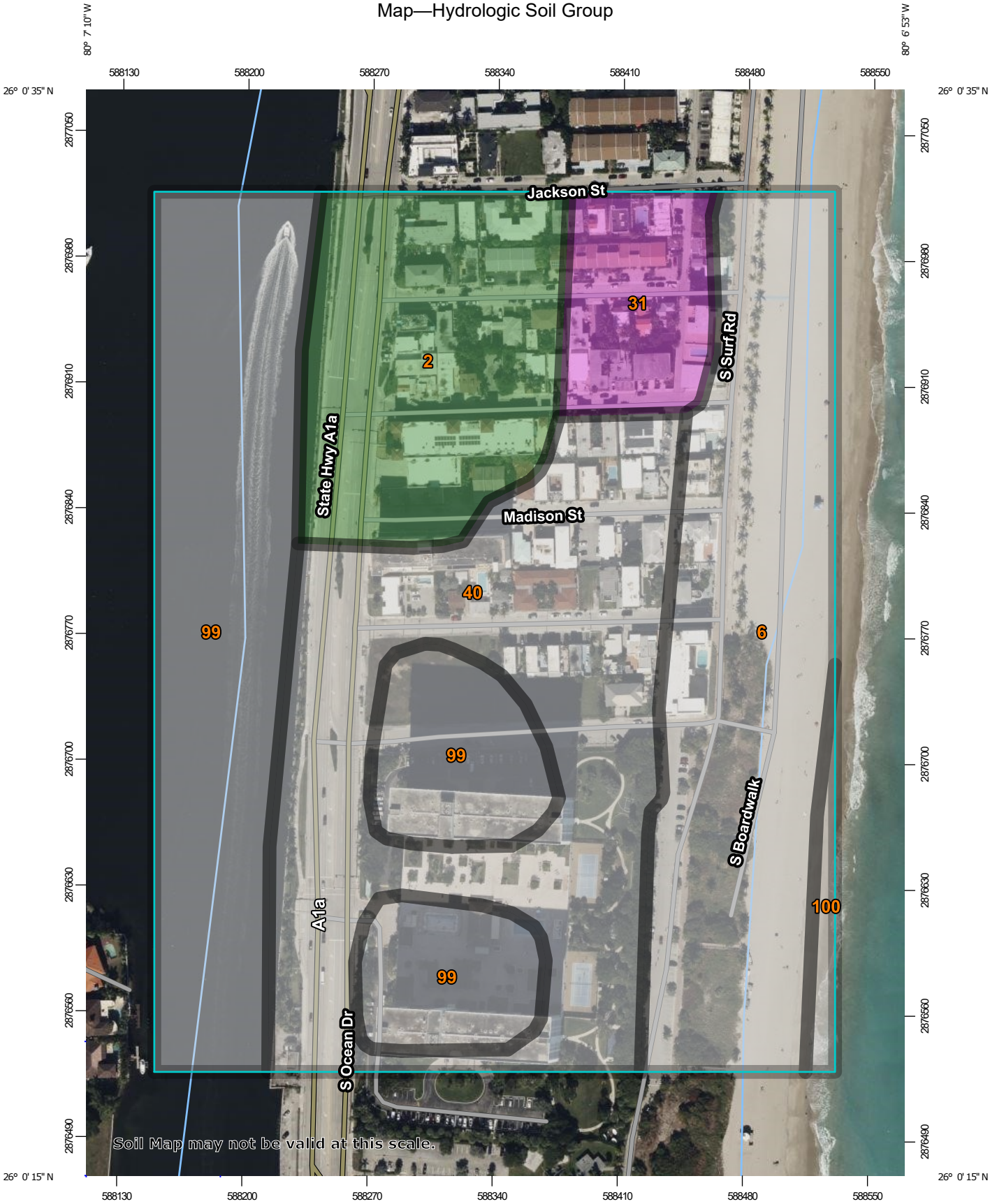
Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Map—Hydrologic Soil Group



Map Scale: 1:2,950 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 40 80 160 240

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Broward County, Florida, East Part
Survey Area Data: Version 18, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 14, 2022—Jan 24, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
2	Arents-Urban land complex	A/D	6.6	14.3%
6	Beaches		10.5	22.6%
31	Palm Beach-Urban land complex	A	2.5	5.5%
40	Urban land, 0 to 2 percent slopes		12.6	27.3%
99	Water		13.5	29.1%
100	Waters of the Atlantic Ocean		0.6	1.2%
Totals for Area of Interest			**46.3**	**100.0%**

Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

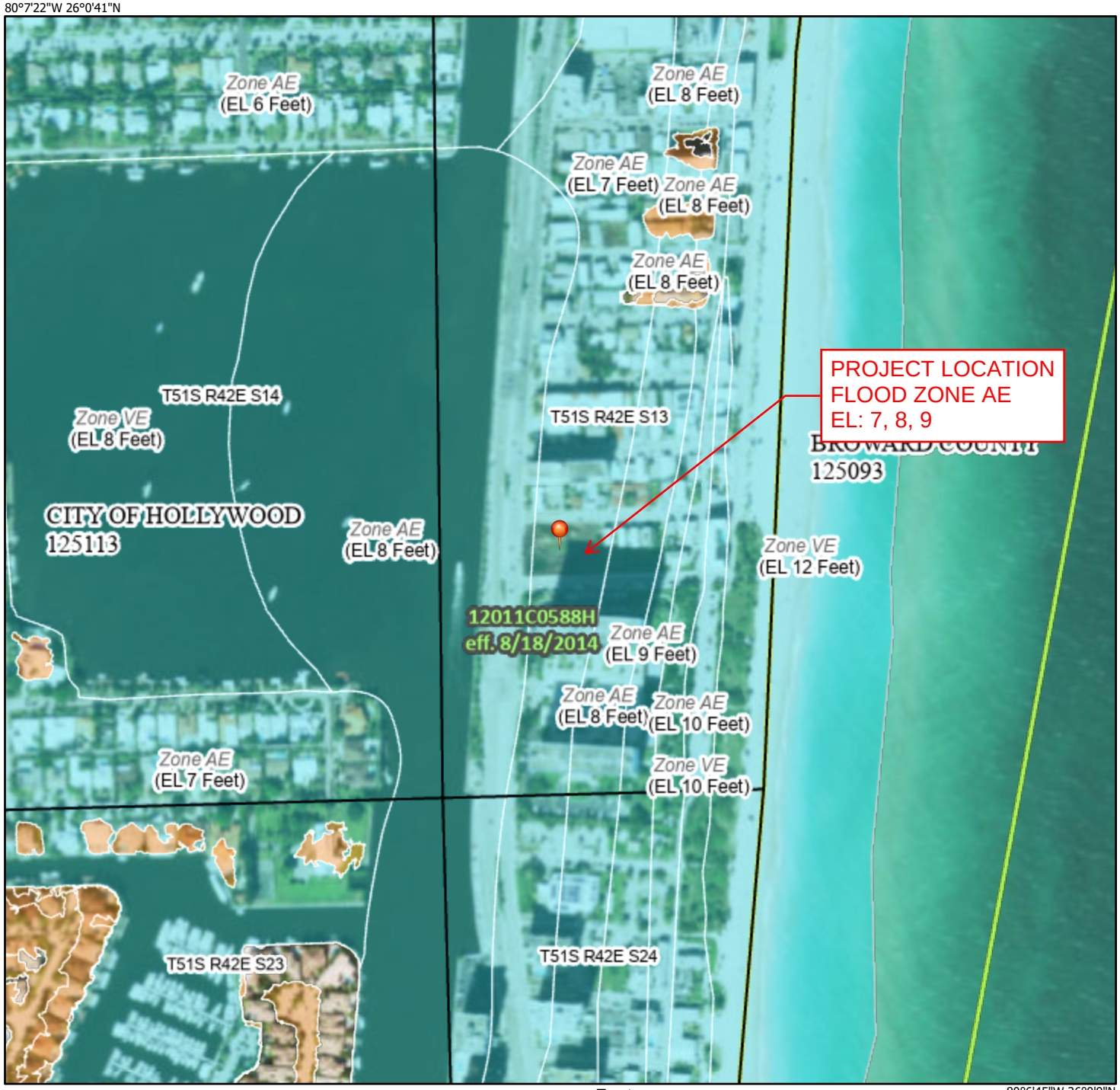
APPENDIX A-4

FEMA FLOOD INSURANCE RATE MAP

National Flood Hazard Layer FIRMette

FEMA

80°7'22"W 26°0'41"N



80°6'45"W 26°0'9"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

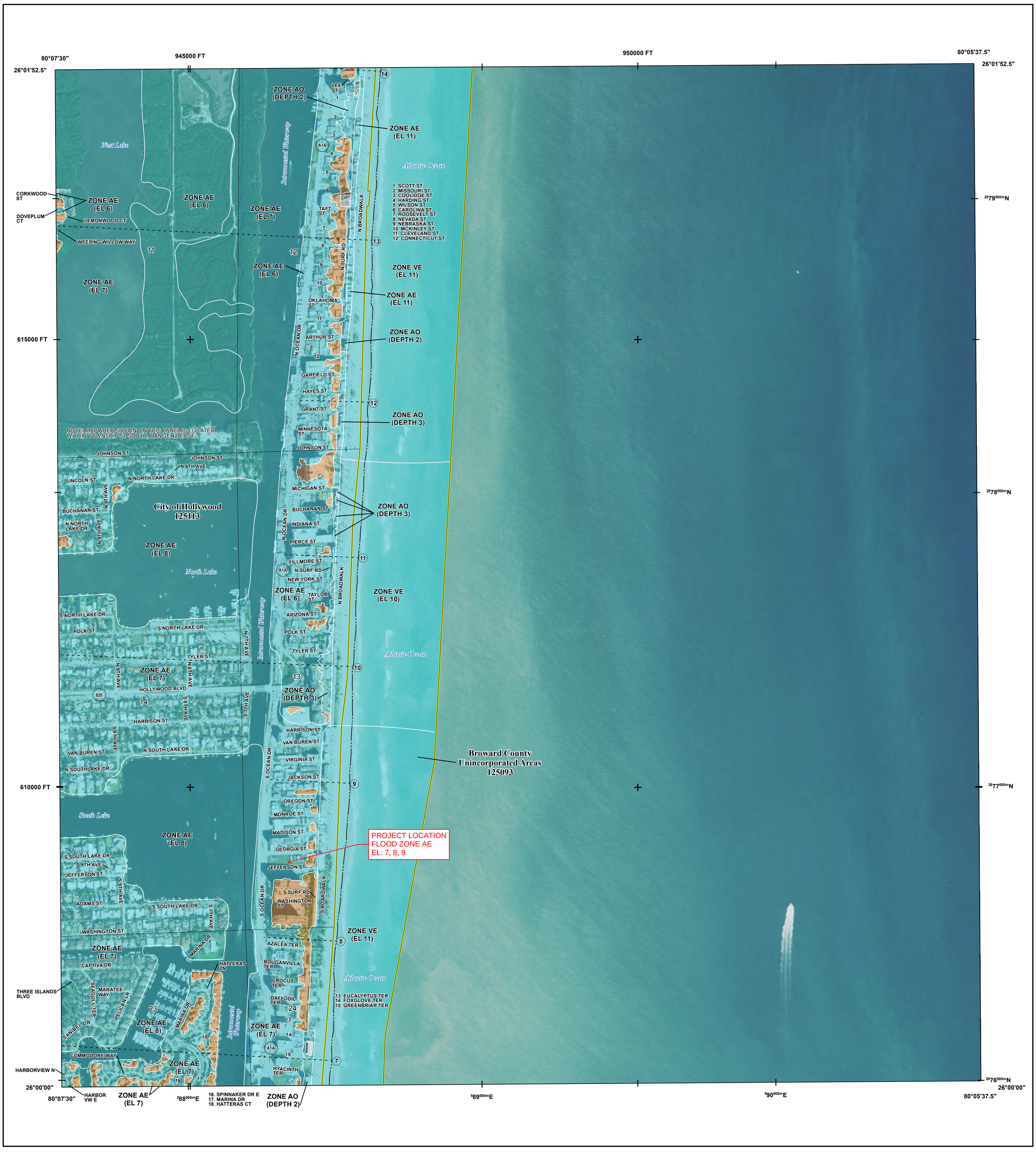
N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/14/2023 at 11:14 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) *Zone A,V, A99*
	With BFE or Depth *Zone AE, AO, AH, VE, AR*
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
	Future Conditions 1% Annual Chance Flood Hazard *Zone X*
	Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
	Area with Flood Risk due to Levee *Zone D*
OTHER AREAS	NO SCREEN Area of Minimal Flood Hazard *Zone X*
	Area of Undetermined Flood Hazard *Zone D*
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	E 18.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
	8 Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
	513 Base Flood Elevation Line (BFE)
OTHER FEATURES	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided by Broward County, dated 2003, 2004, 2009, and 2013; the U.S. Census Bureau, dated 2019; and the U.S. Department of Agriculture, dated 2018.

Coastal Barrier Resources System (CBRS) areas and "otherwise protected areas" (OPAs) are no longer shown on this map panel, but still may be present in this community. Current information on these areas is provided by the U.S. Fish & Wildlife Service (FWS). NFIP flood insurance is not available within CBRS areas for structures that are built or substantially improved on or after the dates indicated by FWS. Users should reference the most up-to-date information provided by FWS to determine NFIP insurance eligibility. The official maps and additional information regarding CBRS areas are provided on the FWS website at: www.fws.gov/cbra. FEMA also includes the official boundaries from FWS on our interactive and dynamic flood maps available through the FEMA Map Service Center.

SCALE

N

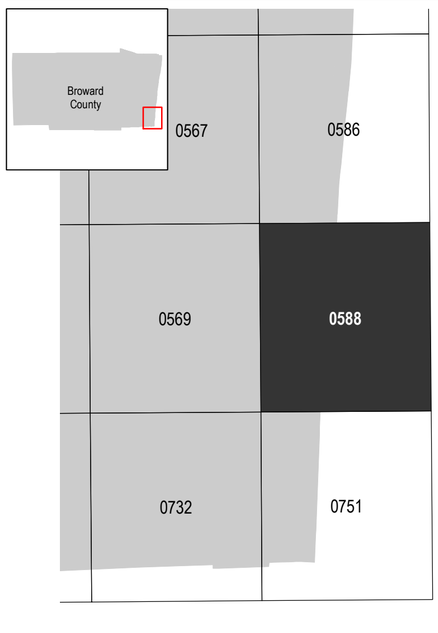
Map Projection:
State Plane Transverse Mercator, Florida East Zone 0901H; North American Datum 1983 HARN; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

BROWARD COUNTY, FLORIDA
and Incorporated Areas

PANEL **588** OF **751**

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
BROWARD COUNTY	125093	0588	J
HOLLYWOOD, CITY OF	125113	0588	J

