

NEPA Environmental Assessment Old Pompano Area Improvements

Project Number 2-0888-001

November 2014



Prepared for:

The City of Pompano Beach
Office of Housing and Urban Improvement
100 West Atlantic Boulevard, Suite 220
Pompano Beach, Florida 333060



ENGINEERING
ENVIRONMENTAL
ECOLOGICAL

November 26, 2014

Mr. Mark Korman
Program Compliance Manager
City of Pompano Beach Office of Housing & Urban Improvement
100 W. Atlantic Blvd, Suite 220
Pompano Beach, FL 33060

**Subject: NEPA Review and Compliance with Section 106
Old Pompano Area Improvements Project
Pompano Beach, Broward County, Florida
City Resolution Number 2014-287
E Sciences Project Number 2-0888-001**

Dear Mr. Korman:

E Sciences, Incorporated (E Sciences) is pleased to submit the enclosed Housing and Urban Development (HUD) NEPA Environmental Assessment Checklist and Worksheet and supporting documents, including a Cultural Resource Assessment, for the Old Pompano Area Improvements Project. Our services were performed based on E Sciences' proposal number 2-0888-001, dated June 13, 2014.

The Cultural Resource Assessment has been sent to the State Historic Preservation Officer (SHPO) for review and concurrence. A response from SHPO can be expected within 30 days from their receipt of the package. The City may decide to submit this Environmental Assessment to HUD now or may delay submittal to HUD pending receipt of a concurrence letter from SHPO, which can then be incorporated into the report.

We appreciate the opportunity to perform these services for you. Please contact us at 954-484-8500 if you have questions regarding this information.

Sincerely,

E SCIENCES, INCORPORATED

A handwritten signature in blue ink that reads 'Gayle L. Stone'.

Gayle L. Stone, M.S.
Senior Scientist

A handwritten signature in blue ink that reads 'Nadia G. Locke'.

Nadia G. Locke, P.E.
Senior Engineer

Enclosure: NEPA Environmental Assessment
Cultural Resource Assessment

E Sciences, INCORPORATED
224 SE 9th Street • Fort Lauderdale, FL 33316
ph 954-484-8500 fax 954-484-5146
www.esciencesinc.com

NEPA Environmental Assessment Checklist

[Environmental Review Guide HUD CPD 782, 24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27]

Evaluate the significance of the effects of the proposal on the character, features, and resources of the project area. Enter relevant base data and verifiable source documentation to support the finding. Then enter the appropriate impact code from the following list to make a determination of impact. **Impact Codes:** (1) - No impact anticipated; (2) - Potentially beneficial; (3) - Potentially adverse; (4) - Requires mitigation; (5) - Requires project modification. Note names, dates of contact, telephone numbers, and page references. Attach additional material as appropriate. Note conditions or mitigation measures required.

Land Development	Code	Source or Documentation
Conformance with Comprehensive Plans and Zoning	2	The proposed project is located in a Transit Oriented (TO) Special Zoning District and the Downtown Pompano Beach (DP) Overlay District. It is also adjacent to a Community Redevelopment Area that is part of the Downtown Pompano Transit-Oriented Corridor (DPTOC). Therefore, the project is consistent with the Land Use and Transportation Elements of the Comprehensive Plan and the Revised Zoning Code (Title XV, Chapter 155, Article 3 of the City of Pompano Beach Code of Ordinances), effective January 1, 2013 (http://pompanobeachfl.gov). Figure 1 shows the project location and Figure 2 shows the existing land use.
Compatibility and Urban Impact	2	The infrastructure improvements are compatible with the DPTOC and the Dixie East Transit Oriented Development Plan, which the City has adopted. The improvements will revitalize the downtown area, support economic growth and the use of businesses and community facilities, such as parks, churches and schools. A land use map is provided in Figure 2 and a recent aerial photograph is provided in Figure 3 .
Slope	1	As depicted on the USGS Topographic Map (Figure 4) the project area is flat with a linear cross-slope. The soils in the project area (Figure 5) are Paola fine sand, Paola–Urban land complex and Urban land, with less than 5% slope according to the Map Unit Descriptions from the US Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) (Attachment A).
Erosion	1	The topography in the project area is flat and not subject to erosion or sedimentation. Refer to Figures 4 and 5 and Attachment A .
Soil Suitability	1	The soils in the project area consist of Paola fine sand, Paola-Urban land complex and Urban land complex and are therefore suitable for the proposed use. Refer to Figure 5 and Attachment A .

Hazards and Nuisances including Site Safety	1	No man-made or natural hazards or nuisances are anticipated to impact the project. The tank farm associated with Pompano Air Park is approximately 3,800 feet from the project limits.
Energy Consumption	2	The proposed project involves streetscape improvements and, due to its central location and the installation of landscaping, may reduce energy consumption from transportation and buildings.
Noise - Contribution to Community Noise Levels	1	Due to the proximity of the FEC railroad, the ambient noise levels are more than a 75 Day-Night Noise Level (DNL) (Electronic Assessment Tool on www.portal.hud.gov). However, this project does not involve development of noise-sensitive uses and will not significantly increase the noise levels in the project area.
Air Quality Effects of Ambient Air Quality on Project and Contribution to Community Pollution Levels	1	According to the United States Environmental Protection Agency (US EPA) Green Book (www.epa.gov/airquality/greenbook), the project is located within an attainment area for air quality standards. The roads are currently used for vehicular traffic and parking and the project is not anticipated to significantly increase community pollution levels.
Environmental Design Visual Quality - Coherence, Diversity, Compatible Use and Scale	2	The proposed project will improve the visual quality of this historic downtown area. Renderings of the proposed improvements are provided in Attachment B .

Socioeconomic

Code Source or Documentation

Demographic Character Changes	1	The proposed project will not impact the demographic characteristics of the community.
Displacement	1	The proposed project will not displace any residents, businesses, or community facilities.
Employment and Income Patterns	1	The proposed project will not impact employment or income patterns of the residents.

Community Facilities and Services

Code Source or Documentation

Educational Facilities	1	The proposed project will not impact educational facilities.
Commercial Facilities	1	The proposed project will not impact commercial facilities.
Health Care	1	The proposed project will not impact health care facilities.
Social Services	1	The proposed project will not impact social services.
Solid Waste	1	The proposed project will not impact the solid waste disposal system. All solid waste generated by construction will be removed from the site and properly disposed of at a disposal facility.

**Community Facilities
and Services**

	Code	Source or Documentation
Waste Water	2	Upgrades to the waste water systems, potentially including retrofitting, new pipes and new connections, will likely be required by the project to meet current industry and permitting standards. The project will therefore be beneficial to waste water treatment and disposal. Existing water and sewer services will remain active throughout construction.
Storm Water	2	The drainage improvements proposed by the project will improve stormwater treatment and removal in the project area. Drainage improvements will include converting stormwater treatment and removal to a pipe system to accommodate on-street parking and the installation of curbs and gutters. Reclaimed water utility treatment is also planned to provide water for irrigation. The construction contractor will prepare a Stormwater Pollution Prevention Plan (SWPPP) and obtain a US EPA National Pollutant Discharge Elimination System (NPDES) Permit administered through the Florida Department of Environmental Protection (FDEP).
Water Supply	1	The proposed project will not impact the potable water supply.
Public Safety - Police - Fire - Emergency Medical	1	The proposed project will not impact availability of police, fire, and emergency medical services.
Open Space and Recreation - Open Space - Recreation - Cultural Facilities	1	The proposed project is in the existing right of way and will not impact open space, recreational, or cultural facilities.
Transportation	2	The proposed project will not affect the access or mobility of the project's users. The balance of travel options will remain the same. Currently, NE 1 st Street is wide enough to accommodate more than two travel lanes; however, the street is currently used as only a two lane road. Therefore, although the width of the travel lanes will be reduced to designate two travel lanes, the level of service of the transportation system will not change. The project may be beneficial to the safety of the area with the institution of designated travel lanes, parking spaces, sidewalks, and lighting.

Natural Features

	Code	Source or Documentation
Water Resources	1	The proposed project will not impact the groundwater table.
Surface Water	1	The proposed project will not impact surface waters.

Unique Natural Features and Agricultural Lands	1	There are no unique natural features or agricultural lands in the project area.
Vegetation and Wildlife	1	Based on a field review by a qualified biologist on November 13, 2014, there is no protected or rare vegetation in the project limits. The project area does not contain wetland or upland habitat, or Critical Habitat for federally-listed threatened or endangered species. There are open, mowed grass lawns in the project area that are suitable habitat for the Florida burrowing owl (<i>Athene cunicularia</i>), a State-listed Species of Special Concern; however no owls or burrows were observed during the field inspection. No protected wildlife is present in the project area.

Other Factors	Code	Source or Documentation
Flood Disaster Protection Act [Flood Insurance] [§58.6(a)]	1	The project limits are not located within a 100-year floodplain, as shown in Figure 6 , Flood Panel 12011C0376H, August 18, 2014.
Coastal Barrier Resources Act/ Coastal Barrier Improvement Act [§58.6(c)]	1	This project is not located on a coastal barrier island.
Airport Runway Clear Zone or Clear Zone Disclosure [§58.6(d)]	1	The Pompano Beach Air Park, owned by the City, is located north of the project area just north of NE 10 th Street. It is a public, general aviation airport for small aircraft. Mr. Steven Rocco, the Air Park Manager, was contacted on July 31, 2014 and the Master Plan Update, dated July 2008, can be found on their website at http://pompanobeachfl.gov/pages/department_directory/public_works/air_park/air_park.html.php . The project area is within the Air Park air space and portions of the project area are within the approach surface for the southwest facing Runway 6, but not within the Runway Clear Zone. See drawings of the Airspace Plan and the Inner Portion of the Approach Surface for Runway 6 in Attachment C . Based on Section 6.5.2 of the Master Plan Update, this runway has existing nonprecision approaches and is to be closed as part of the ultimate development plan. In addition, the project is a streetscape project and the proposed landscaping is comparable to existing trees and structures in the project area. Therefore, no impact is anticipated.
Other Factors	1	No other factors were identified.

Summary of Findings and Conclusions

ALTERNATIVES TO THE PROPOSED ACTION

Alternatives and Project Modifications Considered [24 CFR 58.40(e), Ref. 40 CFR 1508.9] (Identify other reasonable courses of action that were considered and not selected, such as other sites, design modifications, or other uses of the subject site. Describe the benefits and adverse impacts to the human environment of each alternative and the reasons for rejecting it.)

