

American with Disability Act (ADA) Transition Plan



City of Hallandale Beach, Florida

March 8, 2018

**Eric L. Houston AICP, LEED Green Associate
City Transportation & Mobility Planner
City of Hallandale Beach
400 South Federal Hwy, Hallandale Beach, FL 33009**

I. Introduction

The American with Disabilities Act (ADA) of 1990 is a civil rights statute (herein after referred to as the ACT) that prohibits discrimination against people who have disabilities. There are five separate Titles (sections) of the Act relating to different aspects of potential discrimination. Title II of the Act specifically addresses the subject of making public services and public transportation accessible to those with disabilities. With the advent of the Act, designing and constructing facilities for public use that are not accessible by people with disabilities constitutes discrimination.

The Act applies to all facilities, including both facilities built before and after 1990. As a necessary step to meet the requirements of the Act and to provide accessibility under ADA, state and local governments, public entities or agencies are required to perform self-evaluations of their current facilities (and infrastructure) to determine compliance with the accessibility standards of ADA. The agencies are then required to develop a Program Access Plan, which can also be called a Transition Plan, to address any deficiencies. The Transition Plan is intended to achieve the following:

1. A list of obstacles to ADA compliance and the procedure for removing and/or accommodating these obstacles,
2. A list of structural modifications that are needed,
3. The timeline when these changes will be accomplished,
4. Estimated costs of each change outlined in the plan,
5. Identify the public officials responsible for implementation of the Transition Plan.

The Transition Plan is required to be updated periodically until all accessibility barriers are removed.

This Transition Plan describes the process by which facilities are being evaluated and prioritized for accessibility improvements and establishes initial budget to initiate improvements based on the priority criteria. Evaluation of facilities to determine the next phase of scheduled construction activities for scheduling and budgeting of phased improvements will be conducted annually during the annual update of the Transition Plan.

II. New Construction and Renovations

New Construction and renovations are done to meet both Florida and Federal standards for disability access. Capital Improvements Projects (CIP) designs and construction shall incorporate up-to-date standards to bring areas under construction to current ADA standards. City Standards Details are updated annually and verified to comply with latest ADA standards.

III. Maintenance Program

Sidewalks, curb ramps, detectable warnings, intersections, crossing, signs, landscape materials and accessible pedestrian signals shall be inspected at last every three years for compliance and ensure they do not constitute hazards to the public. Sidewalk and ramp replacement and upgrades were completed in several locations through-out the city.

IV. Steps to Compliance

The City continues to complete the self-evaluation activities and to upgrade facilities on an annual basis.

Funding is budgeted to upgrade facilities including sidewalks, ramps and facility access. In fiscal year 2018, \$1,334,323 was allocated towards ADA upgrades and additional improvements were funded to bring NE 14th Ave into ADA compliance. An annual sidewalk gap program is also underway to provide continuation and connection of sidewalk facilities to further enhance ADA accessibility. The proposed fiscal year 2020 budget includes \$100,000 in ADA upgrades to sidewalks and other facilities with an estimated \$100,000 per year in future years.

In addition to the specific appropriation for ADA, \$713,766 is included to retrofit Atlantic Shores Blvd including ADA compliance upgrades and the Old Federal Highway roadway improvement project is scheduled to be completed to upgrade road and pedestrian facilities. Further, a \$15 billion dollar 1-cent sales tax increase was approved by voters on the November 2018 ballot for road improvements including upgrading of ADA facilities within Broward County. Compliance continues to be an important priority to the City.

V. Public Outreach Program

Outreach activities are outlined in Title VI and ADA Plan. An important part of this outreach is naming Jenorgen Guillen as the ADA Safety Coordinator and providing publication of the documents with clear procedures to obtain public input regarding needs of the community. Capital projects are presented annually in the budget capital improvement workshops and opportunities for public input are available at all City Commission meetings and workshops.

VI. Complaint Procedure

The complaint procedure is clearly outlined in the Title VI and ADA Plan and published through a variety of public media's including the City of Hallandale Beach website. Further information regarding complaint procedures or to submit a written complaint, please contact:

Hallandale Beach Transportation and Mobility Division

Attention: Transportation and Mobility Planner

400 South Federal Highway

Hallandale Beach, FL 33009

Telephone: 954-457-3039

VII. Self-Evaluation of Facilities

The City has completed self-evaluation on most facilities and continues to examine and evaluate remaining facilities to inventory and schedule required upgrades. Many facilities have already been upgraded to comply with ADA requirements. Facility self-evaluations have been completed as follows:

ADA Transition Plan

Part 1. – City Parks

The City of Hallandale Beach, Florida has evaluated its parks to determine whether parks and park facilities are accessible in accordance with Americans with Disabilities Act standards. This self-evaluation has resulted in a Transition Plan to bring all parks into compliance. The City currently has 18 parks that it operates and maintains. The City's Capital Improvement Program identifies plans to construct or renovate various parks. The Transition Plan evaluates the following design features:

- parking facilities for number and design of accessible parking spaces;
- site access points;
- access to site amenities such as restrooms, picnic areas, playgrounds, shelters, etc.;
- accessibility of facilities for various recreation programs.

Summary of this self-evaluation of parks facilities:

Part 1. – City-maintained Parks

1. City Marina – needs further evaluation
2. Joseph Scavo Park – Complaint
3. Sunrise Park – needs further evaluation
4. Foster Park – Complaint
5. B. F. James Park – Complaint
6. Oreste Blake Johnson Park – Complaint
7. Chaves Lake Park – non compliant closed to public
8. Ingalls Park – undergoing renovations
9. Sunset Park – scheduled for renovation FY19
10. Historic Village – scheduled for renovation FY20
11. Hallandale Adult Community Center Fields – needs further evaluation
12. Peter Bluesten Park – undergoing renovations
13. Cultural Center – Complaint
14. Golden Isles Park – scheduled for renovation FY16
15. Golden Isles Tennis Complex & Dog Park – scheduled for renovation FY19
16. North Beach Park – Complaint
17. South Beach Park – Complaint
18. Historic School House – Complaint

Part 2. – Facilities

The City of Hallandale Beach, Florida has evaluated its government facilities to determine whether buildings are accessible in accordance with Americans with Disabilities Act standards. This self-evaluation has resulted in a Transition Plan to bring all facilities into compliance. The City currently has 5 facilities with access to the public. The City's Capital Improvement Program identifies plans to construct or renovate various facilities. The Transition Plan evaluates the following design features:

- parking facilities for number and design of accessible parking spaces;
- site access points and building entries;
- access to facilities such as restrooms, meeting rooms, service desks, elevators, etc.;
- adequacy of various forms of communications to meet the needs of those with disabilities.

The summary of this self-evaluation of City facilities:

List of City Facilities*

1. City Hall Complex (400 S. Federal Highway.) – Building is compliant
2. Fire Station #7 (111 Foster Road) – Building is compliant
3. Fire Station #90 (101 Three Islands Boulevard) – needs further evaluation
4. Fire Station #60 (2801 E Hallandale Beach Blvd) – needs further evaluation
5. Public Works Compound Maintenance Yard (221 S. Seaboard Ave) – new facility planned.

Part 3. – Sidewalks

The City of Hallandale Beach, Florida has evaluated its sidewalk facilities to determine whether existing sidewalks are in compliance with the Americans with Disabilities Act standards. This self-evaluation has resulted in a Transition Plan to bring all sidewalks into compliance. The City currently has 61 miles where there are existing sidewalks. There are 50 miles of missing sidewalks within the city. Some of the streets within the City are operated and maintained by Broward County or FDOT and are not part of the City's Transition Plan (see list below). The City has identified a number of locations in the Capital Improvement Plan where it is proposed to install new sidewalks.

The Transition Plan evaluates curb ramps at the following locations:

1. where curb ramps do not exist rendering the sidewalk inaccessible;
2. where existing curb ramps do not comply with current standards and require renovation;
3. where future sidewalk projects are planned.

The Transition Plan evaluates the following design features:

1. proper detectable surface;
2. not exceeding allowable longitudinal or cross slopes except where existing conditions do not prohibit modification;
3. proper transitions between the curb ramps and adjacent surfaces except where existing conditions prohibit modification.

The City's commitment to accessibility in the sidewalk system includes:

1. All new sidewalk construction to be completed in accordance with current accessibility standards.
2. All non-compliant curb ramps to be corrected at the time of road resurfacing or reconstruction unless existing conditions prohibit meeting the required standards. In cases where existing condition prohibit modification, available measures to improve compliance will be completed.
3. Subject to annual budget allocations, allotting at least \$20,000 per year to upgrade curb ramps until such time as the City's sidewalks are fully ADA compliant.
4. Prioritizing curb ramp construction using the following guidelines:
 - a. Feedback from disabled residents,
 - b. Access to government facilities and offices,
 - c. Access to places of public accommodation,
 - d. Access to public transit
 - e. Enhancing safety in areas of significant pedestrian use,
 - f. Construct missing curb ramps,
 - g. Upgrade non-complaint curb ramps.
5. A mechanism for public involvement in the process.

A full inventory of existing road and sidewalk condition was completed in FY15. See Attachment 1: Hallandale Beach Basis of Design Report (BODR Sheets) for the Existing Sidewalk ADA Inventory for self-evaluation of existing sidewalks and ADA ramps.

