls Park – Ingalls Park is located in the City's Southwest Planning District.

Please describe the locations of available appurtenances and facilities (e.g. tennis courts, pools, shelters, sports fields, etc.) on each property. Is a site map showing this facilities available for each park?

- o Oreste Blake Johnson Park – OB Johnson Park's 6.17 acres feature the City's largest (42,000 sq ft) multi-generational Community Center home of a gymnasium, computer lab, fitness center, Teen Zone, and Human Services Department. The popular newly renovated (2016) Park amenities include: lit parking lot, community center, playground equipment with turf surfacing, tennis courts, field house, multi-purpose athletic field, landscaping, pathways, site amenities.
- o Ingalls Park- Ingalls Park's 4.63 acres are currently under renovation. The renovated Park amenities will include a lit parking lot, community center w/expanded multi-purpose room & outdoor patio, two pavilions and a gazebo, outdoor fitness 'gym', retention pond with walking bridge, playground equipment with rubberized surfacing, landscaping, pathways, site amenities.

What are the functions of/or available activities at/on the parks?

- o Oreste Blake Johnson Park – OB Johnson Park activities include: Community Events; Football and Soccer leagues, tournaments, and clinics; open tennis play, high school tennis practice, and tennis programs; open playground play; supervised Teen program; self-directed fitness/ workout center; community computer training, programs, open community computer lab; basketball, volleyball, and Pickleball open gym play, leagues, clinics, tournaments; afterschool programming, senior programming. Free, onsite parking is available.
- o Ingalls Park – Ingalls Park is a popular park to relax, work out, and enjoy the pavilions and playground. The community center hosts numerous community celebrations, meetings, and events annually. Free, onsite parking is available.

Please describe access and use of the parks by the public.

o **Oreste Blake Johnson Park** – OB Johnson is a very popular park. The Teen Program has almost 200 participants in its daily program. The onsite afterschool program has 175 participants. The senior program offers daily outreach programs including an activity center, computer classes, ESOL classes, wellness programs, and more. Our PAL Football, Basketball, and Soccer leagues offer athletics as well as tutoring services for community youth at the park. The local High School Tennis team practices at the park, lessons are provided for program participants, and community members utilize the tennis courts for open play. The playground is a popular destination for the community's children. The computer lab is open to the public 7 days a week. The fitness center and gymnasium are also open to the public 7 days a week with a reasonable fee. The Park is a hub of activity in the NW community.

o **Ingalls Park**- Ingalls Park is a popular park to relax, work out, and enjoy the pavilions and playground. The community center hosts numerous community celebrations, meetings, and events annually.

• Are there any unusual characteristics of the properties that either limit or enhance the value of the resources? If so, please explain.

o **Oreste Blake Johnson Park** – OB Johnson host our Human Service Department that provides Social Services to the residents of Hallandale Beach. A Community Policing office is in the park. This allows us to reach and provide a wide array of comprehensive social and recreation services to our community.

o **Ingalls Park**- Ingalls Park's 4.63 acres are dotted with old growth trees (over 100 trees in park) that provide beautiful shaded areas to enjoy. It is the most natural landscaping in our City Parks.

Please let me know if you need any additional information.

Cathie Schanz, CPRE  
Hallandale Beach Parks and Recreation Director

---

**From:** Mark Clark [mailto:mc@cecosenvironmental.com]

**Sent:** Tuesday, July 17, 2018 9:38 PM

**To:** Schanz, Cathie <cschanz@hallandalebeachfl.gov>

**Cc:** 'Jasmin, Kenzot' <Kenzot.Jasmin@dot.state.fl.us>; 'Ryan Solis-Rios' <rsolis-rios@CORRADINO.com>

**Subject:** RE: I-95 Project Development and Environment Study\_Hallandale Beach Blvd to Hollywood Boulevard\_Section 4(f)

Ms. Schanz,

Good day. The purpose of this email is to coordinate with the City of Hollywood regarding the applicability of Section 4(f) criteria for two City-owned public recreation areas. The Florida Department of Transportation (FDOT) is performing a Project Development and Environment (PD&E) Study for that segment of I-95 starting south of Hallandale Beach Boulevard and continuing north of Hollywood Boulevard. Please see the attached letter from the FDOT Project Manager, Mr. Kenzot Jasmine, for additional project information. In addition, the attached letter also requests information pertinent to the Section 4(f) evaluation related to each recreational area. Your assistance with that information will be greatly appreciated. Please note the FDOT's and Consultant Team's Project Manager are also copied on this email, so their contact information is shown above.

Please let me know if you have any questions and thank you, again for your assistance.

Mark Clark

Senior Environmental Scientist



**Cyriacks Environmental Consulting Services, Inc.**

**3001 Southwest 15<sup>th</sup> Street | Suite B | Deerfield Beach, Florida 33442**

**T: 954.571.0290 | F: 954.480.9962**

**7850 Northwest 146<sup>th</sup> Street | Suite 510 | Miami Lakes, Florida 33016**

**T: 305.509.6550**

[mc@cecosenvironmental.com](mailto:mc@cecosenvironmental.com)

DRAFT



**SECTION 4(F) NO USE DETERMINATION**

<b>Name:</b>	I-95 (SR 9) PD&E Study from South of Hallandale Beach Blvd to North of Hollywood Blvd		
<b>FM#:</b>	436903-1-22-01	<b>ETDM#:</b>	14254
<b>Project Review Date:</b>	10/13/2020	<b>FAP#:</b>	D419-102-B
<b>FDOT District:</b>	4		
<b>County(ies):</b>	Broward		

**Project Description including Section 4(f) Specific Information:**

The proposed project involves improvements to I-95 Interchanges at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. The project limits are from the Miami-Dade/Broward County Line to Johnson Street, a distance of approximately three miles. This study will evaluate potential modifications to existing entrance and exit ramps and the potential addition of collector-distributor roadways serving these three interchanges. Stan Goldman Memorial Park is a recreational facility owned and managed by the City of Hollywood. This site is also a Section 6(f) resource.

**Type of Property: Public Parks and Recreation Areas**

**Description of Property: Stan Goldman Memorial Park - This facility provides trails, a dog park, pickleball courts, and a skate park. The majority of the facilities are located north of the Tri-Rail Station, west of I-95, and north of Hollywood Boulevard. There is a walking trail associated with the park that begins at Hollywood Boulevard and continues north, adjacent to the east side of the Hollywood Canal, to Johnson Street.**

**Establishing Section 4(f) Use of the Property**

Will the property be "used" as defined in **Section 4(f)** Resources chapter of the FDOT PD&E Manual? Examples of a "use" include but are not limited to acquiring right of way, new easements, and temporary occupancy?

- Yes  
 No

**An explanation of the relationship between the Section 4(f) property and the project:**

The majority of the park facilities are located north of the Tri-Rail Station, west of I-95, and north of Hollywood Boulevard. However, there is a walking trail in the park that begins at Hollywood Boulevard and continues north to Johnson Street. The proposed improvements to I-95 or Hollywood Boulevard do not extend to park facilities and the proposed road improvements along Hollywood Boulevard do not extend outside the existing right-of-way line (therefore the trail should not be affected). Temporary construction use is not proposed and access to this facility can be provided via Johnson Street in the event temporary access at Hollywood Boulevard is effected during construction. Therefore, access to this facility during construction and post-construction should not be affected.

**Documentation**

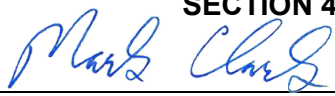
The following items **must** be attached to this form to ensure proper documentation of the Section 4(f) No Use:

1. DOA package (if used)
2. Required communications with the OWJ

**Signatures**

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 14, 2016, and executed by FHWA and FDOT.

**SECTION 4(F) NO USE DETERMINATION**



Preparer

2/26/2021

Date

Environmental Manager, or designee

Date

**OEM  
Concurrence:**

OEM Subject Matter Expert

Date

**OEM  
Approval:**

Director of OEM, or designee

Date

DRAFT

**Determination of Applicability (DOA) Form and Supporting  
Information**

DRAFT

**SECTION 4(F) DETERMINATION OF APPLICABILITY**

<b>Project Name:</b>	I-95 (SR 9) PD&E Study from South of Hallandale Beach Blvd to North of Hollywood Blvd		
<b>FM#:</b>	436903.1	<b>ETDM#:</b>	14254
<b>FAP#:</b>	D419-102-B		
<b>Project Review Date:</b>	10/13/2020		
<b>FDOT District:</b>	4		
<b>County(ies):</b>	Broward		

**Project Description including Section 4(f) Specific Information:**

The proposed project involves improvements to I-95 Interchanges at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. The project limits are from the Miami-Dade/Broward County Line to Johnson Street, a distance of approximately three miles. This study will evaluate potential modifications to existing entrance and exit ramps and the potential addition of collector-distributor roadways serving these three interchanges. Stan Goldman Memorial Park is a recreational facility owned and managed by the City of Hollywood. This site is also a Section 6(f) resource.

**Type of Property**

Check all that apply:

- Public Parks and Recreation Areas
- Wildlife and Waterfowl Refuges
- Historic Sites

**Description of Property:** Stan Goldman Memorial Park - This facility provides trails, a dog park, pickleball courts, and a skate park. The majority of the park's facilities are located north of the Tri-Rail Station, west of I-95, and north of Hollywood Boulevard. There is a walking trail associated with the park that begins at Hollywood Boulevard and continues north, adjacent to the Hollywood Canal, to Johnson Street.

**Criteria of Selected Property Type(s):** **Public Parks and Recreation Areas**

- Must be publicly owned which refers to ownership by local, state or federal government
  - Ownership can also include permanent easements and long-term lease agreements
- Must be open to the public during normal hours of operation
- The major purpose must be for park or recreation activities
- Must be designated or function as a significant park or recreational area.
  - Applies to the entire park or recreation area not just a specific feature

 **Wildlife and Waterfowl Refuge**

- Must be publicly owned which refers to ownership by local, state or federal government;
  - Ownership can also include permanent easements and long-term lease agreements;
- Must be open to the public but **refuges are able to restrict access for the protection of refuge habitat and species;**
- The major purpose must be for wildlife and waterfowl refuges;
- Must be designated or function as a significant as a wildlife and waterfowl refuges; -
  - Applies to the entire wildlife and waterfowl refuges not just a specific feature



**SECTION 4(F) DETERMINATION OF APPLICABILITY**

**Historic Sites-** includes historic buildings, historic transportation facilities, archeological sites, traditional cultural places, historic & archeological districts and historic trails.

- o Must be of national, state or local significance and it must be eligible for listing or is listed in the National Register of Historic Places (NRHP); or
- o If a site is determined not to be eligible OEM may determine that the application of Section 4(f) is otherwise appropriate when an official (such as the Mayor, president of a local historic society) provides information to support that the historic site is of local importance.

**Does the identified resource meet all of the criteria for the selected property type?**

Yes, continue to complete the form

No, STOP Section 4(f) does not apply

**Identify the Official(s) with Jurisdiction (OWJ) contacted:** David Vazquez, Interim Director

**Date correspondence sent to the OWJ:** 7/16/2018

**Has the Official(s) with Jurisdiction (OWJ) responded?**

Yes  No

**Has the 30-day response period passed since the initial OWJ correspondence was sent?**

Yes  No

**Please answer the questions below about the resource:**

**Note: A potential source for this information can include the property management plan, resource website and/or communications with the OWJ (be sure to document these communications in writing).**

**What is the size and location of the property (include a map of the resource)?**

11.82-acres. The park is located west of I-95 between Hollywood Boulevard and Johnson Street. The majority of the park's facilities are located north of the existing Tri-Rail Station except for one trail that begins at Hollywood Boulevard and continues north to Johnson Street, adjacent to the Hollywood Canal.

**Who/what organization owns/manages the property?**

City of Hollywood.

**What is the primary function (activities, features and attributes) within the meaning of Section 4(f) of the facility or property?**

Public park with passive and active uses.

**Please describe the location of available appurtenances and facilities (e.g. tennis courts, pools, shelter houses, sports fields, beaches) on the property:**

Trails, dog park, skate park, and pickleball courts.

**What is the function of/or the available activities on the property?**

The facilities are available to the general public and open from dawn until dusk.

**Access and Usage of the property by the Public:**

**SECTION 4(F) DETERMINATION OF APPLICABILITY**

Vehicle access from Johnson Street. Pedestrian access from Johnson Street or Hollywood Boulevard (via existing trail).

**Relationship to other similarly used lands/facilities in the vicinity:**

One passive park is located approximately 250-feet west of the park trail adjacent to Hollywood Boulevard. This other facility (Lions Park) provides only passive use. An existing boardwalk, over the Hollywood Canal provides access to Lions Park. The Hollywood Canal is owned by the City of Hollywood and the boardwalk is not part of Stan Goldman Memorial Park.

**Are there any unusual characteristics of the property that either limit or enhance the value of the resource? If so please explain:**

Per the ETDM Summary Report, Stan Goldman Memorial Park (LWCF site # 12-00262) is a Section 6(f) resource.

**Describe project activities that could potentially "use" the resource:**

None. As previously discussed, the park amenities are not located adjacent to proposed road improvements except for the trail starting just north of Hollywood Boulevard. Staging or storage of materials on park grounds is not proposed at this time and access can be maintained during construction should the Hollywood Boulevard entrance be temporarily closed.

**If applicable, give a general description of the history of the Historic Site, Archaeological Site or Historic District:**

N/A.

**Based on the above information the recommended type of documentation for this property is:**

Select the appropriate documentation (i.e. No Use, Exception, de minimis approval, etc.): No Use

**Reason the selected level is appropriate:**

No use of the facility is proposed per the aforementioned reasons.

**Supporting Documentation**

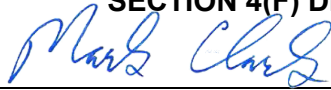
The following items **must** be attached to this form:

1. A map of the resource based on the guidelines in Part 2, Chapter 7 of the PD&E Manual, including the proposed alternative being evaluated.
2. Statement of Significance from OWJ or FDOT's presumption of significance.
3. Determination of Eligibility or Listing in the National Register of Historic Places, Archaeological Site (*include criterion of eligibility*) or a Historic District if applicable.

**Signatures**

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 14, 2016, and executed by FHWA and FDOT.

**SECTION 4(F) DETERMINATION OF APPLICABILITY**



Preparer

2/26/2021

Date

Environmental Manager, or designee

Date

**OEM  
Concurrence:**

OEM Subject Matter Expert

Date

DRAFT

**Aerial/Ground Level Photos**

DRAFT





**Legend**

- Stan Goldman Memorial Park**

Park Boundary Source:  
Broward County GIS Database  
2017 Basemap Source: Esri,  
DigitalGlobe, GeoEye, Earthstar




	<p>SR9/I-95 from South of SR858/Hallandale Beach Blvd. to North of SR820/Hollywood Blvd. PD&amp;E Study Broward County</p>	<p>Stanley Goldman Memorial Park</p>	<p>Date Prepared: 10/15/2020 Page 104 of 194</p>
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Photo 1: City of Hollywood's Stan Goldman Park Entrance Sign, adjacent to Hollywood Boulevard, looking north.



Photo 2: Stan Goldman Park, existing trail adjacent to Hollywood Boulevard, looking north. Note trail continues north to Johnson Street.



Photo 3: Stan Goldman Park, existing trail between Hollywood Boulevard and Johnson Street, looking north (typical). Note all other facilities associated with Stan Goldman Park are at the north end closer to Johnson Street.

**OWJ Response**

**DRAFT**





*Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

3400 West Commercial Boulevard  
Fort Lauderdale, Florida 33309

MIKE DEW  
SECRETARY

July 16, 2018

David Vazquez, Interim Director  
Parks, Recreation, and Cultural Arts  
City of Hollywood  
PO Box 229045  
Hollywood, FL 33022-9045

RE: Section 4(f) Determination of Applicability  
FDOT Project FM No.: 436903-1-22-02  
I-95 Project Development and Environment Study  
From: South of Hallandale Beach Boulevard  
To: North of Hollywood Boulevard  
Broward County, Florida

Dear Mr. Vazquez:

The purpose of this correspondence is to coordinate with the City regarding the applicability of Section 4(f) criteria for four City-owned public recreation facilities/sites. The Florida Department of Transportation (FDOT) is performing a Project Development and Environment (PD&E) Study for the segment of I-95 from south of Hallandale Beach Boulevard to north of Hollywood Boulevard (see Figure 1). The primary need for this project is to increase capacity at the interchanges of I-95 at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. Arterial improvements are also proposed along Pembroke Road and Hollywood Boulevard, within the City of Hollywood. A Section 4(f) resource is divided into two categories: 1) publicly owned parks, recreation areas, and waterfowl/wildlife refuges and, 2) historic and archaeological sites of national, state, or local significance in public or private ownership. Section 4(f) only applies to publicly owned parks, recreation areas, and wildlife/waterfowl refuges determined to be significant by the Official with Jurisdiction (OWJ). As part of the significance evaluation, the following statement from the FDOT's PD&E Manual applies:

*"Significance means that in comparing the availability and function of the recreation area, park or wildlife and waterfowl refuge area with the recreational park and refuge objectives of that community, the land in question plays an important role in meeting those objectives."*

As stated above, the City owns four public recreation facilities/sites adjacent to, or in the vicinity of, the project: Orangebrook Golf Course (400 Entrada Drive), Lions Park (3003 Hollywood Boulevard), McNicol Community Center (1411 South 28<sup>th</sup> Avenue), and Stanley Goldman Memorial Park (800 Knights Road). Figure 2 depicts the locations of these areas in relation to the project. To ascertain applicability, a Section 4(f) Determination of Applicability (DOA) must be prepared by FDOT for those resources determined by the OWJ to be significant. The DOA then provides the information needed to ascertain if Section 4(f) criteria applies to the resources/properties identified. As part of the evaluations, the FDOT requests your assistance answering the following questions for all these facilities/sites:

- Please confirm the facilities/properties are owned and managed by the City, open to the public during normal hours of operation, and whose major purpose is recreation.

Section 4(f) Determination of Applicability  
I-95 PD&E Study

FM 436903-1-22-02  
July 16, 2018

- Orangebrook Golf Course – *yes*
  - Lions Park – *yes*
  - McNicol Community Center – *yes*
  - Stanley Goldman Memorial Park – *yes*
- What is their size and location park?
    - Orangebrook Golf Course – *255 acres*
    - Lions Park – *.36 acres*
    - McNicol Community Center – *.14 acres*
    - Stanley Goldman Memorial Park – *11.82 acres*
  - Does the City consider these facilities/properties significant in relation to Section 4(f)? Section 4(f) significance means that in comparing the availability and function of the resources they meet the objectives of the agency, community or authority. Section 4(f) only applies to public and private historic sites, publicly-owned parks, recreation areas, and wildlife and waterfowl refuges determined to be significant by the Official with Jurisdiction.
    - Orangebrook Golf Course – *yes*
    - Lions Park – *yes*
    - McNicol Community Center – *yes*
    - Stanley Goldman Memorial Park – *yes*
  - Please describe the locations of available appurtenances and facilities (e.g. tennis courts, pools, shelters, sports fields, etc.) on each property. Is a site map showing these facilities available for each facility/property? *no site map.*
    - Orangebrook Golf Course – *golf, disc golf, banquet hall, restaurant*
    - Lions Park – *walkway benches*
    - McNicol Community Center – *community, playground*
    - Stanley Goldman Memorial Park – *walkway, dog park, skate park, pickleball courts*
  - What are the functions of/or the available activities at/on the facilities/properties?
    - Orangebrook Golf Course – *golf*
    - Lions Park – *passive park*
    - McNicol Community Center – *aftercare, camps, programs, community meetings*
    - Stanley Goldman Memorial Park – *passive/active park*
  - Please describe access and use of the facilities/properties by the public.
    - Orangebrook Golf Course – *down to dusk*
    - Lions Park – *down to dusk*
    - McNicol Community Center – *operational hours determined by season.*
    - Stanley Goldman Memorial Park – *down to dusk.*
  - Are there any unusual characteristics of the facilities/properties that either limit or enhance the value of the resources? If so, please explain. *no.*

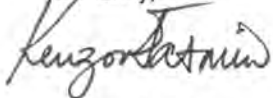
Section 4(f) Determination of Applicability  
I-95 PD&E Study

FM 436903-1-22-02  
July 16, 2018

- o Orangebrook Golf Course - *deleted restriction*
- o Lions Park - *No*
- o McNicol Community Center - *located on SABC land?*
- o Stanley Goldman Memorial Park - *No*

Thank you for your assistance. If you have any questions, please contact me at (954) 777-4462, kenzot.jasmin@dot.state.fl.us.

Sincerely,



Kenzot Jasmin  
Project Management Engineer

Cc: Mary Milford, FDOT  
Ryan Solis-Rios, Corradino  
Mark Clark, CECOS






**Legend**

- Project
- - - Project Limits Quarter Mile Buffer
- CERP Study area -
- Broward County Secondary Canal System
- Florida Managed
- Ives Estate

Conservation Lands Source: FGDL 2020  
2017 Basemap Source: Esri



	SR9/1-95 from South of SR858/Hallandale Beach Blvd. to North of SR820/Hollywood Blvd. PD&E Study Broward County	Conservation Lands Map	Figure 4.3
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## **Natural Resources Appendix**

### **Contents:**

Floodplains Map - FEMA Flood Maps

USFWS response to FDOT concurrence request

FDOT to USFWS Coordination Letter for Florida bonneted bat

Species and Habitat Map - Consultation Areas Map

Species and Habitat Map - Wood Stork CFA Map

Species and Habitat Map - FBB Urban Bat Area Map

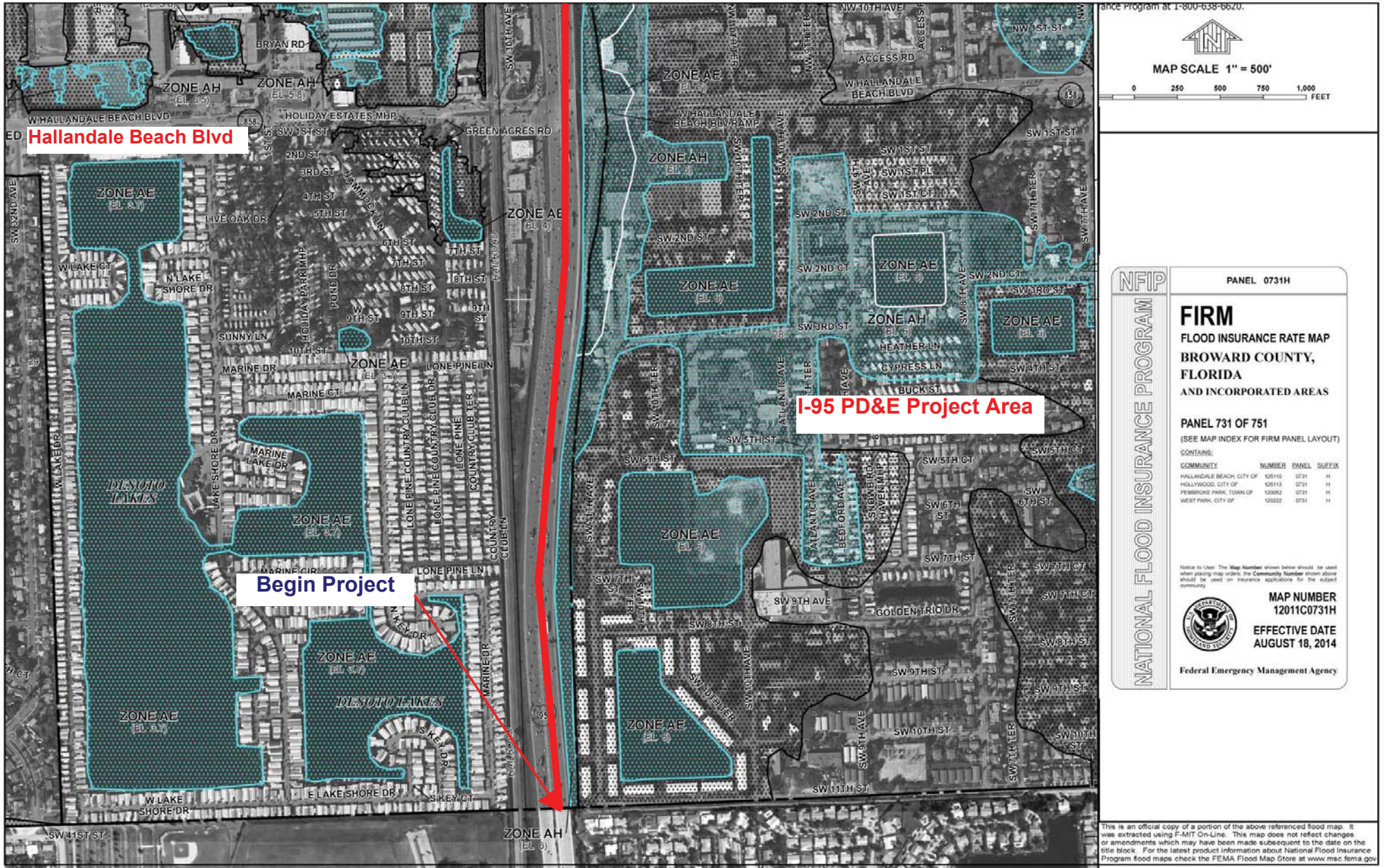
Wetlands Map

Sole Source Aquifer Coordination Letter

FBB Key Excerpt Couplets

Other Supporting Documentation related to Protected Species and Habitat - FDOT\_USFWS Coord Mtg

DRAFT



ance Program at 1-800-638-6620.

**MAP SCALE 1" = 500'**

0 250 500 750 1,000 FEET

**NFIP**

**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0731H

**FIRM**  
FLOOD INSURANCE RATE MAP  
BROWARD COUNTY,  
FLORIDA  
AND INCORPORATED AREAS

PANEL 731 OF 751  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HALLANDALE BEACH, CITY OF	425110	0731	H
HOLLYWOOD, CITY OF	425113	0731	H
PEMBROKE PARK, TOWN OF	100062	0731	H
WEST PARK, CITY OF	100022	0731	H

Notice to User: This Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

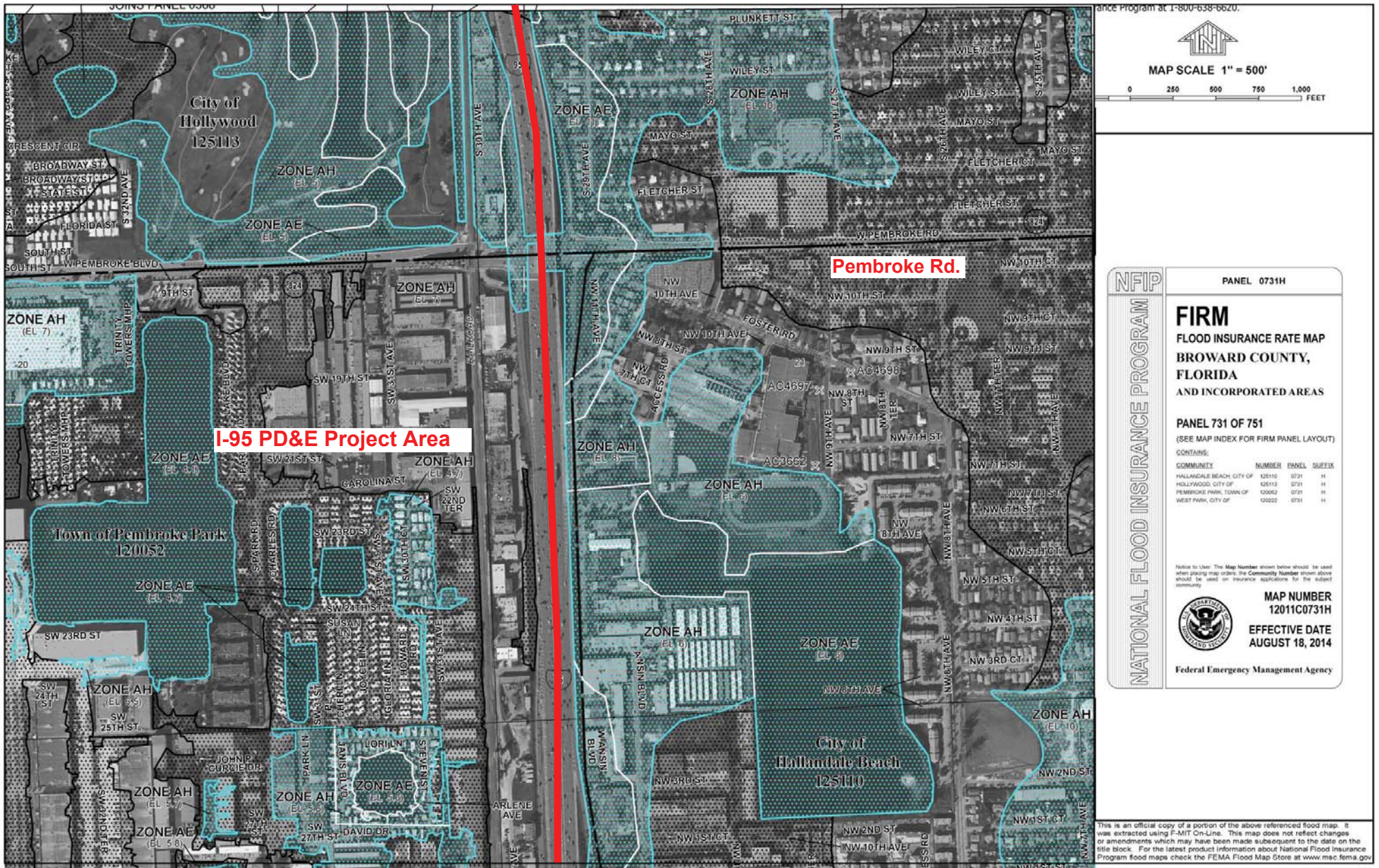
**MAP NUMBER**  
12011C0731H

**EFFECTIVE DATE**  
AUGUST 18, 2014

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)





ance Program at 1-800-638-6620.