The Old Pompano project area was first settled in the late 1800s with the extension of Henry Flagler's Florida East Coast (FEC) Railroad. The area was built to its current configuration during the early 1900s and has not been upgraded since that time. The existing infrastructure has become debilitated and is in need of repair or replacement. The purpose of the project is to revitalize the downtown area; the existing streets and avenues chosen for this project comprise the central core of Old Pompano. In addition, the streetscape design and specific infrastructure improvements were selected in order to continue and complement efforts in the Community Redevelopment Area neighboring the west side of the project. In summation, alternatives to the proposed action are not applicable to the purpose and need of the project.

No Action Alternative [24 CFR 58.40(e)]

(Discuss the benefits and adverse impacts to the human environment of not implementing the preferred alternative).

The No Action Alternative would not allow revitalization of the Old Pompano Area or meet the goals and objectives of the City's Comprehensive Plan for the Downtown Pompano Transit-Oriented Corridor. The area would continue to experience blight and the aesthetics of the area would not be improved. In addition, much needed upgrades to the stormwater and waste water systems, as well as to the infrastructure, would not be implemented resulting in an adverse impact to the human environment. No benefits of the No Action Alternative were identified.

Mitigation Measures Recommended [24 CFR 58.40(d), 40 CFR 1508.20]

(Recommend feasible ways in which the proposal or its external factors should be modified in order to minimize adverse environmental impacts and restore or enhance environmental quality.)

A SWPPP will be developed and a NPDES Permit will be obtained for construction of the project. Best management practices for erosion and sediment control will be implemented during construction. The project includes utility upgrades that will aid in waste water treatment and disposal and drainage features that will aid in stormwater treatment and removal. The appropriate permits will be obtained for the project. The final plans will incorporate current industry standards and protocols.

Environmental Assessment Worksheet

This worksheet provides a suggested format that may be used to complete the Environmental Assessment process.

Project Name and Description: (The description should include location of the project and types of activities to be included)

Project Name: Old Pompano Area Improvements

Location: NE 1st Street between NE 1st Avenue and NE 5th Avenue; NE 3rd Street and NE 4th Street between NE 1st Avenue and NE 3rd Avenue; N Flagler Avenue between NE 3rd Street and NE 4th Street; and NE 2nd Avenue and NE 3rd Avenue between NE 1st Street and NE 4th Street. A location map is provided in Figure 1.

Activities included in the project: The project will consist of infrastructure and streetscape improvements including: roadway paving; signing and marking; drainage and water utility improvements; landscaping and irrigation; parking; lighting; and sidewalk improvements. A Location Map is provided in Figure 1, a Land Use Map is provided in Figure 2 and a 2011 Aerial Photograph is provided in Figure 3. Renderings of the proposed improvements are provided in Attachment B.

Directions: The Responsible Entity (RE) must make a determination as to whether the activities affiliated with the project will affect the resource under consideration and trigger formal compliance consultation procedures with the appropriate oversight agency and/or subsequent mitigation. You may consult guidance by clicking on links in each box below which also will take you to information from agency web sites. If the activity affects the resource, indicate (A) in the Status Determination Column below. Or indicate (B) in that column if the activity does not affect the resources under consideration. The compliance documentation column should indicate what source documentation was used to make the compliance determination and copies of all necessary documentation should be attached to the completed form for inclusion in the Environmental Review Record (ERR).

Statutes, Executive Orders, and Regulations listed at 24 CFR Sec. 58.5 and 58.6	Status Determination (A or B)	Compliance Documentation
Wetland Protection [Executive Order 11990] <i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/review/floodplain.cfm	B	Based on a review of the project area by a qualified wetland biologist on July 29 and November 13, 2014, no wetlands were identified in the project area.

Statutes, Executive Orders, and Regulations listed at 24 CFR Sec. 58.5 and 58.6	Status Determination (A or B)	Compliance Documentation
<p>Coastal Zone Management [Coastal Zone Management Act, 1972, sec. 307 (c) and (d)]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/review/coastal.cfm</p>	B	<p>Based on coordination with the Florida State Clearinghouse of the FDEP, the funding award is consistent with the Florida Coastal Management Program. See email correspondence dated August 12, 2014 (Attachment D). The letter notes that permits may be required from the South Florida Water Management District (SFWMD) and Florida Department of Transportation (FDOT). The project limits are not in FDOT right of way, so permits from FDOT will not be required. SFWMD has delegated permitting authority in the project area to Broward County Environmental Protection and Growth Management Division (EPGMD). Both the State Environmental Resource Permit (ERP) and a County Surface Water Management (SWM) License will be required for the project and issued from the Broward County EPGMD.</p>

Statutes, Executive Orders, and Regulations listed at 24 CFR Sec. 58.5 and 58.6	Status Determination (A or B)	Compliance Documentation
<p>Historic Preservation [36 CFR Part 800]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/historic.cfm</p>	B	<p>The project area is historic Downtown Pompano and there are many potentially historic resources in the project area. A comprehensive Cultural Resource Assessment was performed for the project and is provided under separate cover. The findings are that there are eight historic structures and one linear resource in the area of potential effect (APE), but they will not be impacted by the project because the project is in the existing road right of way. Archaeological monitoring is recommended during construction. The report was sent to the State Historic Preservation Office (SHPO) for review and concurrence on December 1, 2014. SHPO concurrence is pending.</p>
<p>Floodplain Management [Executive Order 11988; 24 CFR Part 55]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/floodplain.cfm</p>	B	<p>Revised floodplain maps for Broward County became effective on August 18, 2014. The Floodplain Map, from Panel 12011C0376H, is shown in Figure 6. The project limits of the infrastructure and streetscape improvements limits are not in a 100-year floodplain, even though areas within the larger project area are within a Special Flood Hazard Area. This project does not involve a “critical action” as defined by HUD.</p>

Statutes, Executive Orders, and Regulations listed at 24 CFR Sec. 58.5 and 58.6	Status Determination (A or B)	Compliance Documentation
<p>Sole Source Aquifers [40 CFR 149]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/aquifers.cfm</p>	B	<p>The project is located in the Biscayne aquifer, a sole source aquifer. The US EPA has concurred that the project is not expected to cause significant adverse impacts to the aquifer in a letter dated September 17, 2014 (Attachment E).</p>
<p>Endangered Species Act [50 CFR 402]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/endangeredspecies.cfm</p>	B	<p>Based on a review of Global Information System (GIS) databases and a review of the project area by a qualified wildlife biologist on July 29 and November 13, 2014, the project area does not contain wetland or upland habitat to support federally-listed or candidate threatened and endangered species. No federally- or State-listed species were observed in the project area. Therefore, the project will have “no effect” on threatened and endangered species.</p>
<p>Wild and Scenic Rivers [16 U.S.C. 1271, Sec. 7(b), (c)]</p> <p><i>Guidance:</i> http://www.rivers.gov/wildriverslist.html</p>	B	<p>Based on the database for the National Wild and Scenic River Act of 1968, there are no listed Wild and Scenic Rivers within one mile of the project area. There are no Wild and Scenic Rivers in Broward County.</p>
<p>Clean Air Act [40 CFR Parts 6, 51, 93]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/cleanair.cfm</p>	B	<p>According to the US EPA Green Book (www.epa.gov/airquality/), the project is located within an attainment area for air quality standards.</p>
<p>Farmland Policy Act [7CFR Part 658]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/farmlands.cfm</p>	B	<p>There are no prime or unique farmlands, or other farmland of statewide or local importance, in the project area. There are no prime or unique farmlands in Broward County.</p>

Statutes, Executive Orders, and Regulations listed at 24 CFR Sec. 58.5 and 58.6	Status Determination (A or B)	Compliance Documentation
<p>Environmental Justice [Executive Order 12898]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/review/justice.cfm</p>	B	<p>The proposed project; i.e. infrastructure and streetscape improvements, is suitable for its proposed use and will not be adversely impacted by adverse environmental conditions. The proposed project will not adversely affect low income or minority populations, rather, it is a revitalization project intended to have a positive effect on the community.</p>
<p>Noise Abatement and Control [24 CFR Part 51, Subpart B]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/noise.cfm</p>	B	<p>The project includes infrastructure and streetscape improvements in a planned transit-oriented development and is adjacent to the Florida East Coast (FEC) railroad. However, the project does not involve development of noise sensitive uses.</p>
<p>Explosive and Flammable Operations [24 CFR Part 51 C]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/explosive.cfm</p>	B	<p>Based on a review of regulatory databases and a field review of the project area by a qualified environmental specialist, the project limits are at an acceptable distance from above-ground explosive or flammable fuels or chemicals.</p>

Statutes, Executive Orders, and Regulations listed at 24 CFR Sec. 58.5 and 58.6	Status Determination (A or B)	Compliance Documentation
<p>Toxic Chemicals and Radioactive Materials [24 CFR Part 58, Sec 5(i)(2)]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/toxic.cfm</p>	B	<p>Based on review of regulatory databases obtained from an Environmental Data Resources, Inc. (EDR) report and records review from FDEP's Document Management System (depdms.dep.state.fl.us/Oculus), the project area is free of hazardous materials, contamination, toxic chemicals, gasses, and radioactive substances that could affect human health or safety or conflict with the intended use of the project limits.</p>
<p>Airport Clear Zones and Accident Potential Zones [24 CFR Part 51 Subpart D]</p> <p><i>Guidance:</i> http://www.hud.gov/offices/cpd/environment/airport.cfm</p>	B	<p>The project area is within the air space of the Pompano Beach Air Park, a municipal, general aviation airport. However, the project limits are not within the Runway Clear Zone. Also, the project involves only minor rehabilitation for infrastructure and streetscape improvements.</p>

Determination: The preparers have complied with all provisions of 24 CFR Part 58, Subpart E—Environmental Review Process: Environmental Assessments, examining alternatives to the project itself, feasible ways to modify the project to eliminate or minimize adverse impacts, and based on steps (a) through (f) found in the regulations, determined one of the following:

- (1) Finding of No Significant Impact (FONSI), whereby the Responsible Entity may proceed to dissemination and publication of the FONSI, per regulations found at 24 CFR Part 58, sec. 58.43(a).