Other agencies have also committed to improving accessibility of sidewalks and public transit stops within the City limits as follows:

1. Florida Department of Transportation (FDOT) is currently evaluating and updating bus stops to upgrade accessibility.
 - a. Two new bus shelters were installed in FY17 and four additional shelters were installed during FY18 along US-1, Hallandale Beach Boulevard, and NE 14th Ave.
 - b. FDOT
2. Florida Department of Transportation (FDOT) - provided ADA improvements to Pembroke Road in FY16, A1A in FY17, and Hallandale Beach Boulevard in FY18.

The following streets within the city limits are under the control of agencies other than the City of Hallandale Beach and responsibility for an ADA Transition Plan lies with those agencies.

Broward County operated and maintained streets within the City Limits:

1. Old Dixie Highway/ NE 1st Ave

FDOT operated and maintained streets within the City Limits:

1. US-1, South Federal Highway
2. Hallandale Beach Boulevard
3. Pembroke Road

4. A1A, South Ocean Drive

VIII. Schedule for Completion:

Funding is allocated on an annual basis and alternate funding sources such as road construction revenue and various granting programs are utilized to upgrade and increase the number of ADA accessible facilities. Fiscal Year 2019, the city is focusing efforts on upgrading ADA sidewalk and crossing and the continued evaluation of existing facilities. Completion of all required ADA upgrades and improvements is a high priority of the City and continues to move forward. Fiscal Year 2018 included many upgrades including renovation of Ingalls and Peter Bluesten Parks (continuing), initiation of construction on Old Federal Highway, and additional ADA accessible sidewalks at NE 1st Street, Foster Road, NE 14th Ave, Atlantic Shores, and Three Islands Boulevard among other locations.

Estimated Cost and Proposed Phasing Implementation Dates:

Phase 2 (NW Section) **2020-2023**
Sidewalk Construction - \$845,033
Roadway Construction - \$6,500,158
Parks and Facilities – all locations – price TBD

Phase 5 (SE Section) **2035-2038**
Sidewalk Construction - \$881,393
Roadway Construction - \$4,373,862

Phase 6 (NW Section) **2023-2026**
Sidewalk Construction - \$564,880
Roadway Construction - \$4,710,071

Phase 10 (NW Section) **2038-2041**
Sidewalk Construction - \$423,402
Roadway Construction - \$1,447,031

Phase 1 (SW Section) **2026-2029**
Sidewalk Construction - \$1,732,541
Roadway Construction - \$11,274,629

Phase 7 (SW Section) **2041-2044**
Sidewalk Construction - \$659,647
Roadway Construction - \$4,719,102

Phase 4 (NE Section) **2029-2032**
Sidewalk Construction - \$913,094
Roadway Construction - \$4,178,416

Phase 9 (NE Section) **2044-2047**
Sidewalk Construction - \$37,612
Roadway Construction - \$1,193,915

Phase 8 (NE Section) **2032-2035**
Sidewalk Construction - \$381,404
Roadway Construction - \$2,664,402

Phase 3 (SE Section) **2047-2050**
Sidewalk Construction - \$1,486,873
Roadway Construction - \$4,113,444

Attachment 1:

BODR Sheets

A complete photometric study should be performed in order to insure that all Rights-of-Way are properly lit and determine the required light pole spacing as described in current code. Florida Power and Light (FPL) offers pole and lamp options for municipalities to install within public Rights-of-Way. Below is the City chosen premium lighting option available through the FPL program.

	6	Holophane	Acorn - Painted Top	Black	Granville	100w	7,065	5,000k	B2-U4-G4	502070PP5
	6	Holophane	Acorn - Painted Top	Black	Granville	80w	6,675	5,000k	B2-U3-G4	502078PP3



Washington



6

Pole Height	18.5'
Fixture Height	14.5'

SIDEWALKS

a. Introduction

There is approximately sixty-one (61) miles of concrete sidewalk in place and approximately fifty (50) miles of missing sidewalk within City of Hallandale Beach maintained Right-of-Way. The existing sidewalks vary in width from four-feet (4') to five-feet (5'). Per City of Hallandale Beach Design Guidelines, a minimum five-foot (5') sidewalk shall be provided along any street Right-of-Way or on private property by easement dedication if the Right-of-Way is insufficient in width.

CTA performed a detailed inventory of all sidewalk infrastructures within City maintained Rights-of-Way. This also included identification of existing ADA ramp locations and determination whether they are in compliance with Florida Department of Transportation (FDOT) standards. The intent of our effort is to provide an inventory of existing sidewalks in need of replacement and areas in need of new sidewalks so City staff can easily identify areas in need.

b. Scope of Services

With regards to sidewalks, CTA's scope of services is as follows:

- Document present standards.
- Discuss with City if sidewalks should be provided on both sides or on one side.
- Establish areas where physical constraints limit the ability to meet standards.
- Review sidewalk conditions to determine areas that need to be rebuilt or replaced.
- Identify locations of existing ADA ramps and identify if the existing ramps were in compliance based on visual inspection only.
- Review existing crosswalks on Hallandale Beach Boulevard, Dixie Highway, and Federal Highway for compatibility and condition.
- Develop improvement recommendations.

c. Existing Sidewalk Facilities

Concrete sidewalks currently exist on either side of the City maintained Rights-of-Way. In general, the existing sidewalks vary in width from four-feet (4') to five-feet (5').

There is an extensive number of missing sidewalks, approximately 255,091 linear feet. At various locations throughout the City Right-of-Way, existing shade trees have uprooted and damaged sidewalks at thirty-six (36) locations. Also, there is approximately 2,124 linear feet of damaged sidewalks that are in need of replacement. See **Figure VI-4** for Sidewalk Inventory.



Existing Damaged Sidewalk



New Sidewalk

d. ADA Access Ramps

A total of 490 ADA access ramps are missing, along with ninety-seven (97) ramps in need of replacement due to damage or deficient slopes/widths. Also, there are 212 existing ramps with stamped truncated domes not meeting current FDOT Standards along with 241 ramps missing truncated domes. See **Figure VI-5** for ADA Ramp Conditions.

e. Recommended Improvements

It is recommended that new and re-placement sidewalks are constructed four-inches (4") thick with a minimum width of five-feet (5'). Within RAC Districts, sidewalk width of eight-feet (8') to ten-feet (10') is recommended. Sidewalks installed through driveways or subject to vehicular traffic shall be minimum six-inches (6") thick. The sidewalks should be installed within the public Right-of-Way, with the back edge of the sidewalk located at the property line. Also, the installation of bio-barrier is recommended adjacent to existing shade trees and new sidewalks.

Table VI-3 and **Figure VI-6** illustrate the recommended sidewalk improvements.

Table VI-3: Summary of Recommended Sidewalk Improvements

Repair Category	Unit	Quantity
Replace Damaged Sidewalk	LF	2,124
Install New Sidewalk	LF	255,091
Replace ADA Ramps Damaged or with Deficiencies	EA	97
Install New ADA Ramp (490 + 97)	EA	587
Install New Truncated Domes at ADA Ramps (212+241)	EA	453

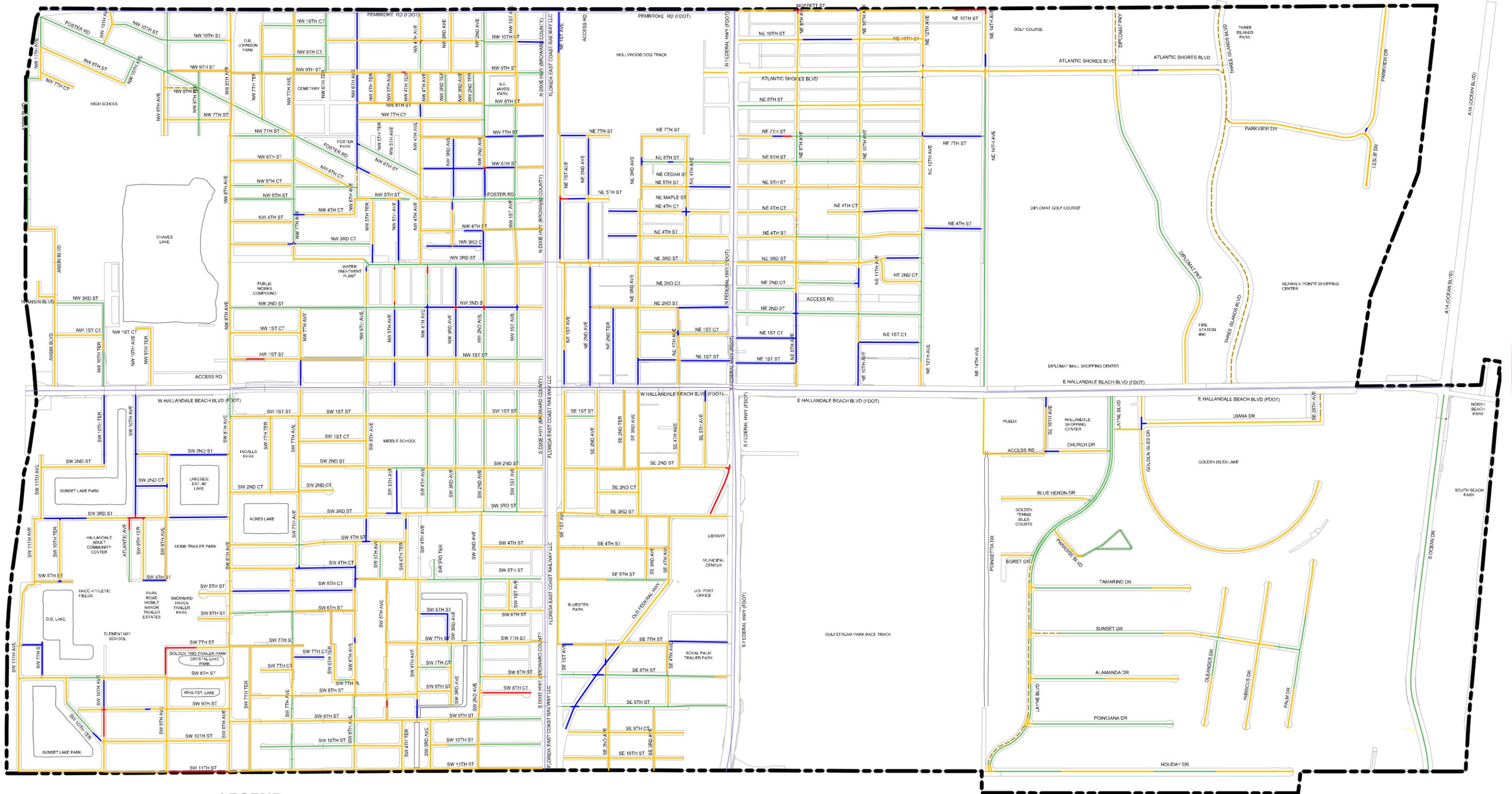
Per City of Hallandale Beach Design Guidelines, sidewalks should be provided along any street Right-of-Way or on private property by easement dedication if the Right-of-Way is insufficient