**MAP SCALE 1" = 500'**

0 250 500 750 1,000 FEET

**NFIP**

**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0731H

**FIRM**  
FLOOD INSURANCE RATE MAP  
BROWARD COUNTY,  
FLORIDA  
AND INCORPORATED AREAS

PANEL 731 OF 751  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HALLANDALE BEACH, CITY OF	125110	0731	H
HOLLYWOOD, CITY OF	125113	0731	H
PEMBROKE PARK, TOWN OF	120062	0731	H
WEST PARK, CITY OF	100022	0731	H

Notice to User: This Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

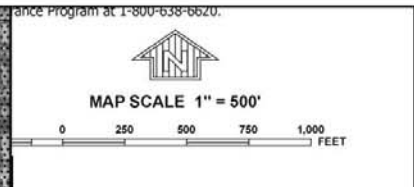
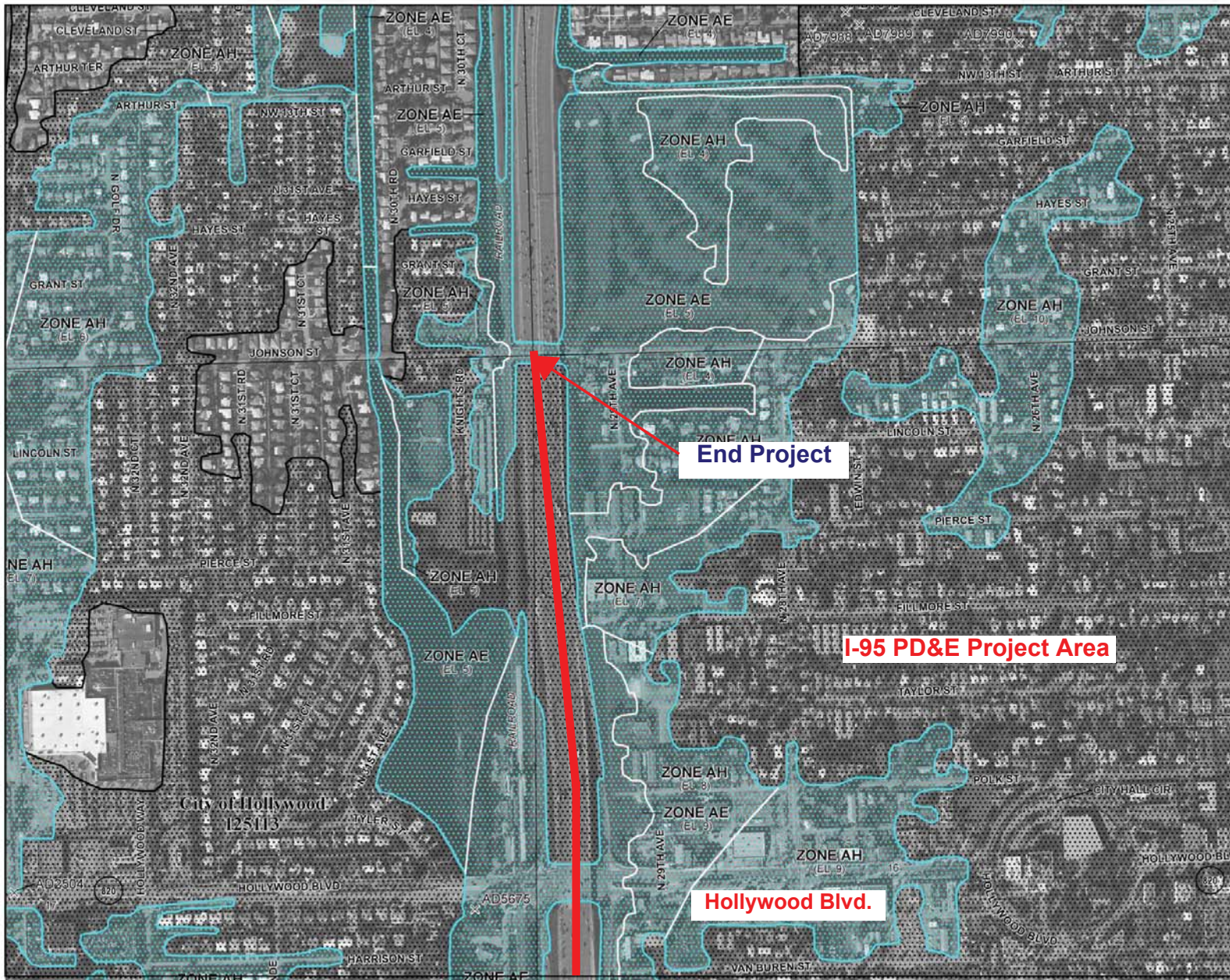
**MAP NUMBER 12011C0731H**

**EFFECTIVE DATE AUGUST 18, 2014**

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)





**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0568H

**FIRM**  
FLOOD INSURANCE RATE MAP  
BROWARD COUNTY,  
FLORIDA  
AND INCORPORATED AREAS

PANEL 568 OF 751  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:  
COMMUNITY: HOLLYWOOD, CITY OF  
NUMBER: 42513  
PANEL: 0568  
SUFFIX: H

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**MAP NUMBER**  
12011C0568H

**EFFECTIVE DATE**  
AUGUST 18, 2014

Federal Emergency Management Agency

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**From:** [Ascanio, Fernando](#)  
**To:** [Winn, Molly](#)  
**Cc:** [Mark Clark](#)  
**Subject:** FW: [EXTERNAL] Completed: Please DocuSign: FM No. 436903-1 Bonneted Bat Concurrence Request Letters  
**Date:** Monday, April 26, 2021 7:05:09 AM

---

Molly,

Below please see email from John responding to our request for concurrence.

Thanks,  
Fernando

Fernando Ascanio  
Senior Environmental Specialist  
District Four – PLEMO  
3400 West Commercial Blvd  
Fort Lauderdale, Florida 33309  
Office: (954)777-4664  
Mobile: (954) 260-7522

---

**From:** Wrublik, John <john\_wrublik@fws.gov>  
**Sent:** Wednesday, April 14, 2021 8:53 AM  
**To:** Ascanio, Fernando <Fernando.Ascanio@dot.state.fl.us>  
**Cc:** Sneckenberger, Sandra <sandra\_sneckenberger@fws.gov>  
**Subject:** Re: [EXTERNAL] Completed: Please DocuSign: FM No. 436903-1 Bonneted Bat Concurrence Request Letters

**EXTERNAL SENDER: Use caution with links and attachments.**

Fernando,

I talked to Sandra Sneckenberger (our office lead for the Florida bonneted bat) regarding your project. She indicated that due to the number of trees involved, acoustic surveys should be conducted for your project, but they are only needed for areas of trees that are at least 25 feet in height and have a DBH of 8 inches. She said she would be happy to talk to you or your consultant further to help pinpoint where the acoustic surveys should be conducted.

John

**John M. Wrublik**  
**U.S. Fish and Wildlife Service**  
**1339 20th Street**  
**Vero Beach, Florida 32960**  
**Office: (772) 469-4282**

Fax: (772) 562-4288

email: [John\\_Wrublik@fws.gov](mailto:John_Wrublik@fws.gov)

**NOTE:** This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

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**From:** DocuSign System <[dse\\_na2@docusign.net](mailto:dse_na2@docusign.net)> on behalf of Fernando Ascanio via DocuSign <[dse\\_na2@docusign.net](mailto:dse_na2@docusign.net)>

**Sent:** Monday, April 12, 2021 1:47 PM

**To:** Wrublik, John <[john\\_wrublik@fws.gov](mailto:john_wrublik@fws.gov)>

**Subject:** [EXTERNAL] Completed: Please DocuSign: FM No. 436903-1 Bonneted Bat Concurrence Request Letters

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**Fernando Ascanio**  
[Fernando.Ascanio@dot.state.fl.us](mailto:Fernando.Ascanio@dot.state.fl.us)

All parties have completed their review of the attached document routed through the FDOT DocuSign account. Copies are attached, for those who need to retain copies. Otherwise, please disregard this email. Please DocuSign: FM No. 436903-1 Bonneted Bat Concurrence Request Letters.

Hi John,  
For your review and concurrence.  
Thank you,

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## Florida Department of Transportation

RON DESANTIS  
GOVERNOR

3400 West Commercial Boulevard  
Fort Lauderdale, Florida 33309

KEVIN J. THIBAUT, P.E.  
SECRETARY

April 6, 2021

Mr. John Wrublik  
United States Fish and Wildlife Service  
South Florida Ecological Services Office  
1339 20th Street  
Vero Beach, FL 32960

[john\\_wrublik@fws.gov](mailto:john_wrublik@fws.gov)

**Subject:** Florida Bonneted Bat Coordination  
I-95 Project Development and Environment Study  
From South of Hallandale Beach Boulevard (SR 858) to  
North of Hollywood Boulevard (SR 820)  
Broward County, Florida  
FPID No. 436903-1-22-02  
ETDM No. 14254

Dear Mr. Wrublik:

The Florida bonneted bat (*Eumops floridanus*, FBB) was federally designated as an endangered species by the USFWS and therefore protected by the Endangered Species Act, as amended (*16 U.S. Code (U.S.C.) 1531-1544, 87 Stat. 884*). Based on availability of potential roosting and foraging habitat, and the project's size being greater than five acres, coordination with USFWS regarding this species is requested.

### Project Description

The Florida Department of Transportation (FDOT) District Four is conducting a Project Development and Environment (PD&E) Study for Interstate 95 (I-95) from south of Hallandale Beach Boulevard (SR 858) to north of Hollywood Boulevard (SR 820), a distance of approximately three miles (see **Figure 1.1**). The PD&E Study is proposing improvements to the Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard interchanges. The project is located in Broward County, Florida and is contained within the municipalities of Hallandale Beach, Pembroke Park, and Hollywood. The project is located within a completely urban/developed area as shown in the land use map included as **Attachment A** and aerial photographs of the corridor included as **Attachment B**.

I-95 is the primary north-south interstate facility that links all major cities along the Atlantic Seaboard and is one of the most important transportation systems in southeast Florida. I-95 is one of the two major expressways, Florida's Turnpike being the other that connects major employment centers and residential areas within the south Florida tri-county area. I-95 is part of the State's Strategic Intermodal System (SIS) and the National Highway System. In addition, I-95 is designated as an evacuation route along the east coast of Florida.

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I-95, within the project limits, currently consists of eight general use lanes (four in each direction) and four dynamically tolled express lanes (two in each direction). There are three existing full interchanges within the project limits located at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. Hallandale Beach Boulevard consists of four lanes west of I-95 and six lanes east of I-95. Pembroke Road and Hollywood Boulevard each have six lanes west of I-95 and four lanes east of I-95.

The FDOT is evaluating the potential modification of existing entrance and exit ramps serving the three interchanges within the project limits. Widening and turn lane modifications will be evaluated along Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard to facilitate the ramp modifications and improve the access and operation of the corridors upstream and downstream from the interchanges.

### Preliminary Data Collection

A comprehensive literature and Geographic Information System (GIS) database search was conducted for the Florida bonneted bat. The literature and database search included current South Florida Water Management Land Use Land Cover spatial data, 2019 US. Fish and Wildlife Service (USFWS) FBB Consultation Area spatial data, 2019 USFWS Consultation Key for the Florida Bonneted Bat, Designated Critical Habitat for the Florida Bonneted Bat, and current aerial imagery. Based on this data collection effort:

- The project falls within the USFWS FBB Consultation Area (CA)
- The project falls within the South Florida Urban Bat Area
- The project does not fall within FBB proposed Critical Habitat (per Federal Register, 50 CFR, Part 17 there is no critical habitat in Broward County) and,
- Potential foraging and roosting habitat was identified within, and adjacent to the corridor; however, the corridor is completely developed with urban infrastructure.

### Field Data Collection/Results

Throughout the urban, developed corridor, a combination of aerial interpretation, windshield surveys and pedestrian transects were used to conduct the field review to determine potential roosting habitat. Areas proposed for landscape impacts and those proposed for landscape impacts due to pond installation were reviewed during daylight hours (between 11:00 am to 4:00 pm). Temperature was approximately 80° F and weather conditions were partly cloudy/sunny.

There are numerous (100+) tall (20-25 ft. +) trees and palms located within the proposed impact areas. The majority of these tall palms were royal palms, date palms, and cabbage palms and the majority of the tall trees were cypress. These trees and palms were typically located throughout the project corridor directly adjacent to the existing highway (I-95) or urban arterials (Hollywood Boulevard, Pembroke Road, and Hallandale Beach Boulevard) and not consolidated in hammocks or forests. All of the palms/trees within the impact areas appear to be landscape material and not natural areas. Typical photos of these palms/trees are included as **Attachment C**. Some of these palms/trees were visually scanned and/or scanned using binoculars and cavities were not observed. Note that peep or acoustical surveys were not performed.

The three existing bridges proposed for widening were reviewed for presence of chirping (non-meter) and bat guano. Neither of these indicators was heard/observed. Bats were not observed during the field review.

### Discussion

Per the FBB Guidelines, dated October 22, 2019, suitable foraging habitat that provides drinking water and prey base can be found within golf courses, parking lots, and parks; all of which are present within or adjacent to the corridor. Per these guidelines, potential roosting habitat can consist of forests or other tall mature trees or other areas with

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suitable roost structures (utility poles, artificial structures, for example). As related to this project, "forest" can be defined as royal palm hammocks and cypress forests.

As previously mentioned, the project location was identified within the FBB consultation area, as well as the more restrictive South Florida Urban Bat Area. Based on the presence of bridges and tall landscape trees within the project corridor, potential FBB roosting habitat could exist. The two largest open areas adjacent to the corridor are the Orangebrook Golf Course and the former Sunset Golf Course. Minor impacts to Orangebrook/City-owned property are proposed, directly adjacent to Hollywood Boulevard and Pembroke Road. While a pond is proposed in the former Sunset Golf Course at this time, it will not encompass the entire parcel. The specific location of the proposed pond will be determined during final design. Individual or communal roosting was not observed during the field review. However, peep or acoustical surveys were not performed. For the Natural Resource Evaluation Report (NRE), a determination of effect could not be made without coordination with USFWS.


As the extent of landscape impacts is not known at this time, it was assumed all trees within proposed impact areas (landscape areas, ponds, and buildings) will be removed. In addition to the landscape impacts, several commercial and some residential buildings will also be removed for pond installation; but the extent of total building loss is not known at this time.

At this time, the FDOT requests to coordinate with your office as to whether roosting habitat is sufficiently available to warrant an acoustical survey, based on current corridor/site conditions, or if a *May Affect, Not Likely to Adversely Affect-P* determination is appropriate for the FBB. The FDOT commits to review the corridor during final design once the landscape, pond, and building impacts are further redefined.

If you have any questions, please do not hesitate to call me at (954) 777-4665 or via email at [fernando.ascanio@dot.state.fl.us](mailto:fernando.ascanio@dot.state.fl.us).

Sincerely,

DocuSigned by:

  
3B218C892E7F49A...

**Fernando Ascanio**  
Senior Environmental Specialist  
FDOT, District Four

Cc: Kenzot Jasmin, FDOT  
Ann Broadwell, FDOT  
Molly Winn, FDOT  
Ryan Solis-Rios, Corradino

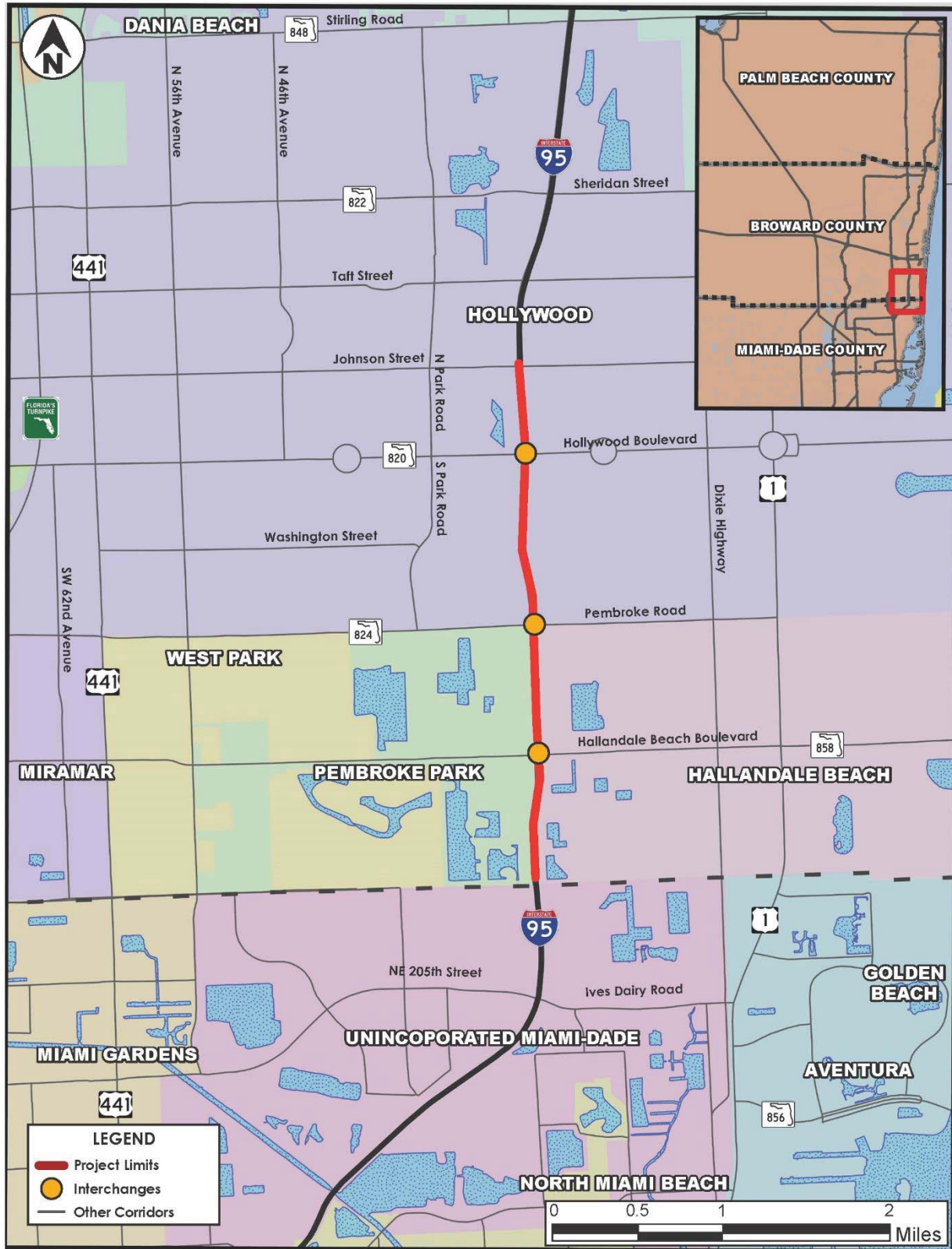
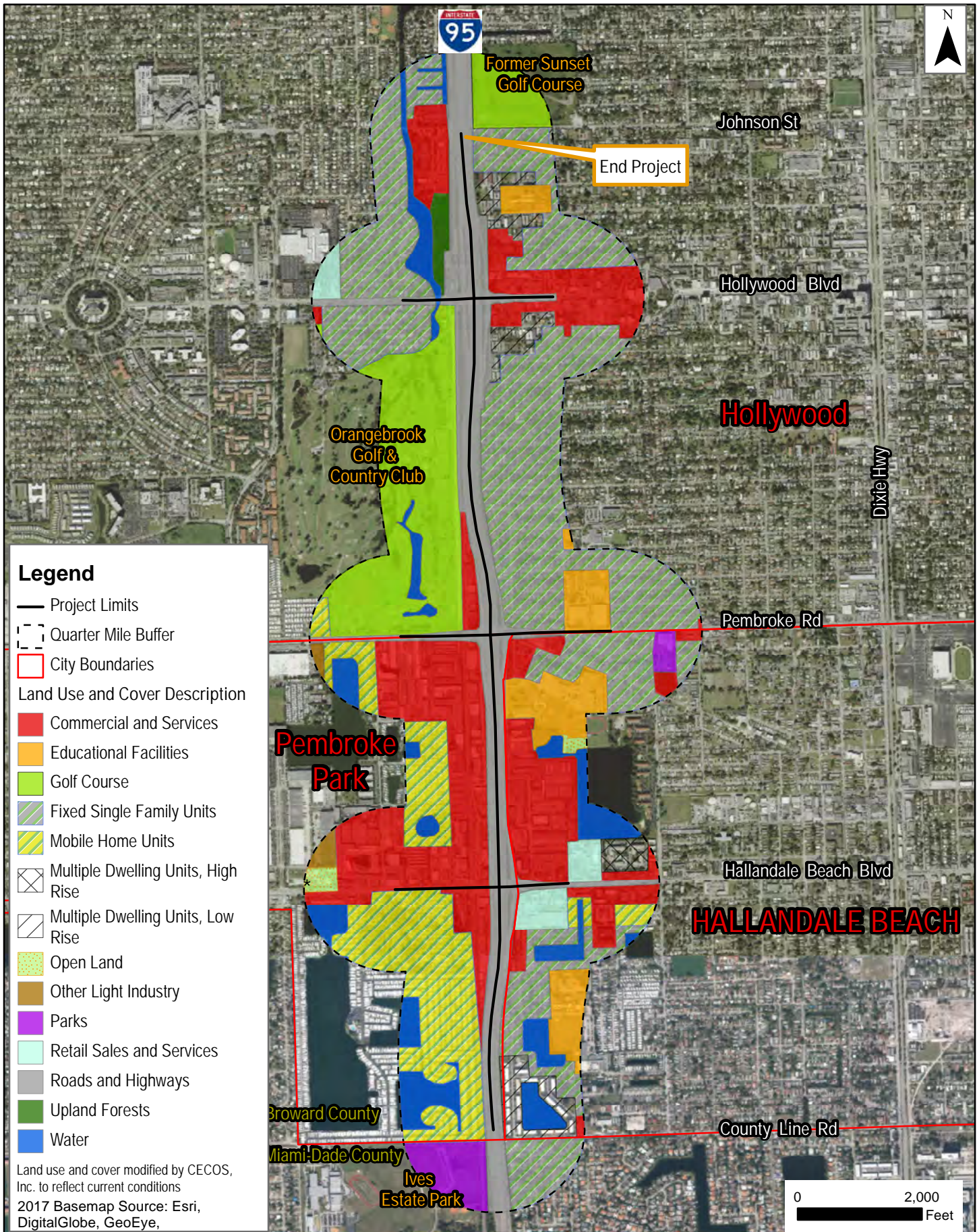


Figure 1.1 - Project Location Map



**ATTACHMENT A:**  
**Land Use Map**

DRAFT



**Legend**

- Project Limits
- - - Quarter Mile Buffer
- City Boundaries
- Land Use and Cover Description
- Commercial and Services
- Educational Facilities
- Golf Course
- ▨ Fixed Single Family Units
- ▨ Mobile Home Units
- ▩ Multiple Dwelling Units, High Rise
- ▩ Multiple Dwelling Units, Low Rise
- ▨ Open Land
- Other Light Industry
- Parks
- Retail Sales and Services
- Roads and Highways
- Upland Forests
- Water

Land use and cover modified by CECOS, Inc. to reflect current conditions  
 2017 Basemap Source: Esri, DigitalGlobe, GeoEye,



SR95/95 from South of SR858/Hallandale Beach Blvd. to North of SR820/Hollywood Blvd. PD&E Study  
 Broward County

Land Use and Cover Map  
 Source: SFWMD & FDOT (2015)

Figure 4.2  
 Date Prepared: 12/28/2020  
 Page 124 of 134



**ATTACHMENT B:**  
**Aerials of the Project Corridor**

DRAFT



SR 91/95 FR MD/BROW LINE TO N OF SR-820/HOLLYWOOD BLVD  
**I-95 Hallandale to Hollywood PD&E**

Segment 4 - Hollywood Boulevard to Johnson Street

Legend





SR 91/I-95 FR MD/BROW LINE TO N OF SR-820/HOLLYWOOD BLVD

# I-95 Hallandale to Hollywood PD&E

Segment 3 - Pembroke Road to Hollywood Boulevard

Legend

**Begin Proposed Improvements (West)**

**End Proposed Improvements (East)**

**Orangebrook Golf Course**

**Begin Proposed Improvements (West)**

**End Proposed Improvements (East)**

N 24th Ave

N 31st Ave





SR 91/95 FR MD/BROW LINE TO N OF SR-820/HOLLYWOOD BLVD // 436903-1-22-02  
**I-95 Hallandale to Hollywood PD&E**

Segment 2 - Hallandale Beach Boulevard to Pembroke Road

Legend

**Begin Proposed Improvements (West)**

**End Proposed Improvements (East)**

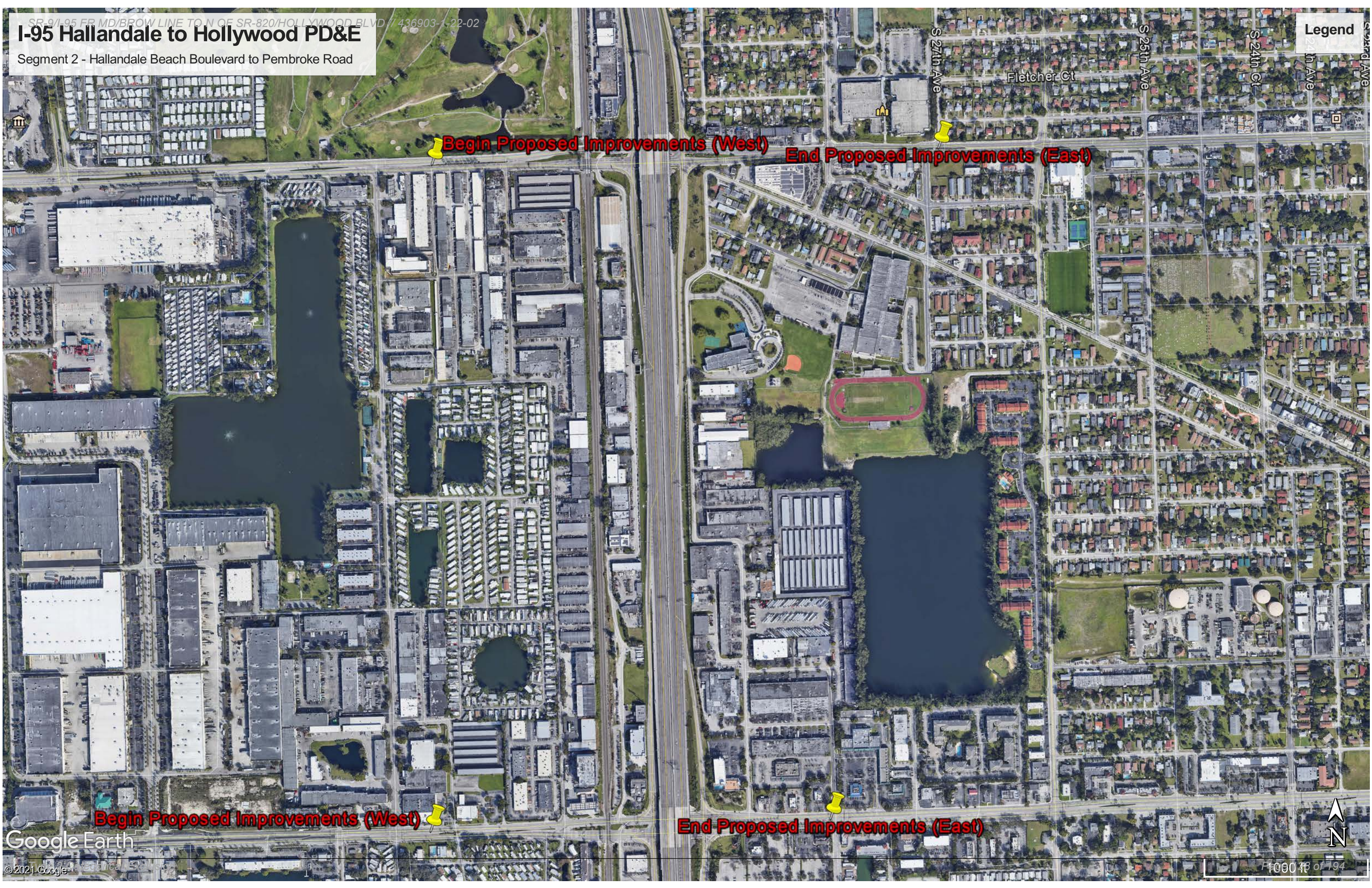
**Begin Proposed Improvements (West)**

**End Proposed Improvements (East)**

Google Earth

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1000 of 194





SR 91-95 FR MD/BROW LINE TO N OF SR-820/HOLLYWOOD BLVD // 436905

# I-95 Hallandale to Hollywood PD&E

Segment 1 - Miami-Dade/Broward Line to Hallandale Beach Boulevard

Legend

**Begin Proposed Improvements (West)**

**End Proposed Improvements (East)**

**Begin Project-Miami-Dade/Broward Line (South)**

Google Earth

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**ATTACHMENT C:**  
**Typical Photos of Landscape Palms/Trees**

DRAFT



Photo 1: Typical royal palms (25 ft. +) adjacent to I-95 off-ramp.