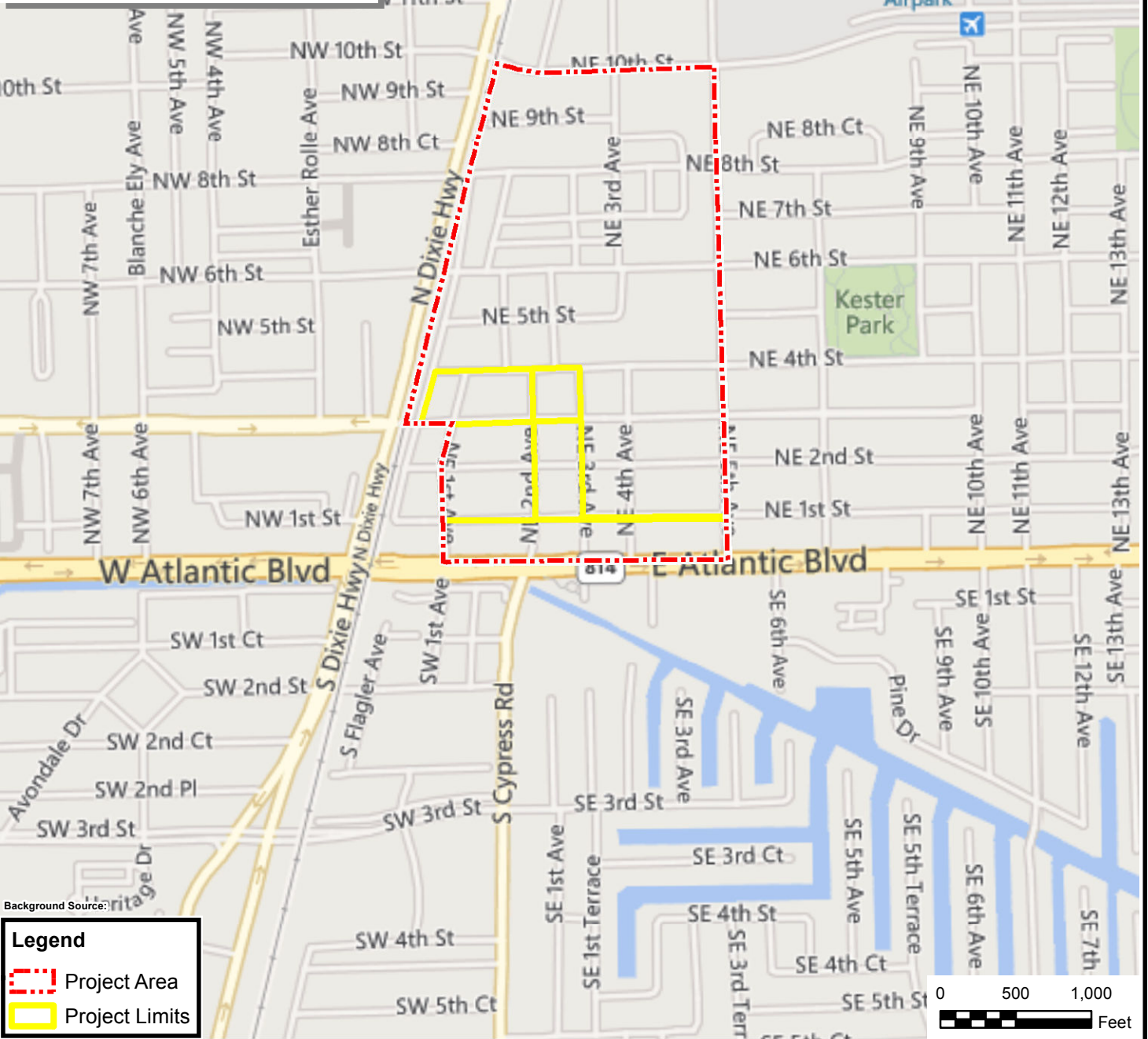
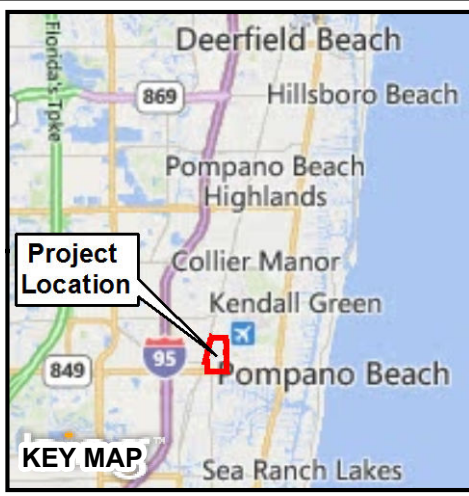
PREPARER SIGNATURE:

Bayle L. Stone

DATE:

11/26/2014

FIGURES



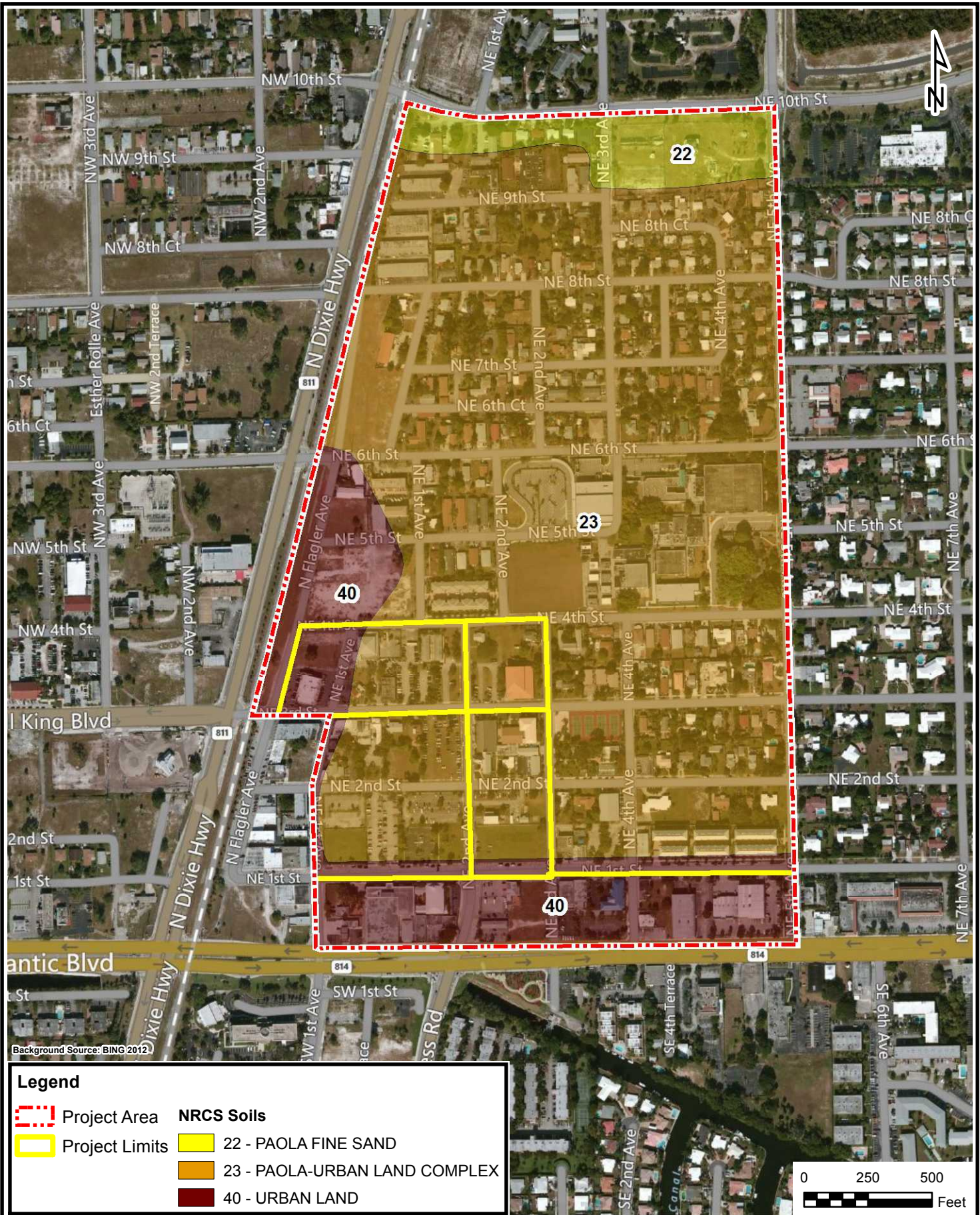
E Sciences
 E Sciences, Incorporated
 FL Engineering Lic. #8691
 224 SE 9th Street
 Ft. Lauderdale, Florida 33316
 www.esciencesinc.com
 Phone: 954-484-8500
 Fax: 954-484-5146

Old Pompano Area Improvements

Section 35, Township 48S, Range 42E
 Pompano Beach, Broward County, FL

Location Map	
SCALE: 1"=1,000'	DATE: 7/31/2014

FIGURE
1



E Sciences, Incorporated
 FL Engineering Lic. #8691
 224 SE 9th Street
 Ft. Lauderdale, Florida 33316
 www.esciencesinc.com
 Phone: 954-484-8500
 Fax: 954-484-5146

Old Pompano Area Improvements

Section 35, Township 48S, Range 42E
 Pompano Beach, Broward County, FL

NRCS
Soils Map

SCALE:
1"=500'

DATE:
10/24/2014

FIGURE

5

ATTACHMENT A

Broward County, Florida, East Part

22—Paola fine sand

Map Unit Setting

National map unit symbol: 1hn92

Mean annual precipitation: 60 to 68 inches

Mean annual air temperature: 72 to 79 degrees F

Frost-free period: 358 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Paola and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Paola

Setting

Landform: Flats on marine terraces, rises on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 4 inches: fine sand

E - 4 to 26 inches: fine sand

B/C - 26 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high
(19.98 to 39.96 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 4.0

Available water storage in profile: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Other vegetative classification: Sandy soils on ridges and dunes of
xeric uplands (G156AC111FL)

Minor Components

Immokalee

Percent of map unit: 4 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

St. lucie

Percent of map unit: 3 percent

Landform: Flats on marine terraces, rises on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G156AC111FL)

Pomello

Percent of map unit: 3 percent

Landform: Ridges on marine terraces, knolls on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G156AC131FL)

Data Source Information

Soil Survey Area: Broward County, Florida, East Part

Survey Area Data: Version 9, Sep 9, 2014

Broward County, Florida, East Part

23—Paola-Urban land complex

Map Unit Setting

National map unit symbol: 1hn93

Mean annual precipitation: 60 to 68 inches

Mean annual air temperature: 72 to 79 degrees F

Frost-free period: 358 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Paola and similar soils: 55 percent