in width. Sidewalk installation on both sides of the Right-of-Way should be evaluated where physical constraints exist such as landscaping, power poles, decorative features/fences, ninety-degree (90°) back-out parking, etc. Also, in some of residential areas where sidewalk is missing, there may be locations where the character of the corridor may be such that residents are not in favor of new sidewalk construction. At a minimum, CTA recommends that sidewalks be provided on one side of the Right-of-Way to properly allow for the flow of pedestrian traffic along any given Right-of-Way. City staff should coordinate with and notify affected residents through workshops or neighborhood association meetings. It is highly discouraged to provide a sidewalk in locations adjacent to ninety-degree (90°) back-out parking that exists throughout the City.

Utility poles exist at various locations throughout the City and are generally located two-feet (2') to three-feet (3') inside the Right-of-Way. The American with Disabilities Act (ADA) requires a minimum three-foot (3') wide clearance along any accessible route. Therefore, relocation of these poles may be necessary to allow for the minimum required clearance of three-feet (3') along the sidewalk. However, if the relocation of the utility pole is not an option, the sidewalk may be rerouted to circumvent the pole and allow proper access width. This option would potentially require an easement or Right-of-Way dedicated from the adjacent property owner. If the sidewalk could be relocated towards the roadway to avoid the pole, the insulation of curb & gutter and drainage may be required to accommodate the sidewalk adjacent to edge of pavement.

Prioritization of new sidewalk construction and existing sidewalk replacement should be focused on critical pedestrian facilities, including the identification of safe routes to schools, corridors near assisted living facilities, and the blocks adjacent to commercial centers such as the Downtown, Federal Highway, Hallandale Beach Boulevard, Pembroke Road, and Dixie Highway corridors.

Under this BODR, an assessment of infrastructure has identified critical needs in roadway improvements, water, wastewater, stormwater, and landscaping. Non-critical pedestrian corridors can be addressed in concert with other infrastructure projects to reduce the economic impact of the infrastructure improvements; however, individual sidewalk, crosswalk and access ramp projects can be performed as standalone projects dependent on funding. This inventory can be used to determine the overlap with other planned construction projects in the non-critical corridors, and then Staff can subsequently identify the remaining locations where critical repairs to pedestrian facilities will need to be addressed with maintenance or grant funds.



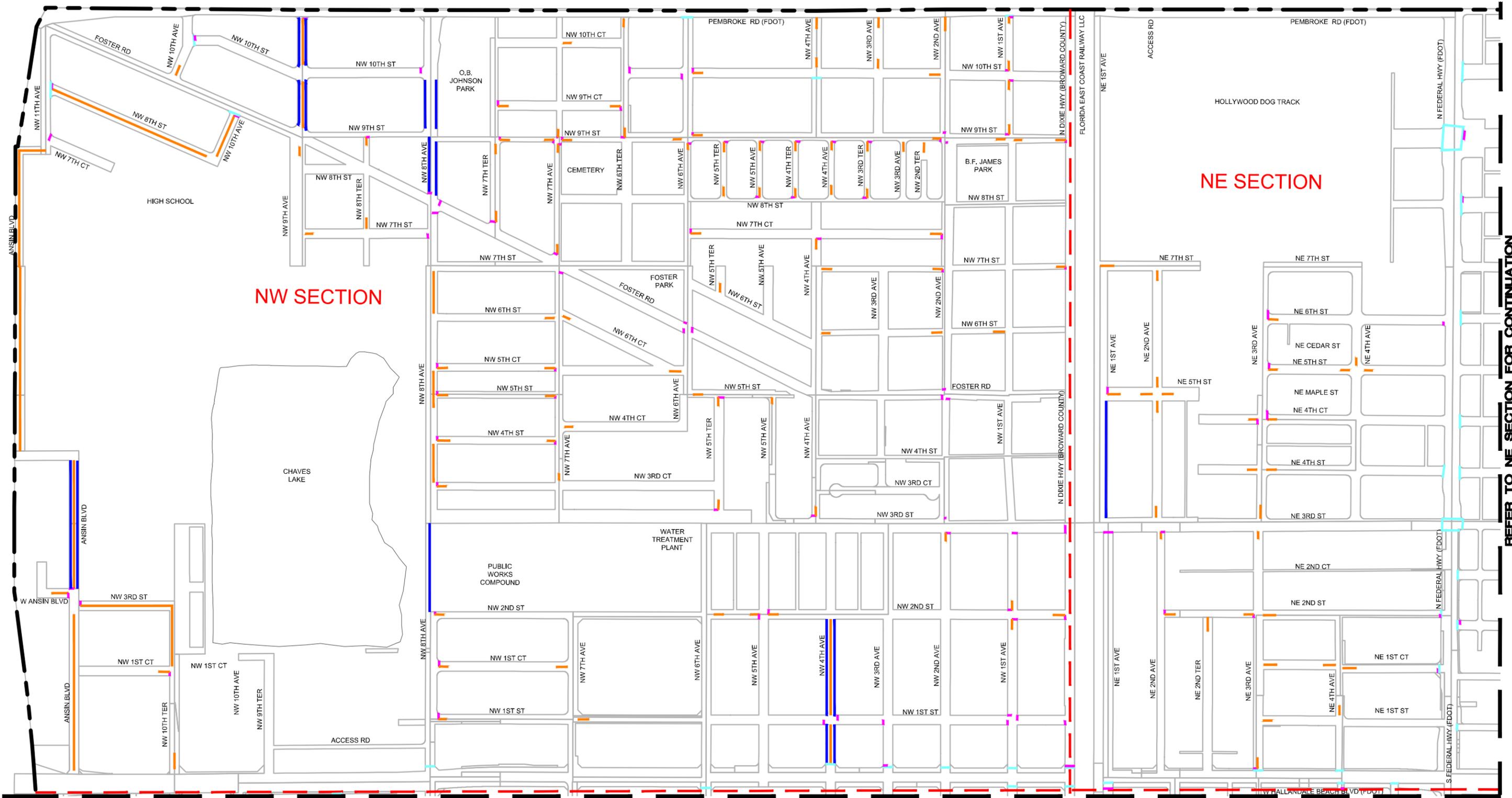
LEGEND

	PAVEMENT CONDITION: EXCELLENT
	PAVEMENT CONDITION: VERY GOOD
	PAVEMENT CONDITION: GOOD
	PAVEMENT CONDITION: FAIR
	PAVEMENT CONDITION: POOR
	STATE OR COUNTY JURISDICTION
	HALLANDALE BEACH CITY LIMITS