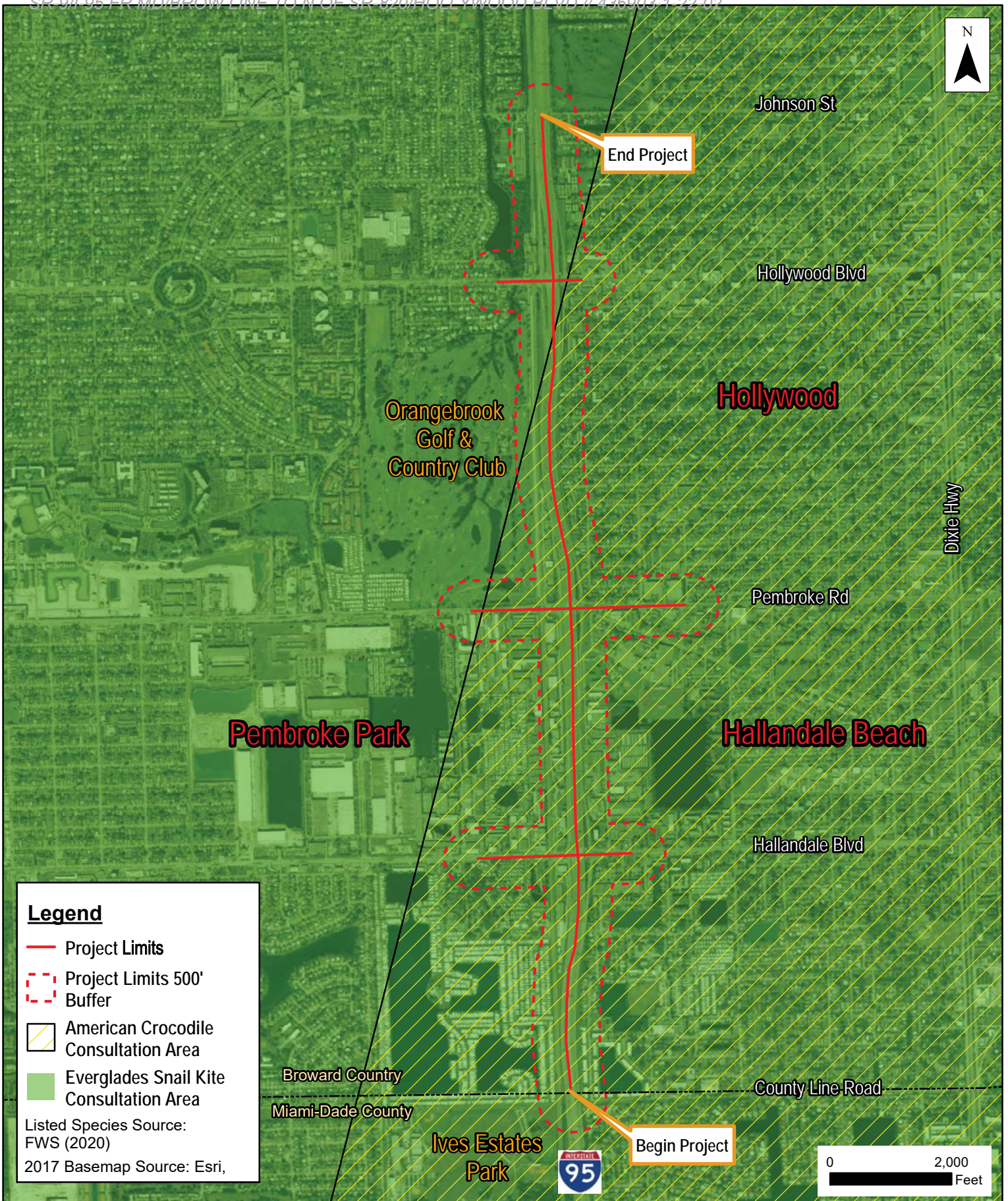


Photo 2: Typical tall trees (Black olives, royal palms) adjacent to I-95 on-ramp.



Photo 3: Cypress trees (25 ft. +) adjacent to I-95.



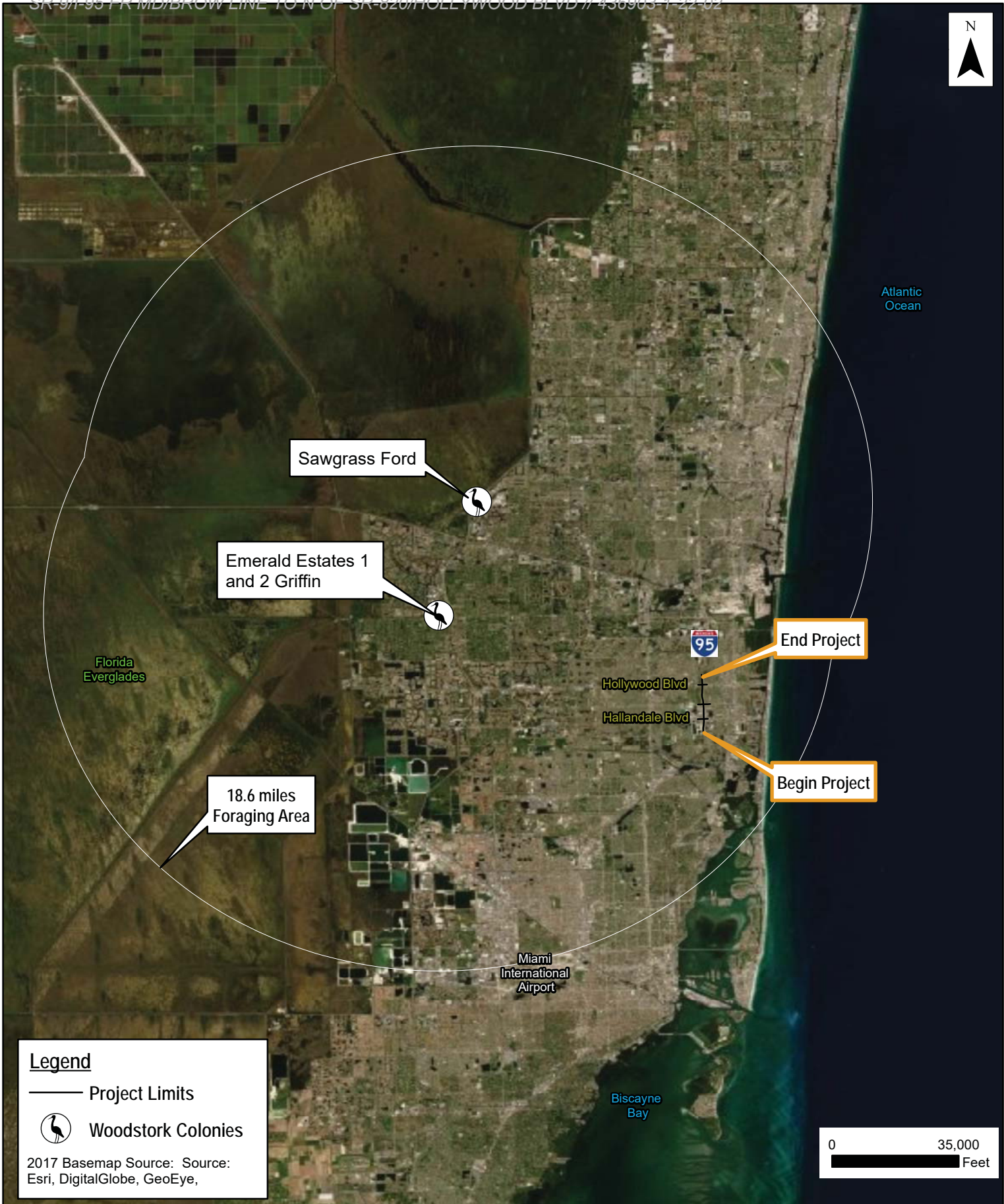


SR9/I-95 from South of SR858/Hallandale Beach Blvd.  
to North of SR820/Hollywood Blvd. PD&E Study  
Broward County



Other Listed Species  
Consultation Areas Map

Figure 5.1





**Legend**

-  Project Limits
-  Woodstork Colonies

2017 Basemap Source: Source: Esri, DigitalGlobe, GeoEye,



SR9/I-95 from South of SR858/Hallandale Beach Blvd. to North of SR820/Hollywood Blvd. PD&E Study Broward County

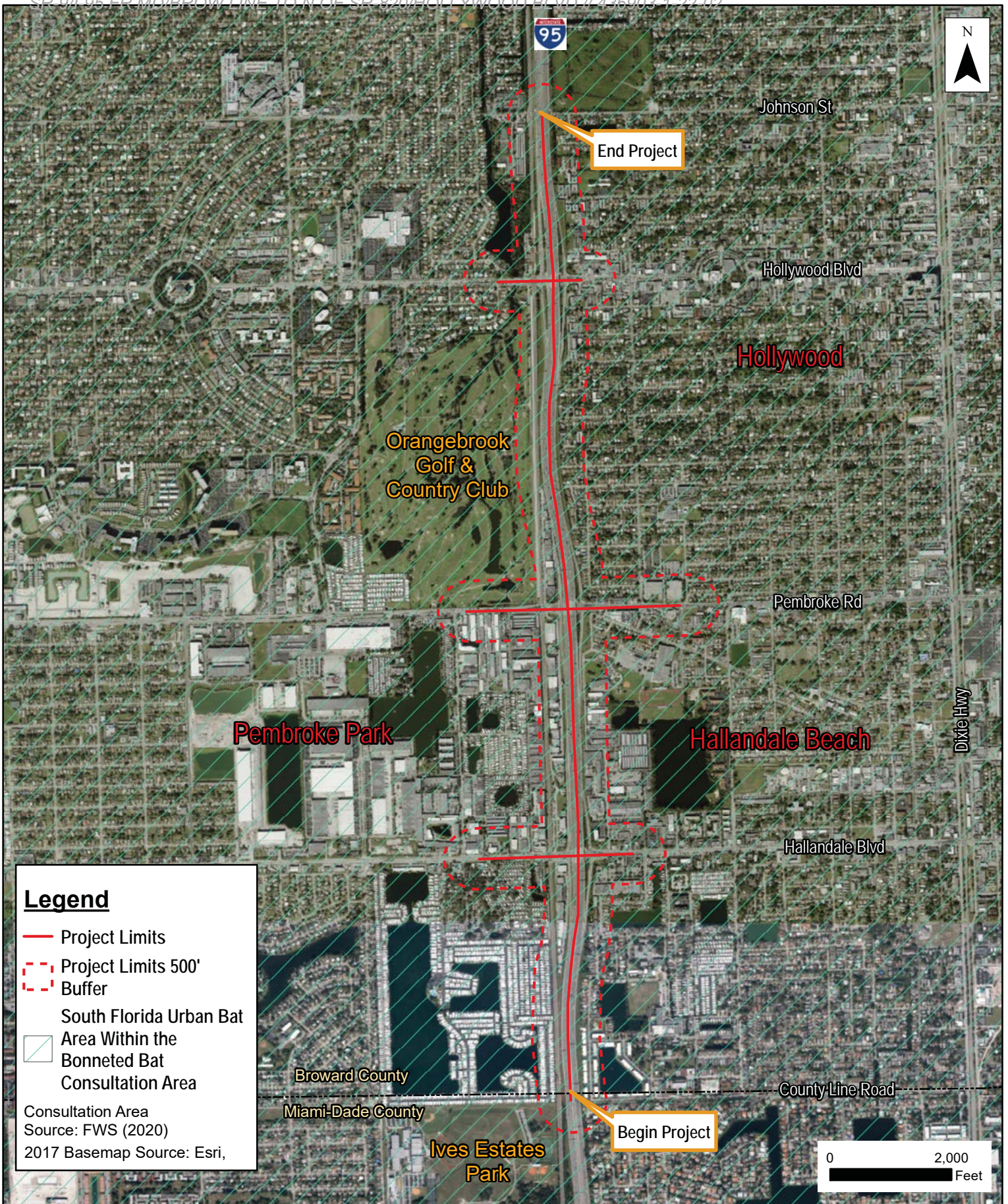
Wood Stork Core Foraging Area Map

Figure 5.2

Source: FWS (2019)

Date Prepared: 05/20/2021






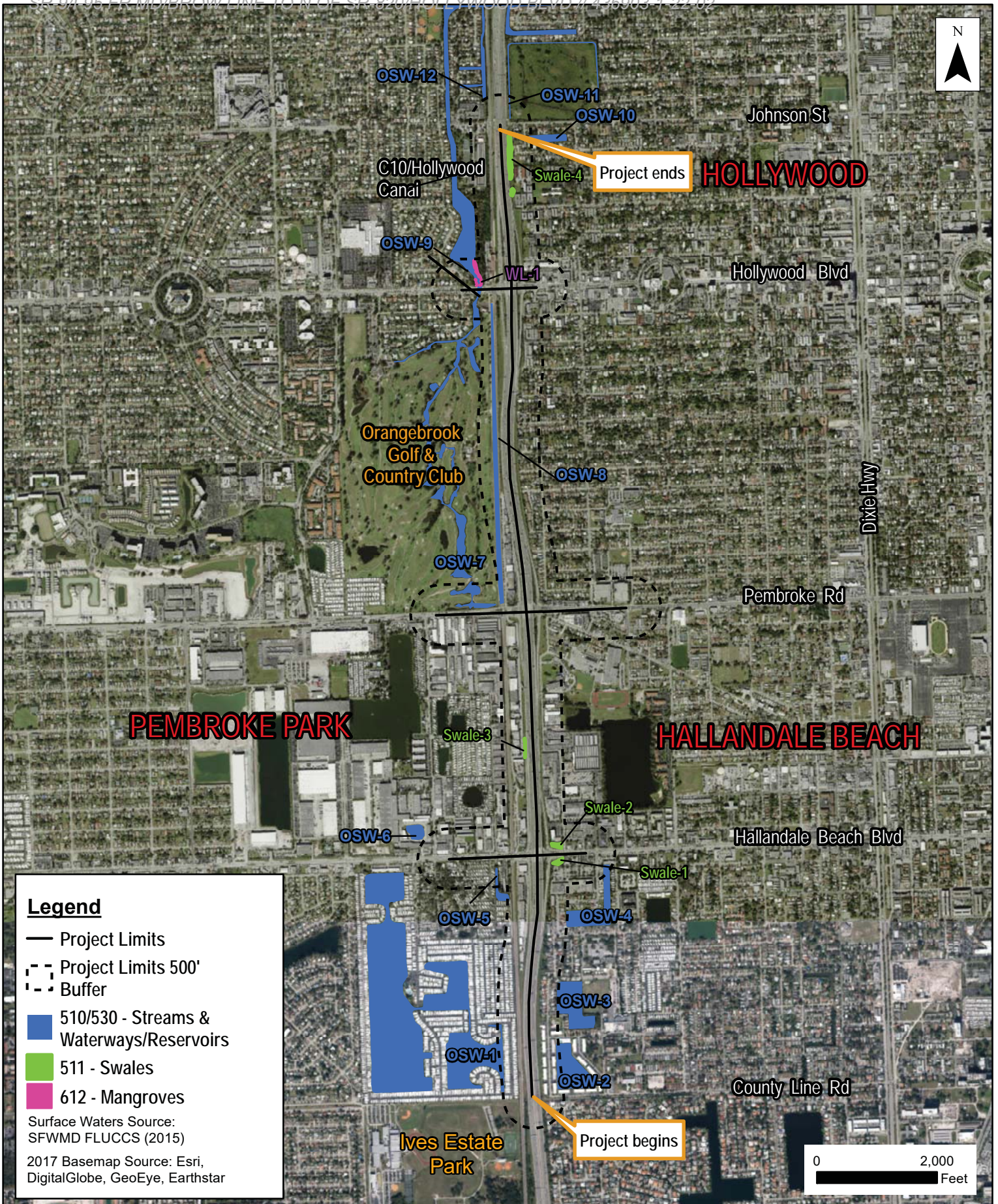
**Legend**

- Project Limits
- - - Project Limits 500' Buffer
- ▨ South Florida Urban Bat Area Within the Bonneted Bat Consultation Area

Consultation Area Source: FWS (2020)  
2017 Basemap Source: Esri,

	SR9/I-95 from South of SR858/Hallandale Beach Blvd. to North of SR820/Hollywood Blvd. PD&E Study Broward County	South Florida Urban Bat Area and Bonneted Bat Consultation Area	Figure 5.3 <small>Date Prepared: 05/20/2021</small>
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**Legend**

- Project Limits
- - - Project Limits 500'
- - - Buffer
- 510/530 - Streams & Waterways/Reservoirs
- 511 - Swales
- 612 - Mangroves

Surface Waters Source:  
SFWMD FLUCCS (2015)

2017 Basemap Source: Esri,  
DigitalGlobe, GeoEye, Earthstar





*Florida Department of Transportation*

RON DESANTIS  
GOVERNOR

3400 West Commercial Boulevard  
Fort Lauderdale, FL 33309

KEVIN J. THIBAUT, P.E.  
SECRETARY

June 24, 2021

**Via Electronic Mail**

Mr. Larry Cole  
U.S. Environmental Protection Agency, Region 4 Water  
Protection Division  
Ground Water & UIC Section Sam  
Nunn Atlanta Federal Center 61  
Forsyth Street  
Atlanta, GA 30303-8960

[Cole.Larry@epa.gov](mailto:Cole.Larry@epa.gov)

SUBJECT: Request for Sole Source Aquifer Review/Concurrence  
Interstate 95 (I-95) / State Road 9 (SR 9)  
Project Development & Environment (PD&E) Study Financial  
Management Number: 436903-1-22-02  
Federal Aid Project Number: TBD  
ETDM Number: 14254  
County: Broward

Dear Mr. Cole:

On behalf of the Florida Department of Transportation (FDOT), District 4, a Sole Source Aquifer Review/Concurrence Letter is respectfully requested for a Project Development and Environment (PD&E) Study along Interstate 95 (I-95) / State Road 9 (SR 9) from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820). This study is contained within the municipalities of Hallandale Beach, Pembroke Park and Hollywood, Broward County, Florida (see **Figure 1**). The purpose of this project is to increase interchange capacity and adjacent arterial intersections' capacity along Hallandale Beach Boulevard, Pembroke Road and Hollywood Boulevard. Other considerations for the purpose and need of this project include safety, system linkage, modal interrelationships, transportation demand, social demands, economic development, and emergency evacuation. Best Management Practices (BMPs) pertaining to construction will be followed to prevent adverse impacts to the underlying sole source aquifer (the Biscayne Sole Source Aquifer). The project's surface water management system will be designed to meet South Florida Water Management District (SFWMD) water quality and quantity criteria as an Environmental Resource Permit (ERP) will be obtained from SFWMD for this surface water management system. The project will also comply with the Florida Department of Environmental Protection's NPDES criteria for construction projects. A Stormwater Pollution Prevention Plan (SWPPP) will be prepared for implementation during construction.



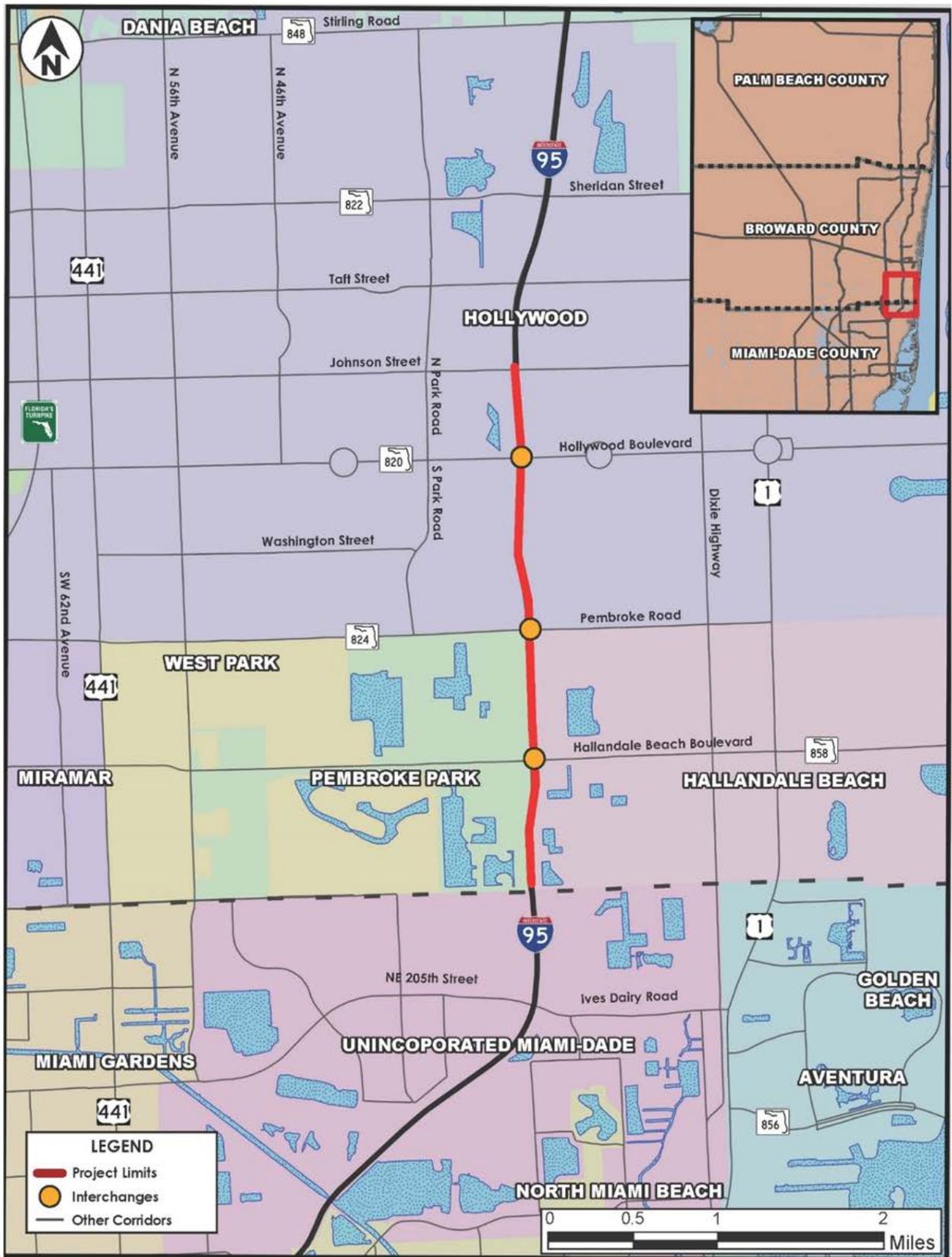


Figure 1 – Project Location Map

The Efficient Transportation Decision Making (ETDM) Programming Screening Summary Report was published on March 20, 2016 (ETDM#14254). For the Water Quality and Quantity category, the EPA's degree of effect was determined to be Moderate (reviewed by EPA on December 24, 2015 by Ms. Kim Gates). The EPA reviewer's comments included the following:

*As discussed in FDOT's PD&E Manual (Part 2, Chapter 20), "The environmental impact of highway storm water runoff on surface and ground water has been an issue of national concern for many years. Numerous studies and research conducted by the Federal Highway Administration (FHWA), EPA, Department of Environment Protection (DEP), the Department, and the Water Management District (WMDs) have determined that untreated storm water runoff from highways is a major contributor of pollution to storm water and can adversely affect a receiving water body." Proper stormwater conveyance, containment, and treatment is required by state and federal regulations.*

*Increased traffic volumes as a result of the project could have direct and indirect impacts on surface water quality. Stormwater runoff from urban sources, including roadways, conveys pollutants, such as volatile organics, petroleum hydrocarbons, heavy metals, and pesticides/herbicides, to surface water bodies and groundwater.*

*According to the Preliminary Environmental Discussion Comments Report (PED), "stormwater drainage and treatment is provided primarily by a series of dry swales" and "[s]ome of the stormwater swales located within and adjacent to the right-of-way may support hydrophytic vegetation, but are components of the highway drainage system and are constructed man-made features." Based on this limited information and the statement in the PED that "[t]he project will be designed to meet state water quality and quantity requirements," the USEPA was not able to determine the extent or adequacy of the existing stormwater management system, or if it will be modified to accommodate the project. Appropriate stormwater treatment systems and best management practices must be employed to prevent nonpoint source pollution to surface waters and potential impacts to groundwater.*

*The USEPA supports conducting a Water Quality Impact Evaluation and recommends coordinating the assessment with Broward County and the South Florida Water Management District.*

For the ETDM Water Quality and Quantity category, the Federal Highway Administration (FHWA) assigned a degree of effect of Minimal (reviewed by FHWA on December 21, 2015 by Mr. Luis D Lopez). The FHWA commented "Additional impervious area have an effect on the quality and quantity of the stormwater."

The SFWMD assigned the project a degree of effect of Minimal for Water Quality and Quantity (reviewed by Mindy Parrot on December 14, 2015). The SFWMD commented:

*An Environmental Resource Permit modification is required. Permit 88-00053-S appears to include the project area.*

*SFWMD concurs with the assignment of a minimal degree of effect, provided that the project is designed to meet the stormwater quality and quantity criteria of the ERP*



*Applicant's Handbook Vols. I & II. Impacts to floodplain storage need to be compensated per ERP Applicant's Handbook Volume II.*

## **Alternatives Analysis**

The I-95 PD&E Study hosted a Public Kickoff Meeting along with an Alternatives Public Workshop. The first Alternatives Public Workshop (held on June 7, 2018) offered the No-Build, Alternative, Alternative 1 and Alternative 2. A brief description of the proposed alternatives are provided below:

**No Build Alternative** - The No-Build Alternative includes the existing transportation network and any funded, planned or programmed improvements open to traffic by the design year. The No-Build Alternative includes only those improvements that are elements of the MPO's Transportation Improvement Program, the 2045 Cost Feasible LRTP, the FDOT's Adopted Five Year Work Program, any local government comprehensive plans and/or any development mitigation improvement projects that are elements of approved development orders.

**Alternative 1** – This alternative proposes braided ramps between interchanges to improve substandard weaving movements along I-95. In this alternative, the on-ramps from each interchange will remain unchanged. However, the off-ramps to Pembroke Road and Hollywood Boulevard in the northbound direction and to Pembroke Road and Hallandale Beach Boulevard in the southbound direction will be located one interchange prior to the destination interchange. For example, travelers destined northbound to Pembroke Road would use an exit ramp located just south of the Hallandale Beach Boulevard corridor right after the Hallandale Beach Boulevard off-ramp. The new exit ramp will continue separated from the I-95 mainline braiding over the Hallandale Beach Boulevard on-ramp and continuing along the right of way line until reaching the cross-street ramp terminal. This new exit ramp bypasses and avoids conflicts with the Hallandale Beach Boulevard on-ramp. The same design continues northbound to Hollywood Boulevard and southbound to Pembroke Road and Hallandale Beach Boulevard.

**Alternative 2 (Preferred Alternative)** – This alternative proposes a collector distributor roadway system within the I-95 mainline project area. The collector distributor roadway system will remove the Pembroke Road Interchange from interacting with the I-95 mainline. In the northbound direction, all exiting traffic to Pembroke Road and Hollywood Boulevard will utilize a new collector distributor off-ramp just south of Hallandale Beach Boulevard. The collector distributor roadway system will extend to just north of Hollywood Boulevard serving the exit traffic to Pembroke Road, entry traffic from Pembroke Road and entry traffic from Hollywood Boulevard. In the southbound direction, the new collector distributor roadway system will not be continuous, it will end and begin at Pembroke Road. The first section combines the off-ramps to Hollywood Boulevard and Pembroke Road and the second section moves the Pembroke Road on-ramp to enter I-95 south of the Hallandale Beach Boulevard on-ramp. At this time, the preferred alternative for the I-95 corridor segment is Alternative 2.

## **Stormwater Management**

### ***Existing Drainage System***

The existing drainage system is divided into three separate basins, typically divided by major east-west arterial crossings at Hallandale Beach Boulevard, Pembroke Road and Johnson Street. The basins have been identified in the latest I-95 improvement documents (FDOT project FPID 422796-1-52-01 and 422796-2-52-01) as System 4, 5 and 6 as described below:

- **System 4 (Basin 1):** This drainage basin encompasses I-95 from south of the Miami Dade/Broward County Line to Hallandale Beach Boulevard. Runoff from I-95 sheet flows into roadside swales located along both sides of I-95. These dry detention roadside swales provide for water quality treatment and stormwater attenuation through the use of ditch block weirs. Basin 1 has a swale bottom elevation of 2.5 feet North American Vertical Datum of 1988 (NAVD 88) and a discharge elevation of 3.5 feet NAVD 88. The excess stormwater runoff overflows these weirs and discharges south into infield ponds at the I-95 and Ives Dairy Road interchange, which ultimately discharges to the C-9/Snake Creek Canal. This basin is located within the South Florida Water Management District (SFWMD) C-9 East Basin. CSX needs to be coordinated during final design stage.
- **System 5 (Basin 2):** This drainage basin encompasses I-95 from Hallandale Beach Boulevard to Pembroke Road. Runoff from I-95 sheet flows into roadside dry detention swales located along both sides of I-95 and a dry pond located at the corner of Hallandale Beach Boulevard and I-95 northbound on-ramp. These dry detention roadside swales provide water quality treatment and stormwater attenuation through the use of ditch block weirs. This system consists of swales with a bottom elevation of 1.5 feet NAVD 88 and discharge elevation of 4.0 feet NAVD 88. According to existing permit information this basin discharges into an FDOT borrow pit called Chaves Lake, which is located at the northeast quadrant of I-95 and Hallandale Beach Boulevard. However, no drainage connection was observed during our field investigation. Excess stormwater runoff from Chaves Lake overflows to the C-10 Canal through a pump station located within the west side of the I-95 right of way between Hallandale Beach Boulevard and Pembroke Road. This basin is located within the SFWMD's C-10 Basin.
- **System 6 (Basin 3 & 4):** This drainage basin encompasses I-95 from Pembroke Road to Johnson Street. Runoff from I-95 sheet flows into the roadside dry detention swales located along both sides of the I-95 and Hollywood Boulevard interchange infield areas. This system has a swale bottom elevation of 1.5 feet NAVD 88 and discharge elevation of 2.5 feet NAVD 88. These roadside swales and interchange infield areas provide water quality treatment and stormwater attenuation through the use of ditch block weirs. Excess stormwater runoff overflows these weirs and discharges into the C-10 Canal just north of Johnson Street. This basin is located within the SFWMD's C-10 Basin.