Urban land: 40 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Paola

Setting

Landform: Flats on marine terraces, rises on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 4 inches: fine sand

E - 4 to 25 inches: fine sand

B/C - 25 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high
(19.98 to 39.96 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 4.0

Available water storage in profile: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Other vegetative classification: Forage suitability group not assigned
(G156AC999FL)

Description of Urban Land

Setting

Landform: Marine terraces

Landform position (three-dimensional): Interfluve, talf

Down-slope shape: Linear

Across-slope shape: Linear

Interpretive groups

Land capability classification (irrigated): None specified

Other vegetative classification: Forage suitability group not assigned
(G156AC999FL)

Minor Components

St. lucie

Percent of map unit: 3 percent

Landform: Flats on marine terraces, rises on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Forage suitability group not assigned
(G156AC999FL)

Pomello

Percent of map unit: 2 percent

Landform: Ridges on marine terraces, knolls on marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Forage suitability group not assigned
(G156AC999FL)

Data Source Information

Soil Survey Area: Broward County, Florida, East Part

Survey Area Data: Version 9, Sep 9, 2014

Broward County, Florida, East Part

40—Urban land

Map Unit Setting

National map unit symbol: 1hn9n

Mean annual precipitation: 60 to 68 inches

Mean annual air temperature: 72 to 79 degrees F

Frost-free period: 358 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Setting

Landform: Marine terraces

Landform position (three-dimensional): Interfluve, talf

Down-slope shape: Linear

Across-slope shape: Linear

Interpretive groups

Land capability classification (irrigated): None specified

Other vegetative classification: Forage suitability group not assigned
(G156AC999FL)

Minor Components

Matlacha, limestone substratum

Percent of map unit: 5 percent

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

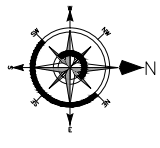
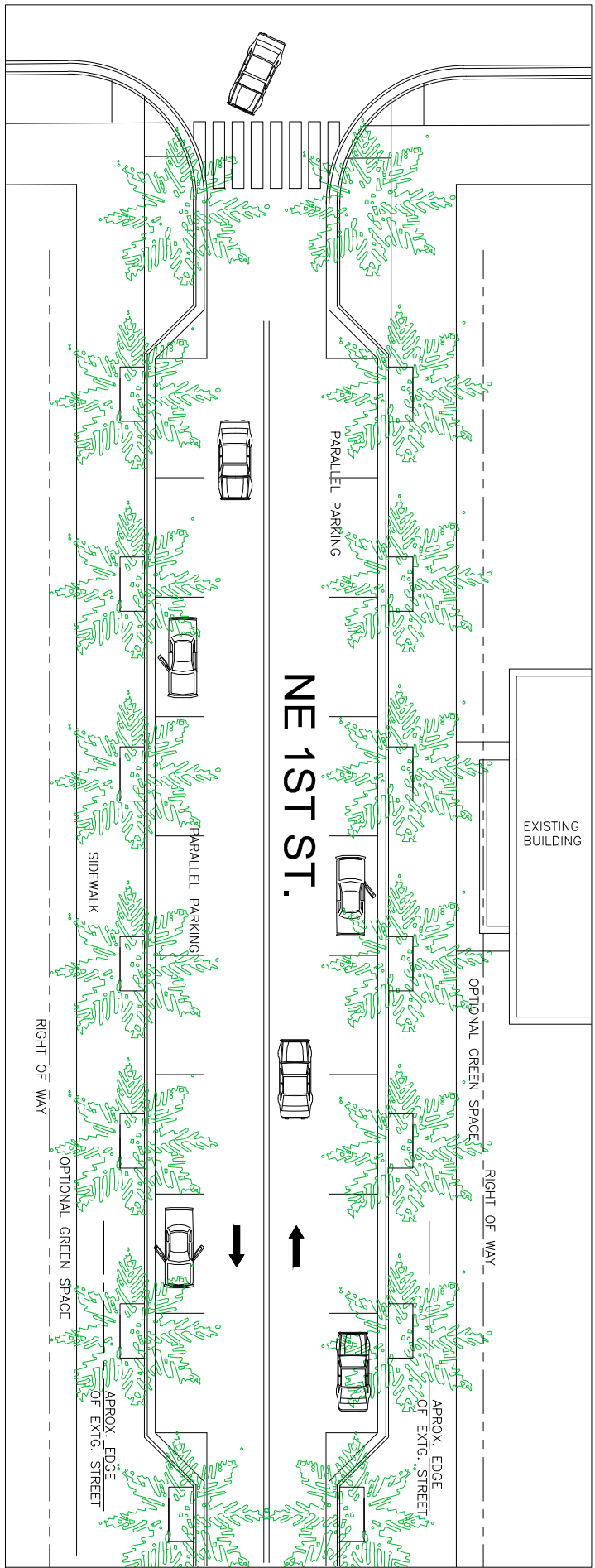
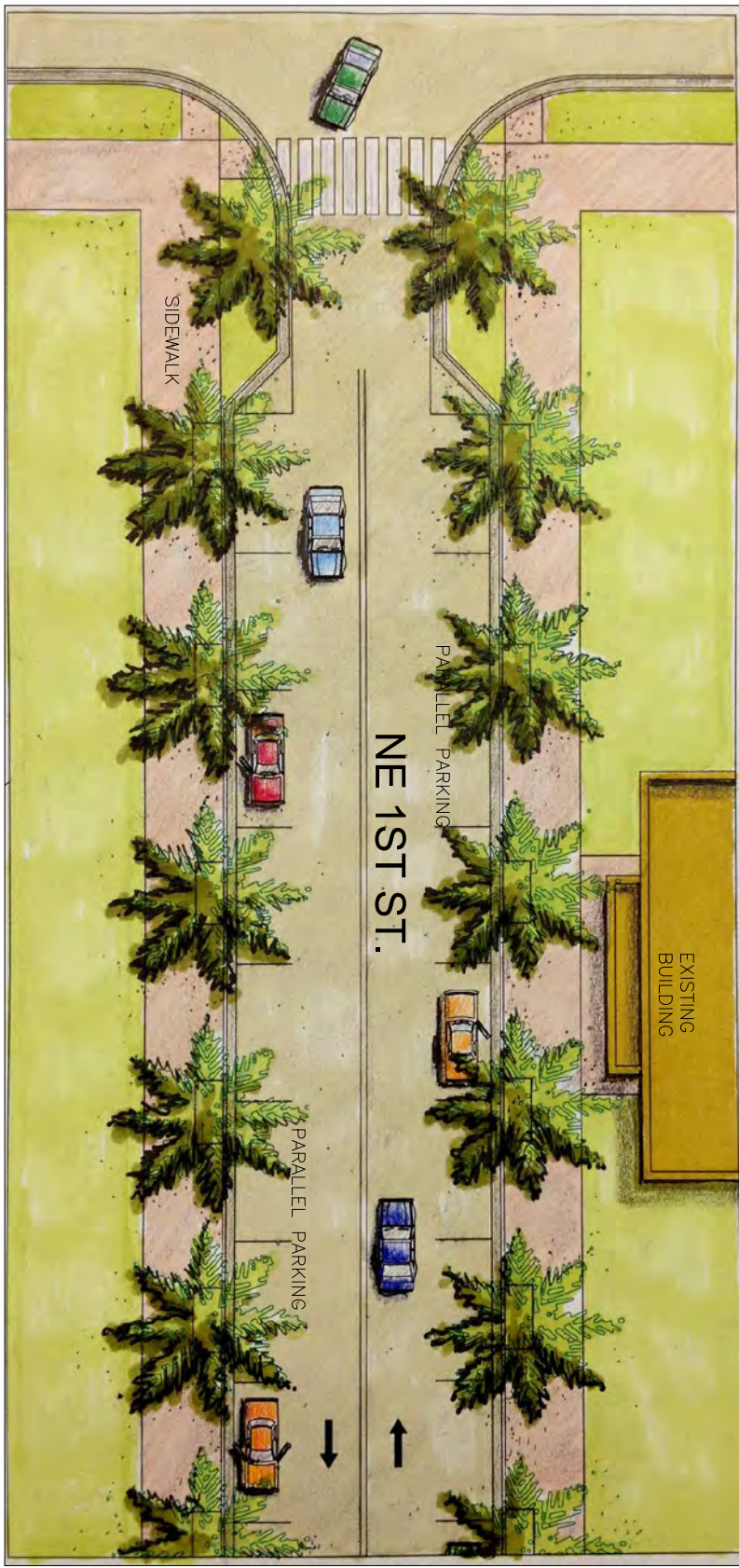
Other vegetative classification: Forage suitability group not assigned
(G156AC999FL)

Data Source Information

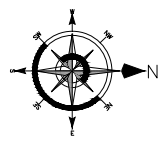
Soil Survey Area: Broward County, Florida, East Part

Survey Area Data: Version 9, Sep 9, 2014

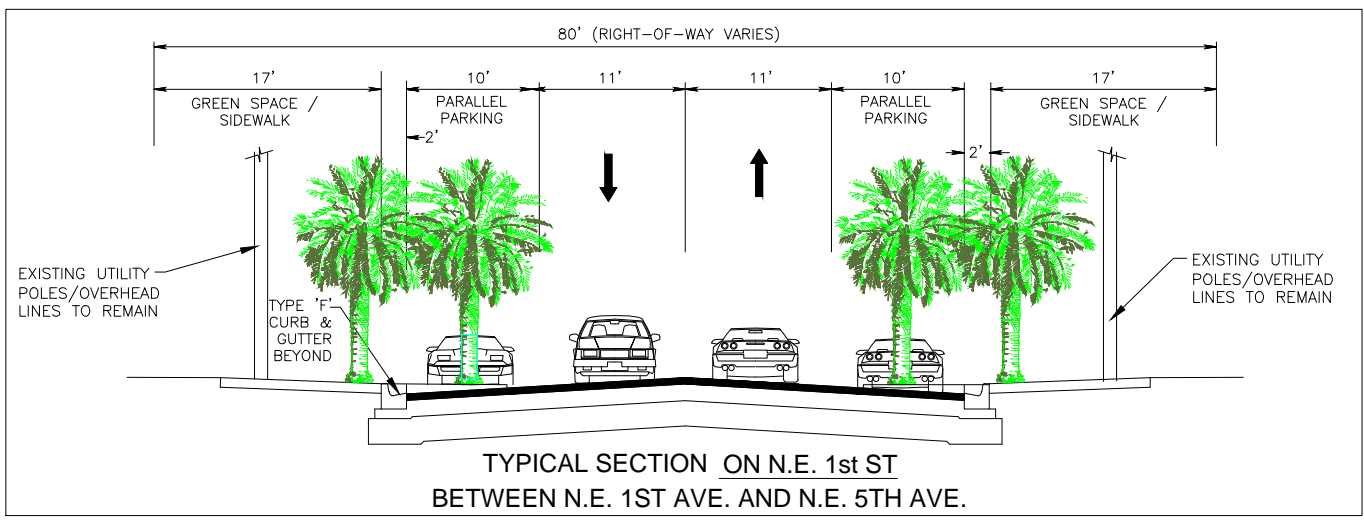
ATTACHMENT B



NE 1st STREET - PROPOSED IMPROVEMENTS
PARTIAL RENDER



NE 1st STREET - PROPOSED IMPROVEMENTS
Typical Streetscape layout



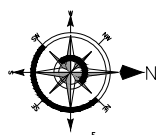
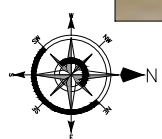
POTENTIAL ROAD IMPROVEMENTS