KEY MAP

1	2
3	4



NW SECTION

NE SECTION

REFER TO NE SECTION FOR CONTINUATION

REFER TO SW SECTION FOR CONTINUATION

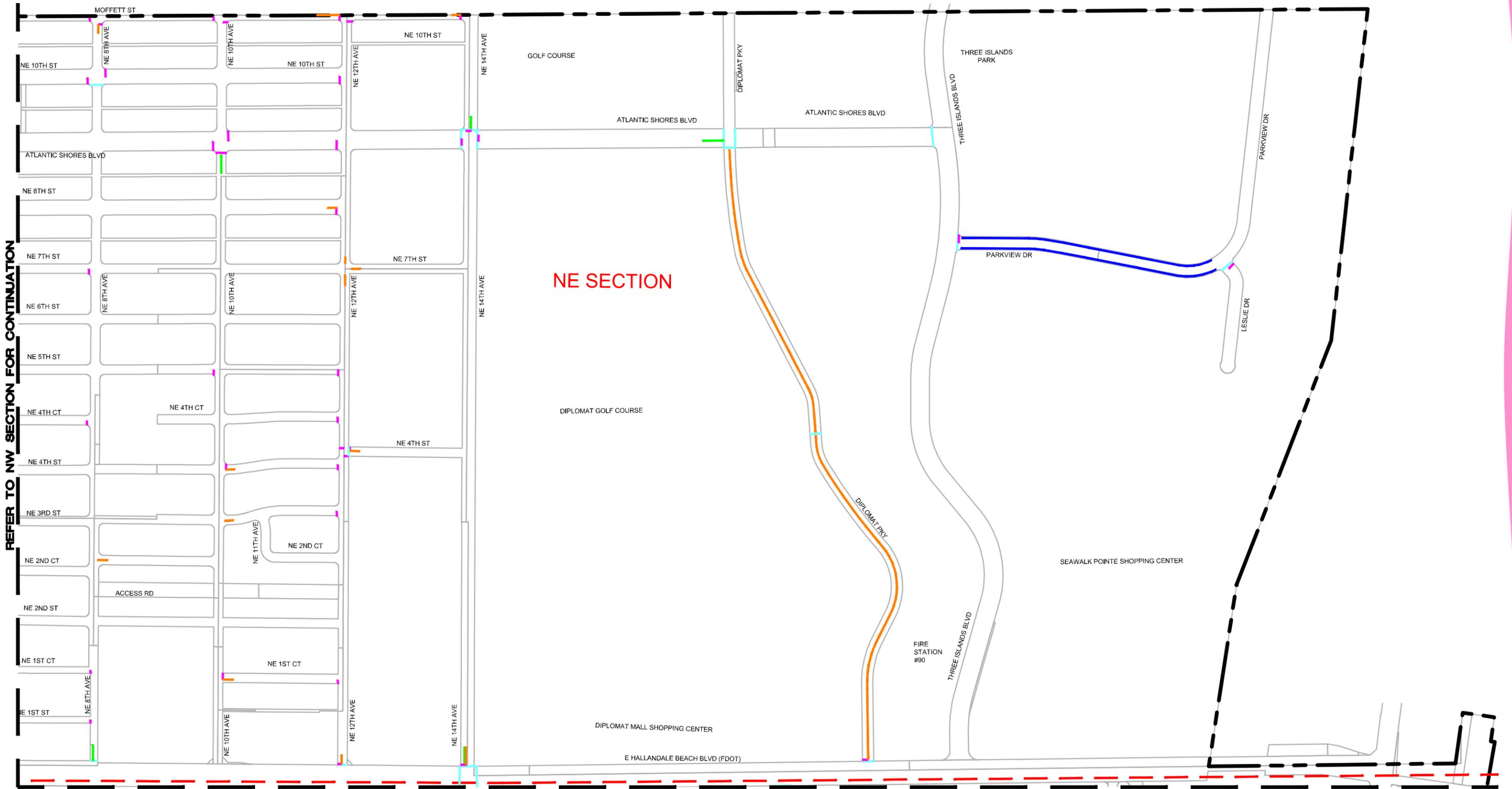
LEGEND

	STOP-BAR STRIPING NEEDS REPLACEMENT
	DOUBLE YELLOW STRIPING NEEDS REPLACEMENT
	SOLID WHITE EDGE LINE NEEDS REPLACEMENT
	TURN ARROW NEEDS REPLACEMENT
	SOLID WHITE CROSS WALK NEEDS REPLACEMENT
	HALLANDALE BEACH CITY LIMITS



KEY MAP

1	2
3	4



REFER TO NW SECTION FOR CONTINUATION

NE SECTION

REFER TO SE SECTION FOR CONTINUATION

LEGEND

- STOP-BAR STRIPING NEEDS REPLACEMENT
- DOUBLE YELLOW STRIPING NEEDS REPLACEMENT
- SOLID WHITE EDGE LINE NEEDS REPLACEMENT
- TURN ARROW NEEDS REPLACEMENT
- SOLID WHITE CROSS WALK NEEDS REPLACEMENT
- HALLANDALE BEACH CITY LIMITS



KEY MAP	
1	2
3	4

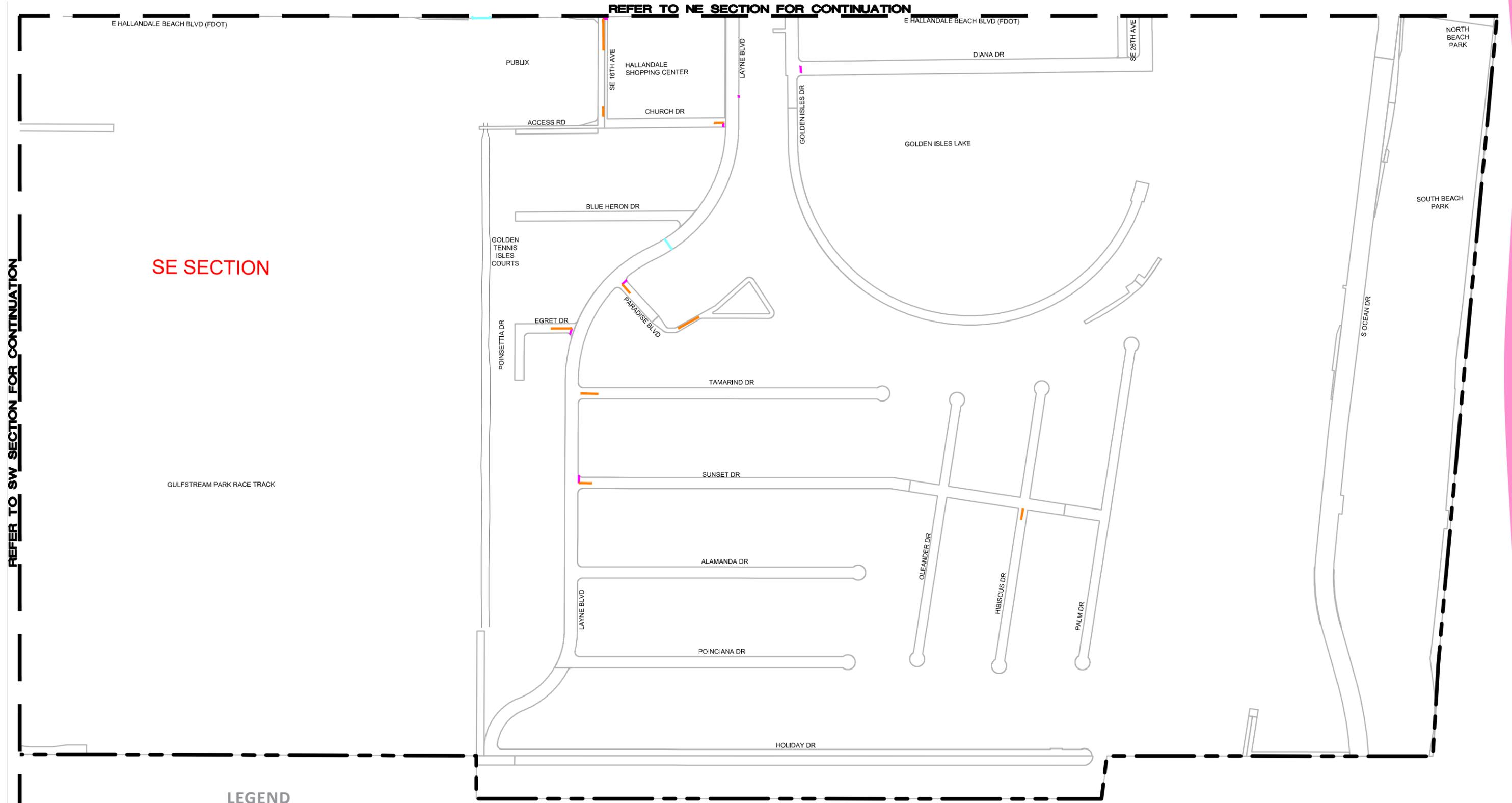


LEGEND

	STOP-BAR STRIPING NEEDS REPLACEMENT
	DOUBLE YELLOW STRIPING NEEDS REPLACEMENT
	SOLID WHITE EDGE LINE NEEDS REPLACEMENT
	TURN ARROW NEEDS REPLACEMENT
	SOLID WHITE CROSS WALK NEEDS REPLACEMENT
	HALLANDALE BEACH CITY LIMITS