Side Street/Arterial Street Drainage: There are three arterial streets within the project limits of the I-95 corridor; Hallandale Beach Boulevard, Pembroke Road and Hollywood Boulevard. Each of those side streets, beyond the interchanges, has its own drainage system. Since the improvements are mostly at the interchanges, the impact to the existing drainage systems of the side streets beyond interchanges are considered minor.

Offsite System: An offsite storm-sewer system exists along the I-95 corridor within the project limits. The system is designed to alleviate the adverse flooding conditions for the City of Hallandale Beach and the Town of Pembroke Park as described in the SFWMD permit No. 06-02942-P, application 010601-42, dated October 2001. The permitted system includes the Chaves Lake, located within the City of Hallandale Beach, connected to the adjacent Hallandale Beach High School Lake via an open channel. The school lake is connected through an 84" pipe to a main pump station on the west side of I-95 just south of the CSX Railroad. From the pump station a 64" stormwater force main is installed along the west side of I-95 to discharge into the modified CSX western channel. A 42" force main from another pump station located on Behan Lake, within the Town of Pembroke Park, is connected to a 64" force main outfall of the I-95 Pump Station. At the end of the conveyance channel, along the CSX Railroad, a ditch bottom inlet



with a 72" diameter pipe is located to discharge the flow to the C-10 canal. This system is not expected to be impacted by the proposed I-95 improvements.

### ***Proposed Drainage System***

The proposed drainage system is primarily divided into four separate basins following existing drainage basins as identified in the latest I-95 improvement documents (FDOT project FPID 422796-1-52-01 and 422796-2-52-01) as System 4, 5 and 6. However, with the improvement at the interchanges of I-95 and addition of new ramps, the proposed drainage systems will be altered significantly. Each of the proposed basins is subdivided into sub-basins and storage has been calculated accordingly. Proposed drainage systems are based on the preferred stormwater management sites after considering three alternatives and evaluating them with a matrix on the PD&E Study Pond Siting Report.

Due to limited availability of open space within right of way, providing required storage pond/swale is not enough capacity. Therefore, exfiltration trenches are used to provide the required deficit storage. Preliminary exfiltration trench length was estimated using hydraulic conductivity ("K" value) from adjacent permitted project.  $K = 2.95 \times 10^{-4}$  cfs/ft<sup>2</sup>-ft from South County Neighborhood Improvements. Permit Number 06-01979-S is used for estimation of French drain length. For more accurate French drainage length calculations during final design, "K" value at French drain location is required.

The proposed drainage systems are described below:

- **Basin 1:** This drainage basin encompasses I-95 between station limits 206+50 and 247+38 between the limits of the Miami Dade/Broward County Line and Hallandale Beach Boulevard. The basin is subdivided into 1-L and 1-R. Runoff from I-95 sheet flows into roadside swales and French drains located along both sides of I-95. These roadside swales will provide water quality treatment and stormwater attenuation using ditch block weirs. Basin 1L and 1R are comprised of swales S-L1, S-R1, S-R2, S-R3 and S-R4. Dry detention pond S-L2 is in a new parcel. This system consists of dry swales with a bottom elevation of 2.0 feet NAVD 88. Weir control elevation is raised to 4.7 feet NAVD 88 to accommodate the required treatment and attenuation volume for this basin. The excess stormwater runoff overflows these weirs and discharges into infield ponds at the I-95 and Ives Dairy Road interchange, which ultimately discharges to the C-9/Snake Creek Canal. This basin is located within the SFWMD's C-9 East Basin.
- **Basin 2:** This drainage basin encompasses I-95 between station limits 247+38 and 287+92 between Hallandale Beach Boulevard and Pembroke Road. The basin is subdivided into 2A-L, 2A-R, 2B-L and 2B-R. Runoff from this segment of I-95 sheet flows into the remaining roadside swales, ponds and French drains located along both sides of I-95 identified as S-L3, SL-4, S-R5, S-R6, S-R7 and SR-8. Among those, S-L3, SL-4, S-R7 and SR-8 are in eight (8) new parcels. These roadside swales will provide water quality treatment and stormwater attenuation using ditch block weirs. This system consists of dry swales with a bottom elevation of 1.5 feet NAVD 88 to provide partial treatment and attenuation for this basin and a weir control elevation raised to 4.0 feet NAVD 88. This basin is located within the SFWMD's C-10 Basin. The remaining required storage volume will be compensated in proposed exfiltration trench.
- **Basin 3:** This drainage basin encompasses I-95 between station limits 287+92 and 341+98, between Pembroke Road and Hollywood Boulevard. The basin is subdivided into 3A, 3B-L and 3B-R. Runoff from this segment of I-95 sheet flows into remaining roadside swales and French

drains located along both sides of I-95 identified as SR-9. Modified roadside swales provide partial water quality treatment and stormwater attenuation using ditch block weirs. This system consists of dry detention swales with a bottom elevation of 1.5 feet NAVD 88 and a weir control elevation raised to 3.5 feet NAVD 88. The rest of the storage for treatment and attenuation will be discharged to Basin 4 and routed to the proposed stormwater pond within the Sunset Golf Course on the east side of the I-95 corridor and ultimately will be discharged to the SFWMD' C-10 Canal. This basin is located within the SFWMD's C-10 Basin.

- **Basin 4:** This drainage basin encompasses I-95 between station limits 341+98 and 369+46, between Hollywood Boulevard and Johnson Street. The basin is subdivided into 4-L and 4-R. Runoff from this segment of I-95 sheet flows into the remaining roadside swales located along both sides of I-95 identified as SL6, S-L7, S-R12, S-R13, S-R14 and S-R15. Among those, swale S-R13 is in two (2) new parcels. This system consists of dry swales with a bottom elevation of 1.5 feet NAVD 88 and a weir control elevation raised to 3.5 feet NAVD 88. These modified roadside swales provide water quality treatment and stormwater attenuation using ditch block weirs. The excess stormwater runoff will be discharged to the stormwater pond within the Sunset Golf Course on the east side of the I-95 corridor and ultimately discharged into the C-10 Canal just north of Johnson Street. This basin is located within the SFWMD's C-10 Basin.

**Side Street/Arterial Street Drainage:** There are three arterial streets within the project limits of I-95 corridor; Hallandale Beach Boulevard, Pembroke Road and Hollywood Boulevard. Each of those side streets, beyond the interchanges, has its own drainage system. The exfiltration trenches will be provided as necessary to accommodate the improvements.

The Biscayne Aquifer is the primary source of potable water for Broward County and Miami-Dade County. A summary of wells within a 0.25-mile radius of the study area was provided during the desktop review. Three (3) wells were identified within the radial distance from the Active Groundwater Wells Map, managed by the United States Geological Survey (USGS) and two (2) wells were identified on the Public Water Supply (PWS) Wells GIS database, managed by the FDEP. The two PWS wells, Florida Unique Well Identification Program ID AAH0004 and AAH0005, are considered large community public supply wells with a capacity of at least 150,000 gallons per day. These wells are associated with the City of Hallandale Beach Wellfield. Well AAH0004 is located approximately 0.21 miles east of I-95 and 0.15 miles south of Pembroke Road. Well AAH0005 is located approximately 0.48 miles east of I-95 and 0.11 miles south of Pembroke Road. A small portion of the project corridor (between Pembroke Road and Hallandale Beach Boulevard) is situated within Zone 3 of the City of Hallandale Beach Wellfield. The wellfield protection zones are defined in *Chapter 27, Article XIII* of the Broward County Code. However, project impacts to the wellfield are not anticipated. The presence of these zones provides a series of safeguards to preclude potential impacts to ground water from facilities that handle, generate, and/or store hazardous waste. No septic systems and/or drain fields were identified within the project corridor.

For all build alternatives, proposed stormwater management facilities (SMF) will be constructed; first, treating stormwater as the roadway is constructed. Additionally, BMPs will be incorporated to further facilitate removal of roadway runoff pollutants prior to discharge into the receiving SMFs or receiving waterbodies. After construction is completed, the SMFs will continue to treat and attenuate stormwater discharges from the newly constructed roadway. The proposed SMFs will meet SFWMD and FDOT criteria, therefore, water quality impacts to downstream receiving waters are not anticipated.



Petroleum Products Corporation (EPA ID number FLD980798698) is an EPA National Priorities List (NPL)/Superfund Site located immediately south of Pembroke Road and 850 feet west of I-95. This facility actively processed waste oil and other petroleum-derived products from 1958 to 1971. This process generated sludge waste and spent clay, contaminated with petroleum products and metals, which were disposed in unlined pits. Volatile Organic Compounds (VOCs), Semi-VOCs, Polychlorinated biphenyls (PCBs) and metals were detected at this site, exceeding its soil and groundwater cleanup target levels (CTLs) pursuant to *Chapter 62-777* of the Florida Administrative Code (FAC). These impacts extend to the north boundary of the site, adjacent to Pembroke Road, and south to Bamboo Trailer Park (south of PPC). The EPA, Region 4, developed a proposed alternative for cleanup of this site. The EPA plans to issue a Record of Decision (ROD) for this proposed alternative during the summer of 2021 and remediation activities are expected to begin 18 – 24 months after the ROD is signed.

A Water Quality Impact Evaluation was performed for the project and the proposed stormwater facility design will meet, at a minimum, the water quantity requirements outlined in *Chapter 62-302, FAC*. Therefore, it is anticipated that no adverse effects will occur to water quality within the project area, and that water quality within the project area is anticipated to improve due to the proposed stormwater treatment measures. Water quality impacts resulting from erosion and sedimentation during construction activities will be avoided and minimized in accordance with a FDEP National Pollutant Discharge Elimination System (NPDES) Permit, including the preparation of a SWPPP; the latest edition of the FDOT Standard Specifications for Road and Bridge Construction; and through the use of BMPs including temporary erosion control features (e.g., turbidity barriers, silt fence) during construction. The FDOT will continue to coordinate water quality and quantity impacts and stormwater management with the appropriate regulatory agencies as required throughout the project's design and permitting phases, as well as during construction.

The project limits are within the boundaries of the Biscayne Sole Source Aquifer. In accordance with the Sole Source Aquifer Program, authorized by *Section 1424(e) of the Safe Drinking Water Act of 1974*, the FDOT is requesting EPA's concurrence that no adverse impacts to the Biscayne Sole Source Aquifer are anticipated as a result of the proposed project. Enclosed is the completed Water Quality Impact Evaluation Checklist (see *Attachment B*) and the EPA Sole Source Aquifer Checklist (see *Attachment C*) to assist with your review.

Please call me at 954-777-4325 if you have any questions.

Sincerely,

Ann Broadwell  
Environmental Administrator  
FDOT – District 4

cc: Kenzot Jasmin, P.E. FDOT  
Molly Winn, FDOT  
Rohan Hameed, P.E., HDR  
Ryan Solis-Rios, P.E., Corradino

## **Attachment A**

# Drainage Coordination Meeting Minutes

DRAFT





# Meeting Minutes

Project: FPID#436903-1-22-02, I-95 PD&E Study

Subject: I-95 PD&E Study from South of Hallandale Beach Blvd. to North of Hollywood Blvd.

Date: Wednesday, August 01, 2018

Location: City of Hollywood City Hall, Rm. 215

Attendees: See attached sign-in sheet

The meeting took place in the City of Hollywood City Hall at 2 PM to discuss the PD&E Study and drainage improvements for the I-95 corridor from South of Hallandale Beach Blvd. to North of Hollywood Blvd.

## Introduction to the project

After introductions, Ryan Solis-Rios began describing the scope of the project and discussed the project's schedule. He mentioned that there is a public hearing scheduled to take place sometime in 2019 to present recommended alternative to the public. The study is expected to end in 2020. Mr. Solis-Rios continued describing the purpose of the project, stating that access on the highway and congestion at the interchange needs to be improved. Currently, there are no construction funds set aside for the project yet. Mr. Solis-Rios clarified that the I-95 express lanes will not be touched for this project.

## Existing Drainage

After the description of the project's scope of work, Mohammad Pervez began to talk about the existing drainage system along I-95. Project limits and affected areas were pointed out on a printed aerial map of the area, as well as current outfalls at C-9 and C-10. Everything south of Hallandale drains to C-9 and everything north goes to C-10. Mr. Pervez stated that the I-95 currently drains off to the active swales on both sides. There is an 84'' pipe crossing under I-95 connecting Chavez Lake to the pump station within I-95 R/W. The Pump station discharges to a conveyance channel along CSX railroad which ultimately discharges to Hollywood/C-10 Canal. Mr. Pervez also stated that part of the runoff from SR 824 is currently being treated in the Orangebrook Golf Course before discharging to the Hollywood/C-10 Canal. Based on the permit history SR 824 is allowed to discharge 100 cfs to the Orangebrook Golf Course.

## Proposed Drainage

Mr. Pervez mentioned that the improvements will include widening of the roadway which will fill-up the existing roadside swales. The improvement will consider new swales and stormwater facilities (some outside of the existing right of way, near service interchanges) where possible but it will likely not be enough to meet stormwater needs for the project. He also mentioned that one viable option to manage stormwater is to treat and attenuate the I-95 runoff in the Orangebrook Golf Course. Mr. Lopez asked how the additional runoff from Hollywood Blvd. and Pembroke Rd. will be managed and how much storage is needed. Mr. Pervez suggested that one alternative under consideration by the PD&E Study Team is to expand the ponds within the golf course to retain more water and to reduce the increased



discharge. He mentioned that the project will need approximately 17 acre-ft of storage based on the preliminary calculation.

While discussing about the drainage, Mr. Lopez reported that there is a drainage problem with private properties in the area along Johnson Street. The swales are overflowing to the private properties and losing discharge. A recommendation was made by Mr. Pervez to lower the swale bottom but keep at least 1 foot above seasonal high water to improve drainage and water retention. As a follow-up response after the meeting FDOT indicated that they are aware of it and FDOT Maintenance is investigating the issue. The PD&E team inquired about the Sunset Golf Course, a private golf course, for a potential stormwater management area. Mr. Lopez responded saying that the City will not be purchasing it, claiming it is too expensive right now for the City of Hollywood. PD&E Study Team stated that since Sunset golf course is to the very north end of the project, it will not be used for analysis but can be marked as a potential pond site for future projects to the north of this project limit.

#### **Additional discussions related to the project**

Mr. Vazquez inquired about the status of the Hillcrest Golf Course. Mr. Lopez mentioned that the Hillcrest Golf Course is no longer available, but the ponds still exist. Mr. Lopez stated that the drainage right-of-way for FDOT still exist and a diversion of flow to the Hillcrest Golf Course ponds is present in order to ease the burden of additional runoff at the Orangebrook Golf Course. Since the Hillcrest Golf Course (not owned by the City) will no longer be a Golf Course and further away from the project location, it will not be a viable stormwater management option for the project. The original Hillcrest Golf Course permit does not show any outfalls.

Mr. Pervez mentioned that the team will meet with South Florida Water Management District (SFWMD) and present the stormwater management options for the project.

Mr. Solis-Rios talked more about the project, stating that the timing of construction for the potential improvements is not yet known. The study is scheduled to end in 2020. Mr. Solis-Rios also mentioned that the final design phase of this project may overlap with the PD&E Study. The design usually does not change much after the public hearing. Mr. Vazquez mentioned that the City will have a Bond Referendum in March of 2019 and improvements to Orangebrook Golf Course is in the bond program. The City noted that improvements to Orangebrook Golf Course from the Bond program could include a full renovation or partial improvements, based on the funding availability. Mr. Vazquez asked what is needed from the City for the meeting. Mr. Solis-Rios stated that meeting minutes needed to be created to show that the project team met with the City of Hollywood to discuss the options and that there is an agreement that the Orangebrook Golf Course is a viable alternative for the stormwater management for the project. It was also discussed that FDOT would revisit the stormwater management alternatives with the City and all stakeholders in the final phase of the PD&E Study and further discuss the agreement with the City for the Orangebrook Golf Course.

The meeting concluded at 3:30 P.M.

Should anyone have additional questions or additions to this record of meeting, please respond to this email sender no later than 5 business days from receipt.





## DRAINAGE COORDINATION MEETING WITH CITY OF HOLLYWOOD

**I-95 PD&E Study**  
**From South of Hallandale Beach Boulevard (SR 858)**  
**to North of Hollywood Boulevard (SR 820)**  
**Broward County, Florida**  
**FPID # 436903-1-22-02**  
**ETDM# 14254**

**Wednesday, August 1, 2018**  
**2:00 PM - 3:30 PM**

### SIGN IN SHEET

NAME	Initial	FDOT / COMPANY	TELEPHONE	EMAIL
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10) Mike Ciscar		The Corradino Group	(305) 586-7107	Mciscar@corradino.com
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13) Mohammad Pervez	MP	HDR	(954) 535-1876	Mohammad.Pervez@hdrinc.com
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18) Imtyaz Shaikh		HDR	(954) 535-1876	Imtyazahmad.Shaikh@hdrinc.com
19) <i>Amal Wainor</i>		<i>CITY OF HOLLYWOOD</i>		<i>rwainor@hollywoodfl.org</i>
20) Wilford Zephyr	W.Z.	City of Hollywood	(954) 921-3994	wzephyr@hollywoodfl.org

## **Attachment B**

# Water Quality Impact Evaluation Checklist

DRAFT



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**WATER QUALITY IMPACT EVALUATION CHECKLIST**

<b>PART 1: PROJECT INFORMATION</b>	
Project Name:	Interstate 95 (I-95) / State Road 9 (SR 9) Project Development and Environment Study
County:	Broward County
FM Number:	436903-1-22-02
Federal Aid Project No:	
Brief Project Description:	FDOT District Four is conducting a PD&E Study for I-95 from south of Hallandale Beach Boulevard to north of Hollywood Boulevard, a distance of approximately three miles. The PD&E Study will evaluate the potential modification of existing entrance and exit ramps serving the three interchanges within the project limits. Widening and turn lane modifications will be evaluated along Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard to facilitate the ramp modifications and improve the access and operation of the corridors upstream and downstream from the interchanges.

**PART 2: DETERMINATION OF WQIE SCOPE**

Does project discharge to surface or ground water?  Yes  No

Does project alter the drainage system?  Yes  No

Is the project located within a permitted MS4?  Yes  No  
 Name: Broward County MS4 (FLS000016-004 - Mayor Facility)

If the answers to the questions above are no, complete the applicable sections of Part 3 and 4, and then check Box A in Part 5.

**PART 3: PROJECT BASIN AND RECEIVING WATER CHARACTERISTICS**

**Surface Water**

Receiving water names: C-9/Snake Creek Canal and C-10 Canal

Water Management District: South Florida Water Management District

Environmental Look Around meeting date: [Click here to enter a date.](#)  
 Attach meeting minutes/notes to the checklist.

Water Control District Name(s) (list all that apply): N/A

**Groundwater**

Sole Source Aquifer (SSA)?  Yes  No

Name Biscayne Sole Source Aquifer

If yes, complete Part 5, D and complete SSA Checklist shown in Part 2, Chapter 11 of the PD&E Manual

Other Aquifer?  Yes  No  
 Name \_\_\_\_\_

Springs vents?  Yes  No  
 Name \_\_\_\_\_

Well head protection area?  Yes  No  
 Name \_\_\_\_\_

Groundwater recharge?  Yes  No  
 Name \_\_\_\_\_

Notify District Drainage Engineer if karst conditions are expected or if a higher level of treatment may be needed due to a project being located within a WBID verified as Impaired in accordance with Chapter 62-303, F.A.C.

Date of notification: [Click here to enter a date.](#)

**PART 4: WATER QUALITY CRITERIA**

List all WBIDs and all parameters for which a WBID has been verified impaired, or has a TMDL in [Table 1](#). This information should be updated during each re-evaluation as required.

Note: If BMAP or RAP has been identified in [Table 1](#), [Table 2](#) must also be completed. Attach notes or minutes from all coordination meetings identified in [Table 2](#).

EST recommendations confirmed with agencies?  Yes  No

BMAP Stakeholders contacted?  Yes  No

TMDL program contacted?  Yes  No

RAP Stakeholders contacted?  Yes  No

Regional water quality projects identified in the ELA?  Yes  No

If yes, describe:

Potential direct effects associated with project construction and/or operation identified?  Yes  No

If yes, describe:

Discuss any other relevant information related to water quality including Regulatory Agency Water Quality Requirements.

This project will implement stormwater BMPs to satisfy SFWMD regulatory criteria for treatment of pollutants related to transportation projects. Specifically, new wet retention ponds or expanded existing wet retention ponds will be constructed to provide water quality and attenuation of roadway runoff that is proposed to discharge into the C-10 Canal.

**PART 5: WQIE DOCUMENTATION**

- A. No involvement with water quality
- B. No water quality regulatory requirements apply.
- C. Water quality regulatory requirements apply to this project (provide Evaluator’s information below). Water quality and stormwater issues will be mitigated through compliance with the design requirements of authorized regulatory agencies.
- D. EPA Ground/Drinking Water Branch review required.  Yes  No  
 Concurrence received?  Yes  No  
 If Yes, Date of EPA Concurrence: [Click here to enter a date..](#)  
*Attach the concurrence letter*

**Environmental Review and Consultation**

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by FHWA and FDOT.

**Evaluator Information**

Evaluator Name (print): Rohan A. Hameed, P.E.	
Title:HDR Drainage Section Manager	
Signature: Digitally signed by Rohan Hameed Date: 2021.03.03 14:07:30-05'00'	Date:2/17/2021







## **Attachment C**

### Sole Source Aquifer Checklist

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## SOLE SOURCE AQUIFER CHECKLIST

Topic No. 650-000-001

Project Development and Environmental Manual  
Water Resources

**PROJECT NAME:** I-95 PD&E Study  
**NAME OF SOLE SOURCE AQUIFER:** Biscayne Aquifer

- 1. Location of project:** City of Hollywood, Town of Pembroke Park, City of Hallandale Beach, Broward County, Florida, in Sections 8, 9, 16, 17, 20, 21, 28 and 29 of Township 21 South and Range 42 East.
- 2. Project description.** The purpose and need for this project is to increase interchange capacity and adjacent arterial intersections capacity along Hallandale Beach Boulevard, Pembroke Road and Hollywood Boulevard. Other considerations for the purpose and need of this project include safety, system linkage, modal interrelationships, transportation demand, social demands, economic development, and emergency evacuation.
- 3. Is there any increase of impervious surface? If so, what is the area?** Yes, the increase in impervious surface area is 124.9 acres.
- 4. Describe how storm water is currently treated on the site?** Runoff from I-95 sheet flows into roadside swales and dry ponds located along both sides of I-95. These dry detention roadside swales/ponds provide for water quality treatment and stormwater attenuation through the use of ditch block weirs. Excess stormwater runoff overflows these weirs and discharges into the C-9 and C-10 Canals and other existing surface waters. Please see the coordination cover letter for additional information on the existing drainage system.
- 5. How will storm water be treated on this site during construction and after the project is complete?** During construction discharges of stormwater will be regulated by NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities, which requires preparation of a project specific Stormwater Pollution Prevention Plan (SWPPP) and Erosion Control Plans outlining Best Management Practices (BMPs).

Other regulatory agencies including SFMWD and USACE/FDEP will also review the project's Constructions Plans, Drainage Report, SWPPP and Erosion Control Plans and may require special conditions for construction through their respective permit documents. Permits from both agencies are required prior to commencement of construction activities. Dewatering activities during construction are regulated by the SFWMD – Water Use Permits Program. The project will adhere to Water Use (Dewatering) Permit Conditions as well as project specific Best Management Practices (BMPs).

After project completion stormwater treatment and attenuation will be provided within new surface water management system. Please see the coordination cover letter for additional information on the proposed drainage system.

- 6. Are there any underground storage tanks present or to be installed? Include details of such tanks.** No, underground storage tanks will not be installed.

## SOLE SOURCE AQUIFER CHECKLIST

Topic No. 650-000-001

Project Development and Environmental Manual  
Water Resources

- 7. Will there be any liquid or solid waste generated? If so, how will it be disposed of?** No.
- 8. What is the depth of excavation?** Please see the coordination cover letter for additional information on the proposed drainage system. The excavation depth will be finalized during the project's final design.
- 9. Are there any wells in the area that may provide direct routes for contaminants to access the aquifer and how close are they to the project?** A small portion of the project corridor (between Pembroke Road and Hallandale Beach Boulevard) is situated within Zone 3 of the City of Hallandale Beach Wellfield. See *Attachment C-1*. Proposed retention ponds or expansion to existing ponds do not fall within the limits of the wellfield cone of depression. Project impacts to this wellfield are not anticipated
- 10. Are there any hazardous waste sites in the project area, especially if the waste site has an underground plume with monitoring wells that may be disturbed?** Yes. Include details. See CSER and CSER Excerpts *Attachment C-2: Known and Potentially Contaminated Sites List*) for map locations and a summary of all existing USTs within the project area.
- A Contamination Screening Evaluation Report (CSER) conducted as part of the PD&E Study identified potential contaminated sites within or adjacent to the project area. Any of the identified potentially contaminated sites to be impacted by construction, will require Level 2 Contamination Testing during the final design phase to identify means and methods for handling any encountered contaminated soil or groundwater during construction.
- Additionally FDOT specifications require the contractor, thru the project engineer, engage the District Contamination Impact Coordinator (DCIC), who will engage the services of the Department's Contamination Assessment/Remediation Contractor (CAR), should any contaminated or asbestos containing materials be encountered within the construction site.
- 11. Are there any deep pilings that may provide access to the aquifer?** The proposed new bridges' piles could encroach into the Biscayne Sole Source Aquifer. Design of these structures will be finalized during the project's final design. However, bridge construction will adhere to FDOT/regulatory agency required BMPs.
- 12. Are Best Management Practices planned to address any possible risks or concerns?** Yes, Standard Stormwater Management BMPs and Erosion Control will be implemented during construction.
- 13. Is there any other information that could be helpful in determining if this project may have an effect on the aquifer?** Please refer to the drainage discussion within the coordination cover letter and the Water Quality Impact Evaluation checklist included in this correspondence as Attachment B.

## SOLE SOURCE AQUIFER CHECKLIST

Topic No. 650-000-001

Project Development and Environmental Manual

Water Resources

- 14. Does this Project include any improvements that may be beneficial to the aquifer, such as improvements to the wastewater treatment plan?** Yes, the proposed stormwater management system will meet SFWMD water quality and quantity criteria as well as be compliant with FDOT drainage criteria. Compliance of the proposed drainage system to these criteria is anticipated to improve water quality within the project area by addressing systems that are not compliant and maintaining those systems that are.