N.E. 1st STREET

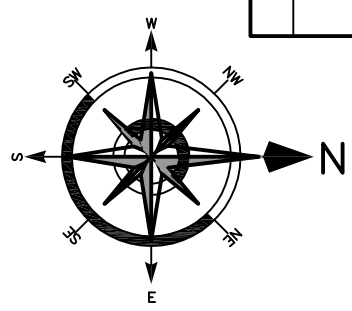
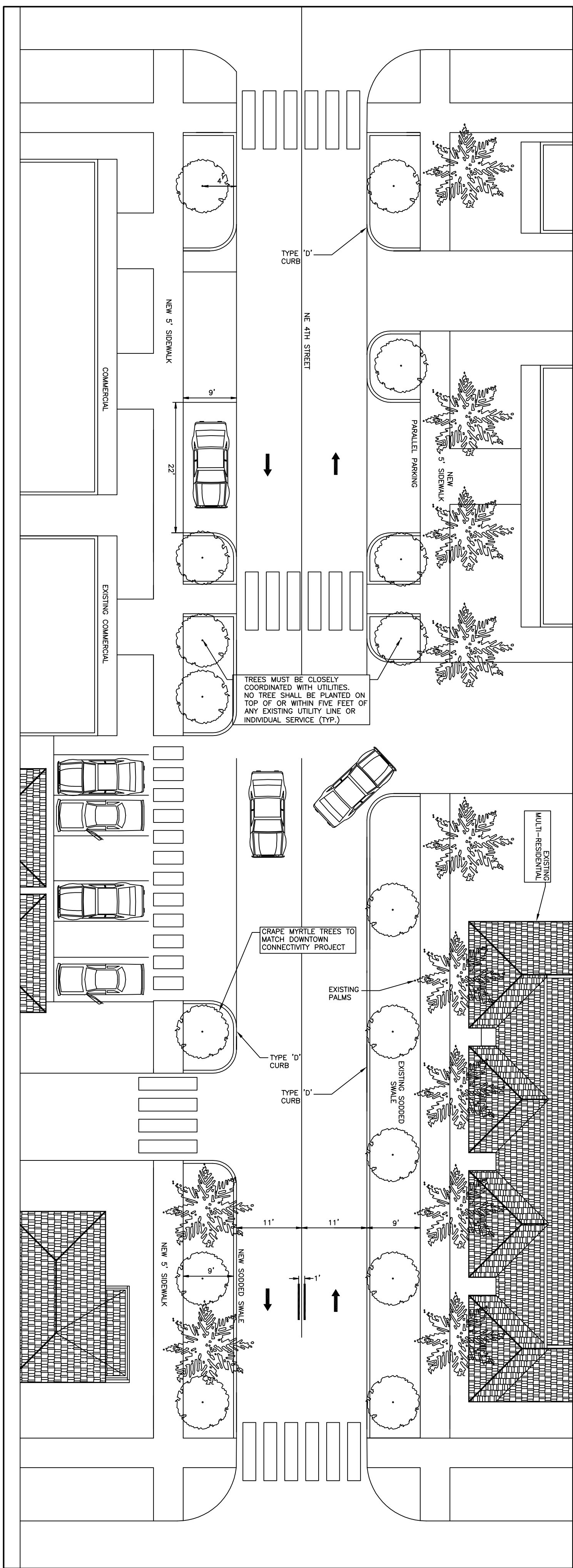
NOTE: PROPOSED STREETSCAPE IMPROVEMENTS ARE CONCEPTUAL AND MUST BE COORDINATED WITH EXISTING DRIVEWAYS AND VARYING RIGHT OF WAY CONDITIONS.

N.T.S.

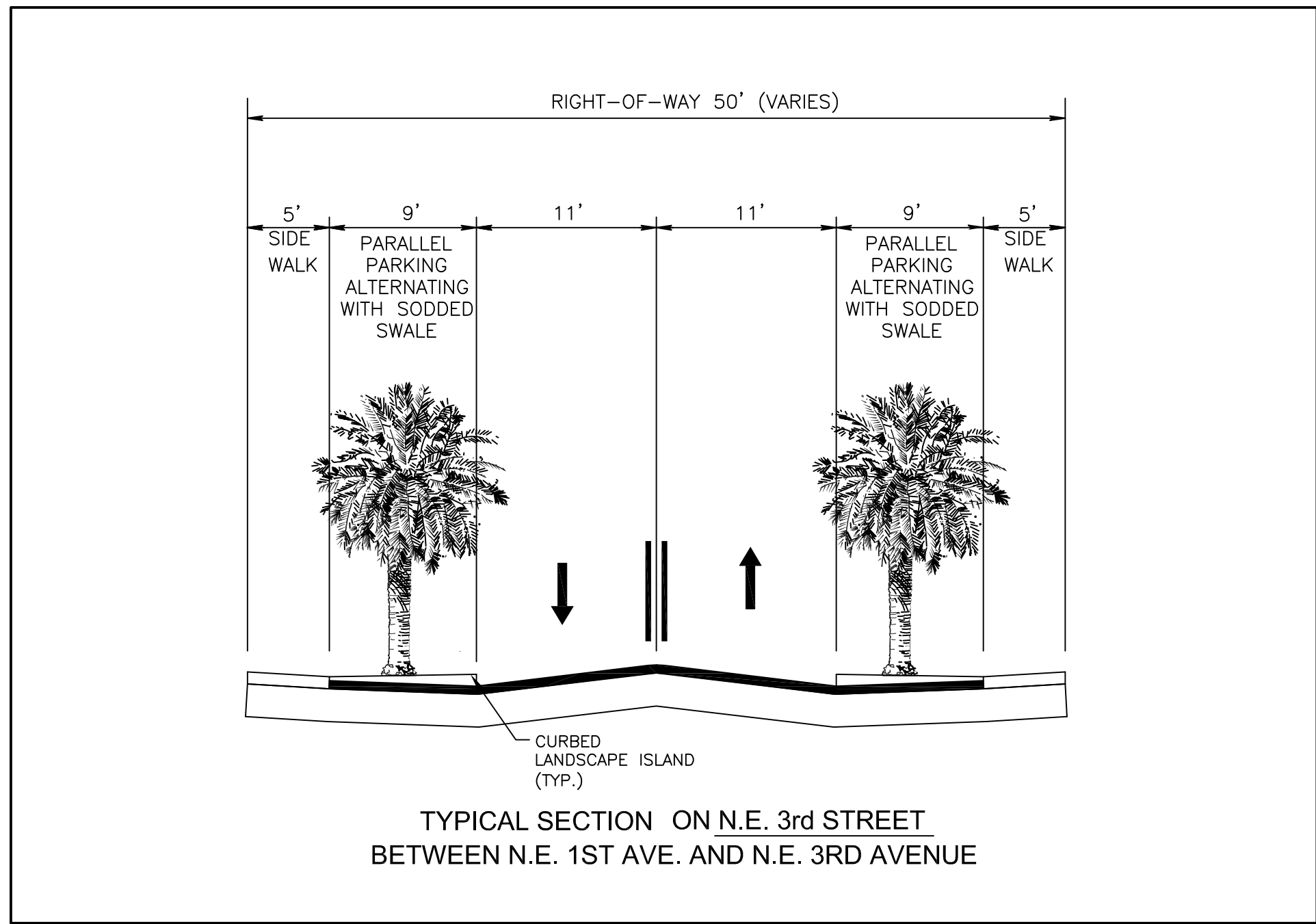




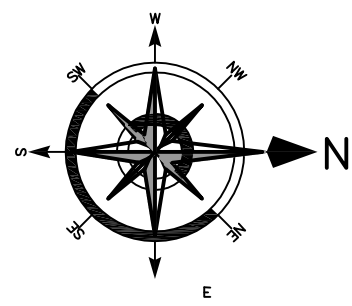
6/25/13
EXHIBIT 3



NE 4th STREET - PROPOSED IMPROVEMENTS
PARTIAL RENDER



TYPICAL SECTION ON N.E. 3rd STREET
BETWEEN N.E. 1ST AVE. AND N.E. 3RD AVENUE



NE 4th STREET - PROPOSED IMPROVEMENTS
Typical Streetscape layout



POTENTIAL ROAD IMPROVEMENTS

N.E. 4th STREET

NOTE: PROPOSED STREETSCAPE IMPROVEMENTS ARE CONCEPTUAL AND MUST BE COORDINATED WITH EXISTING DRIVEWAYS AND VARYING RIGHT OF WAY CONDITIONS.

N.T.S.