KEY MAP	
1	2
3	4



REFER TO SW SECTION FOR CONTINUATION

REFER TO NE SECTION FOR CONTINUATION

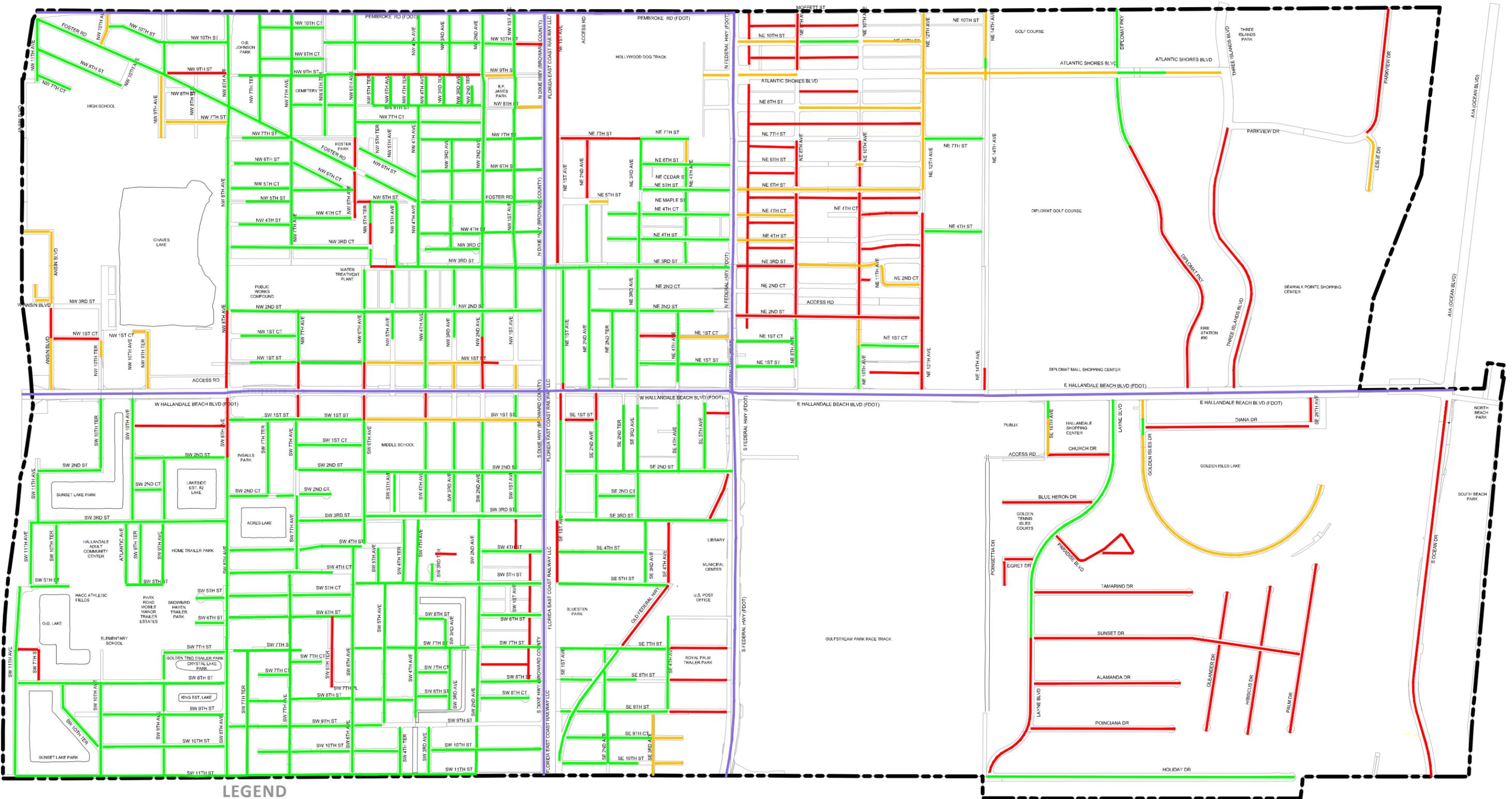
SE SECTION

LEGEND

	STOP-BAR STRIPING NEEDS REPLACEMENT
	DOUBLE YELLOW STRIPING NEEDS REPLACEMENT
	SOLID WHITE EDGE LINE NEEDS REPLACEMENT
	TURN ARROW NEEDS REPLACEMENT
	SOLID WHITE CROSS WALK NEEDS REPLACEMENT
	HALLANDALE BEACH CITY LIMITS



KEY MAP	
1	2
3	4

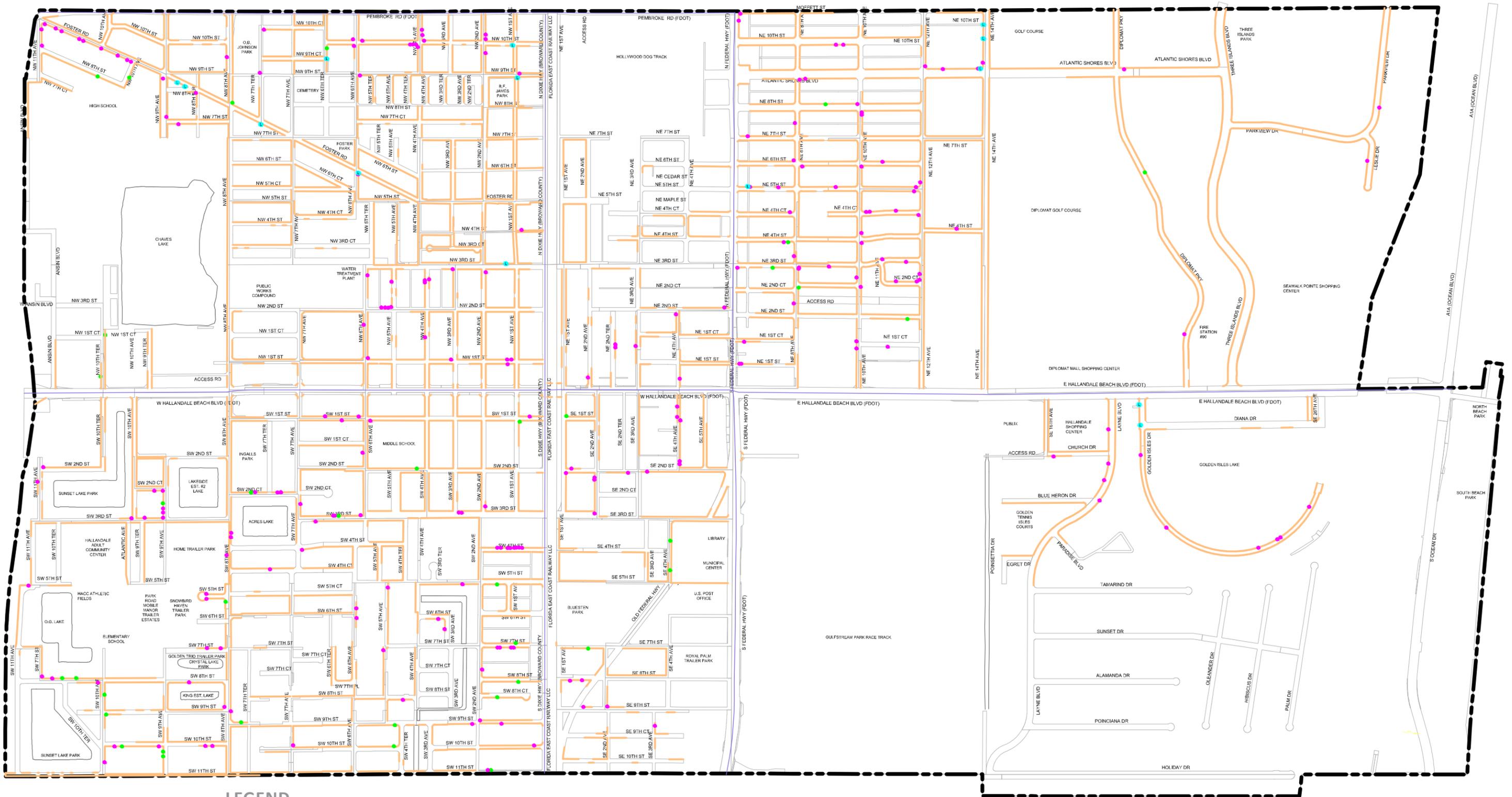


LEGEND

- PAVEMENT RECONSTRUCTION
- PAVEMENT RESTORATION
- PAVEMENT MILL AND RESURFACE
- STATE OR COUNTY JURISDICTION
- HALLANDALE BEACH CITY LIMITS