PRELIMINARY
12/31/2019

VERSION NUMBER
2.6.3.5

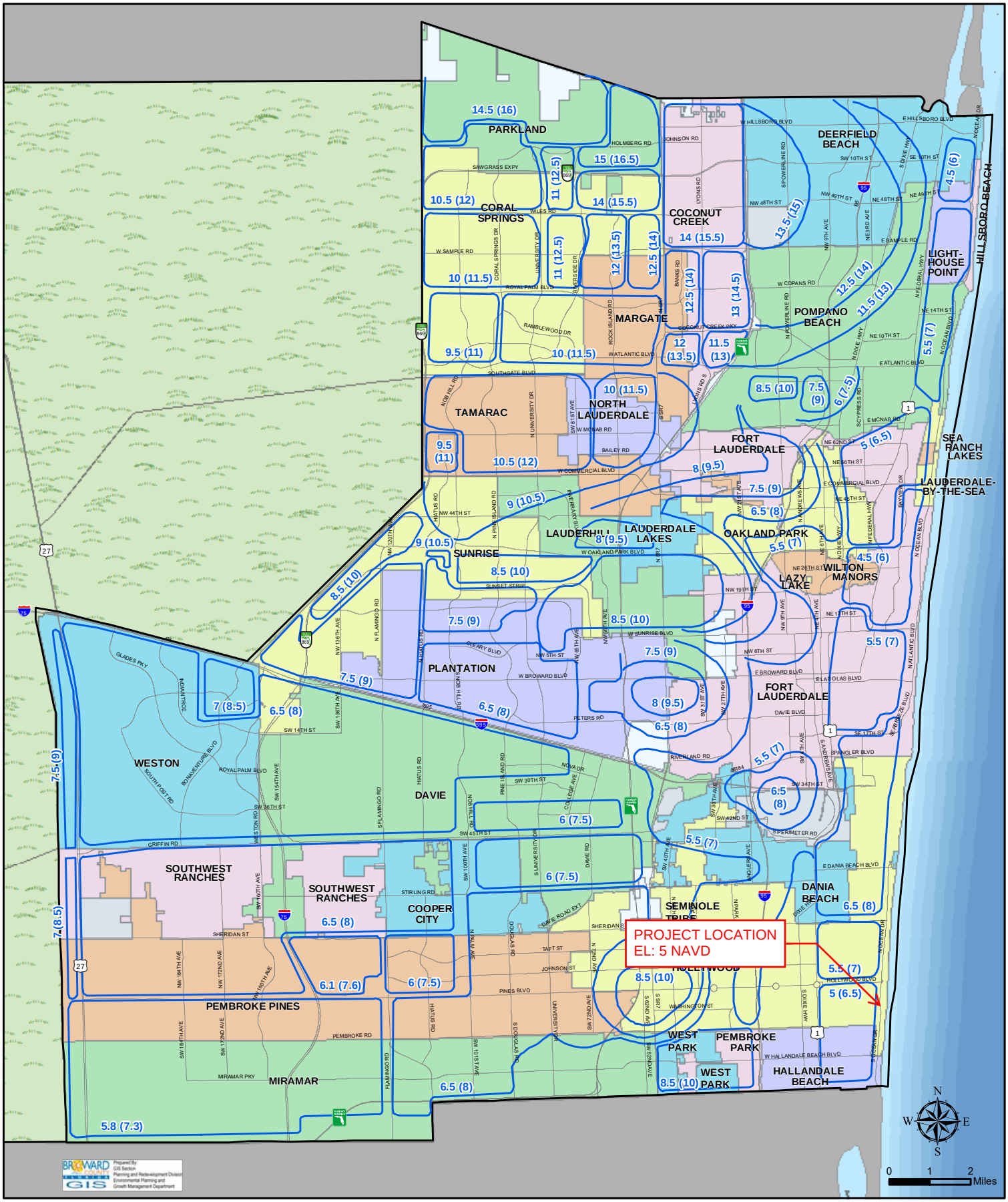
MAP NUMBER
12011C0588J

MAP REVISED

APPENDIX A-5

BROWARD COUNTY 100 YEAR FLOOD ELEVATION MAPS

BROWARD COUNTY 100 YEAR FLOOD ELEVATIONS



100 Year Flood Contours NAVD (NGVD)
Example: 6.5 (8)

This map is for conceptual purposes only and should not be used for legal boundary determinations.

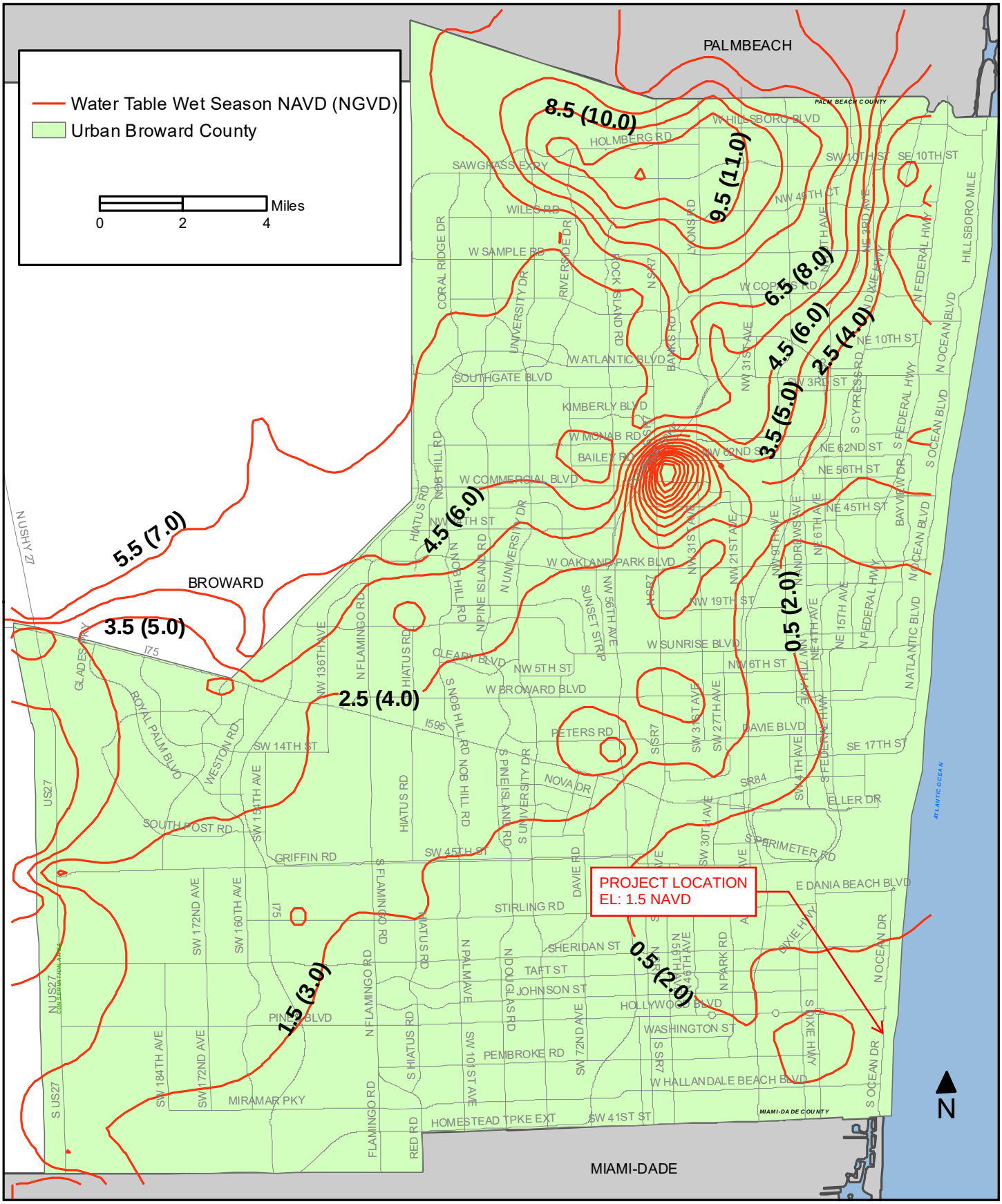
Elevations converted from NGVD to NAVD using the FEMA approved conversion factor for Broward County of (-)1.5, based on 1997 FEMA Flood Data

#12729 SNowicki 10/2014

APPENDIX A-6

BROWARD COUNTY
AVERAGE GROUNDWATER
ELEVATION MAPS

WATER TABLE MAP - AVERAGE WET SEASON



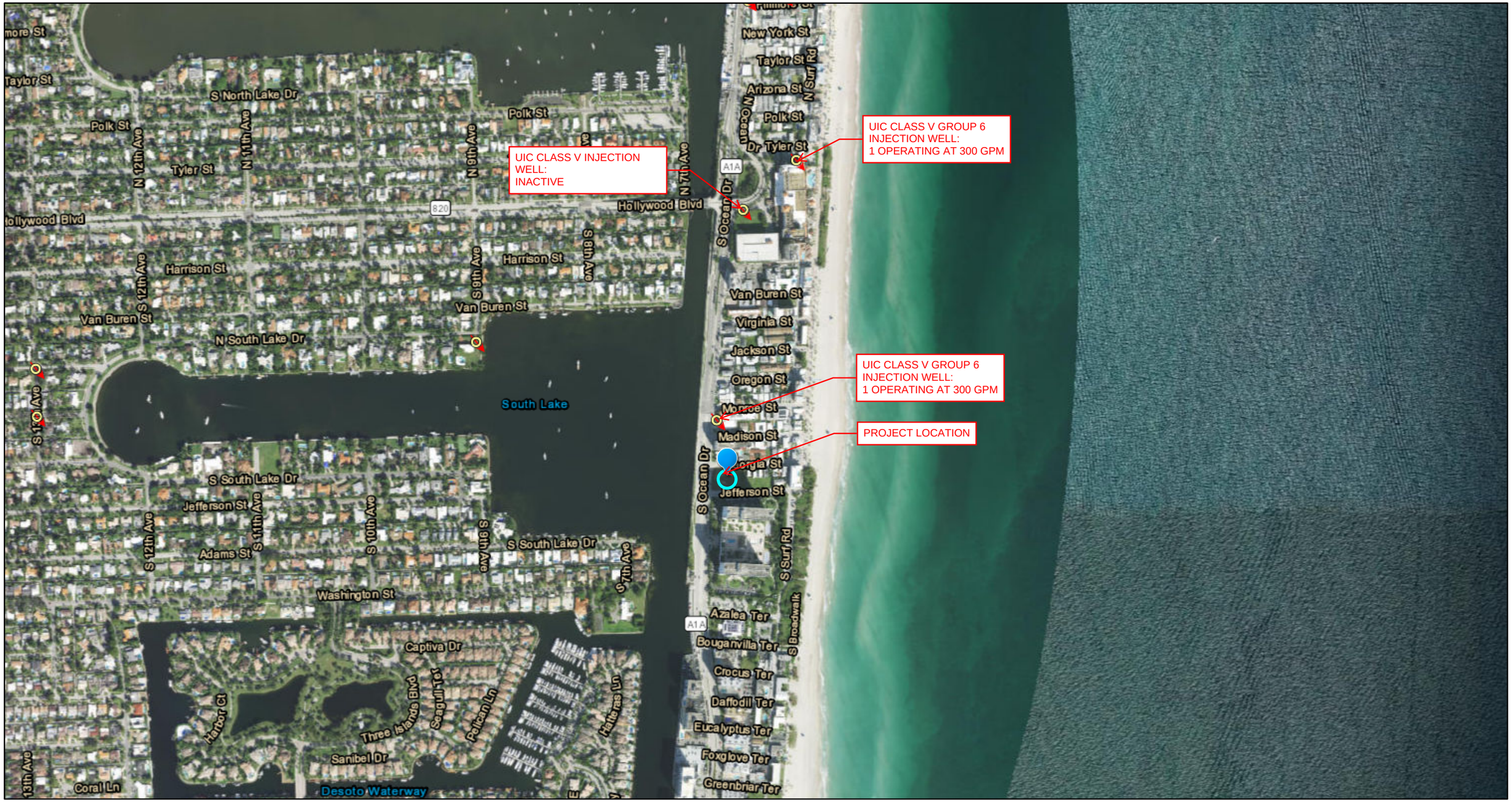
Division Name: Planning and Environmental Regulation
Department Name: Environmental Protection and Growth Management