N. FLAGLER AVE - EXISTING CONDITIONS

EXISTING LAYOUT



N. FLAGLER AVE - PROPOSED IMPROVEMENTS

Typical Streetscape layout

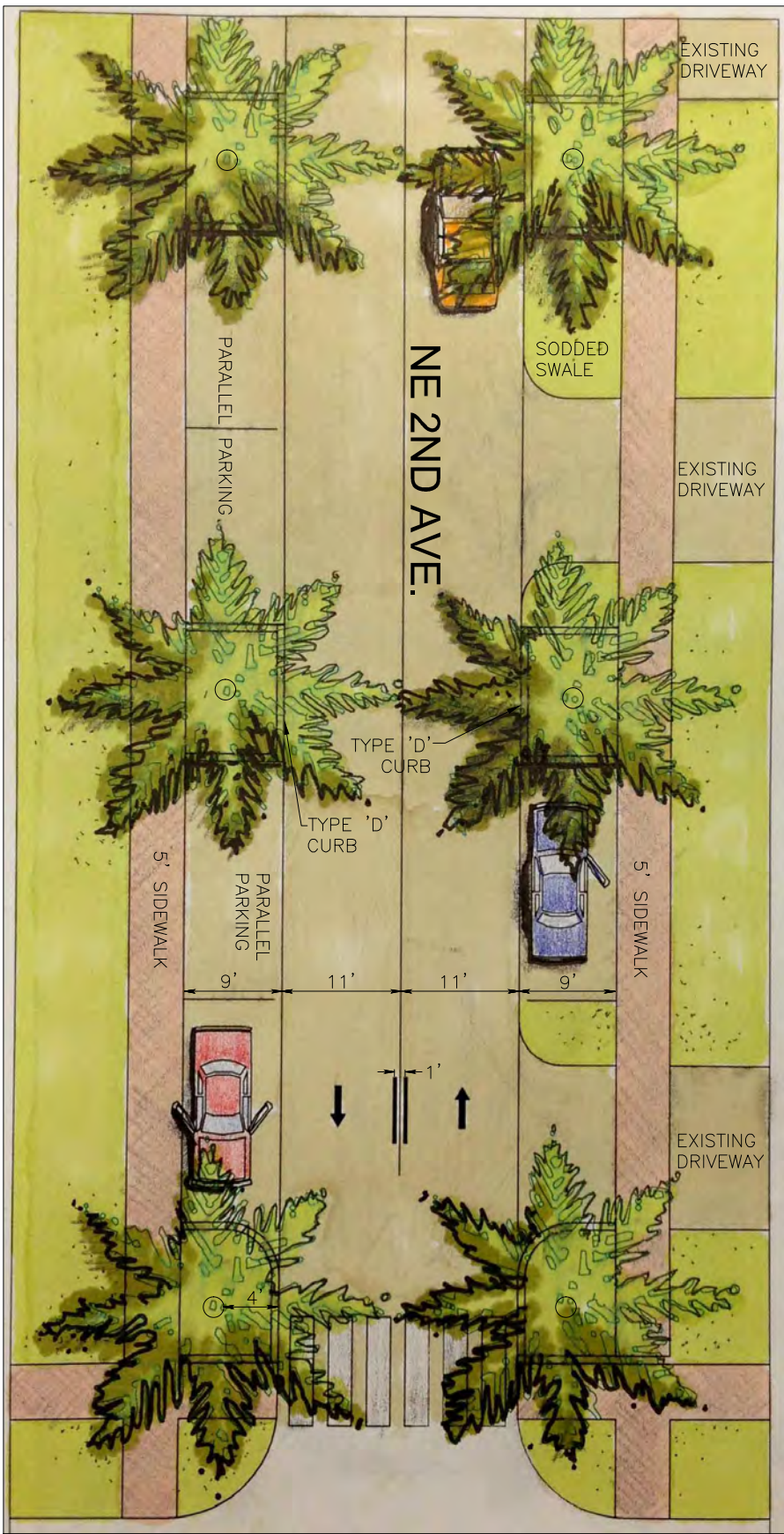
POTENTIAL ROAD IMPROVEMENTS

NORTH FLAGLER AVENUE

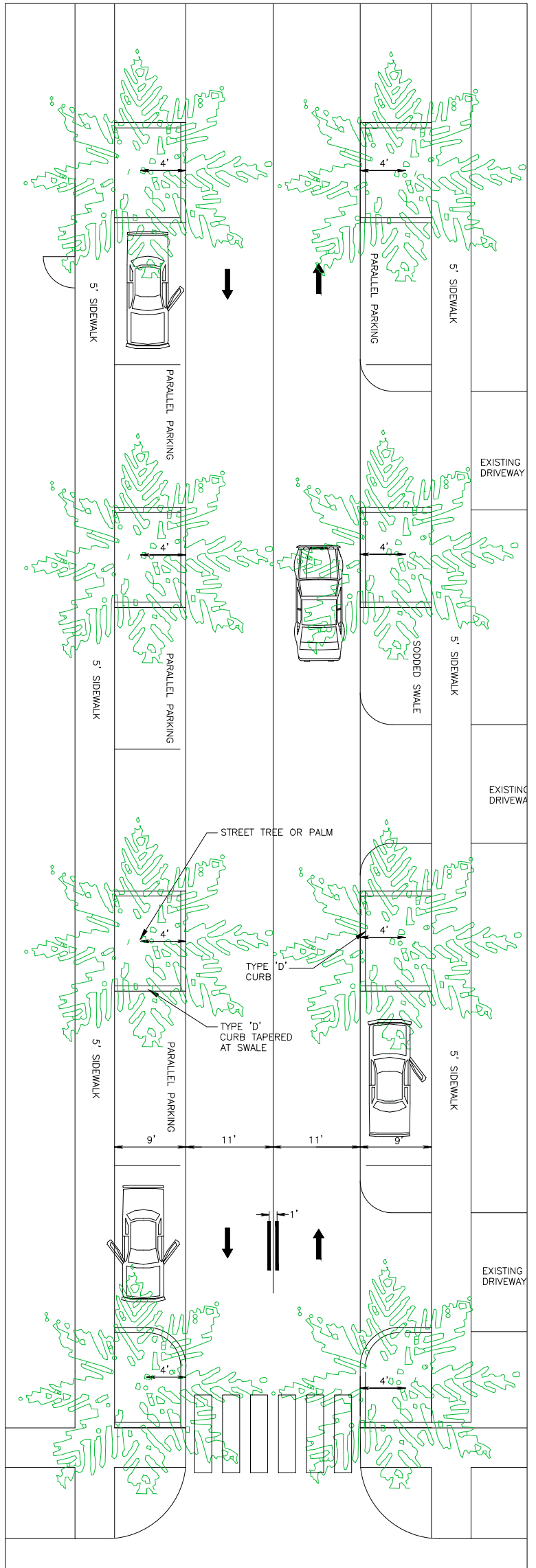
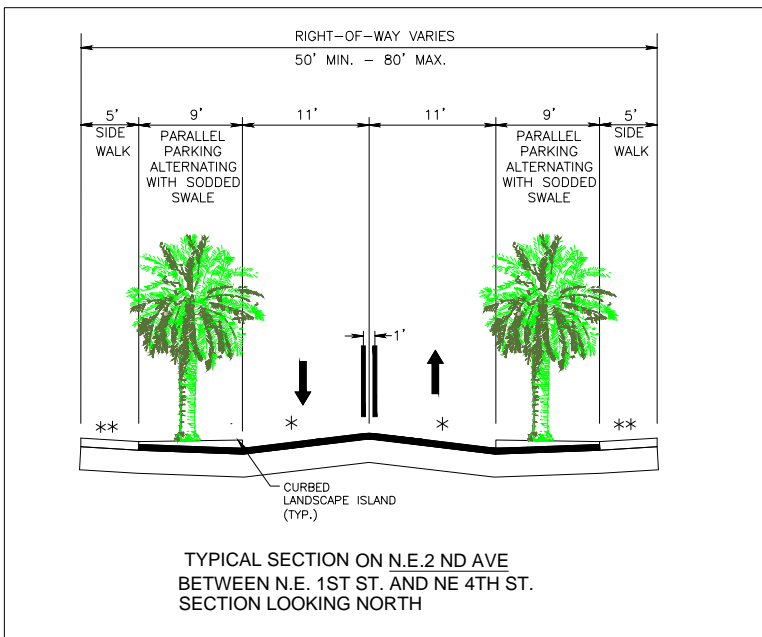
NOTE: PROPOSED STREETSCAPE IMPROVEMENTS ARE CONCEPTUAL AND MUST BE COORDINATED WITH EXISTING DRIVEWAYS AND VARYING RIGHT OF WAY CONDITIONS.

N.T.S.