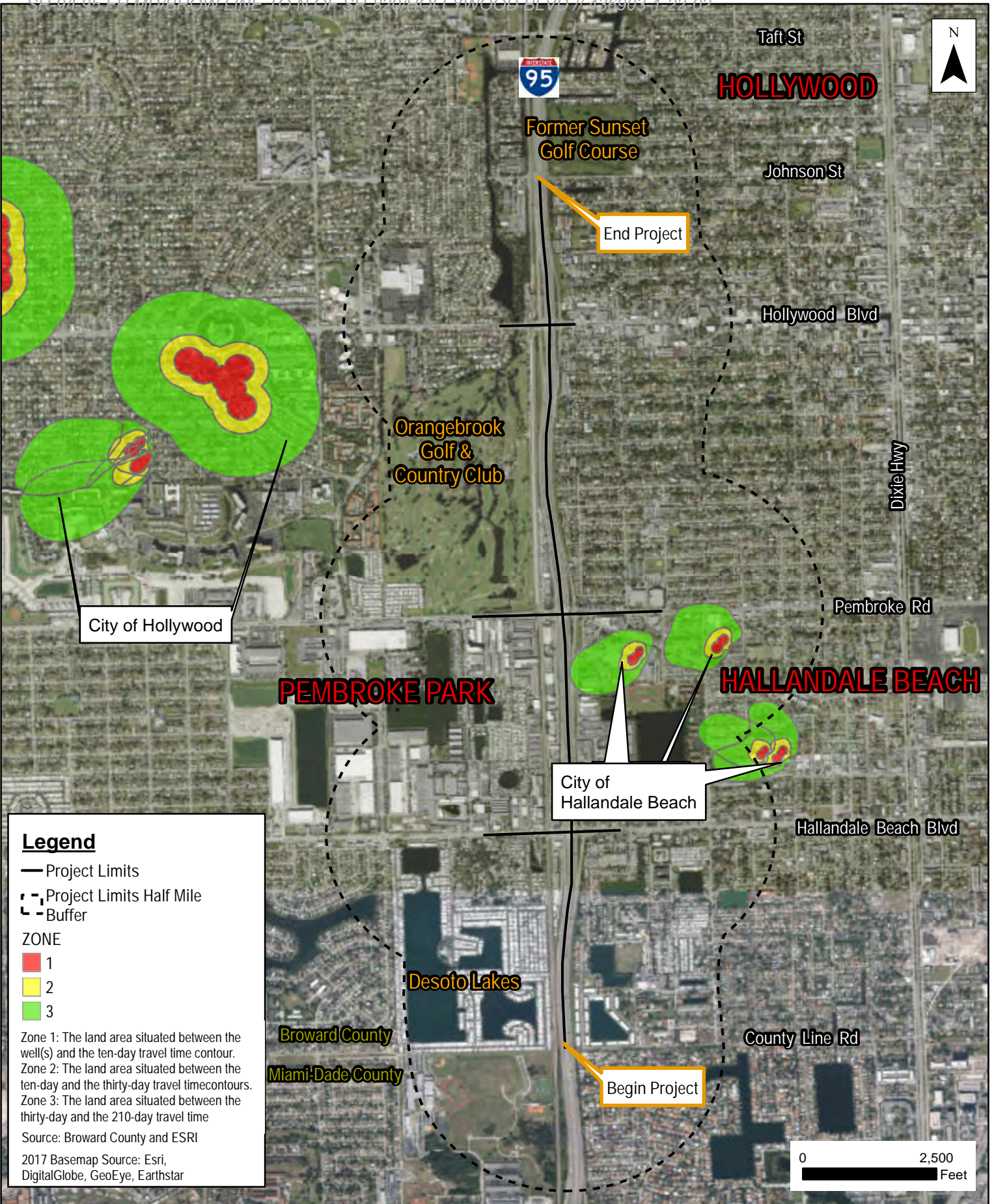
DRAFT



## **Attachment C-1**

# Wellfield Map In the Vicinity of the Project Corridor

DRAFT



**Legend**

- Project Limits
- - - Project Limits Half Mile Buffer

**ZONE**

- 1
- 2
- 3

Zone 1: The land area situated between the well(s) and the ten-day travel time contour.  
 Zone 2: The land area situated between the ten-day and the thirty-day travel time contours.  
 Zone 3: The land area situated between the thirty-day and the 210-day travel time

Source: Broward County and ESRI  
 2017 Basemap Source: Esri, DigitalGlobe, GeoEye, Earthstar

## **Attachment C-2**

### CSER Excerpts: Known and Potentially Contaminated Sites Map and List

DRAFT





**Legend**

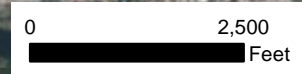
- Project Limits
- 500' Buffer from ROW
- 1000' Buffer from ROW
- Half Mile Buffer from ROW

Contaminated Site Risk

- High
- Medium
- Low
- None

- Harbour Cove Brownfield Area (ID 16)

Contaminated Site Source:  
 FDEP 2020, Broward County  
 GIS 2020, and DERM 2020.  
 2017 Basemap Source: Esri,  
 DigitalGlobe, GeoEye, Earthstar



SR-9/I-95 from S of SR-858/Hallandale Beach Blvd.  
 to N of SR-820/Hollywood Blvd. PD&E Study  
 Broward County

Contaminated  
 Site Map

Date Prepared: 05/20/2021



Table 7.1 - Known and Potentially Contaminated Sites List

Site ID	Name	Address	Current / Former Name	County Permit or ID Number	FDEP Facility ID	Type of Contamination	Storage Tanks	Distance (approximate)	Notes	Status	Risk Rating
1	City of North Miami Beach OJUS Landfill	20735 NE 16th Avenue Miami, FL 33139	Ives Estates Park (Current)	SW-1179/File-12839	57134 ERIC_15135	Methane, ammonia	None registered	200 feet west of I-95 ROW	2016 data confirms contaminants above GCTLs. The site is a park.	Ongoing biennial groundwater monitoring for ammonia and annual groundwater monitoring for methane	M
2	Penn Tank Lines Inc. Roadside Spill	Southbound I-95 0.75 miles South of Exit 18 Hallandale Beach, FL 33020	None	None Recovered	9816414	Petroleum	None registered	Southbound on I-95 (on shoulder)	Roadside spill of 2,000 gallons; Source removal of 465 tons of contaminated soil and 12,190 gallons of petroleum contact water. Assessment ongoing.	Assessment Ongoing	H
3	City of Hallandale Beach DDMS #1	Field Behind 1000 SW 3rd Street Hallandale Beach, FL 33009	Gulfstream Academy at Hallandale Beach (Current)	None Identified	99011	None Recorded	None registered	800 feet east of I-95 corridor	Field used as Disaster Debris Management Site. Facility listed on FDEP WACS as NFA. Identified as a field for Gulfstream Academy of Hallandale Beach during site reconnaissance.	NFA	L
4	Dubs and Tires	2952 SW 30th Avenue Pembroke Park, FL 33009	None Identified	No HW permit	None Recorded	None Recorded	None registered	Adjacent to I-95, 50 feet west of I-95 ROW	Auto tire and service station, providing AC, alignments, brakes, oil change, new tire and tire repair. Part of strip mall building.	Facility Active	L
5	Coin Laundry Dry Cleaners	1059 W Hallandale Boulevard Hallandale Beach, FL 33009	Laundry VIP	None Recovered	None Recovered	None Recorded	None Registered	230 feet west of I-95 project corridor 494 feet south of West Hallandale Beach Boulevard	Facility operates as a laundry with drycleaning services. Drycleaning services performed at offsite location.	Facility Active	L
6	Advanced Auto Parts #9479	3000 W Hallandale Beach Boulevard Pembroke Park, FL 33009	None Identified	HM-00485-19 00485	None Recorded	None Recorded	None	Adjacent to I-95, west of ROW	Facility maintains a HAZMAT license as a retail trade with battery exchange or hazardous waste. Hazardous waste maintained at this site includes petroleum products, batteries and fluorescent bulbs.	Facility Active	L
7	Gas Station Services Corp.	3151 W Hallandale Beach Boulevard Pembroke Park, FL 33009	Mobil (Current) Mobil Hallandale Amoco-Subco Superstop Hallandale	02181 ST-02181-20	9800048	Petroleum	3 USTs in service	Adjacent to the north side of the Hallandale Beach Boulevard corridor	No visible concern with petroleum/HAZMAT storage or spills during field survey. Minor non-compliance issues listed in 09/19 Facility Annual Compliance Inspection Report. Facility representative responded in May 2020 to provide evidence of a contractor hired to bring the facility in compliance.	Facility Active; Not in Compliance	M
8	Energy Dispatch LLC Tanker Truck Spill	East and West Sides of SW 31st Avenue & Hallandale Boulevard Pembroke Park, FL 33009	None Identified	09884	9803721	Petroleum Hydrocarbons	None Registered	Adjacent to the project corridor, north of ROW	Roadside spill of 2000 gallons East and West sides of SW 31st Street; Source removal of 465 tons of contaminated soil and 12,190 gallons of petroleum contact water. SRCO issued 11/20/2003 for 01/26/2001 discharge.	SRCO Issued	L
9	Racetrac #491	3031 W Hallandale Beach Boulevard Pembroke Park, FL 33009	Chevron	ST-02341-20 02341	9602003 9101088	Petroleum Hydrocarbons	3 USTs in service	Adjacent to the project corridor, north of ROW	SRCO issued 01/29/14 for DRF filed on 05/16/08; Facility in compliance per 11/19 Facility Annual Compliance Inspection Report	In compliance	M
10	Texaco #021-313-FISK'S	1090 W Hallandale Beach Boulevard Hallandale Beach, FL 33009	Swale #2 (Current) Mobil #03	09827 09693	8501967 8502027	Petroleum	6 USTs removed	Adjacent east of I-95 project corridor and adj north of Hallandale Beach Boulevard	Site not found in field. Currently a swale. EDI application filed for the former gasoline station 1/88. NFA issues 06/1996.	Facility Closed	N
11	FL Dept. of Transportation	Hwy 858 & I-95 Hallandale Beach, FL 33010	None Identified	None Identified	9102665	None Recorded	None Registered	Along median of Hallandale Beach Boulevard	Facility number appears to be created for reimbursement purposes.	No Action Required	N
12	Exxon	1080 W Hallandale Beach Boulevard Hallandale Beach, FL 33009	SF Service LLC, Shell, Hallandale Beach Club, Five Brothers LLC	ST-04662-20 04662	8502695	Petroleum Hydrocarbons / Historic Release (Closed)	3 USTs in service	Adjacent to project corridor, north of Hallandale Beach Boulevard	SRCO issued 08/03/06 for 12/02/2004 discharge; SRCO issued 11/18/97 for 05/03/1985	Facility Active; In compliance	M
13	HB 1000-18 LLC	1021 W Hallandale Beach Boulevard Hallandale Beach, FL 33009	Strip Mall (Current) Shell, Fina, Citgo, 7-11, Amerika - OJ Gas Corp	04094	8501728	Petroleum Hydrocarbons	6 USTs removed	Adjacent to project corridor, south of Hallandale Beach Boulevard ROW, 830 feet east of I-95	50 feet S of project corridor; 2018 groundwater sampling results above GCTLs within 50 feet of ROW and 2016 soil sample results below SCTLs	Facility Closed; Remedial Action Ongoing	H
14	Hallandale Beach U-Gas	999 W Hallandale Beach Boulevard Hallandale Beach, FL 33009	BP AMOCO	ST-04111-20 04111	8502072	Petroleum Hydrocarbons	4 USTs in service	Adjacent to project corridor, south of Hallandale Beach Boulevard ROW	60 feet S of project corridor; GW direction to the NW and 4 to 5 feet b/s; 2018 soil and 2020 groundwater sample results above CTLs	Facility Active; NAM ongoing	H
15	Hallandale Auto Care	99 SW 10th Avenue Hallandale Beach, FL 33009	None Identified	HM-02498-20 02498	None Recovered	None Recorded	None Registered	200 feet southeast of W Hallandale Beach Boulevard project corridor	Facility operates as an auto repair shop. Waste materials includes used oil, solvents, coolants, oily rags and batteries.	Facility Active; In Compliance	L

Site ID	Name	Address	Current / Former Name	County Permit or ID Number	FDEP Facility ID	Type of Contamination	Storage Tanks	Distance (approximate)	Notes	Status	Risk Rating
16	Harbour Cove Associates (Brownfield)	100 NW 9th Terrace Hallandale Beach, FL 33020	None Identified	BF060401001	ERIC_6725	Petroleum	6 USTs removed	100 feet north of the Hallandale Beach Boulevard corridor	Facility issued SRCO in 2004 with institutional and engineering controls to restrict groundwater use onsite. SRCO w/ conditions recorded under DRC. Rehabilitated and Developed as multi-family residential apartments.	Facility Closed	L
17	Ansin Boulevard Dump	310 Ansin Boulevard Hallandale Beach, FL 33009	Recycling Center of Florida	None Recovered	53352	None recovered/recorded	None registered	400 feet east of I-95	NFA status per Per FDEP SW Inventory Report. No violation history, 1988 GW sampling clean. Potential ammonia impacts in groundwater from Site 23. FDEP issued offsite notice for GW impacts from former Hallandale Switch Facility.	Facility Closed	M
18	Wedgewood Holdings, Inc.	400 Ansin Boulevard Hallandale Beach, FL 33009	None Identified		9802375	None Recorded	1 UST removed	250 feet east of I-95	TCAR submitted 02/00 for a 4,000-gallon unleaded gasoline UST. Confirmatory soil and groundwater samples were below CTLs.	Facility Closed	N
19	Messingschlager Properties	2514 SW 30th Avenue Hallandale Beach, FL 33009	Richard Danvers Auto Shop		9401806	Petroleum	1 UST removed	150 feet west of I-95	DRF file 09/94 for unleaded gasoline release. Facility received eligibility for state-funded cleanup under the ATRP. An NFA was issued 06/05. UST removed 12/94.	Facility Active; NFA	L
20	95 Warehouse LTD	2401 SW 31st Avenue Pembroke Park, FL 33009	Warehouse 1800	06862	8942651	Petroleum Hydrocarbons	2 USTs removed	350 feet east of I-95 project corridor	SRCO issued 11/10 for 10/88 discharge	Facility Active; SRCO Issued	L
21	Gallo Marble Enterprises	500 Ansin Boulevard Hallandale Beach, FL 33009	Countertops of Broward (Current)	No HW permit	8627989	Ammonia	None registered	120 feet east of I-95	DRF filed 12/91 for soil contamination discovered during tank closure. SRCO granted in 01/06 for the 12/91 discharge. However, ammonia contamination documented in GW. Site has a Deed Restrictive Covenant to fulfill NFA/C requirements. No groundwater can be used onsite.	Facility Active; In compliance	M
22	Hallandale Beach Dump	700 NW 7 Street Hallandale Beach, FL 33009	Hallandale High School (Current)		99353	Ammonia	None registered	890 feet east of I-95	Old dump listed in the BC Abandoned Dump Inventory. SW facility inventory lists facility class status as NFA. Site is closed and occupied by field behind Hallandale High School. Offsite ammonia impacts from Site 23.	Facility Closed	L
23	Imperial Marine Equipment	600 Ansin Boulevard Hallandale Beach, FL 33009	Hallandale Switch Facility	No HW permit; NF-2701 09924	9700906	Ammonia	Yes	60 feet east of ROW	Not found in field. Former Hallandale Switch facility with reported ammonia contamination in groundwater. FDEP issued notices to nearby properties for offsite contaminant migration.	Facility Closed; Contamination migrated offsite	H
24	Hallandale Beach City I-95 Pump Station	2001 SW 30th Avenue Hallandale Beach, FL 33009	None Identified		9809512	None Recorded	1 UST in service	Adjacent west of I-95	5,000 gallon diesel UST installed 07/07 to fuel generator/pump	Facility Active	L
25	BW Recycling	2035 SW 31st Avenue Pembroke Park, FL 33009	None recovered	None Recovered	None recovered	None Recorded	None registered	350 feet west of I-95 project corridor	Within 1000 feet of the FDOT distance requirement for non-landfill solid waste sites. No activity observed outside facility.	Facility Active	L
26	James Lanier Education Center / Broward County School Board- S Area Education Center	1050 NW 7th Court Hallandale Beach, FL 33009	None Identified	07879	9100221	Petroleum	1 UST removed	Adjacent east of I-95	DRF filed 05/07 during tank closure of 2,500 gallon heating oil UST. NFA issued 07/08.	Facility Active; NFA	L
27	Orkin Extermination Co	1820 SW 30th Avenue Hallandale Beach, FL 33009	None Identified	HM-01149-19 01149	8502427	None Recorded	2 USTs removed	Adjacent west of I-95	Pest Control Facility maintains HM license for pesticides and fluorescent bulbs. Two 4,000 gallon unleaded gasoline USTs removed in 04/87. Facility on septic.	Facility Active	L
28	Flowers Baking Company	3262 Pembroke Road Pembroke Park, FL 33009	Community Center	None Recovered	8622371	Petroleum	1 UST removed	On the south side of the Pembroke Road	Identified as a community center in field survey; 2015 groundwater sampling results exceed GCTLs within 150 feet and some soil contamination near 150 feet. Design of RAP modification due to rebound concentrations above GCTLs; PARM following operation of remediation system.	Facility Closed; Remediation Pending	H



Table 7.1 - Known and Potentially Contaminated Sites List

Site ID	Name	Address	Current / Former Name	County Permit or ID Number	FDEP Facility ID	Type of Contamination	Storage Tanks	Distance (approximate)	Notes	Status	Risk Rating
29	Giant #177	3250 Pembroke Road Pembroke Park, FL 33009	Mobil (Current) Pembroke Shell	03546 ST-03546-20	9803165	Petroleum	3 USTs in service	On the south side of Pembroke Road	Clean, no auto services; In Compliance	Facility Active; In compliance	M
30	Broward Roofing Supply	1751 S Park Road Hallandale Beach, FL 33009	None Identified	None Recovered	8627995	None Recorded	1 UST removed	300 feet S of Pembroke Road, 1,260 feet west of I-95	2,000 leaded gasoline UST removed	Facility Active	N
31	Petroleum Products Corporation	3130 SW 19th Street Pembroke Park, FL 33009	Petroleum Park Warehouses; International Petroleum Corporation; National Oil Service of Florida	54384655 ERIC_3796 54391722 09535	8732818	Petroleum Hydrocarbons	Bulk Storage Tanks	900 feet west of I-95	Near residential community. Superfund site. Sludge and free product documented in groundwater. Proposed Remedial Action Plan preferred alternative comment period - EPA	Facility Closed; Remediation Pending; Monitoring Ongoing	H
32	A&B Recycling	1708 SW 31st Avenue Pembroke Park, FL 33009	None recovered	03206 HM-03206-20	None Registered	None Recorded	None Registered	Adjacent on the south side of Pembroke Road project corridor	Within 1000 feet of the FDOT distance requirement for non-landfill solid waste sites] Site seemed mismanaged and piles of recyclables/waste. Scrap metal yard with battery recycling.	Facility Active	M
33	Waste Connections - Pembroke Park Transfer Station	1899 SW 31st Avenue Pembroke Park, FL 33009	Choice Recycling Services of Broward; Pembroke Park Recycling and Transfer; Progressive Waste Solutions of FL, Inc.; Glori Allan Inc.	FL0000871996 00014	55464 105719	None Recorded	None registered	700 feet south of Pembroke Road project corridor	Waste processing facility receives construction and demolition debris, commercial waste, household waste, residential bulky waste, vegetative debris and yard trash.	Facility Active	L
34	All Weather Control, Inc.	1505 S 30th Avenue Hollywood, FL 33020	None Identified	None Recovered	8628456	None Recorded	1 UST removed	Adjacent west of I-95 project corridor	2,200 leaded gasoline UST removed	Facility Closed	L
35	Kosher Motors (Current)	2829 Pembroke Road Hollywood, FL 33020	Stevens Auto Service Center	15905 01535	9500022	None Recorded	4 USTs removed	Adjacent to project corridor, south of Hallandale Beach Boulevard.	Dated structure and cluttered property, limited signs of industrial activity. Operates as an auto repair facility. DRF filed for contamination detected near a former waste oil tank. Facility remediated RA activities included soil excavation and three years of NAM. SRCO issued 01/15.	Facility Active; SRCO Issued	M
36	Family Tire Distributors	2817 Pembroke Road Hollywood, FL 33020	None Recovered	15361 HM-15361-20	None Registered	None Recorded	None registered	Adjacent on the north side of the Pembroke Road project corridor	Well managed building and material storage Maintains HM License for auto repair services	Facility Active	M
37	Italian Hoagie	1051 W Pembroke Road Pembroke Park, FL 33010	Texaco Station	04369	8732177	None Recorded	2 USTs abandoned in place	Adj S of Pembroke Road	Facility historically operated as a Texaco gasoline station. Two USTs are suspected to be abandoned in place. No additional information found.	Facility Closed	M
38	Shell FCE #3828	2801 Pembroke Road Pembroke Park, FL 33020	First Coast Energy	03950 ST-03950-20	8502153	Historic Release Closed	2 USTs in service, 4 USTs removed	Adjacent on the north side of the Pembroke Road project corridor; No recorded Restrictive Covenant	Active gasoline operations. SRCO issued 03/17 for 07/98 discharge	Facility Active; In Compliance	M
39	Orion Pembroke	1011 NW 8th Avenue Hallandale Beach, FL 33009	R.U.N LLC BP Amoco #1866	06740 ST-06740-19	9807438 9807672	None Recorded	3 USTs in service	Adjacent on the south side of the Pembroke Road project corridor	Clean, no auto service; In compliance Facility is on septic	Facility Active; In Compliance	M
40	Orangebrook Country Club	4000 Entrada Street Hollywood, FL 33021	None Identified	01360 HM-01360-20	8944879	None Recorded	1 UST in service 2 USTs removed	Adjacent to project corridor	Site operated as a golf course since the 1950s. Cirently maintains one 500-gallon UST	Facility Active	L
41	I-95 Express Lanes - Toll Equipment Building #2	5008LK 195, #MM2.23 Hollywood, FL 33021	None Identified	15881	9813994	None Recorded	None Registered	Adjacent to project corridor	Facility Maintains Haz Mat License for 500-gallon diesel AST which fuels Emergency Generator	Facility Active	N
42	Mobil	2911 Hollywood Boulevard Hollywood, FL 33020	Chevron	54401456 09656	8502126	Petroleum	4 USTs removed	Adjacent on the north side of the Hollywood Boulevard project corridor	One SRCO issued 09/92 for 07/88 discharge. 02/95 DRF unresolved. FDOT owns property however, they are not responsible for the cleanup. Facility closed and fenced off.	Facility Closed	H
43	Davo Auto Center	2828 Hollywood Boulevard Hollywood, FL 33020	U-Haul (Current) Dons & Sons Equipment	54397828 0969	8502583	Petroleum Hydrocarbons	6 USTs removed	Adjacent on the south side of the Hollywood Boulevard project corridor; groundwater flow to the north; 2017 groundwater data detected contaminants above GCTLs and some soil contamination 75 feet south of ROW;	2019 GW sample results above GCTLs. RAP approved and remedial activities pending.	Facility Closed; Remediation Pending;	H



### Florida Bonneted Bat Consultation Key<sup>#</sup>

Use the following key to evaluate potential effects to the Florida bonneted bat (FBB) from the proposed project. Refer to the Glossary as needed.

- 1a. Proposed project or land use change is partially or wholly within the Consultation Area (Figure 1)..... **Go to 2**
- 1b. Proposed project or land use change is wholly outside of the Consultation Area (Figure 1)..... **No Effect**
  
- 2a. Potential FBB roosting habitat exists within the project area..... **Go to 3**
- 2b. No potential FBB roosting habitat exists within the project area..... **Go to 13**
  
- 3a. Project size/footprint\* ≤ 5 acres (2 hectares)..... **Conduct Limited Roost Survey (Appendix C) then Go to 4**
- 3b. Project size/footprint\* > 5 acres (2 hectares)..... **Conduct Full Acoustic/Roost Surveys (Appendix B) then Go to 6**
  
- 4a. Results show FBB roosting is likely ..... **Go to 5**
- 4b. Results do not show FBB roosting is likely..... **MANLAA-P if BMPs (Appendix D) used and survey reports are submitted. Programmatic concurrence.**
  
- 5a. Project will affect roosting habitat..... **LAA<sup>+</sup> Further consultation with the Service required.**
- 5b. Project will not affect roosting habitat..... **MANLAA-C with required BMPs (Appendix D). Further consultation with the Service required.**
  
- 6a. Results show some FBB activity..... **Go to 7**
- 6b. Results show no FBB activity..... **No Effect**
  
- 7a. Results show FBB roosting is likely..... **Go to 8**
- 7b. Results do not show FBB roosting is likely..... **Go to 10**
  
- 8a. Project will not affect roosting habitat..... **Go to 9**
- 8b. Project will affect roosting habitat..... **LAA<sup>+</sup> Further consultation with the Service required.**
  
- 9a. Project will affect\* > 50 acres (20 hectares) (wetlands and uplands) of foraging habitat..... **LAA<sup>+</sup> Further consultation with the Service required.**
- 9b. Project will affect\* ≤ 50 acres (20 hectares) (wetlands and uplands) of foraging habitat..... **MANLAA-C with required BMPs (Appendix D). Further consultation with the Service required.**
  
- 10a. Results show high FBB activity/use..... **Go to 11**
- 10b. Results do not show high FBB activity/use..... **Go to 12**
  
- 11a. Project will affect\* > 50 acres (20 hectares) (wetlands and uplands) of FBB habitat (roosting and/or foraging)..... **LAA<sup>+</sup> Further consultation with the Service required.**
- 11b. Project will affect\* ≤ 50 acres (20 hectares) (wetlands and uplands) of FBB habitat (roosting and/or foraging)..... **MANLAA-C with required BMPs (Appendix D). Further consultation with the Service required.**
  
- 12a. Project will affect\* > 50 acres (20 hectares) (wetlands and uplands) of FBB habitat..... **LAA<sup>+</sup> Further consultation with the Service required.**
- 12b. Project will affect\* ≤ 50 acres (20 hectares) (wetlands and uplands) of FBB habitat..... **MANLAA-P if BMPs (Appendix D) used and survey reports are submitted. Programmatic concurrence.**



- 13a. FBB foraging habitat exists within the project area and foraging habitat will be affected.....**Go to 14**
- 13b. FBB foraging habitat exists within the project area and foraging habitat will not be affected **OR** no FBB foraging habitat exists within the project area.....**No Effect**
- 14a. Project size\* > 50 acres (20 hectares) (wetlands and uplands) .....**Go to 15**
- 14b. Project size\* ≤ 50 acres (20 hectares) (wetlands and uplands) ..... **MANLAA-P if BMPs (Appendix D) used. Programmatic concurrence.**
- 15a. Project is within 8 miles (12.9 kilometers) of high quality potential roosting areas^.....**Conduct Full Acoustic Survey (Appendix B) and Go to 16**
- 15b. Project is not within 8 miles (12.9 kilometers) of high quality potential roosting area^.....**MANLAA-P if BMPs (Appendix D) used. Programmatic concurrence.**
- 16a. Results show some FBB activity.....**Go to 17**
- 16b. Results show no FBB activity.....**No Effect**
- 17a. Results show high FBB activity/use.....**LAA+ Further consultation with the Service required.**
- 17b. Results do not show high FBB activity/use..... **MANLAA-P if BMPs (Appendix D) used and survey reports submitted. Programmatic concurrence.**

# If you are within the urban environment and you are renovating an existing artificial structure (with or without additional ground disturbing activities), these Guidelines do not apply. The Service is developing separate guidelines for consultation in these situations. Until the urban guidelines are complete, please contact the Service for additional guidance

\*Includes wetlands and uplands that are going to be altered along with a 250- foot (76.2- meter) buffer around these areas if the parcel is larger than the altered area.

+Project modifications could change the LAA determinations in numbers 5, 8, 9, 11, 12, and 17 to MANLAA determinations.

^Determining if **high quality potential roosting areas** are within 8 mi (12.9 km) of a project is intended to be a desk-top exercise looking at most recent aerial imagery, not a field exercise.

Excerpt from the USFWS FBB Key, dated October 22, 2019.



07/02/2021



## Florida Bonneted Bat Coordination Meeting Minutes

I-95 Project Development and Environment Study  
 From: South of Hallandale Beach Boulevard  
 To: North of Hollywood Boulevard  
 FM: 436903-1-22-02  
 Broward County

On July 14, 2021 a coordination video conference was held between representatives of the US Fish and Wildlife Service (USFWS), Florida Department of Transportation (FDOT) and Cyriacks Environmental Consulting Services, Inc (CECOS) for the above referenced project. This Project Development and Environment (PD&E) Study is approximately three miles long and its purpose is to evaluate alternatives for the ultimate improvements to the I-95 Interchanges at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard. The following people attended:

Name	Affiliation	E-Mail	Phone
John Wrublik	USFWS	john_wrublik@fws.gov	772-469-4282
Sandra Sneckenberger	USFWS	sandra_sneckenberger@fws.gov	772-469-4282
Ann Broadwell	FDOT	Ann.Broadwell@dot.state.fl.us	954-777-4325
Molly Winn	FDOT	Molly.Winn@dot.state.fl.us	954-777-4245
Fernando Ascanio	FDOT	Fernando.Ascanio@dot.state.fl.us	954-777-4247
Mark Clark	CECOS	mc@cecosenvironmental.com	954-571-0290

Mark started the meeting by providing a brief overview of the project as described above. In particular, this section of Broward County contains established landscaping along the I-95 mainline as well as the three cross streets (Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard). There are no natural areas within the project limits so existing vegetation is landscape material. Two open areas exist, the Orangebrook Golf Course and the City of Hollywood's vacant parcel (previously the privately-owned Sunset Golf Course). Orangebrook Golf Course will not be impacted by the project and the City's vacant parcel may support a future pond (location to be determined). There are tall trees and palms scattered throughout the corridor; some of which will be impacted by the project. The bullet list below represents a summary of the discussion items.

- Mark stated construction is not scheduled for a minimum of five years. Therefore survey results obtained at this time would be obsolete prior to construction. Therefore, the FDOT committed to perform an acoustic survey during design and requested USFWS concurrence on a *May Affect, Not Likely to Adversely Affect (MANLAA)* determination based on that commitment as well as a commitment to avoid impacts to qualifying landscape trees/palms to the greatest extent practical.
- John stated the USFWS cannot issue a concurrence based on only the above commitments.
- Sandra stated the results of a FBB roost and/or acoustic survey are valid for one year and she confirmed FBBs were documented within six miles of the project.
- Mark stated the FBB key was used to initially screen the project. However, one could not progress in the key beyond the third couplet; which requires a full acoustic/roost survey for projects greater than five acres (which applies to this project). However, if survey results are valid for only one year, then the results of the PD&E survey would be obsolete further into design.
- John and Sandra concurred that concurrence on a *No Effect* determination is not appropriate because the potentially impacted trees will not likely be removed within one year after completion of the roost survey.
- Sandra confirmed that this project can work outside the FBB key because it is located within the South Florida Urban Bat Area.



- Mark confirmed that, at this time, existing bridges will either be widened and/or left in-place, and new bridges added. No existing bridges will be removed. During a review of those bridges, no evidence of bat use (chirping, guano, stained concrete, and odor) were observed/smelled.
- Sandra mentioned that the FBB requires a minimum of 12 feet in height to drop and begin flight.
- The meeting attendees concurred on the dimensions of trees/palms that qualify as potential roosting habitat. Specifically, trees a minimum of 15 feet in height and a minimum of eight inches or greater Diameter Breast Height (DBH) qualify as potential roosting habitat. Note that the 15 foot minimum tree height must be roostable (i.e., display sufficient trunk width to support a bat cavity). Similarly, qualifying palm trees must exhibit a minimum height of 20 foot clear trunk; with that trunk wide enough to support a FBB cavity.
- Ann stated FDOT commits to conduct a roost survey during the current PD&E Study and to report the results of that survey in the Study's Natural Resource Evaluation Report (NRE). The FDOT will then perform a follow-up acoustic/roost survey during design (choice of survey dependent upon the results of the PD&E survey).
- Ann re-stated the purpose of the video conference was to develop a plan to continue with FDOT's PD&E process while concurrently working with USFWS on its concurrence with FDOT's determination of effect; which was proposed to be *MANLAA*. A *MANLAA* determination was selected as the proposed effect because FBB were documented within six miles of the project corridor and the tree/palms will not likely be removed before the PD&E survey results expire
- John and Sandra concurred if the results of the PD&E tree/palm survey indicate that no roosts were found, the USFWS could concur with a *MANLAA with Best Management Practices (BMPs)* determination of effect for this PD&E Study/NRE. The BMP proposed is to perform an acoustic and/or roosting survey during design and/or prior to construction beginning.