This map is for conceptual purposes only and should not be used for legal boundary determinations.
Elevation converted from NGDV to NAVD using the FEMA approved conversion factor for Broward County of (-) 1.5

APPENDIX A-7

FDEP EXISTING DRAINAGE WELL LOCATION MAP

901 S Ocean Dr, Hollywood, Florida, 33019



March 23, 2023

UIC Class V Non-ASR Wells

1:9,028

0 0.1 0.2 0.4 mi

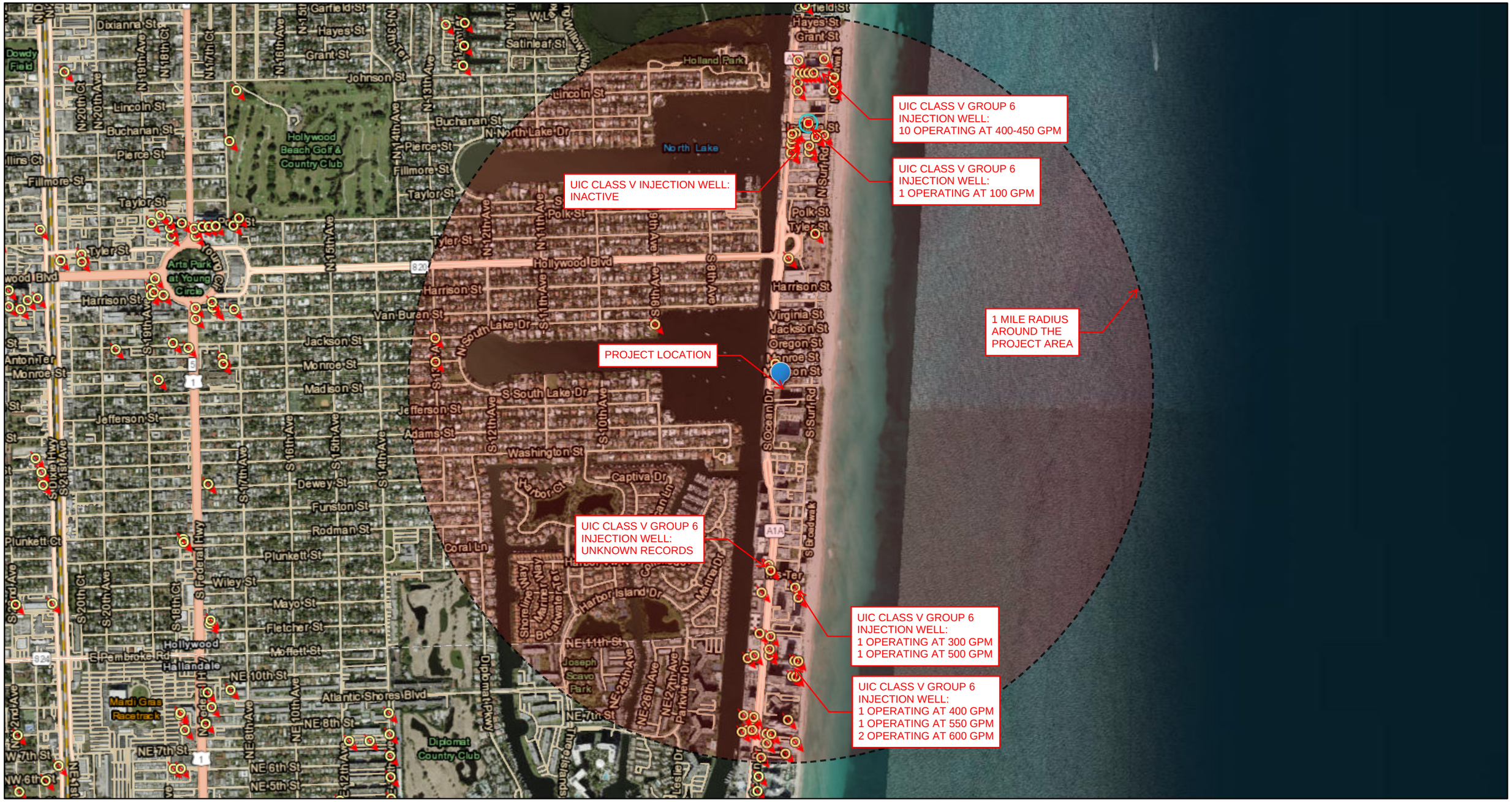
0 0.15 0.3 0.6 km

State of Florida, Maxar, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Esri, HERE, iPC, WRM

Map created by Map Direct, powered by ESRI.

Florida Department of Environmental Protection makes no warranty,expressed or implied,or assumes any legal liability or responsibility for the accuracy,completeness,or usefulness of any information,apparatus,product,or process disclosed,or represents that its use would not infringe privately owned rights.

901 S Ocean Dr, Hollywood, Florida, 33019



March 23, 2023

UIC Class V Non-ASR Wells

1:18,056

0 0.2 0.4 0.8 mi

0 0.33 0.65 1.3 km

State of Florida, Maxar, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Esri, HERE, iPC, WRM

Map created by Map Direct, powered by ESRI.

Florida Department of Environmental Protection makes no warranty,expressed or implied,or assumes any legal liability or responsibility for the accuracy,completeness,or usefulness of any information,apparatus,product,or process disclosed,or represents that its use would not infringe privately owned rights.

APPENDIX A-8

SFWMD FLOOD CRITERIA
(5-YEAR, 1-DAY RAINFALL)