NE 2nd AVENUE - PROPOSED IMPROVEMENTS
PARTIAL RENDER



NE 2nd AVENUE PROPOSED IMPROVEMENTS
Typical Streetscape layout

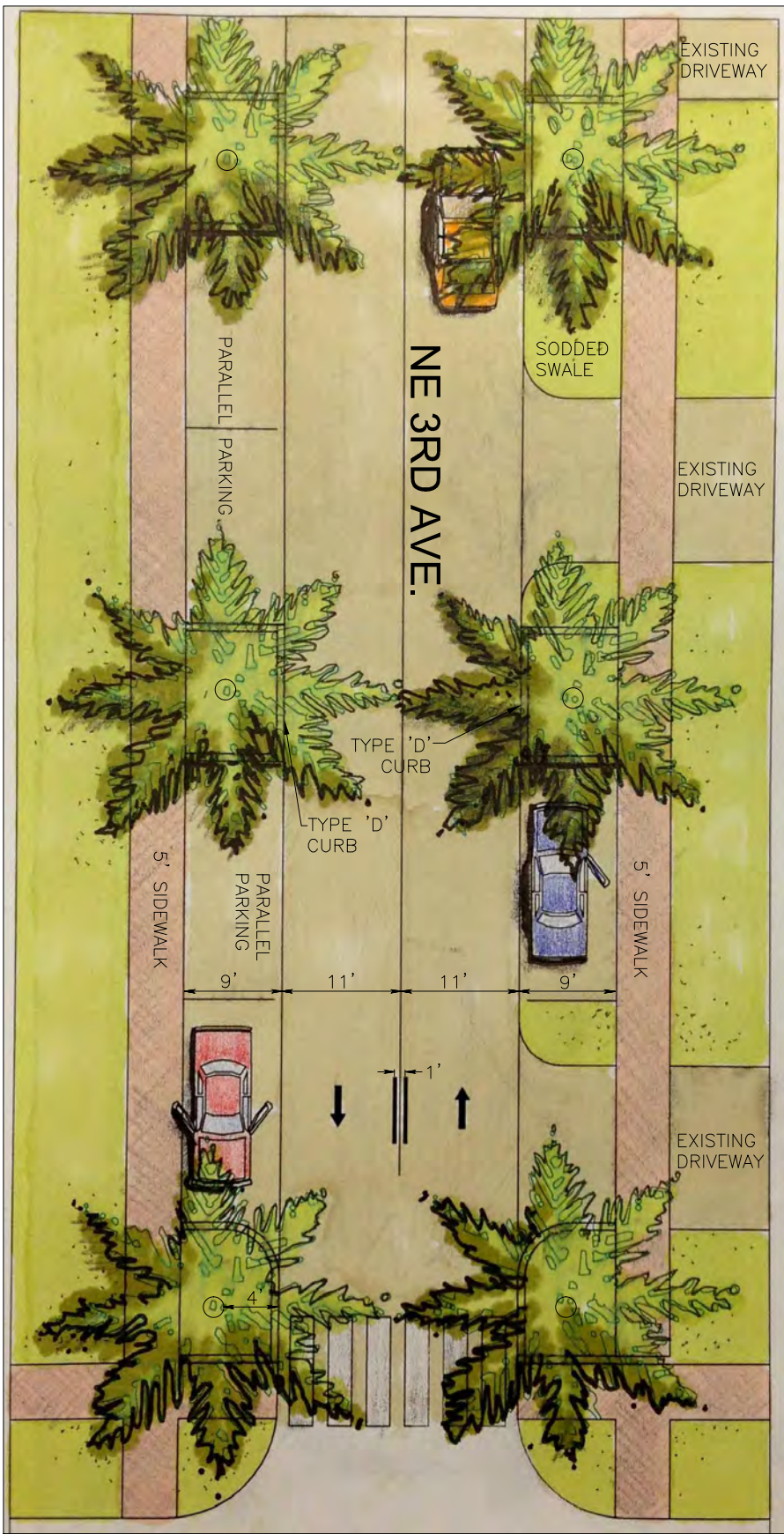


POTENTIAL ROAD IMPROVEMENTS
NE 2nd AVENUE

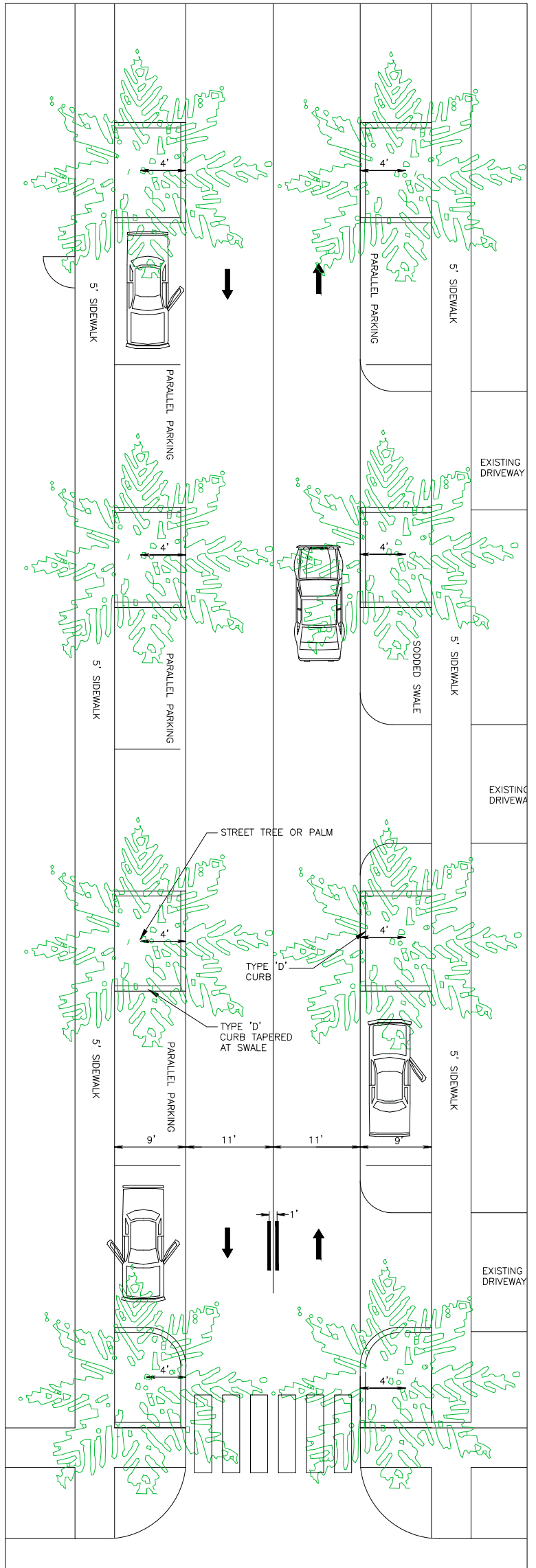
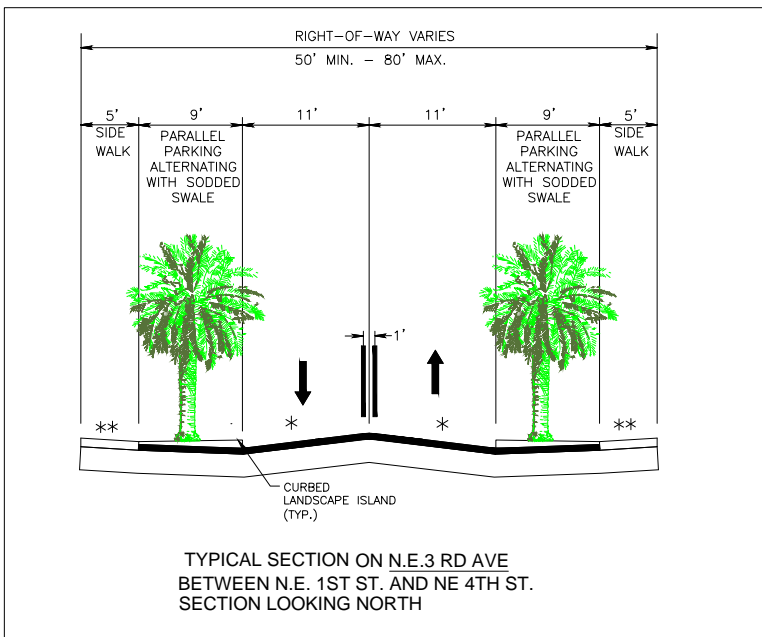
NOTE: PROPOSED STREETSCAPE IMPROVEMENTS ARE
CONCEPTUAL AND MUST BE COORDINATED WITH EXISTING
DRIVEWAYS AND VARYING ROW's

N.T.S.





NE 3rd AVENUE - PROPOSED IMPROVEMENTS
PARTIAL RENDER



NE 3rd AVENUE PROPOSED IMPROVEMENTS
Typical Streetscape layout



POTENTIAL ROAD IMPROVEMENTS
NE 3rd AVENUE

NOTE: PROPOSED STREETSCAPE IMPROVEMENTS ARE CONCEPTUAL AND MUST BE COORDINATED WITH EXISTING DRIVEWAYS AND VARYING ROW's AND UTILITIES.

N.T.S.