KEY MAP	
1	2
3	4



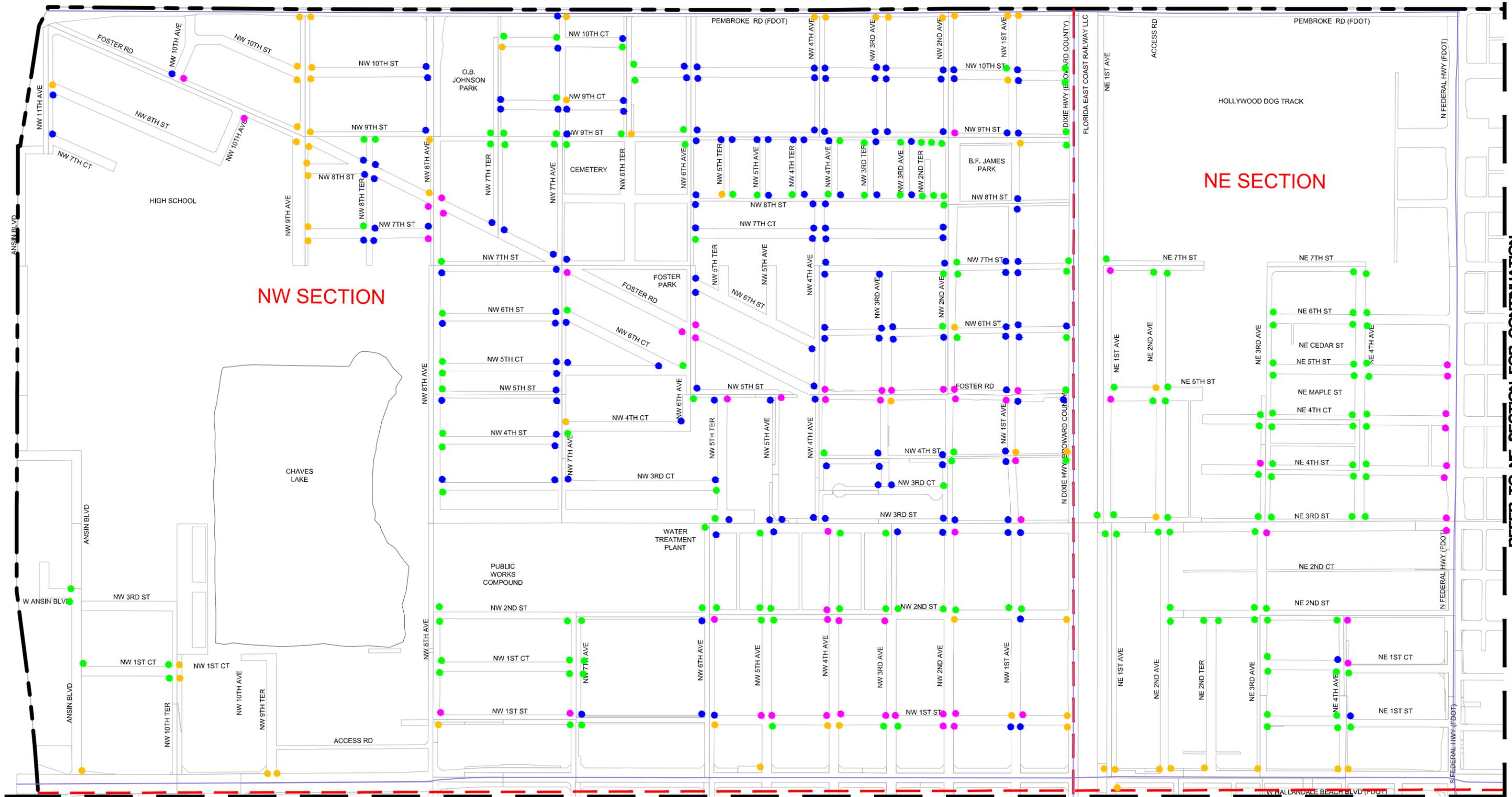
LEGEND

	EXISTING SIDEWALK
	SIDEWALK DAMAGED
	SIDEWALK DAMAGED BY TREE
	SIDEWALK OBSTRUCTED BY LIGHT POLE
	STATE OR COUNTY JURISDICTION
	HALLANDALE BEACH CITY LIMITS



KEY MAP

1	2
3	4



NW SECTION

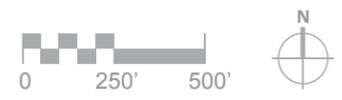
NE SECTION

REFER TO NE SECTION FOR CONTINUATION

REFER TO SW SECTION FOR CONTINUATION

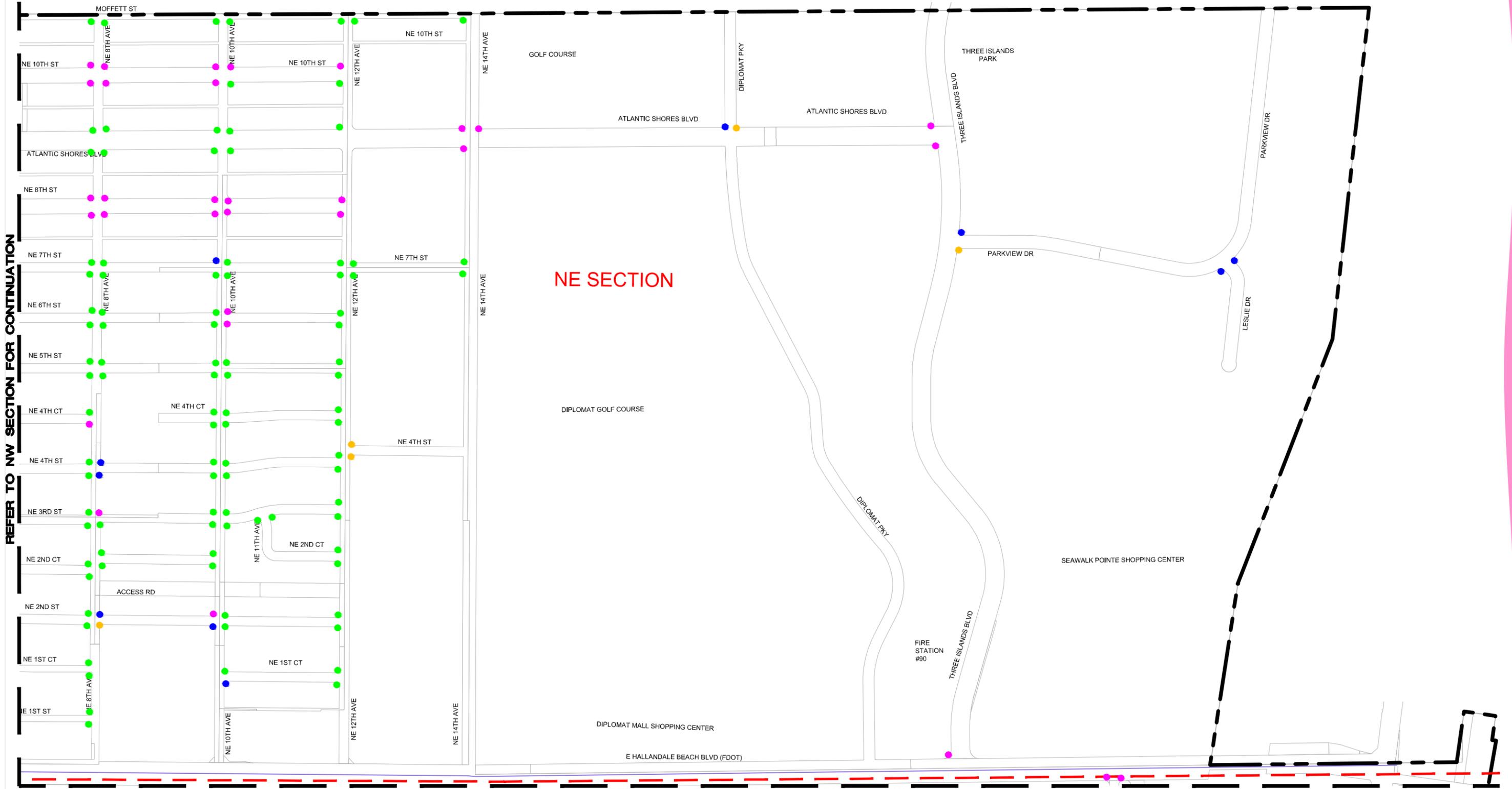
LEGEND

- MISSING RAMP
- MISSING TRUNCATED DOME
- RAMP WITH DEFICIENT SLOPE AND WIDTH OR DAMAGED
- RAMP WITH STAMPED TRUNCATED DOME
- STATE OR COUNTY JURISDICTION
- HALLANDALE BEACH CITY LIMITS



KEY MAP

1	2
3	4



REFER TO NW SECTION FOR CONTINUATION

NE SECTION

REFER TO SE SECTION FOR CONTINUATION

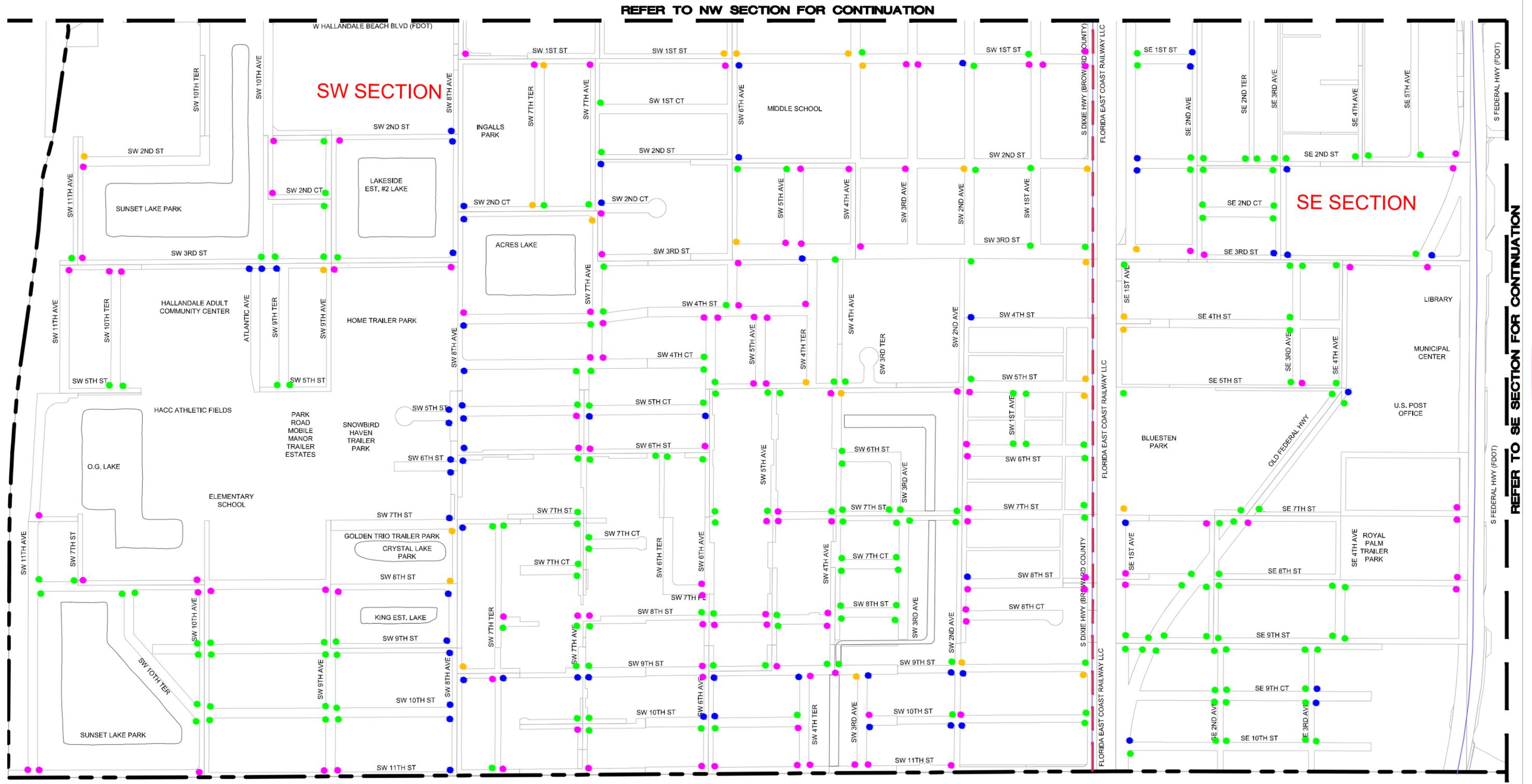
LEGEND

- MISSING RAMP
- MISSING TRUNCATED DOME
- RAMP WITH DEFICIENT SLOPE AND WIDTH OR DAMAGED
- RAMP WITH STAMPED TRUNCATED DOME
- STATE OR COUNTY JURISDICTION
- HALLANDALE BEACH CITY LIMITS