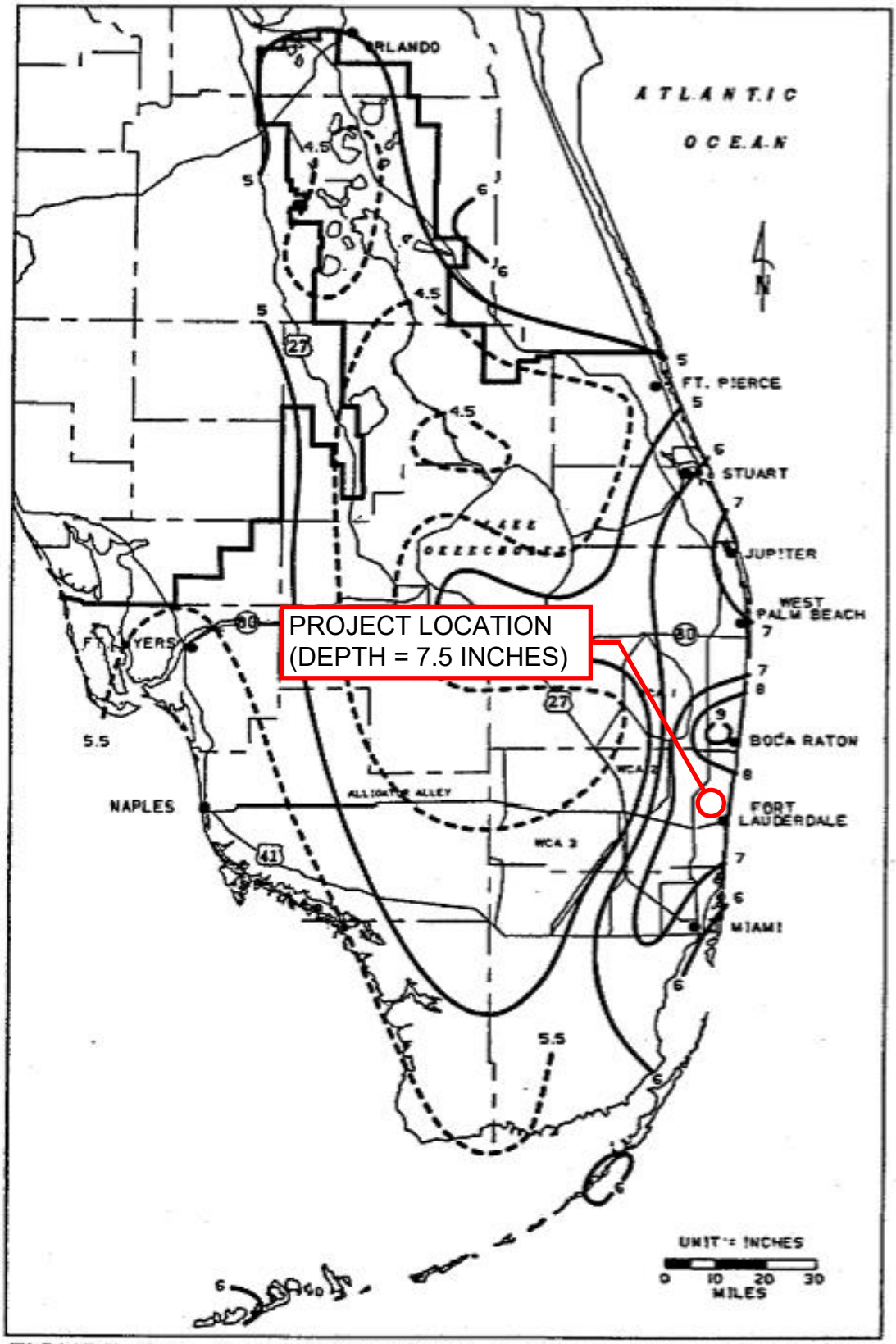


FIGURE C-3. 1-DAY RAINFALL: 5-YEAR RETURN PERIOD

APPENDIX A-9

SFWMD FLOOD CRITERIA
(10-YEAR, 1-DAY RAINFALL)

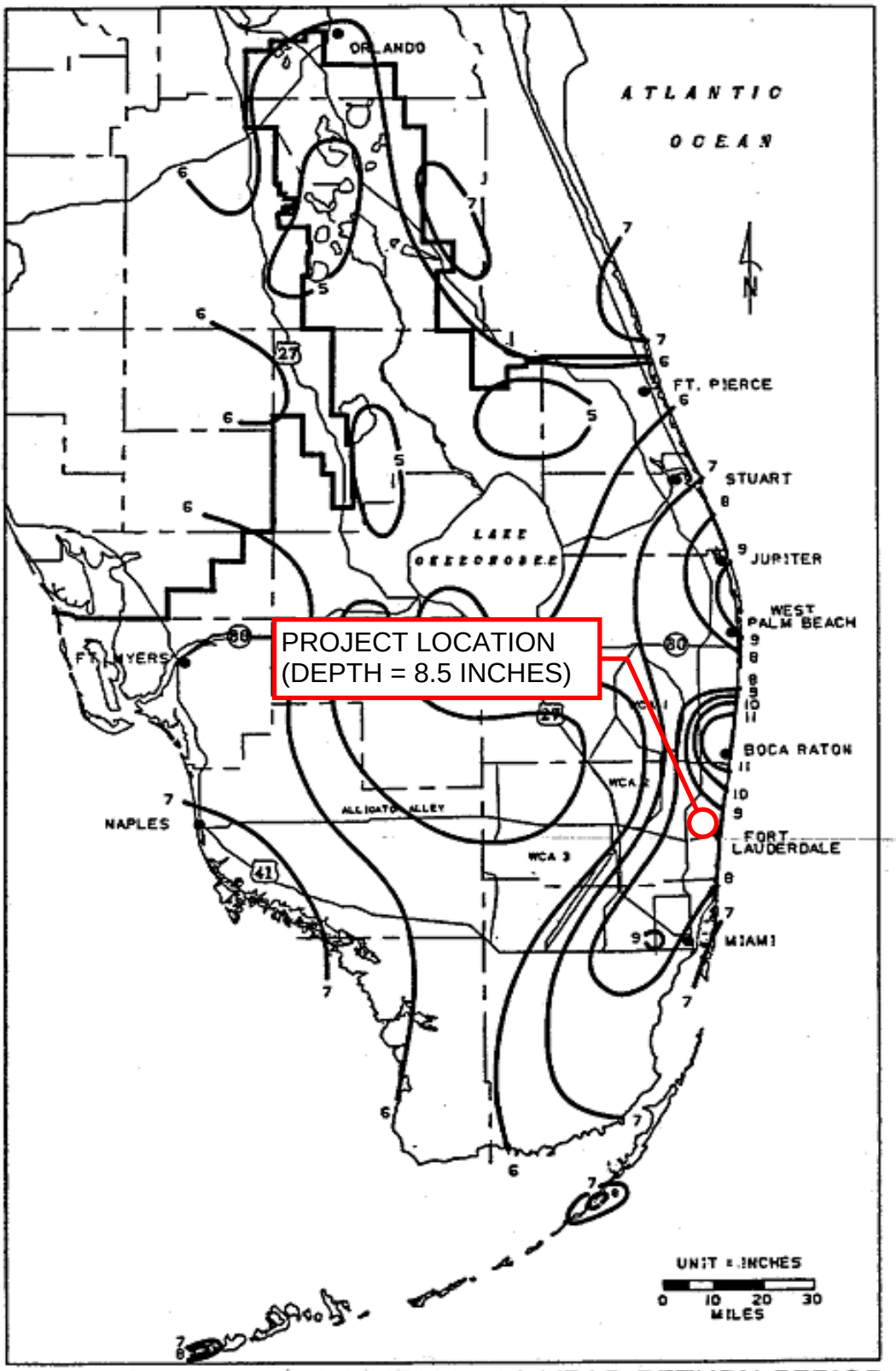


FIGURE C-4. 1-DAY RAINFALL: 10-YEAR RETURN PERIOD

APPENDIX A-10

SFWMD FLOOD CRITERIA
(25-YEAR, 3-DAY RAINFALL)