#### Action Items:

- FDOT to perform a tree/palm roosting survey of those qualifying trees/palms per the criteria specified in the meeting summary.
- FDOT will include the tree/palm survey results in the NRE as well as a Determination of Effect. Should no bat roosts be observed, the determination of effect proposed is *MANLAA with BMPs*. The NRE will then be submitted to USFWS for review/concurrence.

#### Action Items (pursuant to post-meeting coordination with USFWS):

- Review Appendix C of the FBB Consultation Guidelines (Limited Roost Surveys) and Appendix D (BMPs) then discuss appropriate roost survey work following completion of the tree inventory. Coordination is required as modifications to the methodologies may be needed due to this project's size.
- Continue coordination with USFWS regarding BMPs to ensure all stakeholders' understandings are the same.
- Concurrence for a *MANLAA* determination may require additional BMPs as more project information becomes available.

*This document is the writer's understanding of the topics and items discussed during the meeting. Any revisions to the items discussed should be sent to Mark Clark. If no revisions or comments are received by July 28, 2021, the meeting summary will be considered final and accepted as distributed.*

Prepared By: Mark Clark  
 Date Prepared: 07/14/2021

CC: Attendees (via email)  
 Kenzot Jasmin, FDOT  
 Ryan Solis-Rios, Corradino  
 Wendy Cyriacks, CECOS



## **Physical Resources Appendix**

### **Contents:**

Summary of Conflicts with Existing Utilities - Excerpt from PER

Noise Map

Other Supporting Documentation regarding Highway Traffic Noise - Noise Analysis Map

Other Supporting Documentation regarding Highway Traffic Noise - Barrier recommendations

Other Supporting Documentation regarding Highway Traffic Noise - Noise Barrier\_Evaluation\_Table

Potential Contamination Site Map - Overall

Other Supporting Documentation regarding Contamination-North

Other Supporting Documentation regarding Contamination - Central

Other Supporting Documentation regarding Contamination - South

DRAFT

### **American Traffic Solutions**

The location of the facilities was not provided by American Traffic Solution at this phase. Potential impacts (if any) are to be coordinated with American Traffic Solutions in future phases of the project.

### **AT&T Corporation (International)**

Potential impacts to buried fiber optic were identified at the north side of Hallandale Beach Boulevard between South Park Road and NW 10<sup>th</sup> Terrace.

### **AT&T Distribution**

Potential impacts to aerial and buried fiber optic were identified at the following locations:

- South side of Hallandale Beach Boulevard between South Park Road and Ansin Boulevard: ducts with copper, PVC, and flexible pipelines underground.
- North side of Hallandale Beach Boulevard between South Park Road and SW 31<sup>st</sup>. Avenue: overhead lines.
- North side of Pembroke Road between the I-95 southbound off-ramp and NW 10<sup>th</sup> Avenue: ducts with coper and flexible pipe underground and overhead lines.
- South side of Pembroke Road underneath I-95: underground.
- South side of Pembroke Road between South Park Road and SW 31<sup>st</sup> Avenue: underground.

### **Broward County Traffic Engineering**

Potential impacts to buried fiber optic were identified at the following location:

- Buried Underground Fiber – from Hallandale Beach Boulevard to Johnson Street running along the east side of I-95.

### **Broward County Water and Wastewater Services**

Potential impacts were identified at the following locations:

- Along Hallandale Beach Boulevard, 6" CIP water main, 8" water main and 18" water main casing within CSX railroad right of way running on the north

side of the road, 8" CAP water main on the south side of the road west of I-95.

- Along Pembroke Road, 12" water main, valves, and manholes from South Park Road to west of I-95.

### **Century Link**

Potential impacts were identified at the following locations:

- North side of Hallandale Beach Boulevard from South Park Road to NW 10<sup>th</sup> Terrace: fiber optic underground.
- North side of Pembroke Road from South Park Road to east of I-95: fiber optic underground.

### **City of Hallandale Beach**

No impacts.

### **City of Hollywood Public Works Department**

No impacts.

### **Comcast Cable**

Potential impacts were identified at the following locations:

- I-95 at the Miami-Dade/Broward County line: underground crossing
- Along the Hallandale Beach Boulevard north side of the road: aerial
- Hallandale Beach Boulevard at CSX railroad and I-95: underground crossing
- Hallandale Beach Boulevard: aerial crossing at Bryan Road
- Hallandale Beach Boulevard: underground crossing at SW 30<sup>th</sup> Avenue
- Along the west side of I-95 limited access right of way line south of Pembroke Road: aerial.

### **Crown Castle NG**

Potential impacts were identified at the following locations:

- North side of Hallandale Beach Boulevard from west of SW 40<sup>th</sup> Avenue to east of Dixie Highway: buried



### **Fiberlight LLC.**

The location of the facilities was not provided by Fiberlight LLC at this phase. Potential impacts (if any) are to be coordinated with Fiberlight LLC in future phases of the project.

### **Florida City Gas**

Potential impacts were identified at the following location:

- Hallandale Beach Boulevard from South Park Road to SW 31<sup>st</sup> Avenue north side: 4" steel gas main

### **Fibernet Direct**

Potential impacts were identified at the following locations:

- Buried Underground Fiber – Within the existing I-95 right of way (west side), from north of the I-95 southbound off-ramp to Ives Dairy Road to Hallandale Beach Boulevard and from I-95 southbound off-ramp to Hallandale Beach Boulevard to I-95 northbound off-ramp to Pembroke Road
- Buried Underground Fiber – west of the I-95 right of way (west side), from north of the off-ramp to Ives Dairy Road to Hallandale Beach Boulevard
- Buried Underground Fiber – in the vicinity of the existing I-95 right of way (east side), from the I-95 northbound off-ramp to Pembroke Road to the ramp terminal
- Along Hallandale Beach Boulevard on the south side from west of the I-95 southbound on-ramp ramp terminal to Ansin Boulevard: buried
- Hallandale Beach Boulevard at Ansin Boulevard crossing: buried
- Along Pembroke Road on the south side from SW 31<sup>st</sup> Avenue to east of NW 8<sup>th</sup> Avenue: buried

### **Florida Department of Transportation – ITS**

Potential impacts were identified at the following locations:

- Along I-95 northbound on the east side from Miami-Dade County/Broward County line to north of Johnson Street
- Along Hallandale Beach Boulevard on the south side from S. Park Rd. to Ansin Blvd.

- Along Pembroke Road on the south side from S. Park Rd. to NW 9<sup>th</sup> Ave.
- Along Hollywood Boulevard from CSX Crossing to east of I-95 NB off-ramp.

### **Florida Power & Light**

Potential impacts were identified at the following locations:

- Miami-Dade/Broward County Line – overhead 13K power line
- Hallandale Beach Boulevard – overhead 13k power line
- Pembroke Road – overhead 13k power line
- Washington Street crossing I-95 – overhead 13k power line

### **Level 3 Communications**

Potential impacts were identified at the following locations:

- North side of Hallandale Beach Boulevard – fiber optic underground
- North side of Pembroke Road – fiber optic underground

### **MCI**

According to the review conducted by MCI/Verizon, the UAO does have existing facilities within the limits of this project. The location of their facilities is within CSX railway right of way. Potential impacts within these areas are to be coordinated with MCI.

### **Miami-Dade County Public Works and Traffic**

The location of the facilities was not provided by Miami-Dade Public Works and Traffic at this phase. Potential impacts to street lighting and traffic signals (if any) are to be coordinated with Miami-Dade County Public Works and Traffic in future phases of the project.

### **Sprint**

The location of the facilities was not provided by Sprint at this phase. Potential impacts (if any) are to be coordinated with Sprint in future phases of the project.

### **Windstream Communications**

Potential impacts were identified at the following location:

- South side of Hallandale Beach Boulevard from 1<sup>st</sup> St. to Ansin Blvd.

### **XO Communications**

According to the review conducted by the XO Communications, the UAO does have existing facilities within the limits of this project. Fibernet Direct controls and maintains these area facilities. The location of XO Communications facilities was not provided by Fibernet Direct at this phase.

Coordination with the UAOs will continue during the Design phase. Further refinement of the proposed design and utility field verification (verified vertical and horizontal (VVH) data) will be performed during final design. Special construction equipment and techniques may be utilized to avoid utility conflicts.

The FDOT Utility coordinator is currently working with the UAOs to determine the following information:

- Costs associated with relocating utilities.
- If utilities are located in FDOT right of way by permit or easement.





### Noise Study Segment 1 (Ives Dairy Road to Hallandale Beach Boulevard)



Begin Project

Existing ~16' Tall Ground Mounted Noise Barrier (FDOT ID No. 87270-3409 (I-95 2))

Existing ~22' Tall Ground Mounted Noise Barrier (FDOT ID No. 86070800SB0000)

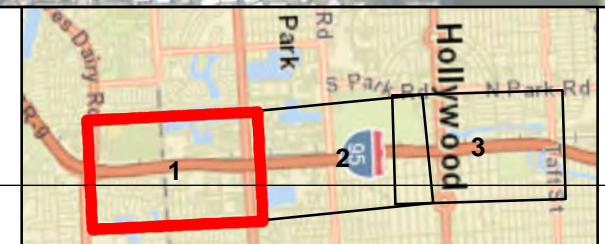
Existing ~16' Tall Ground Mounted Noise Barrier (FDOT ID No. 86070000NB0000)

I-95 (SR 9) PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) Broward County, Florida  
FPID No. 436903-1-22-02



#### Legend

- Monitoring Sites
- Existing Noise Barriers
- Proposed Improvements

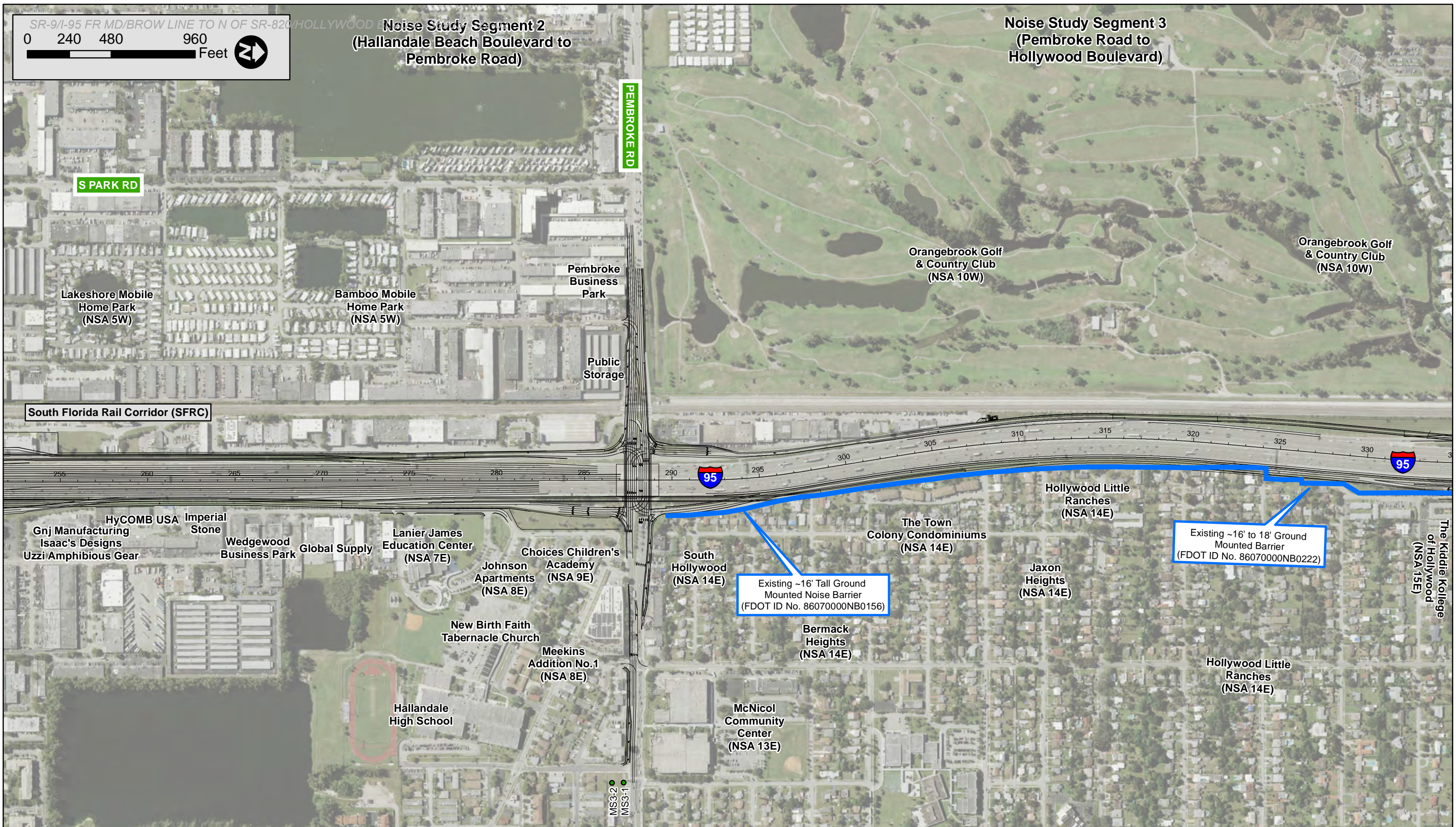


**Figure 3.1  
Noise Study Area (NSA)  
Map  
Sheet 1 of 3**



**Noise Study Segment 2**  
(Hallandale Beach Boulevard to  
Pembroke Road)

**Noise Study Segment 3**  
(Pembroke Road to  
Hollywood Boulevard)

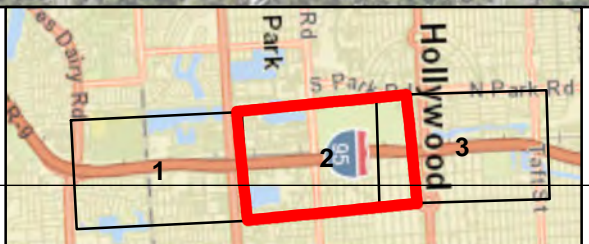


I-95 (SR 9) PD&E Study from  
South of Hallandale Beach Boulevard (SR 858)  
to North of Hollywood Boulevard (SR 820)  
Broward County, Florida  
FPID No. 436903-1-22-02



**Legend**

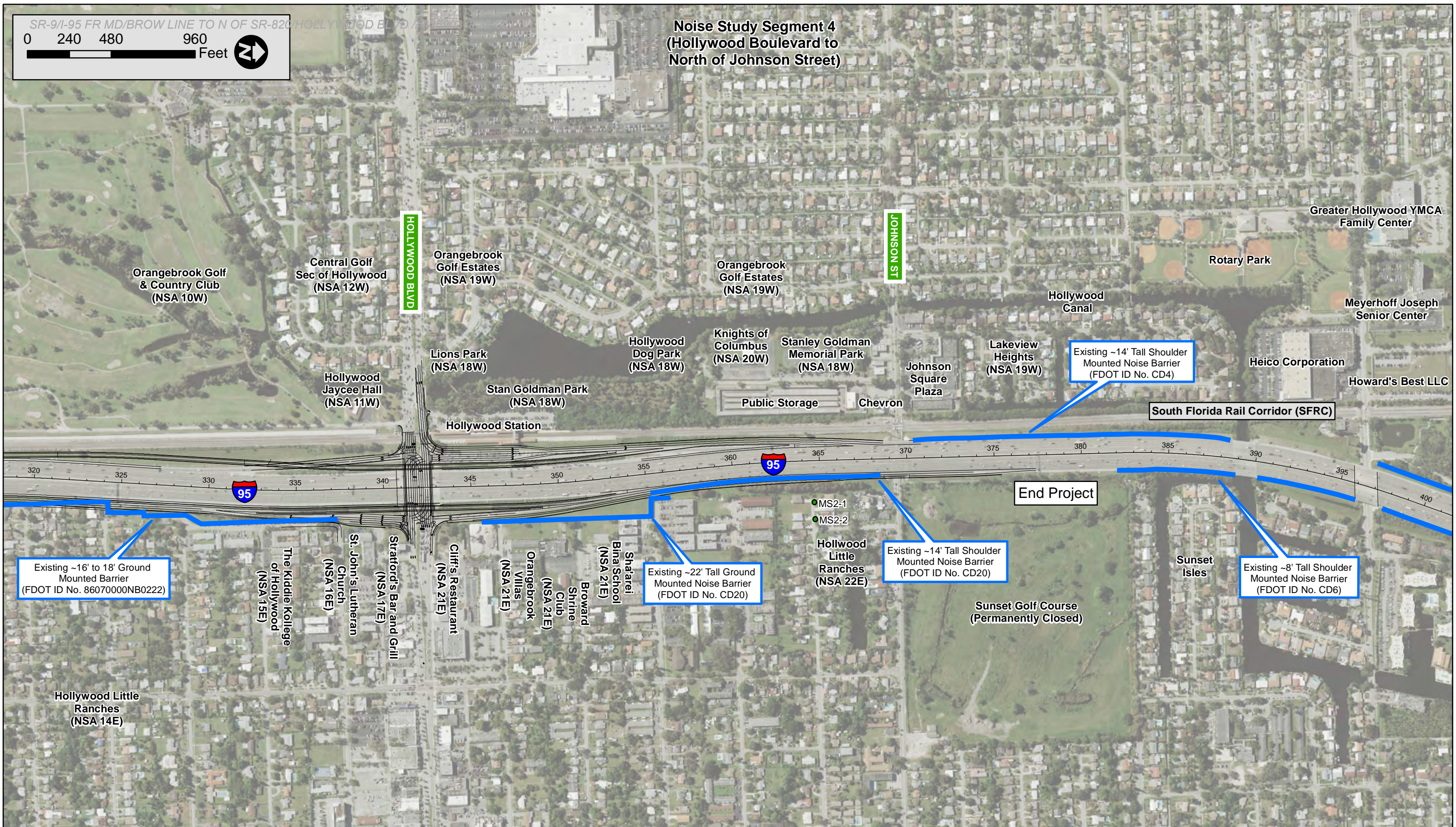
- Monitoring Sites
- Existing Noise Barriers
- Proposed Improvements



**Figure 3.1**  
**Noise Study Area (NSA)**  
**Map**  
**Sheet 2 of 3**



**Noise Study Segment 4  
(Hollywood Boulevard to  
North of Johnson Street)**



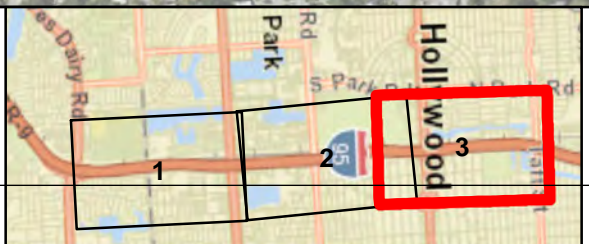
I-95 (SR 9) PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) Broward County, Florida  
 FPID No. 436903.1.22.02



**Legend**

- Monitoring Sites
- Existing Noise Barriers
- Proposed Improvements

July 2021

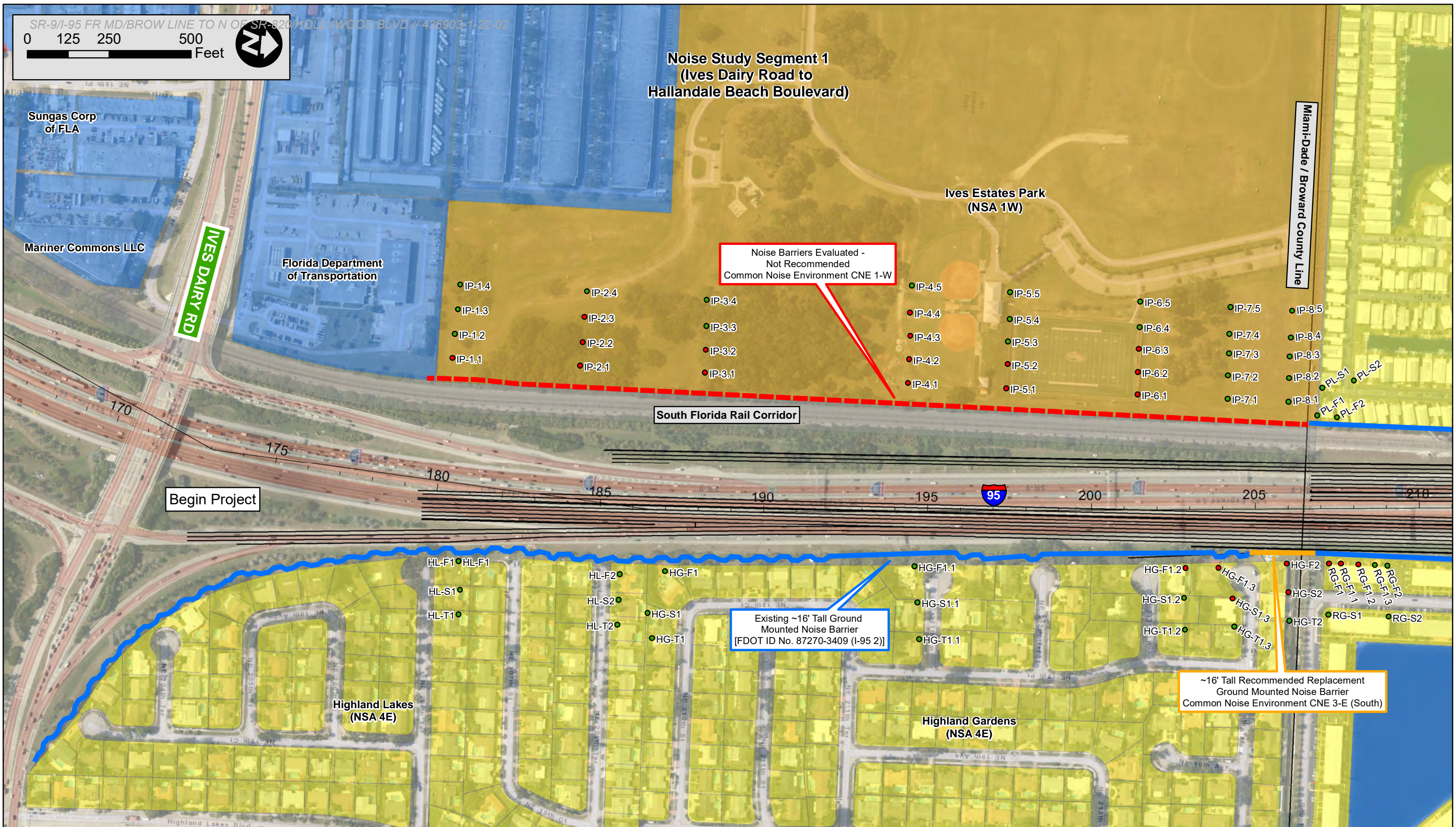


**Figure 3.1  
Noise Study Area (NSA)  
Map  
Sheet 3 of 3**





### Noise Study Segment 1 (Ives Dairy Road to Hallandale Beach Boulevard)

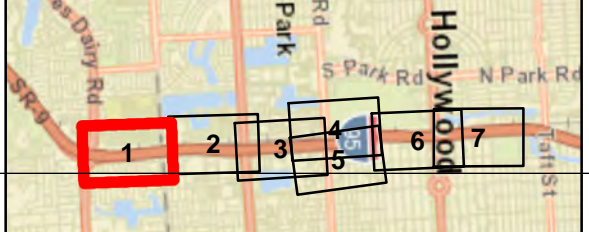


I-95 (SR 9) PD&E Study from  
South of Hallandale Beach Boulevard (SR 858)  
to North of Hollywood Boulevard (SR 820)  
Broward County, Florida  
FPID No. 436903-1-22-02



July 2021

Predicted Noise Levels		Noise Barriers		Land Uses by Noise Activity Category	
● ≤ Noise Abatement Criteria	● > Noise Abatement Criteria	■ Existing Noise Barrier to Remain	■ Replacement of Existing Noise Barrier	■ B: Residential	■ C: Other Sensitive Land Use
		■ Supplemental Noise Barrier (Existing)	■ Recommended Noise Barrier (New)	■ D: Institutional (Interior)	■ E: Sensitive Commercial
		■ Not Recommended Noise Barrier		■ F: Non-Sensitive Developed	■ G: Vacant
				■ Proposed Improvements	



**FIGURE 3.2  
NOISE ANALYSIS MAP  
Sheet 1 of 7**



0 125 250 500 Feet



### Noise Study Segment 1 (Ives Dairy Road to Hallandale Beach Boulevard)

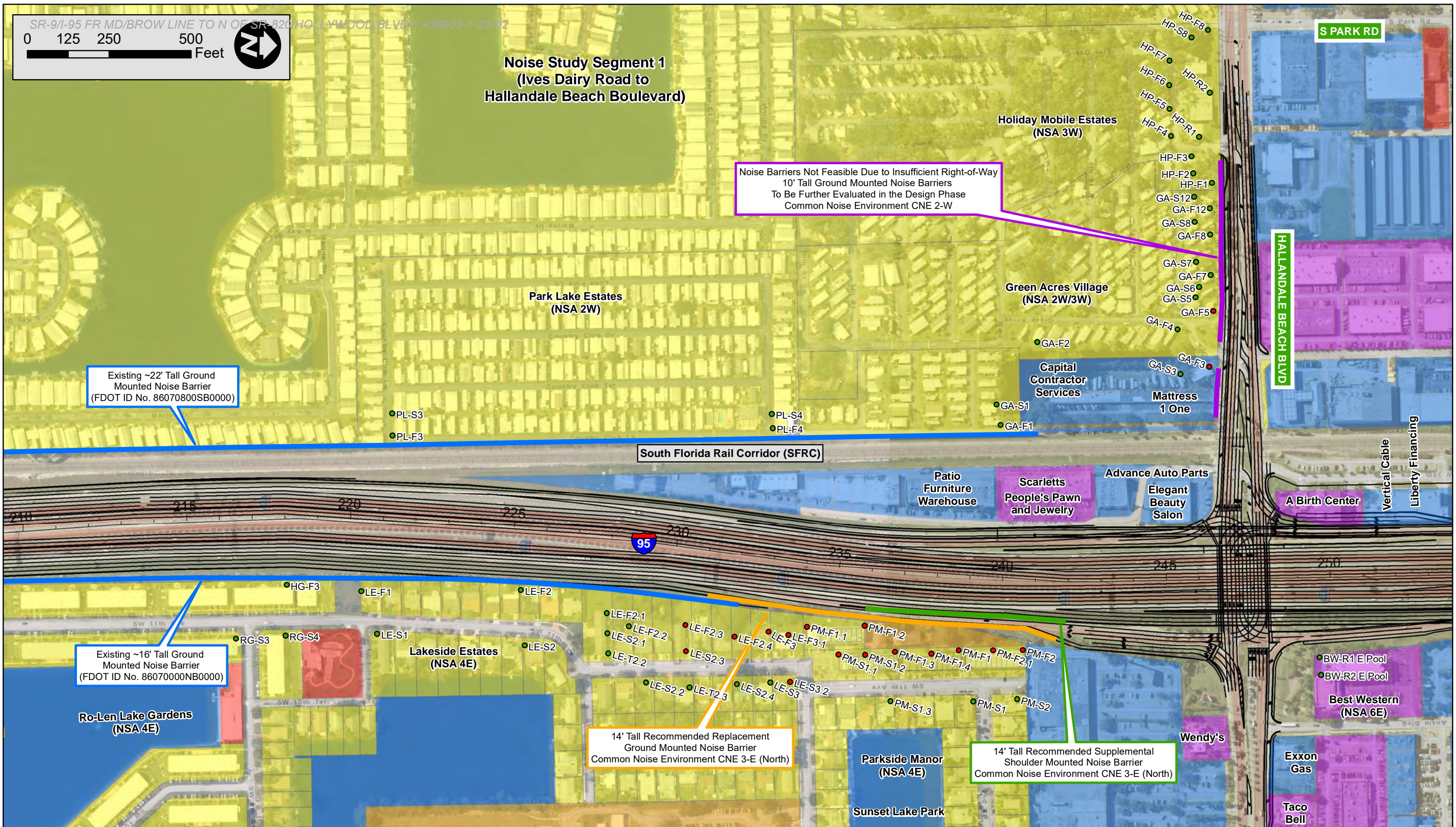
Noise Barriers Not Feasible Due to Insufficient Right-of-Way  
10' Tall Ground Mounted Noise Barriers  
To Be Further Evaluated in the Design Phase  
Common Noise Environment CNE 2-W

Existing ~22' Tall Ground Mounted Noise Barrier  
(FDOT ID No. 86070800SB0000)

Existing ~16' Tall Ground Mounted Noise Barrier  
(FDOT ID No. 86070000NB0000)

14' Tall Recommended Replacement Ground Mounted Noise Barrier  
Common Noise Environment CNE 3-E (North)

14' Tall Recommended Supplemental Shoulder Mounted Noise Barrier  
Common Noise Environment CNE 3-E (North)

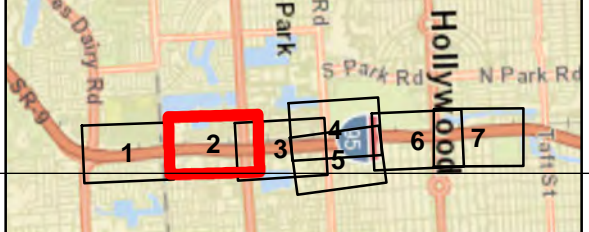


I-95 (SR 9) PD&E Study from  
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July 2021