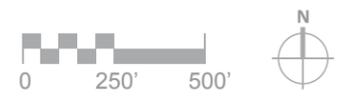
KEY MAP	
1	2
3	4

FIGURE VI-5 • SW SECTION

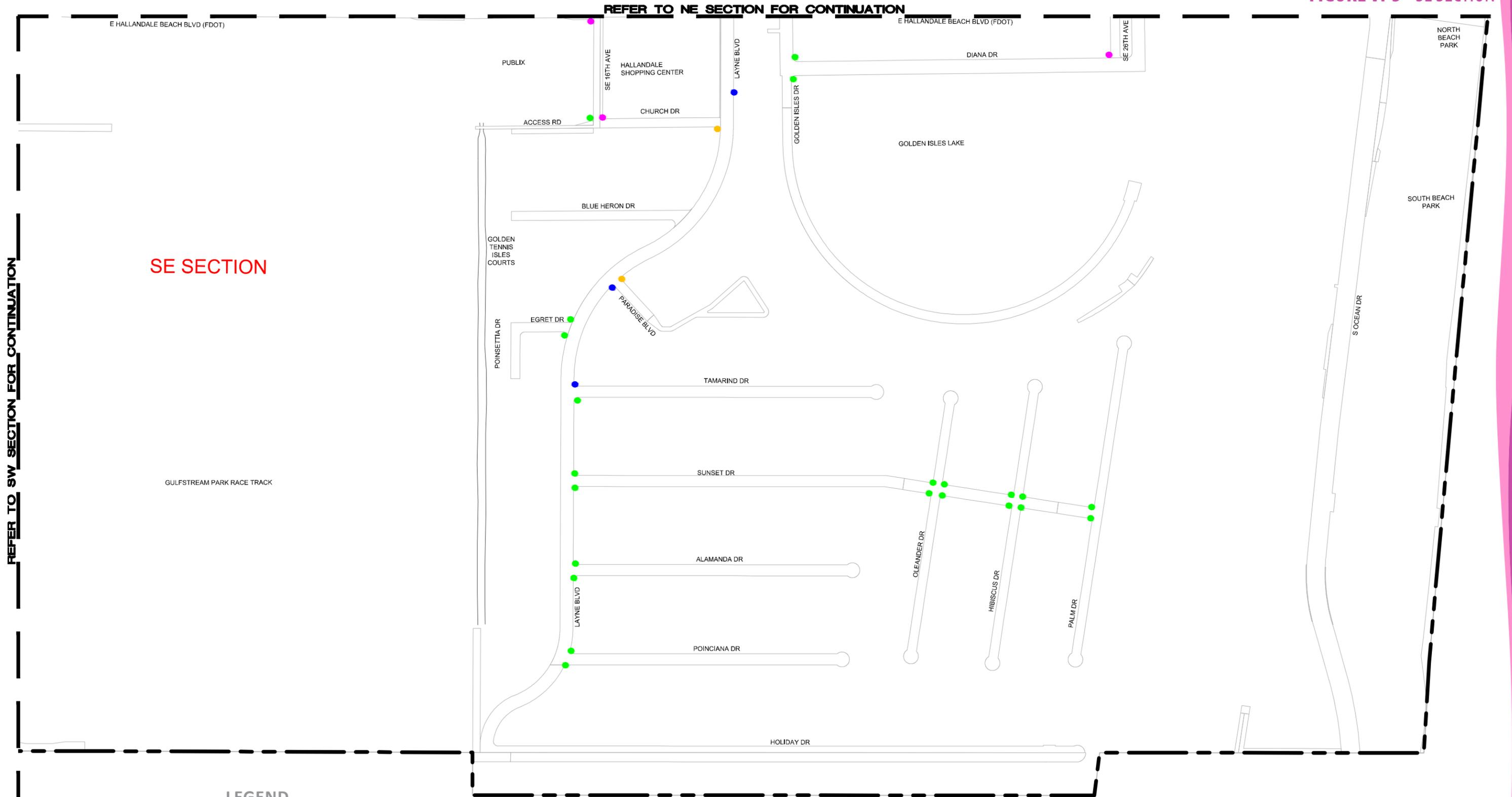


LEGEND

●	MISSING RAMP
●	MISSING TRUNCATED DOME
●	RAMP WITH DEFICIENT SLOPE AND WIDTH OR DAMAGED
●	RAMP WITH STAMPED TRUNCATED DOME
	STATE OR COUNTY JURISDICTION
	HALLANDALE BEACH CITY LIMITS



KEY MAP	
1	2
3	4



REFER TO SW SECTION FOR CONTINUATION

REFER TO NE SECTION FOR CONTINUATION

SE SECTION

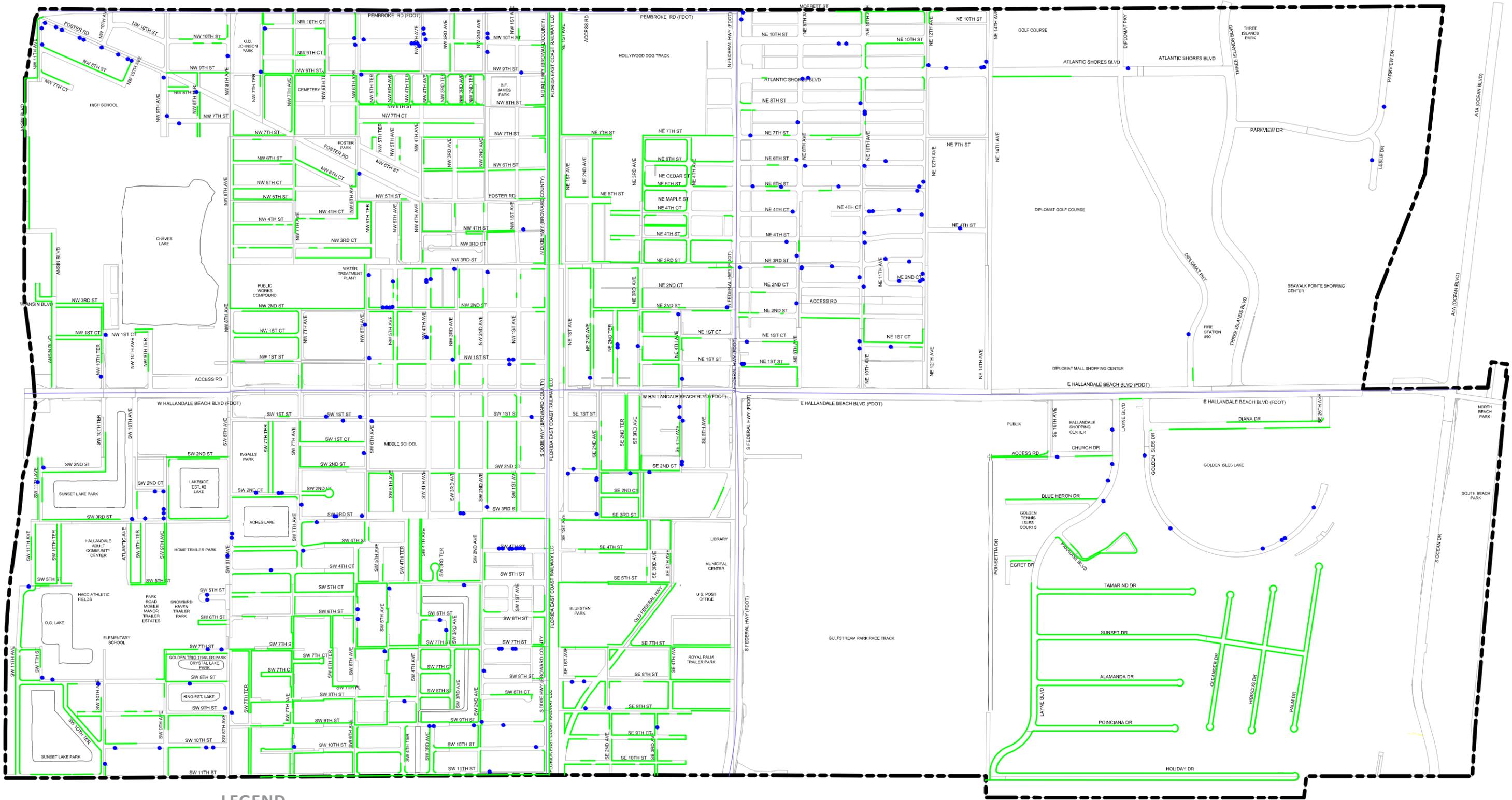
LEGEND

●	MISSING RAMP
●	MISSING TRUNCATED DOME
●	RAMP WITH DEFICIENT SLOPE AND WIDTH OR DAMAGED
●	RAMP WITH STAMPED TRUNCATED DOME
—	STATE OR COUNTY JURISDICTION
	HALLANDALE BEACH CITY LIMITS