ATTACHMENT C



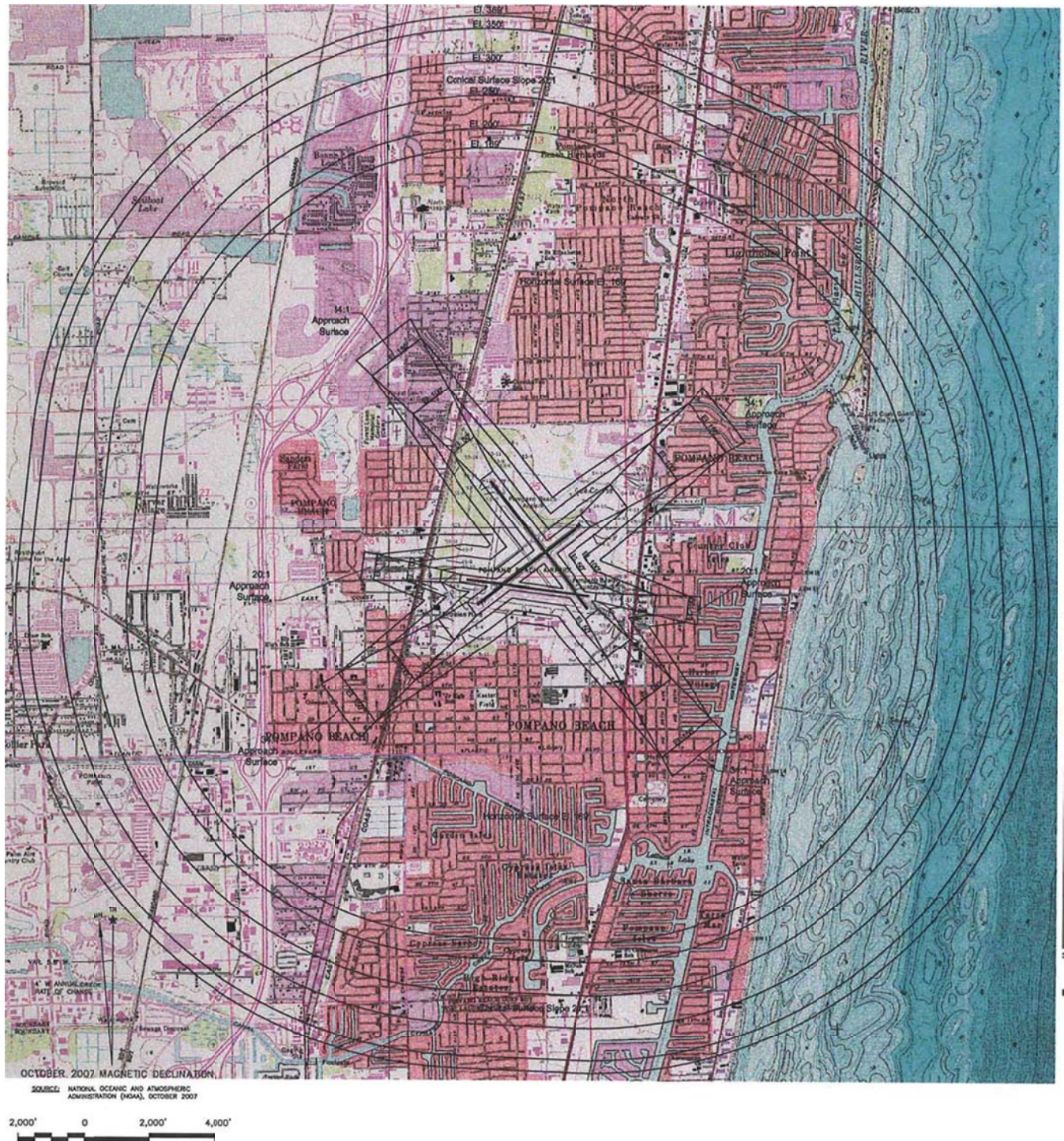
Pompano Beach Air Park

Master Plan Update

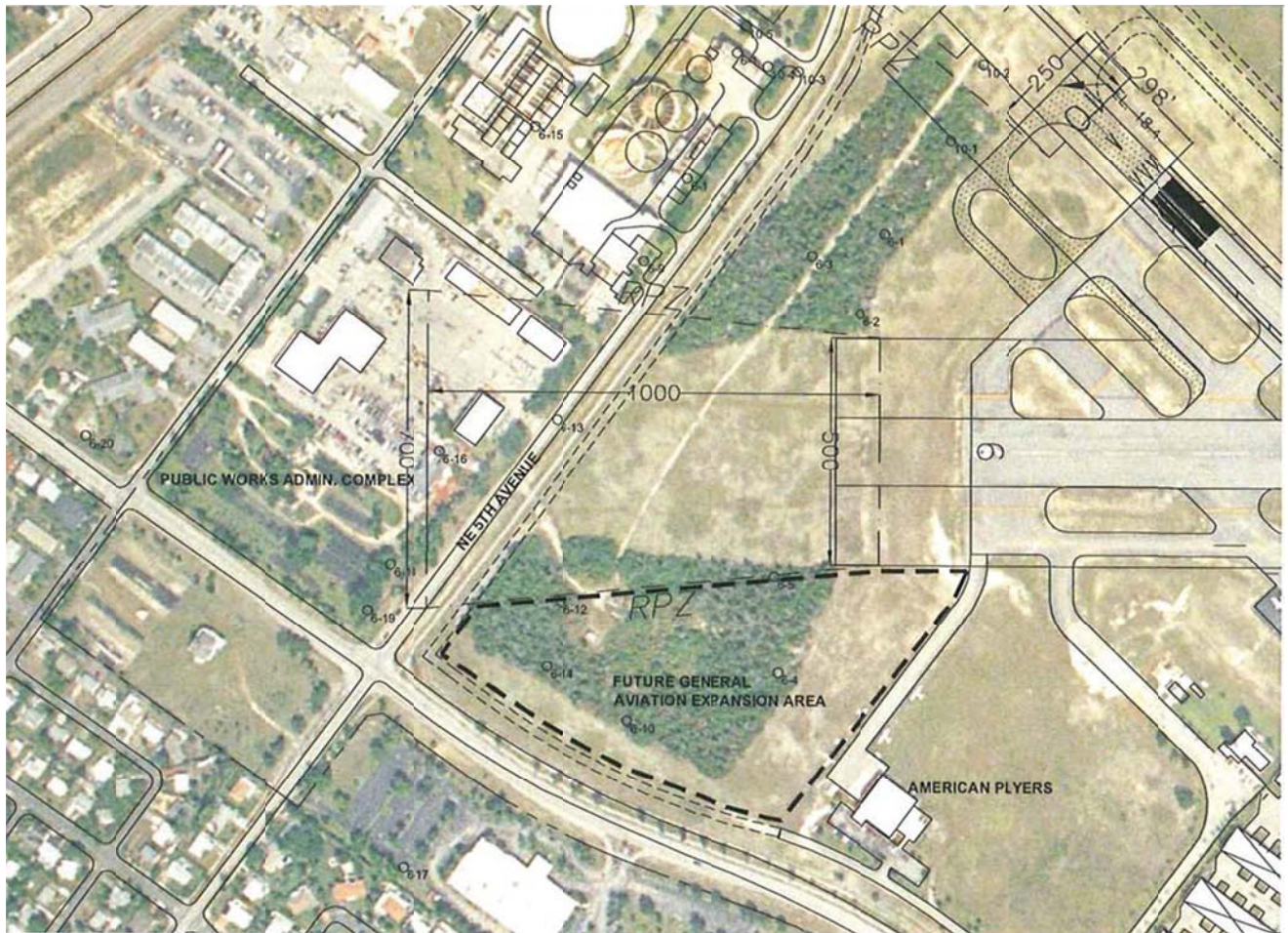


July 2008

Airport Airspace Plan, Chapter 6, Pompano Beach Air Park Master Plan Update



Runway 6, Inner Portion of the Approach Surface, Chapter 6, Pompano Beach Air Park Master Plan Update



ATTACHMENT D

From: [Milligan, Lauren](#)
To: [Gayle Stone](#); [Nadia Locke](#)
Subject: HUD CDBG, Old Pompano Area Streetscaping Improvements, Pompano Beach - State Clearance Letter
Date: Tuesday, August 12, 2014 3:21:56 PM

Ms. Gayle L. Stone, Senior Scientist and

Ms. Nadia G. Locke, P.E., Associate

E Sciences, Inc.

224 S.E. 9th Street

Fort Lauderdale, FL 33316

RE: Department of Housing and Urban Development – Community Development Block Grants-Section 108 – City of Pompano Beach, Old Pompano Area Streetscaping Improvements – Pompano Beach, Broward County, Florida.

SAI # FL201408126983C

Dear Ms. Stone and Ms. Locke:

Florida State Clearinghouse staff has received and reviewed the referenced HUD CDBG funding proposal under the following authorities: Presidential Executive Order 12372; § 403.061(42), *Florida Statutes*; the Coastal Zone Management Act, 16 U.S.C. §§ 1451-1464, as amended; and the National Environmental Policy Act, 42 U.S.C. §§ 4321-4347, as amended.

Please be advised that the proposed street and stormwater drainage improvements project may require the issuance of an Environmental Resource Permit (ERP) from the South Florida Water Management District (SFWMD). Further inquiries concerning the state's permitting requirements should be directed to Mr. Carlos de Rojas at (561) 682-6505. Certain construction dewatering activities, if proposed, may also require a Water Use Permit from the SFWMD.

In addition, any onsite or offsite improvements associated with the project that impact Florida Department of Transportation (FDOT) right-of-way will also require the appropriate FDOT permits. Required permits may include access management, utility, drainage or other permits depending on the work planned. Please contact the FDOT District Four Operations Center in Fort Lauderdale at (954) 776-4300 for further information.

Based on the information contained in the submittal and minimal project impacts, the state has no objections to allocation of federal funds for the subject project and, therefore, the funding award is consistent with the Florida Coastal Management Program (FCMP). The state's continued concurrence will be based on the activity's compliance with FCMP authorities, including federal and state monitoring of the activity to ensure its continued conformance, and the adequate resolution of any issues identified during subsequent regulatory reviews. The state's final concurrence of the project's consistency with the FCMP will be determined during the environmental permitting process, in accordance with Section 373.428, *Florida Statutes*, if applicable.

If you have any questions regarding this message or the state intergovernmental review process, please don't hesitate to contact me at (850) 245-2170 or Lauren.Milligan@dep.state.fl.us. Thank you.

Yours sincerely,

Lauren P. Milligan

Lauren P. Milligan, Coordinator
Florida State Clearinghouse
Florida Department of Environmental Protection
3900 Commonwealth Blvd, M.S. 47
Tallahassee, FL 32399-3000
ph. (850) 245-2170
fax (850) 245-2190

Lauren.Milligan@dep.state.fl.us



Total Control Panel

[Login](#)

To: gstone@esciencesinc.com [Remove](#) this sender from my allow list

From:

lauren.milligan@dep.state.fl.us

You received this message because the sender is on your allow list.

ATTACHMENT E



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

September 17, 2014

Ms. Gayle L. Stone
Senior Scientist
E Sciences, Incorporated
224 SE 9th Street
Fort Lauderdale, FL 33316

Subject: Sole Source Aquifer Review for Pompano Beach, Florida in Broward County; Old Pompano Beach Area Infrastructure Improvements; E Sciences Project Number 2-0888-001; utilizing funds for portions of the project from U.S. HUD Section 108 Community Development Block Grant Program

Dear Ms. Stone:

The U.S. Environmental Protection Agency (EPA), Region 4, received your August 1, 2014 request to assess the above referenced project and we reviewed it pursuant to Section 1424(e) of the Safe Drinking Water Act. The assessment is to determine if the project lies within the boundaries (recharge and streamflow source zones) of an EPA designated Sole Source Aquifer (SSA); and to determine if the project poses potential, adverse health or environmental impacts. A sole source aquifer is the sole or principal water source for a designated area. If the aquifer is contaminated, there would be a significant hazard to public health and an economic burden for those using the aquifer to tap into and deliver drinking water from another water source.

The project has been determined to lie **inside** the designated boundaries of the Biscayne Aquifer. Regulatory groups within the EPA responsible for administering other programs may, at their own discretion and under separate cover, provide additional comments

Based on the information provided, the project is not expected to cause a significant impact to the aquifer system. However, it is requested that all debris from any demolition of the existing structures are properly contained and removed from the site prior to construction of the new building. If applicable, contractors should follow all county flood plain management's plans and public notification processes. During construction, it is EPA's understanding and expectation that those responsible for the project will strictly adhere to all Federal, State and local government permits, ordinances, planning designs, construction codes, operation & maintenance requirements, and engineering. All best management practices for erosion and sedimentation control should be followed. State and County environmental offices should be contacted to address proper drainage and storm water designs. Additionally, the project manager should contact State and local environmental officials to obtain a copy of any local Wellhead Protection Plans. <http://www.dep.state.fl.us/swapp/Default.htm>

If proper protection measures are followed, this project is not expected to cause significant adverse impacts to the aquifer. All findings of "no significant impact" are based on EPA's understanding and expectation that those responsible for the project will strictly adhere to all federal, state and local government permits, ordinances, best management practices, planning designs, construction and maintenance requirements, monitoring requirements and engineering recommendations to protect the integrity of the surrounding ground water recharge zones. It is requested that you contact the EPA Region 4 office should there be any major project changes.

Thank you for your concern with the environmental impacts of this project. If you have any questions, please contact me at 404-562-9474.

Sincerely,

A handwritten signature in blue ink, appearing to read "Larry T. Cole". The signature is fluid and cursive, with the first name "Larry" and last name "Cole" clearly distinguishable.

Larry T. Cole
Environmental Engineer
Ground Water and UIC Section