Predicted Noise Levels		Noise Barriers		Land Uses by Noise Activity Category	
● ≤ Noise Abatement Criteria	● > Noise Abatement Criteria	Existing Noise Barrier to Remain	Replacement of Existing Noise Barrier	B: Residential	C: Other Sensitive Land Use
		Supplemental Noise Barrier (Existing)	Recommended Noise Barrier (New)	D: Institutional (Interior)	E: Sensitive Commercial
		Not Recommended Noise Barrier		F: Non-Sensitive Developed	G: Vacant
					Proposed Improvements

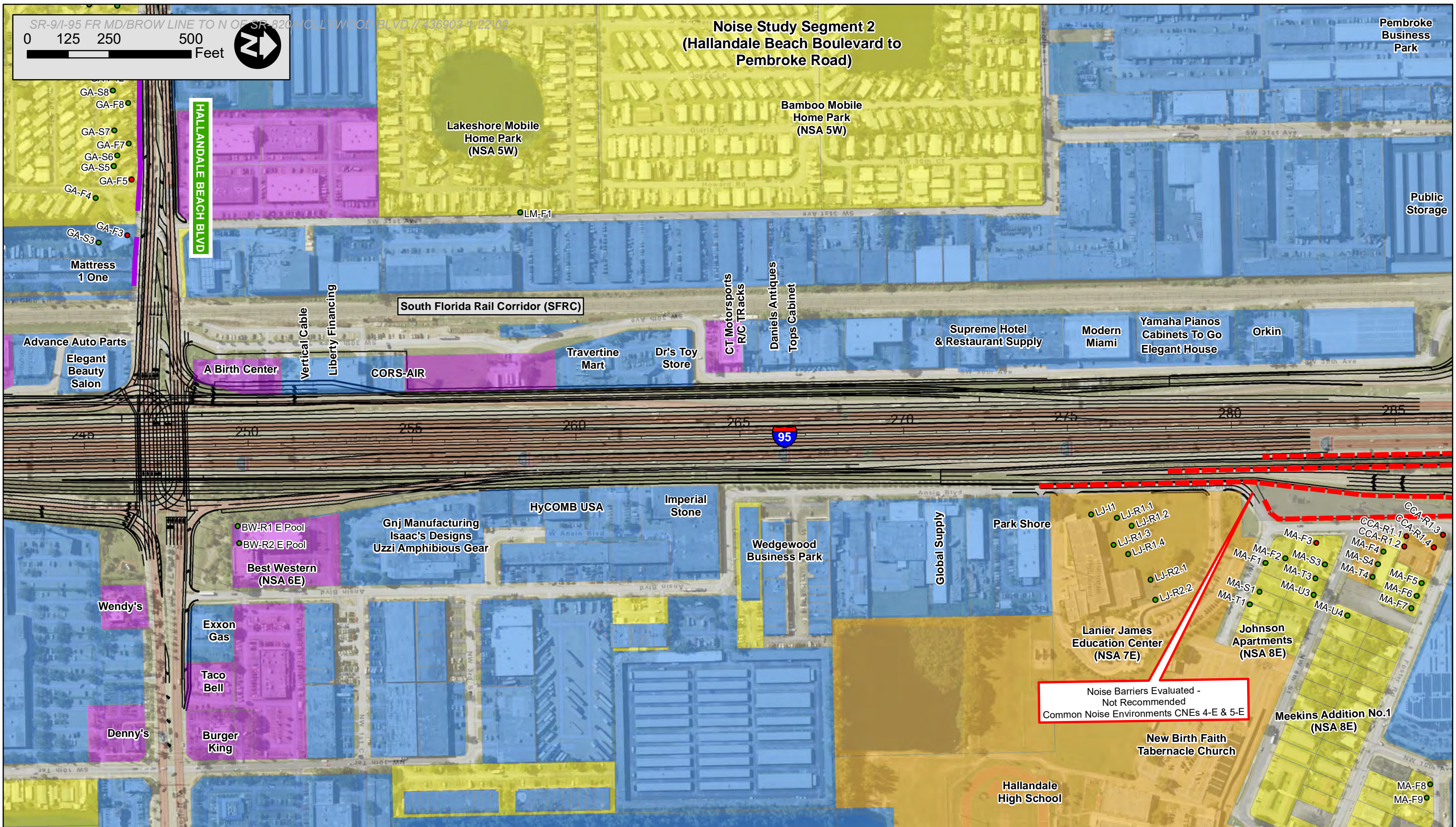


**FIGURE 3.2  
NOISE ANALYSIS MAP  
Sheet 2 of 7**  
Page 181 of 194





### Noise Study Segment 2 (Hallandale Beach Boulevard to Pembroke Road)

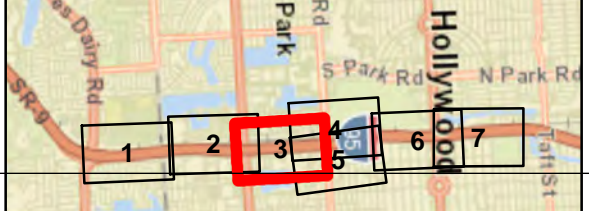


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FPID No. 436903-1-22-02



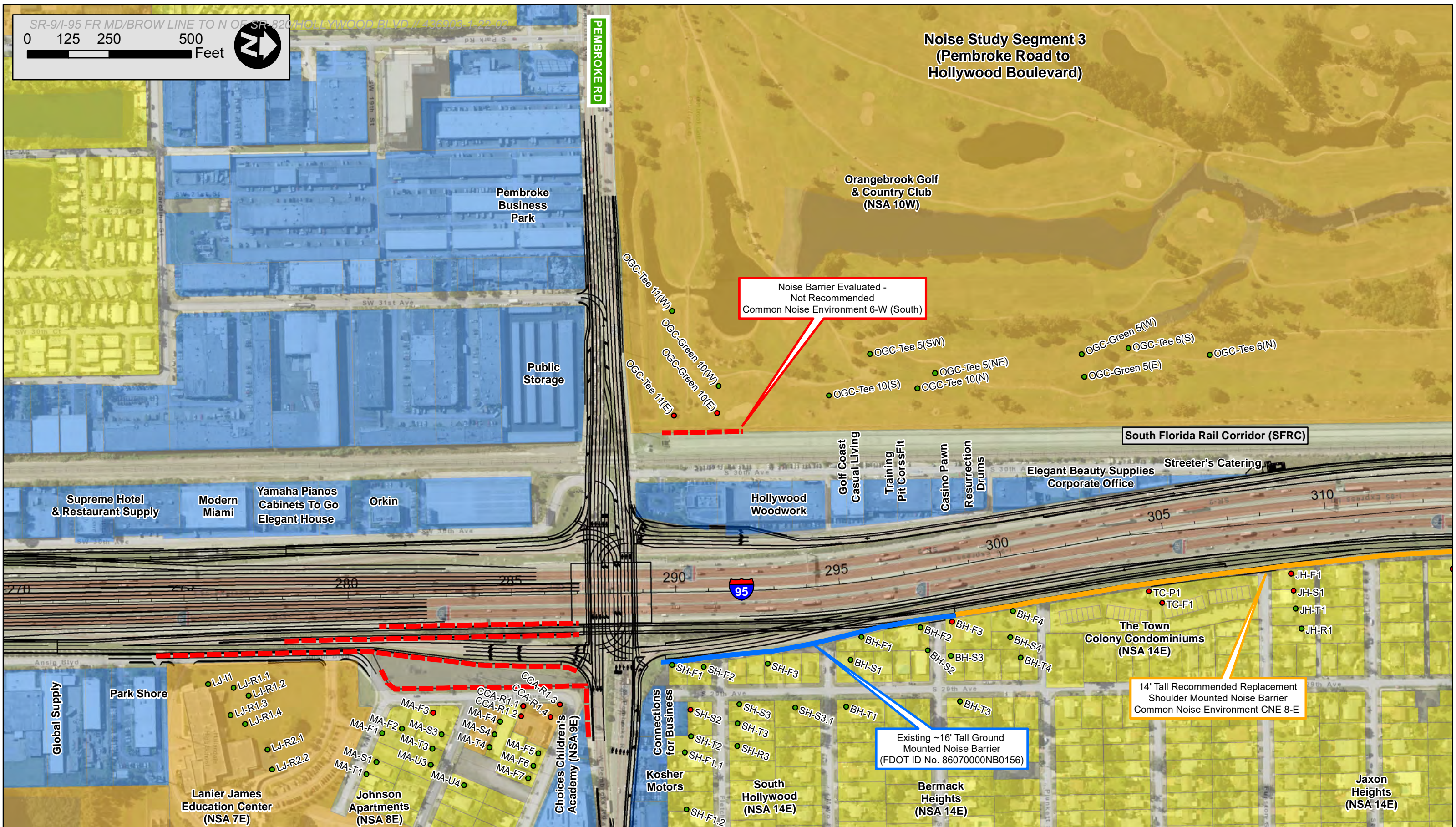
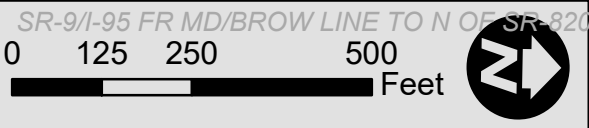
July 2021

Predicted Noise Levels		Noise Barriers		Land Uses by Noise Activity Category	
●	≤ Noise Abatement Criteria	■	Existing Noise Barrier to Remain	■	B: Residential
●	> Noise Abatement Criteria	■	Replacement of Existing Noise Barrier	■	C: Other Sensitive Land Use
		■	Supplemental Noise Barrier (Existing)	■	D: Institutional (Interior)
		■	Recommended Noise Barrier (New)	■	E: Sensitive Commercial
		■	Not Recommended Noise Barrier	■	F: Non-Sensitive Developed
				■	G: Vacant
				—	Proposed Improvements



**FIGURE 3.2  
NOISE ANALYSIS MAP  
Sheet 3 of 7**



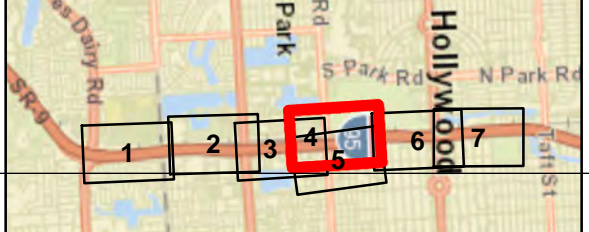


I-95 (SR 9) PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) Broward County, Florida  
 FPID No. 436903-1-22-02



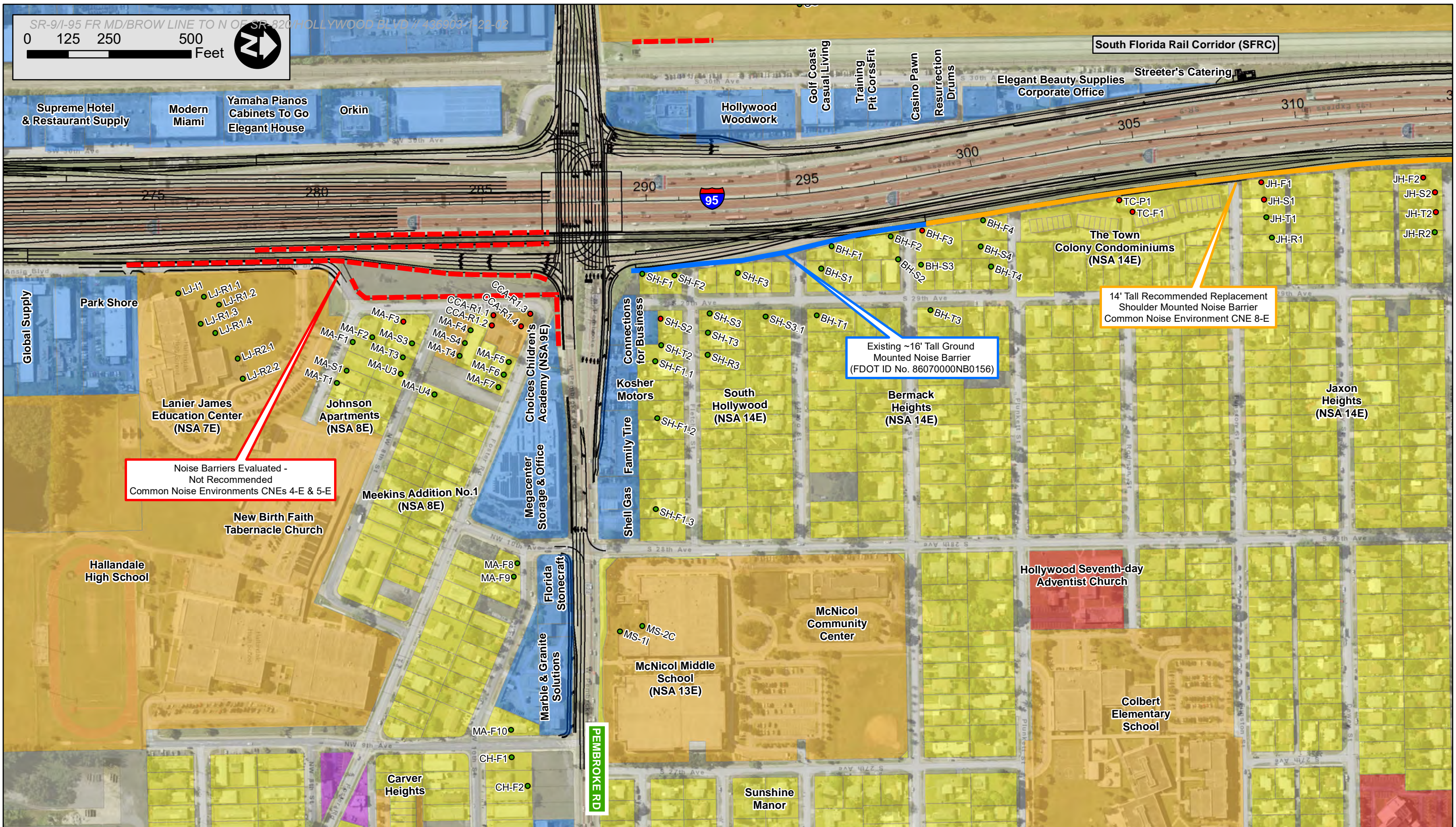
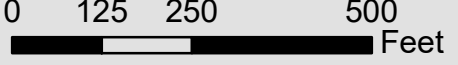
July 2021

Predicted Noise Levels		Noise Barriers		Land Uses by Noise Activity Category	
● ≤ Noise Abatement Criteria	● > Noise Abatement Criteria	■ Existing Noise Barrier to Remain	■ Replacement of Existing Noise Barrier	■ B: Residential	■ C: Other Sensitive Land Use
		■ Supplemental Noise Barrier (Existing)	■ Recommended Noise Barrier (New)	■ D: Institutional (Interior)	■ E: Sensitive Commercial
		■ Not Recommended Noise Barrier		■ F: Non-Sensitive Developed	■ G: Vacant
				■ Proposed Improvements	



**FIGURE 3.2**  
**NOISE ANALYSIS MAP**  
 Sheet 4 of 7





Noise Barriers Evaluated - Not Recommended  
Common Noise Environments CNEs 4-E & 5-E

Existing ~16' Tall Ground Mounted Noise Barrier  
(FDOT ID No. 86070000NB0156)

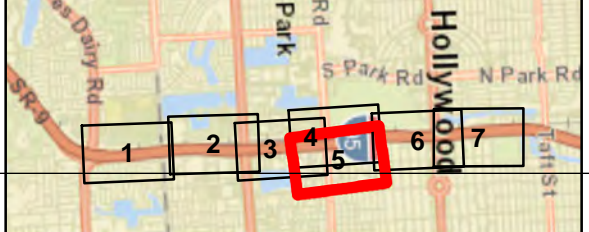
14' Tall Recommended Replacement  
Shoulder Mounted Noise Barrier  
Common Noise Environment CNE 8-E

I-95 (SR 9) PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) Broward County, Florida  
FPID No. 436903-1-22-02



July 2021

Predicted Noise Levels		Noise Barriers		Land Uses by Noise Activity Category	
●	≤ Noise Abatement Criteria	■	Existing Noise Barrier to Remain	■	B: Residential
●	> Noise Abatement Criteria	■	Replacement of Existing Noise Barrier	■	C: Other Sensitive Land Use
		■	Supplemental Noise Barrier (Existing)	■	D: Institutional (Interior)
		■	Recommended Noise Barrier (New)	■	E: Sensitive Commercial
		■	Not Recommended Noise Barrier	■	F: Non-Sensitive Developed
				■	G: Vacant
				—	Proposed Improvements

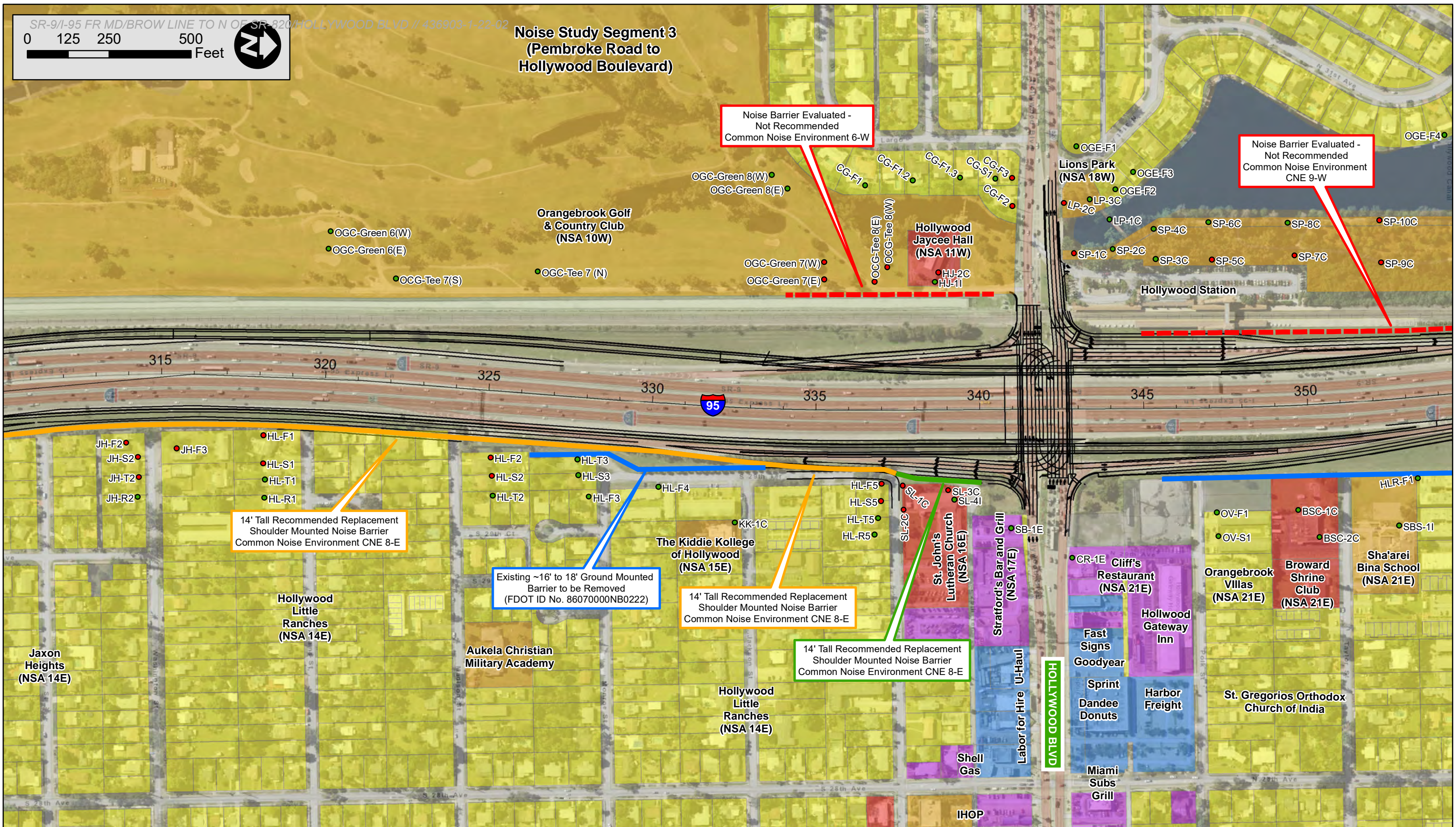


**FIGURE 3.2**  
**NOISE ANALYSIS MAP**  
Sheet 5 of 7





**Noise Study Segment 3  
(Pembroke Road to  
Hollywood Boulevard)**

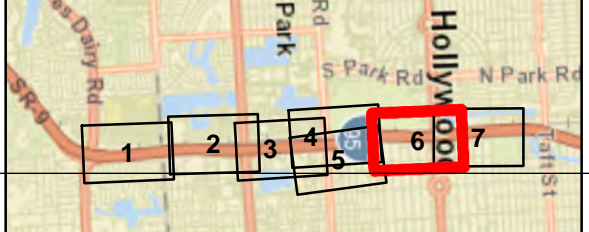


I-95 (SR 9) PD&E Study from  
South of Hallandale Beach Boulevard (SR 858)  
to North of Hollywood Boulevard (SR 820)  
Broward County, Florida  
FPID No. 436903-1-22-02



July 2021

Predicted Noise Levels		Noise Barriers		Land Uses by Noise Activity Category	
●	≤ Noise Abatement Criteria	■	Existing Noise Barrier to Remain	■	B: Residential
●	> Noise Abatement Criteria	■	Replacement of Existing Noise Barrier	■	C: Other Sensitive Land Use
		■	Supplemental Noise Barrier (Existing)	■	D: Institutional (Interior)
		■	Recommended Noise Barrier (New)	■	E: Sensitive Commercial
		■	Not Recommended Noise Barrier	■	F: Non-Sensitive Developed
				■	G: Vacant
				—	Proposed Improvements



**FIGURE 3.2  
NOISE ANALYSIS MAP  
Sheet 6 of 7**

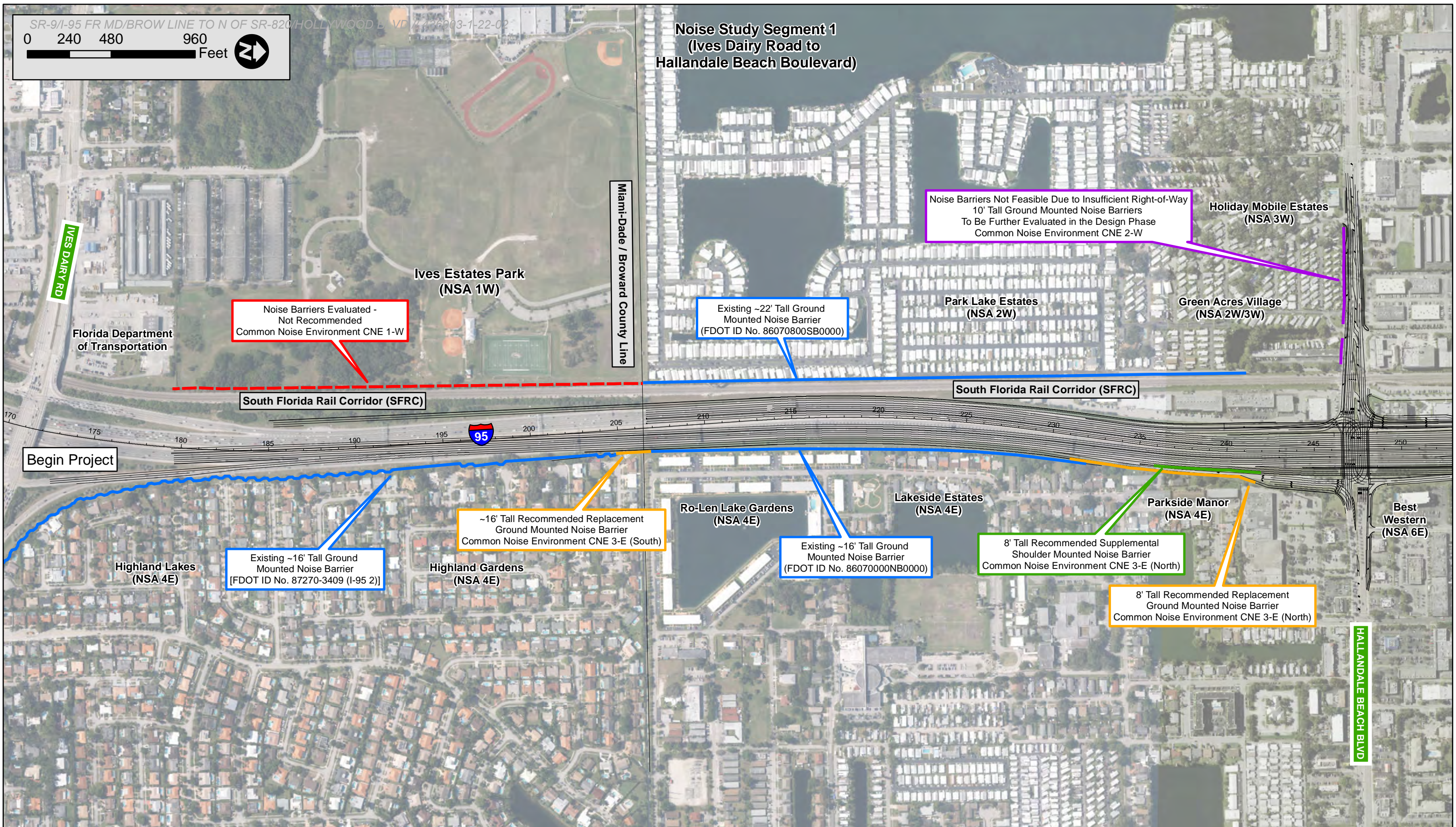








**Noise Study Segment 1**  
(Ives Dairy Road to Hallandale Beach Boulevard)



Noise Barriers Evaluated - Not Recommended  
Common Noise Environment CNE 1-W

Existing ~22' Tall Ground Mounted Noise Barrier  
(FDOT ID No. 86070800SB0000)

Noise Barriers Not Feasible Due to Insufficient Right-of-Way  
10' Tall Ground Mounted Noise Barriers To Be Further Evaluated in the Design Phase  
Common Noise Environment CNE 2-W

Existing ~16' Tall Ground Mounted Noise Barrier  
(FDOT ID No. 87270-3409 (I-95 2))

~16' Tall Recommended Replacement Ground Mounted Noise Barrier  
Common Noise Environment CNE 3-E (South)

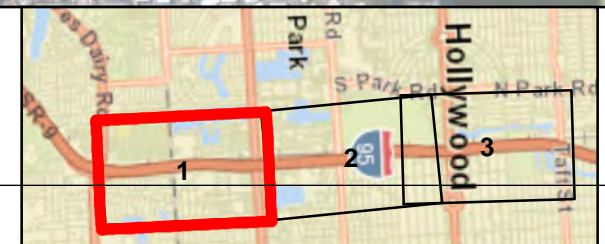
Existing ~16' Tall Ground Mounted Noise Barrier  
(FDOT ID No. 86070000NB0000)

8' Tall Recommended Supplemental Shoulder Mounted Noise Barrier  
Common Noise Environment CNE 3-E (North)

8' Tall Recommended Replacement Ground Mounted Noise Barrier  
Common Noise Environment CNE 3-E (North)



Noise Barriers	
<span style="color: blue;">—</span>	Existing Noise Barrier to Remain
<span style="color: orange;">—</span>	Replacement of Existing Noise Barrier
<span style="color: green;">—</span>	Supplemental Noise Barrier
<span style="color: purple;">—</span>	Noise Barrier Not Feasible
<span style="color: red; text-decoration: dashed;">—</span>	Not Recommended Noise Barrier
<span style="color: grey;">—</span>	Proposed Improvements



**Figure 5.1**  
**Noise Barrier Recommendation Map**  
Sheet 1 of 3



**Noise Study Segment 2**  
(Hallandale Beach Boulevard to  
Pembroke Road)

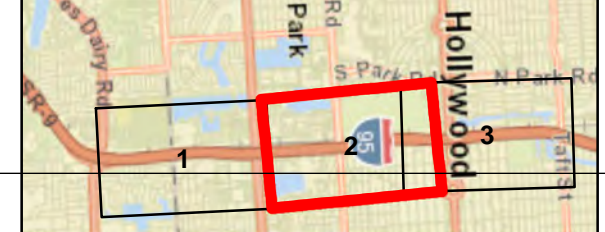
**Noise Study Segment 3**  
(Pembroke Road to  
Hollywood Boulevard)



I-95 (SR 9) PD&E Study from  
South of Hallandale Beach Boulevard (SR 858)  
to North of Hollywood Boulevard (SR 820)  
Broward County, Florida  
FPID No. 436903-1-22-02