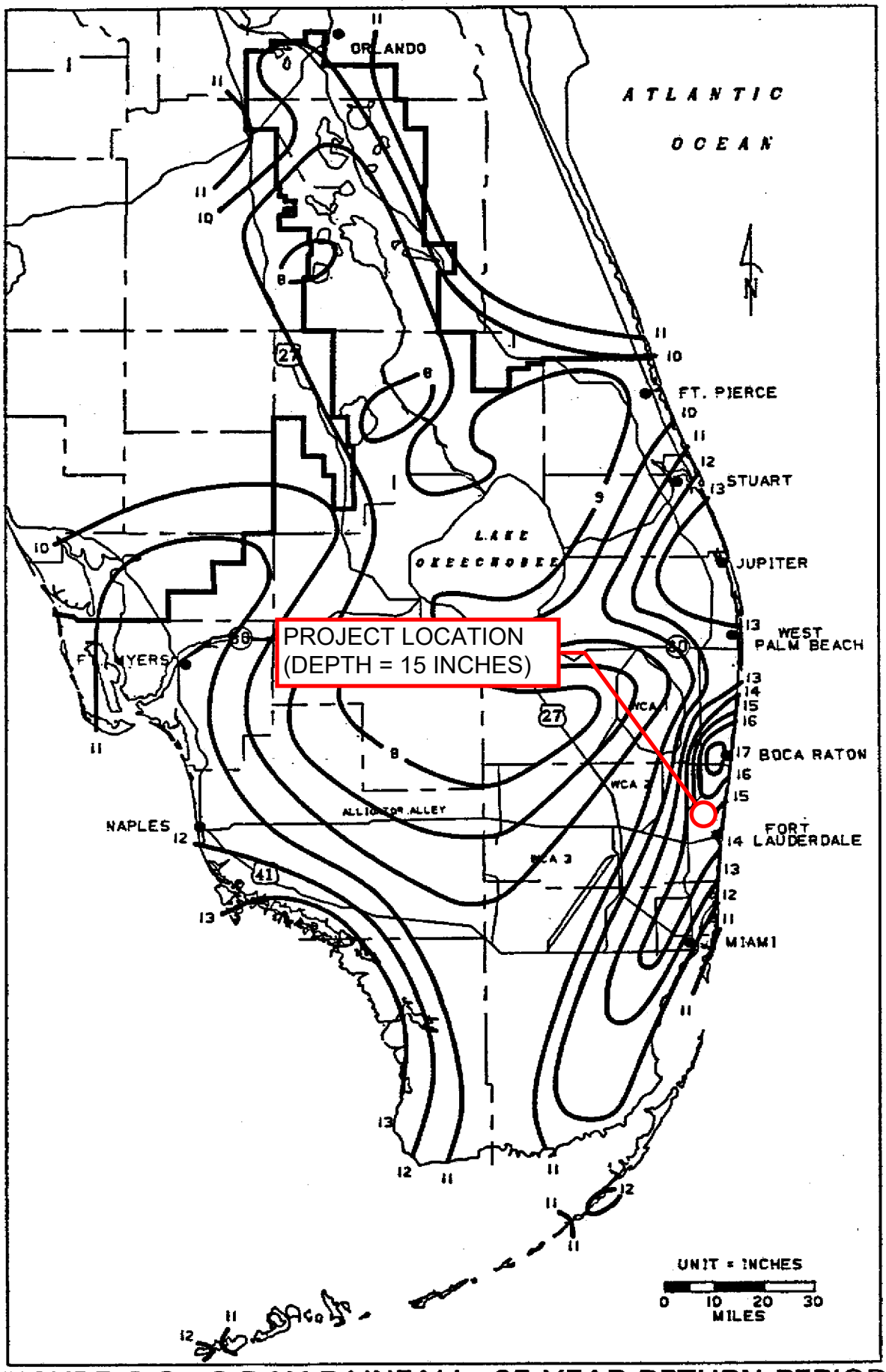


FIGURE C-8. 3-DAY RAINFALL: 25-YEAR RETURN PERIOD

APPENDIX A-12

SFWMD FLOOD CRITERIA
(100-YEAR, 3-DAY RAINFALL)

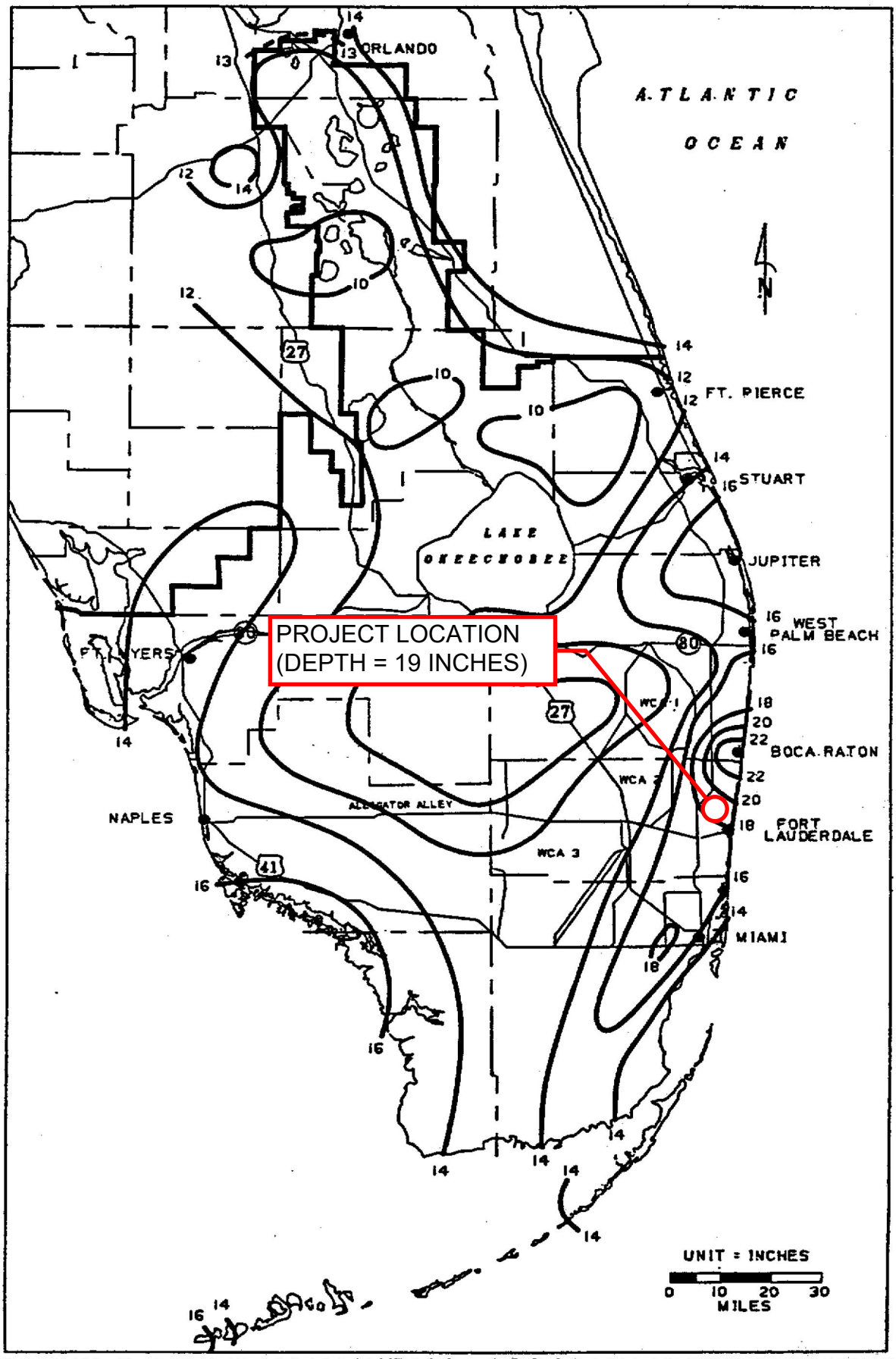
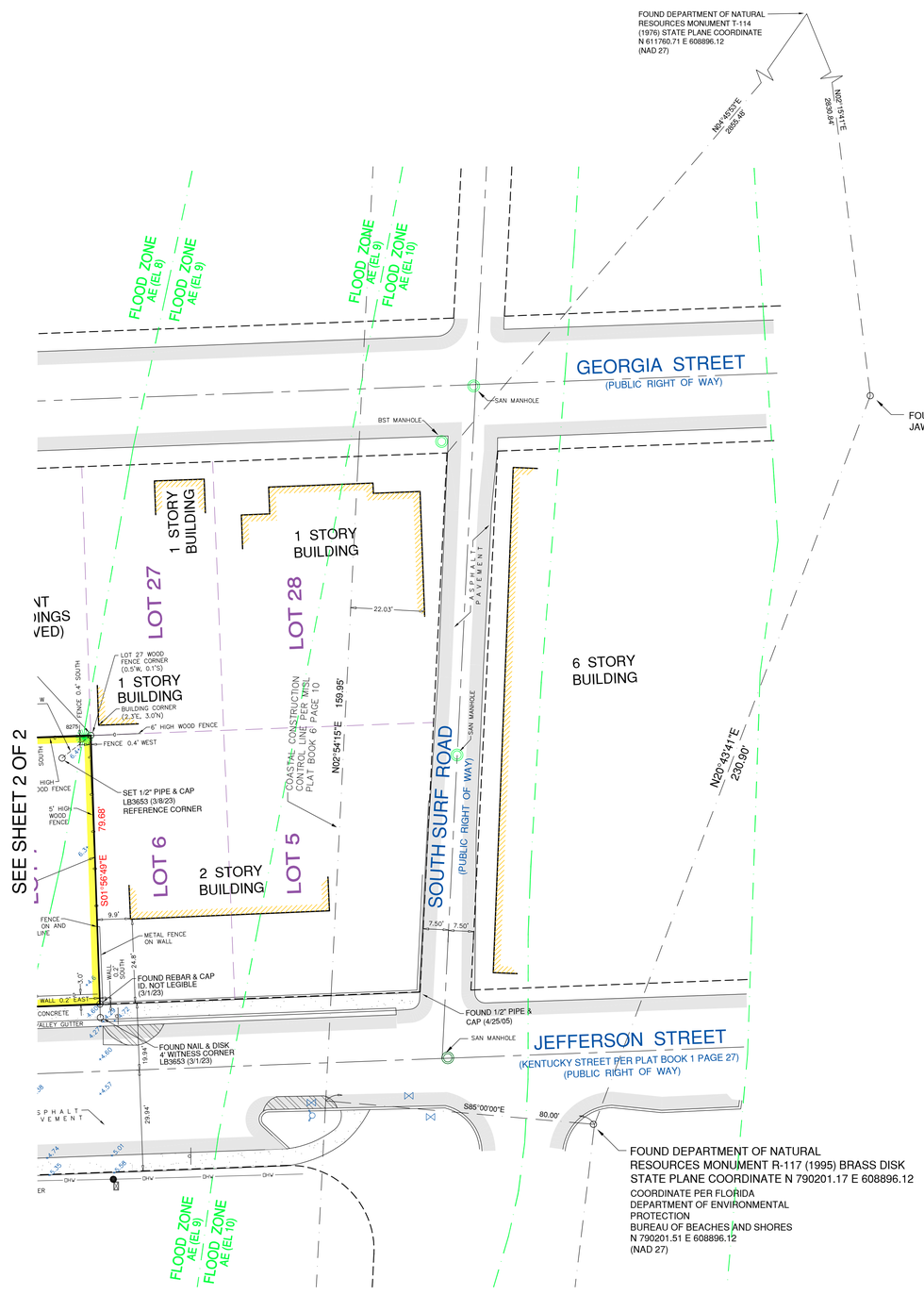