KEY MAP

1	2
3	4



LEGEND

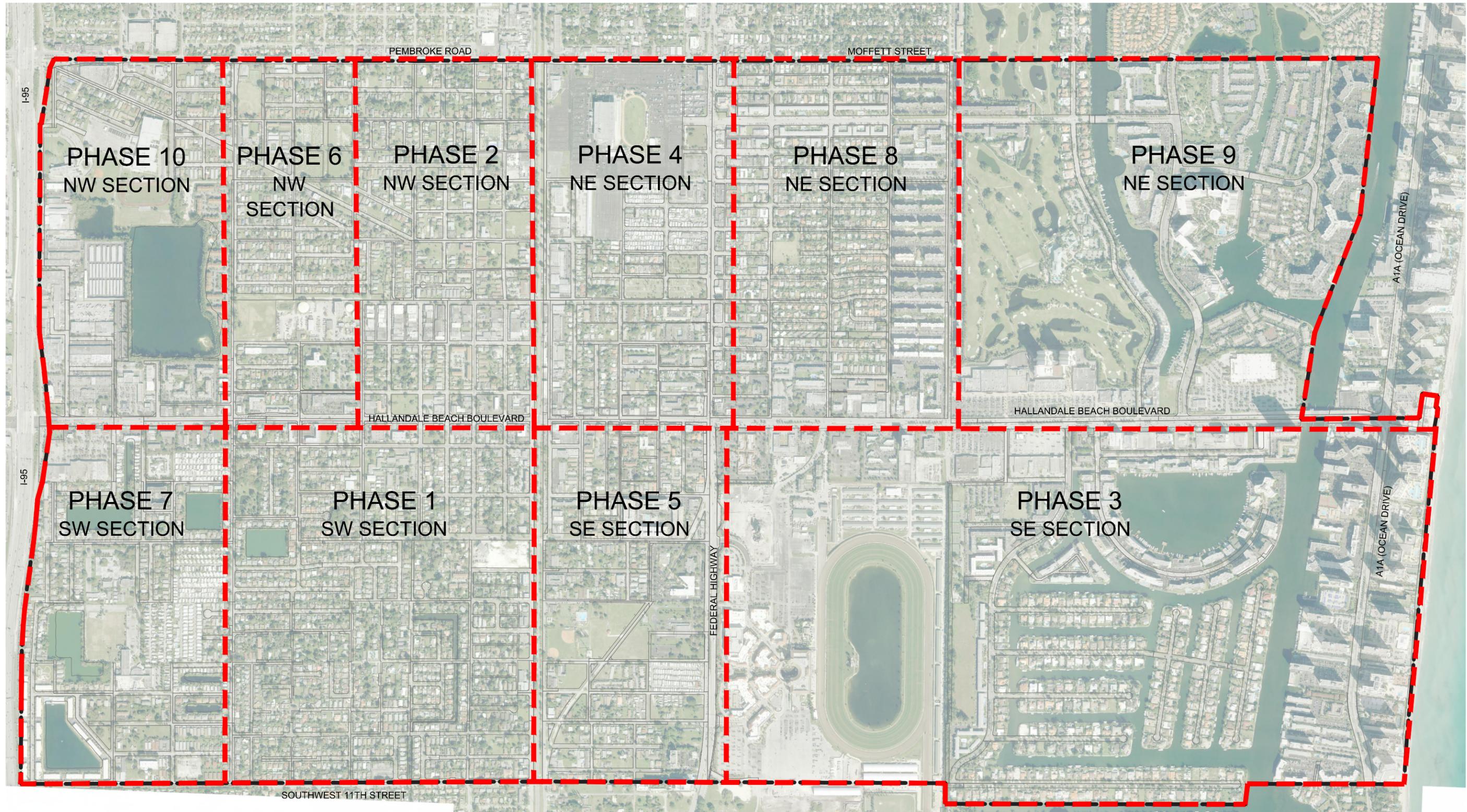
	PROPOSED 5' SIDEWALK
	REMOVE AND REPLACE SIDEWALK
	STATE OR COUNTY JURISDICTION
	HALLANDALE BEACH CITY LIMITS



KEY MAP

1	2
3	4

Edit Phase 9 and 10 where swap



BASIS OF DESIGN REPORT FOR CITY OF HALLANDALE BEACH

PRELIMINARY CONSTRUCTION COST ESTIMATE

TABLE X-2

ROADWAY CONSTRUCTION

Description	Quantity	Unit	Unit Price	Total
Remove & Dispose Full Depth Roadway Section	474,810	SY	\$12.00	\$5,697,717
Furnish & Place Pavement Section	474,810	SY	\$65.00	\$30,862,636
Furnish & Place Pavement Restoration	94,120	SY	\$55.00	\$5,176,606
Mill & Resurface 1" SP-9.5 Asphalt	81,029	SY	\$18.00	\$1,458,516
Furnish & Place 6" Thermoplastic Yellow	23,103	LF	\$2.00	\$46,206
Furnish & Place 6" Thermoplastic White	12,647	LF	\$1.30	\$16,441
Furnish & Place 12" Thermoplastic White (Cross Walk)	5,320	LF	\$2.80	\$14,896
Furnish & Place 24" Thermoplastic White (Stop Bars)	5,381	LF	\$5.40	\$29,057
Furnish & Install Thermoplastic Pavement Turn/Straight Arrows	5	EA	\$100.00	\$500
Furnish & Install Curbing (Type D, E, & F)	74,898	LF	\$25.00	\$1,872,455

TOTAL ROADWAY CONSTRUCTION

\$ 45,175,031

SIDEWALK CONSTRUCTION

Description	Quantity	Unit	Unit Price	Total
Furnish & Install Concrete Sidewalk (4")	80,207	SY	\$35.00	\$3,228,348
Furnish & Install Concrete Sidewalk (6")	43,189	SY	\$40.00	\$1,986,676
Remove & Dispose Damaged Sidewalk	1,694	SY	\$12.00	\$20,333
Install Bio-Barrier adjacent to Existing Tree	370	LF	\$20.00	\$7,400
Furnish & Install New ADA Ramp	587	EA	\$1,500.00	\$880,500
Remove & Dispose Non Compliant ADA Ramps	97	EA	\$180.00	\$17,460
Furnish & Install Truncated Domes at Missing Locations	241	EA	\$750.00	\$180,750
Remove Concrete Detectable Warning & Install New Truncated Domes	212	EA	\$750.00	\$159,000
Golden Aisles				
Furnish & Install Concrete Sidewalk (4")	15,771	SY	\$35.00	\$634,779
Furnish & Install Concrete Sidewalk (6")	8,492	SY	\$40.00	\$390,633
Furnish & Install Pedestrian Bridge	7	EA	\$60,000.00	\$420,000

TOTAL SIDEWALK CONSTRUCTION

\$ 7,925,879

BASIS OF DESIGN REPORT FOR CITY OF HALLANDALE BEACH

PRELIMINARY CONSTRUCTION COST ESTIMATE

TABLE X-2

LANDSCAPE

Description	Quantity	Unit	Unit Price	Total
21 miles of Landscape Corridor Roadway				
Landscape Corridors Furnish and Install Bio-Barrier	49,870	LF	\$18.00	\$ 897,656.67
Furnish & Install Trees/Palms	4,987	EA	\$800.00	\$ 3,989,585.20
Furnish & Install Shrubs and Irrigation	457,266	SF	\$8.00	\$ 3,658,128.00
Furnish & Install Sod and Irrigation	435,664	SF	\$1.50	\$ 653,496.66
10% of 49 miles (Remaining roadway)				
Supplemental Landscape Furnish & Install Supplemental Trees/Palms (~10% @ 40' O.C.)	1,134	EA	\$600.00	\$ 680,605.20
Furnish & Install Supplemental Sod and Irrigation (~10% x 12')	509,478	SF	\$1.50	\$ 764,216.64

HARDSCAPE & STREETScape ELEMENTS

Description	Quantity	Unit	Unit Price	Total
Furnish & Install Premium Lighting Pole & Fixture	1,858	EA	\$8,000.00	\$ 14,860,964.67
Furnish & Install Site Furniture	341	EA	\$1,800.00	\$ 612,936.00
Furnish & Install Tree Grates	635	EA	\$1,000.00	\$ 634,666.67
Furnish & Install Specialty Pavers (10' width x 2 per LF of roadway)	5,980	LF	\$100.00	\$ 598,000.00
Furnish & Install Specialty Pavers/Concrete (12' width x 2 per LF of roadway)	1,530	LF	\$60.00	\$ 91,800.00
Furnish & Install Multimodal Greenway Path 12' wide (per LF of roadway)	9,500	LF	\$50.00	\$ 475,000.00
Repair Damaged Existing Light Pole and Fixtures	28	EA	\$2,500.00	\$ 70,000.00

TOTAL LANDSCAPE, HARDSCAPE & STREETScape ELEMENTS

\$ 27,987,056