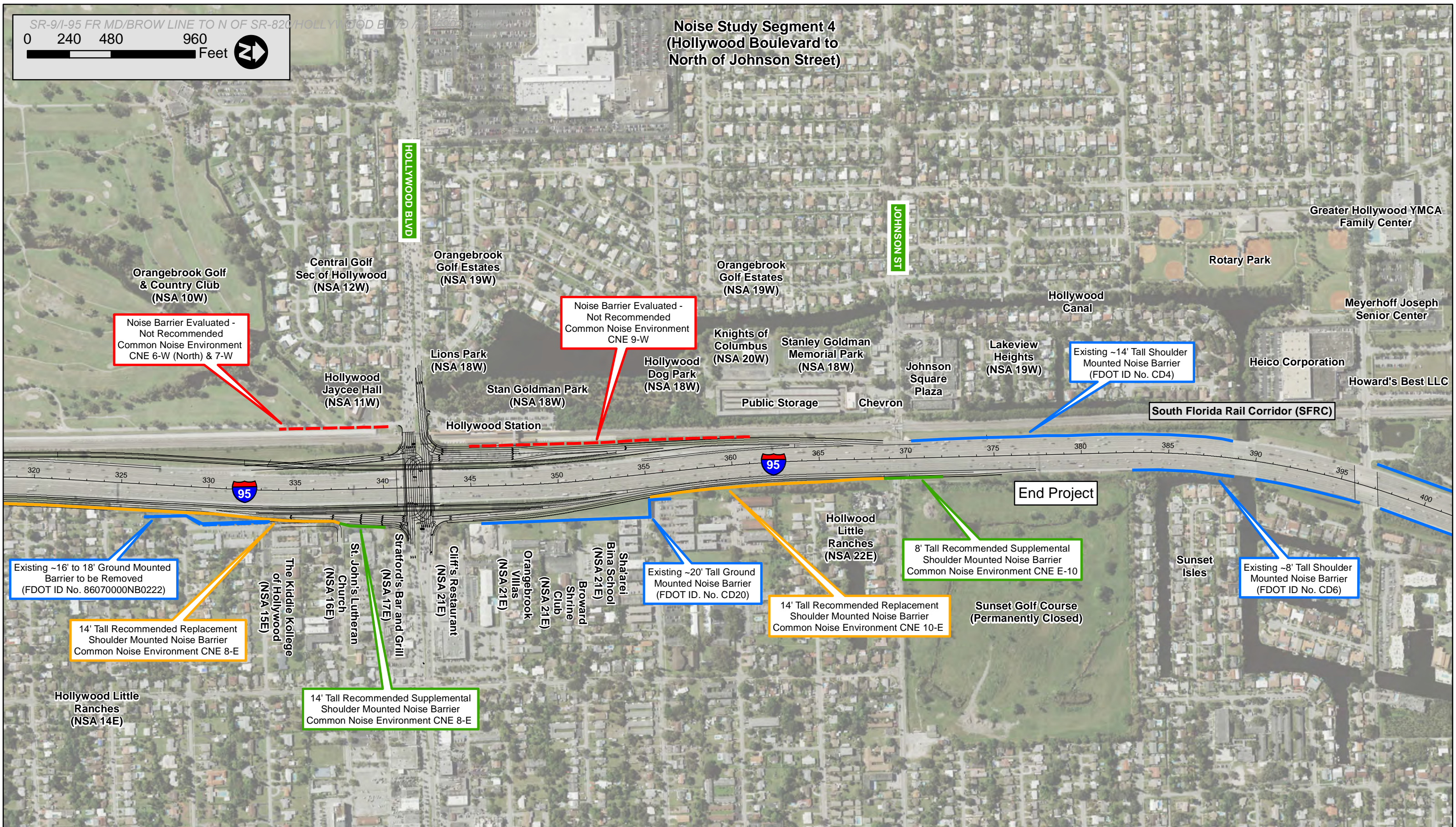
- Noise Barriers**
- Existing Noise Barrier to Remain
  - Replacement of Existing Noise Barrier
  - Supplemental Noise Barrier
  - Noise Barrier Not Feasible
  - - - Not Recommended Noise Barrier
- Proposed Improvements



**Figure 5.1**  
**Noise Barrier**  
**Recommendation Map**  
Sheet 2 of 3



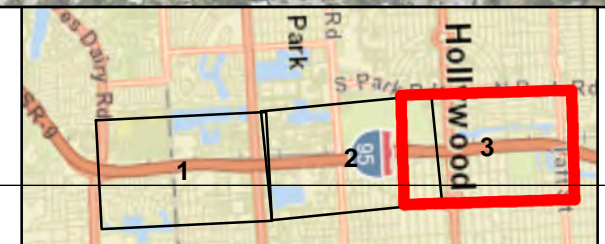
**Noise Study Segment 4**  
(Hollywood Boulevard to North of Johnson Street)



I-95 (SR 9) PD&E Study from South of Hallandale Beach Boulevard (SR 858) to North of Hollywood Boulevard (SR 820) Broward County, Florida  
 FPID No. 436903.1.22.02



- Noise Barriers**
- Existing Noise Barrier to Remain
  - Replacement of Existing Noise Barrier
  - Supplemental Noise Barrier
  - Noise Barrier Not Feasible
  - Not Recommended Noise Barrier
- Proposed Improvements



**Figure 5.1**  
**Noise Barrier Recommendation Map**  
Sheet 3 of 3

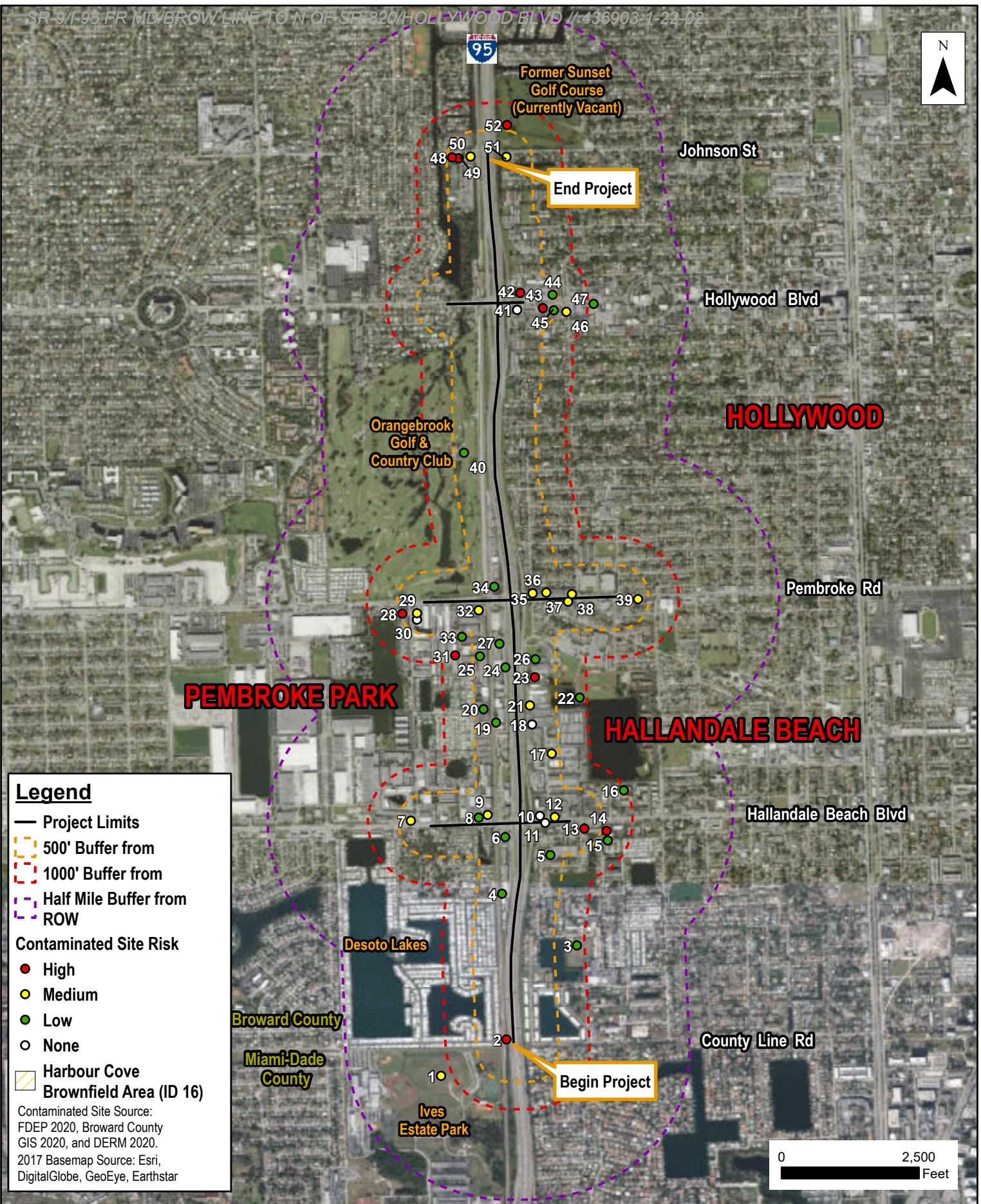


Table 5.1 - Noise Barrier Evaluation Summary and Recommendations

Noise Sensitive Area Name / Number	Common Noise Environment (CNE) Identification Number / (Conceptual Noise Barrier Design Number)	Optimized Conceptual Noise Barrier Design					Number of Impacted Receptor Sites	Number of Impacted/Benefited Receptor Sites	Number of Benefited Receptor Sites/ Not Impacted	Total Number of Benefited Receptor Sites	Average Noise Reduction for all Benefited Receptor Sites dB(A)	Maximum Noise Reduction for all Benefited Receptor Sites dB(A)	Cost (\$30 per square foot)	Average Cost/Site Benefited	Optimal Barrier Design Meet FDOT's Reasonable Noise Abatement Criteria of \$42,000 per Benefited Receptor Site and 7.0 dB(A) Noise Reduction Design Goal and Feasible?	Noise Barrier Recommended for Further Consideration and Public Input?	Comments
		Noise Barrier Type (Segment)	Height (feet)	Length (feet)	Begin Station Number	End Station Number											
Ives Estates Park - West of I-95 between Ives Dairy Road and Miami-Dade / Broward County Line / NSA 1 W	CNE 1-W (CD 1W-4)	Ground Mounted	22	2,740	179+20	206+60	Special Land Use	--	--	--	7.8	10.3	\$1,808,400	--	NO (Usage of Park Recreational Facilities Less Than Required to be Cost Reasonable)	NO	Represents the optimal conceptual noise barrier design; Does not meet the Reasonableness Cost Criteria for special land uses; Noise barriers are not recommended for further consideration or public input during the project's design phase at this location.
Green Acres Village and Holiday Mobile Estates - South of Hallandale Beach Boulevard and West of I-95 / NSA 3W	CNE 2-W (CD 2W-2)	Ground Mounted (Segment 1 of 2)	10	590	132+00	137+90	3	3	17	20	6.8	8.8	\$228,000	\$11,400	NO (Not Feasible - Insufficient Right-of-way to Constructed Noise Barrier)	Yes (See Comments)	Not considered a feasible abatement measure due to insufficient existing right-of-way to accommodate a noise barrier at this location; Noise barriers are recommended to be further evaluated at this location during the project's design phase when additional design information including topographical survey would be available.
		Ground Mounted (Segment 2 of 2)	10	170	138+30	140+00											
Highland Gardens and Parkside Manor Communities - East of I-95 and between Ives Dairy Road and Hallandale Beach Boulevard / NSA 4E	CNE 3-E (CD 3E-1S and CD 3E-4N)	South Segment - Replacement Ground Mounted Noise Barrier	16	200	204+80	206+80	11	2	0	2	9.6	12.3	\$96,000	\$48,000	NO (Not Required - In-Kind Replacement Noise Barrier)	Yes (Replacement Noise Barriers)	Two segments of the existing ground mounted noise barrier are physically impacted by the widening of I-95 and require replacement; Represents the optimal conceptual noise barrier system design and is recommended for further consideration and public input in the project's design phase.
		North Segment - Replacement Shoulder Mounted Noise Barriers	14	1,080	231+00	241+80											
		North Segment - Supplemental Shoulder Mounted Noise Barrier	8	600	236+00	242+00											
Meekins Addition No. 1 Subdivision - East of I-95 and South of Pembroke Road / NSA 8E	CNE 4-E (CD 4E-5)	Shoulder Mounted (Off Ramp)	8	700	274+00	281+00	2	2	0	2	5.2	6.2	\$786,600	\$393,300	NO	NO	Represents the optimal conceptual noise barrier design; Does not meet the Reasonableness Cost Criteria and the minimum noise reduction design goal of 7 dB(A). Noise barriers are not recommended for further consideration or public input during the project's design phase at this location.
		Ground Mounted Noise Barrier (I-95 Eastern Right-of-Way Line)	22	610	281+00	287+00											
		Shoulder Mounted (CD Road)	8	900	278+00	287+00											
Choices Children's Academy - East of I-95 and South of Pembroke Road / NSA 9E	CNE 5-E (CD 5E-4)	Ground Mounted (I-95 Eastern Right-of-Way Line)	22	560	283+00	287+60	Special Land Use	---	---	---	6.7	8.2	\$933,600	---	NO (Usage of Park Recreational Facilities Less Than Required to be Cost Reasonable)	NO	Represents the optimal conceptual noise barrier design; Does not meet the Reasonableness Cost Criteria for special land uses; Noise barrier are not recommended for further consideration or public input during the project's design phase at this location.
		Shoulder Mounted (Off Ramp)	8	600	275+00	281+00											
		Shoulder Mounted (Off Ramp)	14	600	281+00	287+00											
		Shoulder Mounted (I-95 Northbound)	8	700	280+00	287+00											
Orangebrook Golf & Country Club - West of I-95 between Pembroke Road and Hollywood Boulevard / NSA 10W	CNE 6-W (CD 6W-4S and CD 6W-1N)	Ground Mounted Noise Barrier (South Segment)	22	260	289+40	292+00	Special Land Use	--	--	--	6.2	7.1	\$171,600	--	NO (Usage of Golf Course Less Than Required to be Cost Reasonable)	NO	Represents the optimal conceptual noise barrier design; Does not meet the Reasonableness Cost Criteria for special land uses; Noise barrier are not recommended for further consideration or public input during the project's design phase at this location.
		Ground Mounted Noise Barrier (North Segment)	16	460	334+00	338+60											
Hollywood Jaycee Hall - West of I-95 and South of Hollywood Boulevard / NSA 11W	CNE 7-W (CD 7W-2)	Ground Mounted Noise Barrier	22	280	337+80	340+60	Special Land Use	--	--	--	7.2	7.2	\$184,800	--	NO (Usage of Parks and Recreational Facilities Less Than Required to be Cost Reasonable)	NO	Represents the optimal conceptual noise barrier design; Does not meet the Reasonableness Cost Criteria for special land uses; Noise barrier are not recommended for further consideration or public input during the project's design phase at this location.
South Hollywood, Berrack Heights, The Town Colony Condominiums, Jaxon Heights, and Hollywood Little Ranches Communities - East of I-95 between Pembroke Road and Hollywood Boulevard / NSA 14E and St. John's Lutheran Church / NSA 16E	CNE 8-E (CD 8E-3)	Segment 1 of 4 - Replacement Shoulder Mounted Noise Barrier	14	2,900	298+30	327+30	90	74	5	79	7.9	11.1	\$1,772,400	\$22,435	YES (Not Required - Replacement Noise Barrier System)	Yes (Replacement Noise Barriers)	Segments of the existing noise barrier are physically impacted by the widening of I-95 and require replacement; Represents the optimal conceptual replacement noise barrier system design and is recommended for further consideration and public input in the project's design phase; St. John's Lutheran Church playground would receive incidental benefit from this conceptual noise barrier design.
		Segment 2 of 4 - Replacement Shoulder Mounted Noise Barrier	14	570	327+30	333+00											
		Segment 3 of 4 - Replacement Shoulder Mounted Noise Barrier	14	440	333+00	337+40											
		Segment 4 of 4 - Supplemental Shoulder Mounted Noise Barrier	14	310	337+40	340+50											
Stan Goldman Park and Hollywood Dog Park - West of I-95 and North of Hollywood Boulevard / NSA 18W	CNE 9-W (CD 9W-3)	Ground Mounted Noise Barrier (I-95 Western Right-of-Way Line)	20	1,600	345+00	361+00	Special Land Use	--	--	--	6.1	7.3	\$960,000	--	NO (Usage of Parks and Recreational Facilities Less Than Required to be Cost Reasonable)	NO	Represents the lowest cost conceptual noise barrier design; The conceptual design meets FDOT's 7.0 dB(A) Noise Reduction Design Goal, but does not meet the Reasonableness Cost Criteria; A noise barrier is not recommended for further consideration or public input during the project's design phase at this location.
Hollywood Little Ranches - East of I-95 and North of Hollywood Boulevard / NSA 22E	CNE 10-E (CD 10E-4)	Segment 1 of 2 - Replacement Shoulder Mounted Noise Barrier	14	1,350	355+20	368+70	27	27	1	28	8.6	12.9	\$646,200	\$23,079	YES (Not Required - Replacement Noise Barrier System)	Yes (Replacement Noise Barriers)	Represents the optimal conceptual replacement noise barrier system design and is recommended for further consideration and public input in the project's design phase; Segments of the existing noise barrier are physically impacted by the widening of I-95 and require replacement; 14-foot tall shoulder mounted noise barrier will require a design variation since it will be on an MSE wall.
		Segment 2 of 2 - Supplemental Shoulder Mounted Noise Barrier	8	330	368+70	372+00											

\\P:\proj\2022\01\_Bellwood\_2022 Noise Study Report Tables\Table 5.1 - 301\_Bellwood\_2022 Noise Study Report Tables\Summary - 7-21-2022.xlsx (Summary) 9/8





**Legend**

- Project Limits
- 500' Buffer from
- 1000' Buffer from
- Half Mile Buffer from ROW

**Contaminated Site Risk**

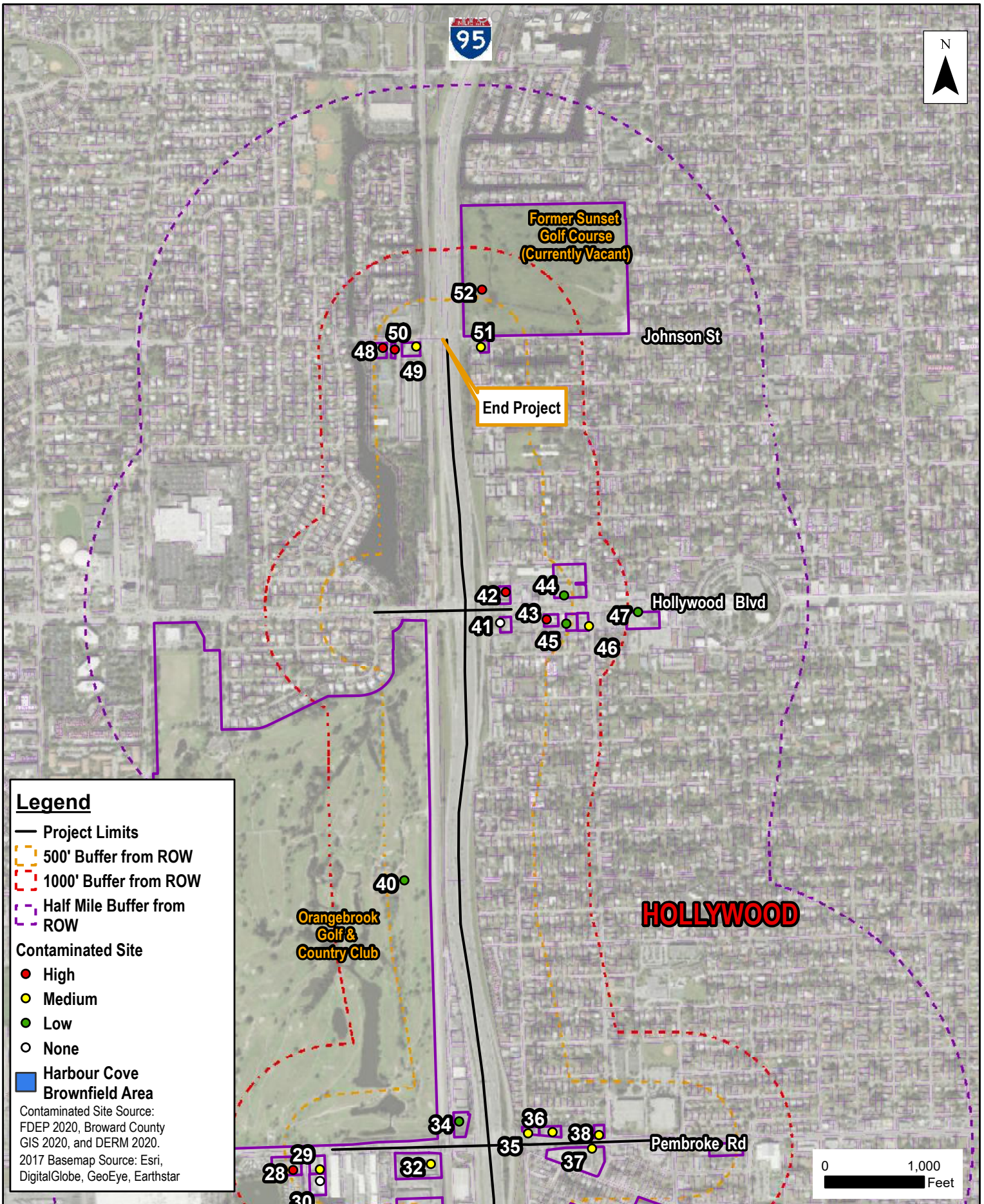
- High
- Medium
- Low
- None

▨ Harbour Cove Brownfield Area (ID 16)

Contaminated Site Source:  
 FDEP 2020, Broward County GIS 2020, and DERM 2020.  
 2017 Basemap Source: Esri, DigitalGlobe, GeoEye, Earthstar







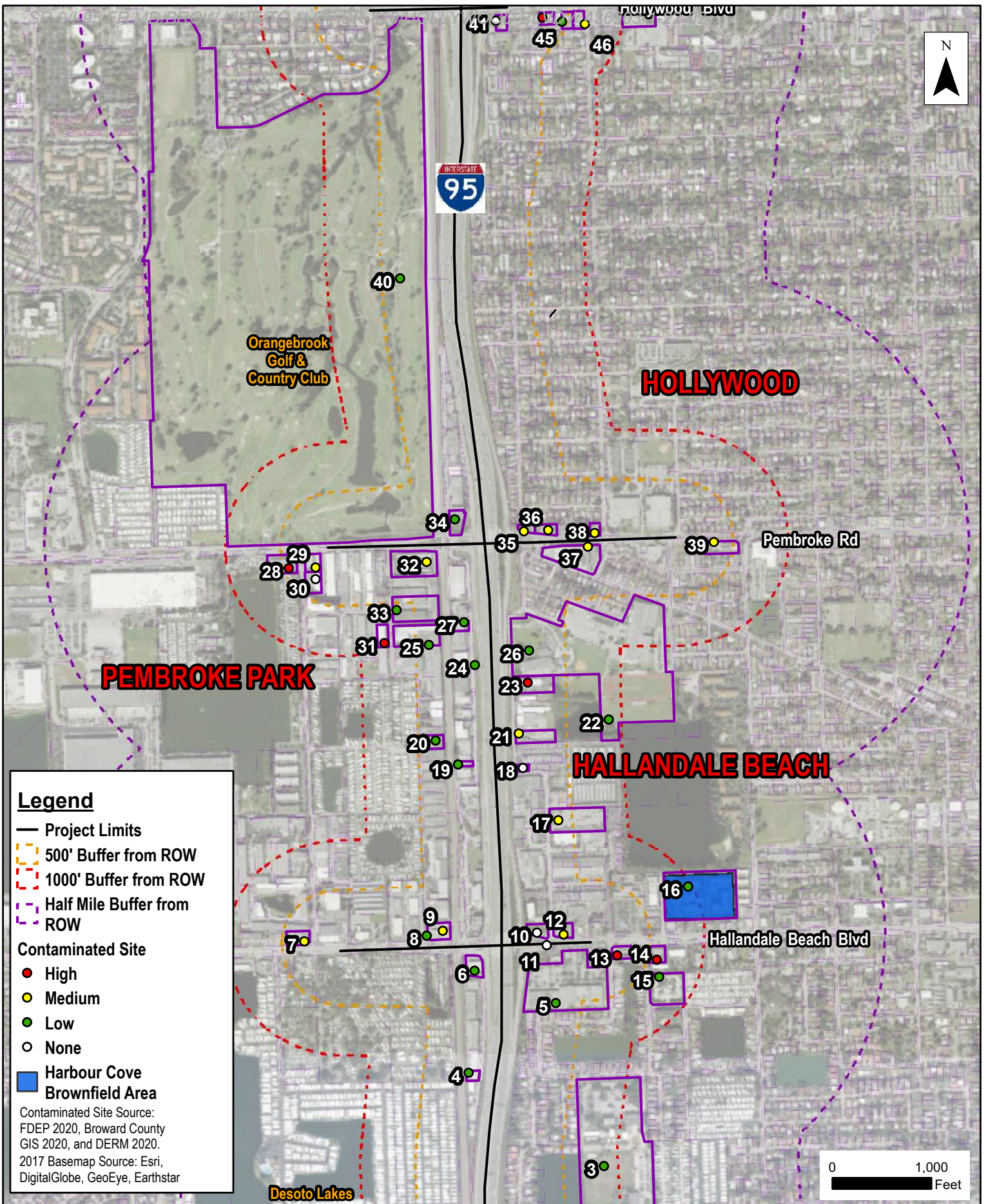
SR-91/95 from S of SR-858/Hallandale Beach Blvd. to N of SR-820/Hollywood Blvd. PD&E Study  
 Broward County

Contaminated Site Map

Figure 7.1a

Date Prepared: 08/03/2021





**Legend**

- Project Limits
- 500' Buffer from ROW
- 1000' Buffer from ROW
- Half Mile Buffer from ROW

**Contaminated Site**

- High
- Medium
- Low
- None

**Harbour Cove Brownfield Area**

Contaminated Site Source:  
 FDEP 2020, Broward County  
 GIS 2020, and DERM 2020.  
 2017 Basemap Source: Esri,  
 DigitalGlobe, GeoEye, Earthstar



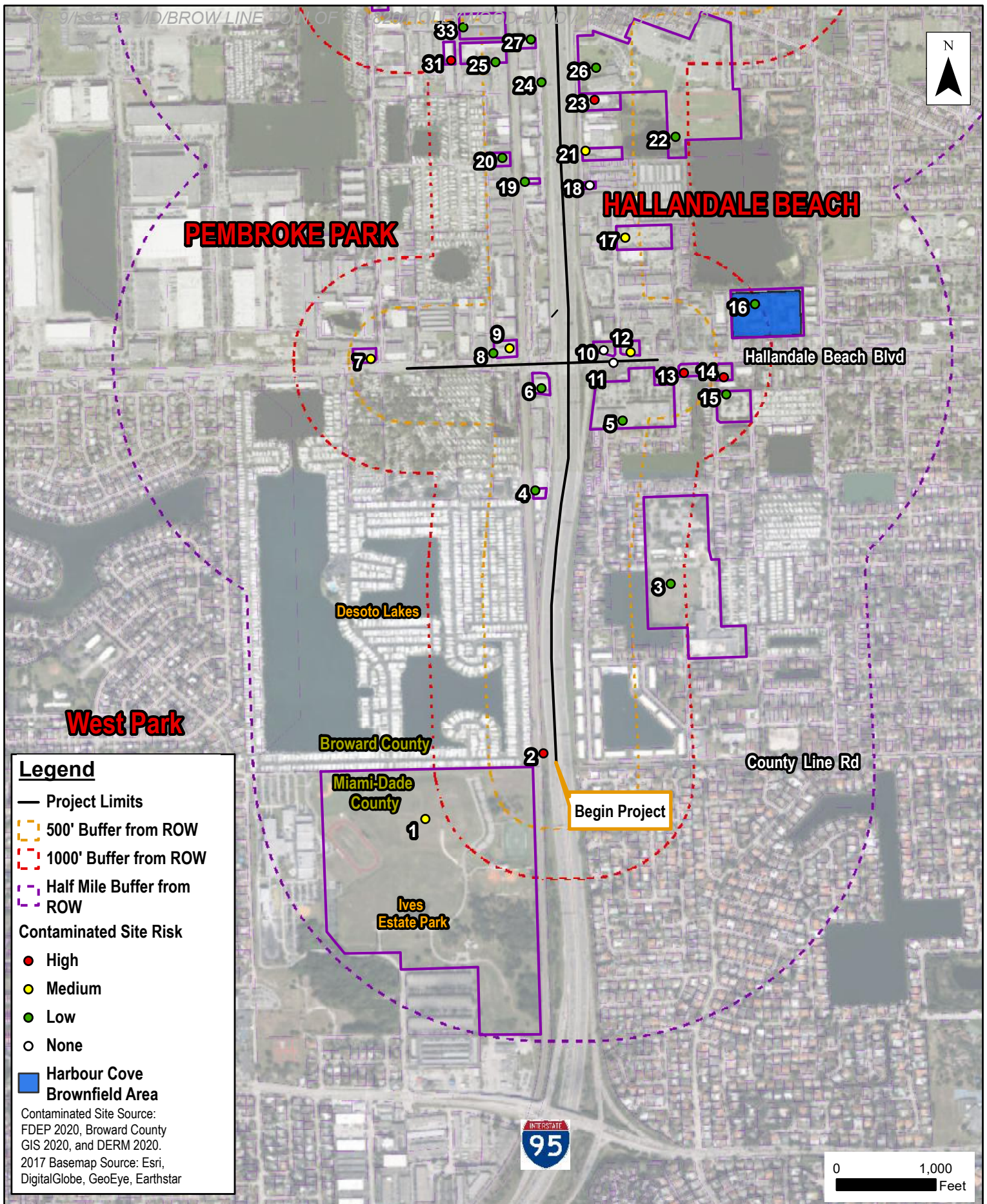
SR-91/95 from S of SR-858/Hallandale Beach Blvd.  
 to N of SR-820/Hollywood Blvd. PD&E Study  
 Broward County

Contaminated  
 Site Map

Figure 7.1b

Date Prepared: 08/03/2021





SR-91/95 from S of SR-858/Hallandale Beach Blvd.  
 to N of SR-820/Hollywood Blvd. PD&E Study  
 Broward County

Contaminated  
 Site Map

Figure 7.1c

Date Prepared: 08/03/2021