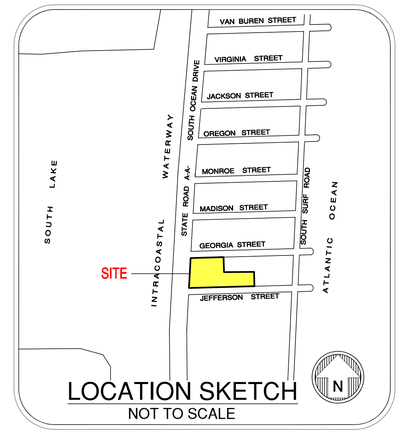
FIGURE C-9. 3-DAY RAINFALL: 100-YEAR RETURN PERIOD

Figure C-9

APPENDIX A-12

SURVEY





LOCATION SKETCH
NOT TO SCALE

GRAPHIC SCALE
0 10 20 40
(IN FEET)
1 inch = 20 ft.

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.sunshine811.com

LEGEND

= CATCH BASIN	= OVERHEAD UTILITY WIRE
= CATCH BASIN INLET	= CHAIN LINK FENCE
= MANHOLE	= LIMITED ACCESS RIGHT-OF-WAY LINE
= LIGHT POLE	= 0.5' CURB
= WATER METER	= 2.00' CURB & GUTTER
= WATER VALVE	= WALL
= UTILITY POLE	EL. = ELEVATION
= RISER	INV. = INVERT
= FIRE HYDRANT	B.O.S. = BOTTOM OF STRUCTURE
= HANDHOLE	T.O.B. = TOP OF BAFFLE
= SEWER/GAS VALVE	P.B. = PLAT BOOK PG. = PAGE
= CLEANOUT	O.R.B. = OFFICIAL RECORDS BOOK
= WELL	= CONCRETE
= DRAIN	= ASPHALT PAVEMENT
= GRADE ELEVATION	R/W = RIGHT-OF-WAY
	℄ = CENTER LINE
= BOLLARD	M = MONUMENT LINE
	= SIGN

TREE TABLE - 3/15/23

TREE NUMBER	COMMON NAME	D.B.H. (INCHES)	HEIGHT (FEET)	SPREAD (FEET)
8236	Palm	12	14	20
8237	Palm	5	12	10
8261	Seagrape	6	10	12
8275	Palm	5	12	10
8279	Palm	4	12	12
8280	Schefflera		18	18
8322	Palm	12	10	10
8323	Palm	5	24	8
8351	Palm	22	22	22
8352	Triple Seagrape	8	20	22
8353	Palm	15	20	20

LEGAL DESCRIPTION:

PARCEL 1:
Lots 12, 13, 14, 15, 16 17, 18, 19, 20, 21, Block 17, Hollywood Beach, according to the map or plat thereof, as recorded in Plat Book 1, Page 27, of the Public Records of Broward County, Florida.

LESS that part of Lot 15, Block 17 of Hollywood Beach, according to the map or plat thereof, as recorded in Plat Bok 1, Page 27, of the Public Records of Broward County, Florida, in Section 13, Township 51 South, Range 42 East, lying Easterly of State Road A-1-A, said part being more particularly described as follows:

Commence at the Southeast corner of said Lot 15; thence run Westerly along the South line of said Lot 15 a distance of 107.28 feet to the Point of Beginning; thence continue along the South line of said Lot 15 a distance of 12.82 feet; thence North 04°01'57" East a distance of 14.70 feet; thence South 37°57'15" East a distance of 18.12 feet to the Point of Beginning.

AND LESS that part of Lot 18 of said Block 17 of Hollywood Beach commencing a the Northeast corner of Lot 18; thence run Westerly along the North line of said Lot 18 a distance of 94.57 feet to the Point of Beginning; thence continue along the North line of said Lot 18 a distance of 9.43 feet; thence South 04°01'57" West a distance of 12.52 feet; thence North 38°53'35" East a distance of 16.42 feet to the Point of Beginning.

Parcel 2:
Lots 7, 8, 9, 10, 11 and the West ½ of Lot 22, Block 17, Hollywood Beach, according to the map or plat thereof, as recorded in Plat Book 1, Page 27, of the Public Records of Broward County, Florida.

SURVEYOR'S NOTES:

- This site lies in Section 13, Township 51 South, Range 42 East, City of Hollywood, Broward County, Florida.
- All documents are recorded in the Public Records of Broward County, Florida unless otherwise noted.
- Lands shown hereon were NOT abstracted for restrictions, easements and/or rights-of-way of records.
- Note: State Road A-1-A right-of-way width is 106 feet, per Broward County Trafficways Plan, last revised on June 24, 2010.
- Bearings hereon are referred to an assumed value of S 03°38'12" W for the East Right of Way line of State Road A-1-A, and evidenced by (2) set nail & disks.
- Elevations shown hereon are relative to the North American Vertical Datum of 1988, based on DOT bench mark A-11, Elevation +2.027' and located by an aluminum disk stamped "K45" on the West side of State Road A-1-A.
- Elevations shown hereon have not been updated to reflect possible settlement and/or environmental changes after the date of the original survey.
- Lands shown hereon are located within an area having Zone Designations of AE(7), AE(8), AE(9) by the Federal Emergency Management Agency (FEMA), on Flood Insurance Rate Map No. 12011C0588H, for Community No. 125113, dated August 18, 2014, and is relative to the North American Vertical Datum of 1988 (NAVD 88).
- Trees shown are surveyed for their horizontal location and/or size. Identification and/or name verification of all trees should be confirmed by the Division of Forestry or a professional in that field.
- The location of the Coastal Construction Control Line in Broward County was determined by surveys using National Geodetic Survey (N.G.S.) Stations and State Plane Coordinates as horizontal control with reference being made to the N.G.S. computation of the the North American 1927 Datum Florida East Zone.
- Net lands shown hereon per the legal description containing 54,424 square feet, or 1.249 acres, more or less.
- Gross Lot Area, containing 83,279 square feet, or 1.9118 acres, more or less, and being to the center of the existing right of ways, of Jefferson Street, Georgia Street and State Road A-1-A as advised by Julie Krolak, Principal Planner, City of Hollywood, Planning and Zonning Department, on January 14, 2011.
- All horizontal control measurements are within a precision of 1:10,000.
- This map is intended to be displayed at the graphic scale shown hereon or smaller.
- Roof overhang not located unless otherwise shown.
- Improvements shown beyond the (scope/limits) of this boundary & topographic survey may not be current or located.
- Underground improvements and/or underground encroachments not shown unless otherwise indicated.
- The approximate location of all utilities shown hereon were determined from As-Built plans and/or on-site locations and should be verified before construction.
- The locations of overhead utility lines are graphically shown to indicate the approximate connection points and do not reflect the actual location, number or type of wires.
- Legal description shown hereon furnished by client and no claims as to ownership are made or implied.

SURVEYOR'S CERTIFICATION:

I hereby certify that this "Boundary & Topographic Survey" was made under my responsible charge on May 29, 2003 and last updated March 15, 2023, and meets the applicable codes as set forth in the Florida Administrative Code, pursuant to Section 472.027, Florida Statutes. The fieldwork was completed on March 15, 2023.

"Not valid without the signature and original raised seal or a digital signature of the Florida Licensed Surveyor and Mapper shown below"

FORTIN, LEAVY, SKILES, INC., LB3653

By: _____
Daniel C. Fortin Jr., For The Firm
Surveyor and Mapper, LS6435
State of Florida.

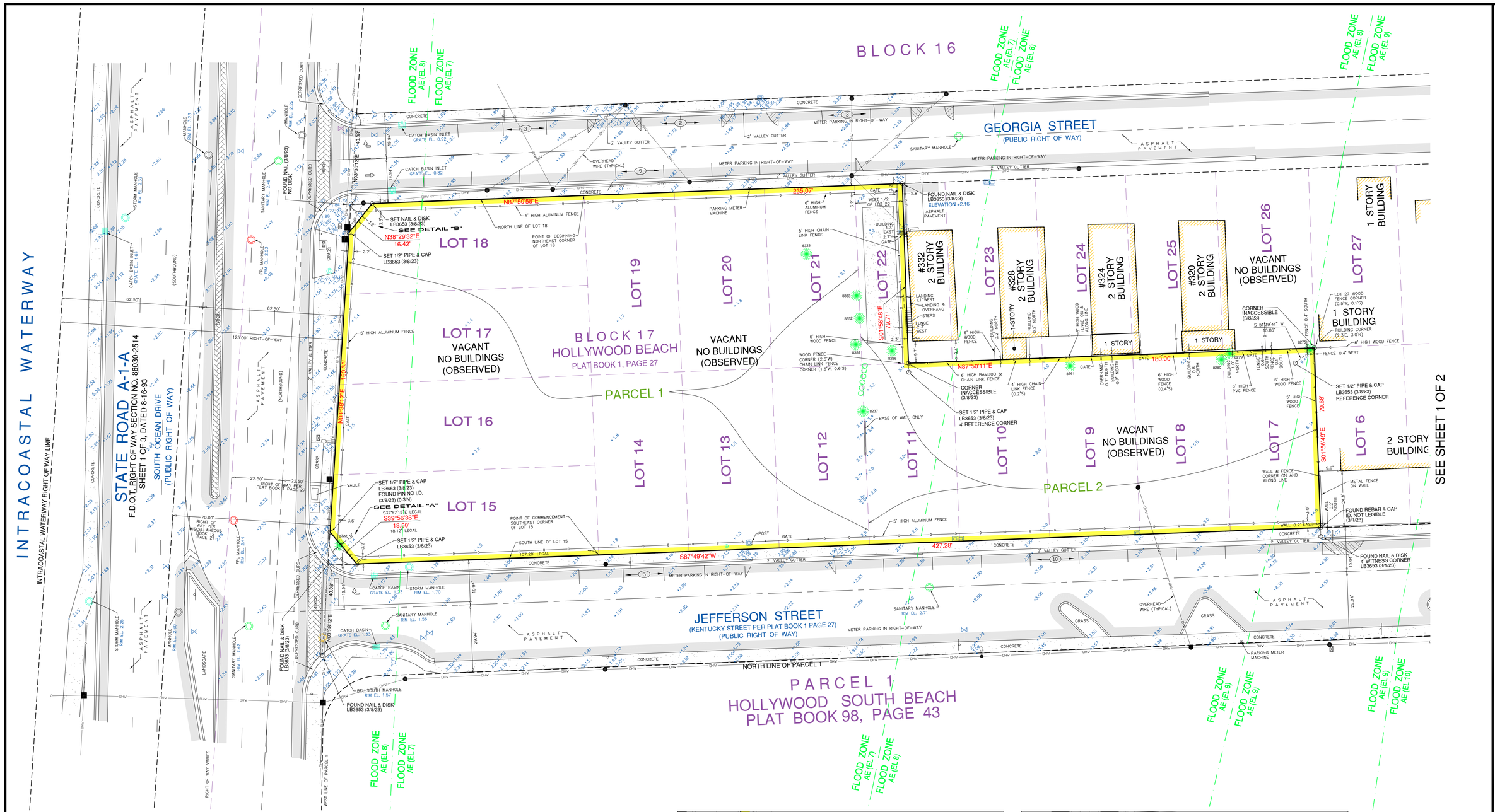
This Drawing is the Property of Fortin, Leavy, Skiles, Inc. and is an Instrument of Service not to be Reproduced in Whole or in Part without the Express WRITTEN Permission of Same.

No.	O.N.	Revision Description	
10	230145	UPDATE SURVEY (3/15/23) SJH	DWF
9	110100	ADD R/W WIDTH DIMENSIONS & NOTE	GEM
8	110017	AMEND TO ALTA & CITY REQUIREMENTS	DANJR
7	101101	UPDATE SURVEY (1-10-11) CJ	DANJR
6	101006	TREE SURVEY (12/06/10) RLL	JDI

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th Street / North Miami Beach, Florida 33162
Phone 305-653-4493 / Fax 305-651-7152 / Email fls@flssurvey.com

BOUNDARY & TOPOGRAPHIC SURVEY
HOLLYWOOD MOON
CITY OF HOLLYWOOD BROWARD COUNTY FLORIDA

Original Date	5/29/03
Scale	1"=20'
Drawn By	DWF
CAD No.	021202
Plotted	3/29/23 5:06p
Ref. Dwg.	2002-127
Field Book	522/57-59 JWL
Job No.	030890
Dwg. No.	2002-126-1-NAVD
Sheet	1 of 2



LEGEND

- = CATCH BASIN
- = CATCH BASIN INLET
- = MANHOLE
- = LIGHT POLE
- = WATER METER
- = WATER VALVE
- = UTILITY POLE
- = RISER
- = FIRE HYDRANT
- = HANDHOLE
- = SEWER/GAS VALVE
- = CLEANOUT
- = WELL
- = DRAIN
- 8.5' = GRADE ELEVATION
- = BOLLARD
- —OHW— = OVERHEAD UTILITY WIRE
- = CHAIN LINK FENCE
- = LIMITED ACCESS RIGHT-OF-WAY LINE
- = 0.5' CURB
- = 2.00' CURB & GUTTER
- = WALL
- EL. = ELEVATION
- INV. = INVERT
- B.O.S. = BOTTOM OF STRUCTURE
- T.O.B. = TOP OF BAFFLE
- P.B. = PLAT BOOK PG. = PAGE
- O.R.B. = OFFICIAL RECORDS BOOK
- = CONCRETE
- = ASPHALT PAVEMENT
- R/W = RIGHT-OF-WAY
- ℄ = CENTER LINE
- M = MONUMENT LINE
- = SIGN

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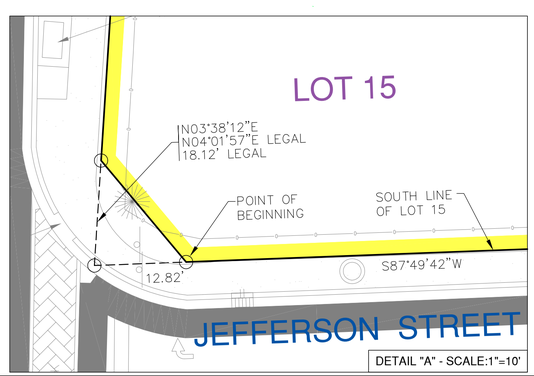
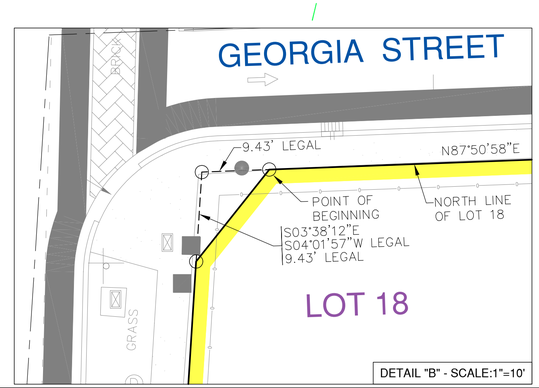
NORTH

GRAPHIC SCALE
0 10 20 40
(IN FEET)
1 inch = 20 ft.



DETAIL "A" - SCALE:1"=10'



DETAIL "B" - SCALE:1"=10'

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No.		Revision Description	
10	230145	UPDATE SURVEY (3/15/23) SJH	DWF
9	110100	ADD R/W WIDTH DIMENSIONS & NOTE	GEM
8	110017	AMEND TO ALTA & CITY REQUIREMENTS	DANJR
7	101101	UPDATE SURVEY (1-10-11) CJ	DANJR
6	101006	TREE SURVEY (12/06/10) RLL	JDI
No.	O.N.		

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th Street / North Miami Beach, Florida 33162
Phone 305-653-4493 / Fax 305-651-7152 / Email fls@flssurvey.com

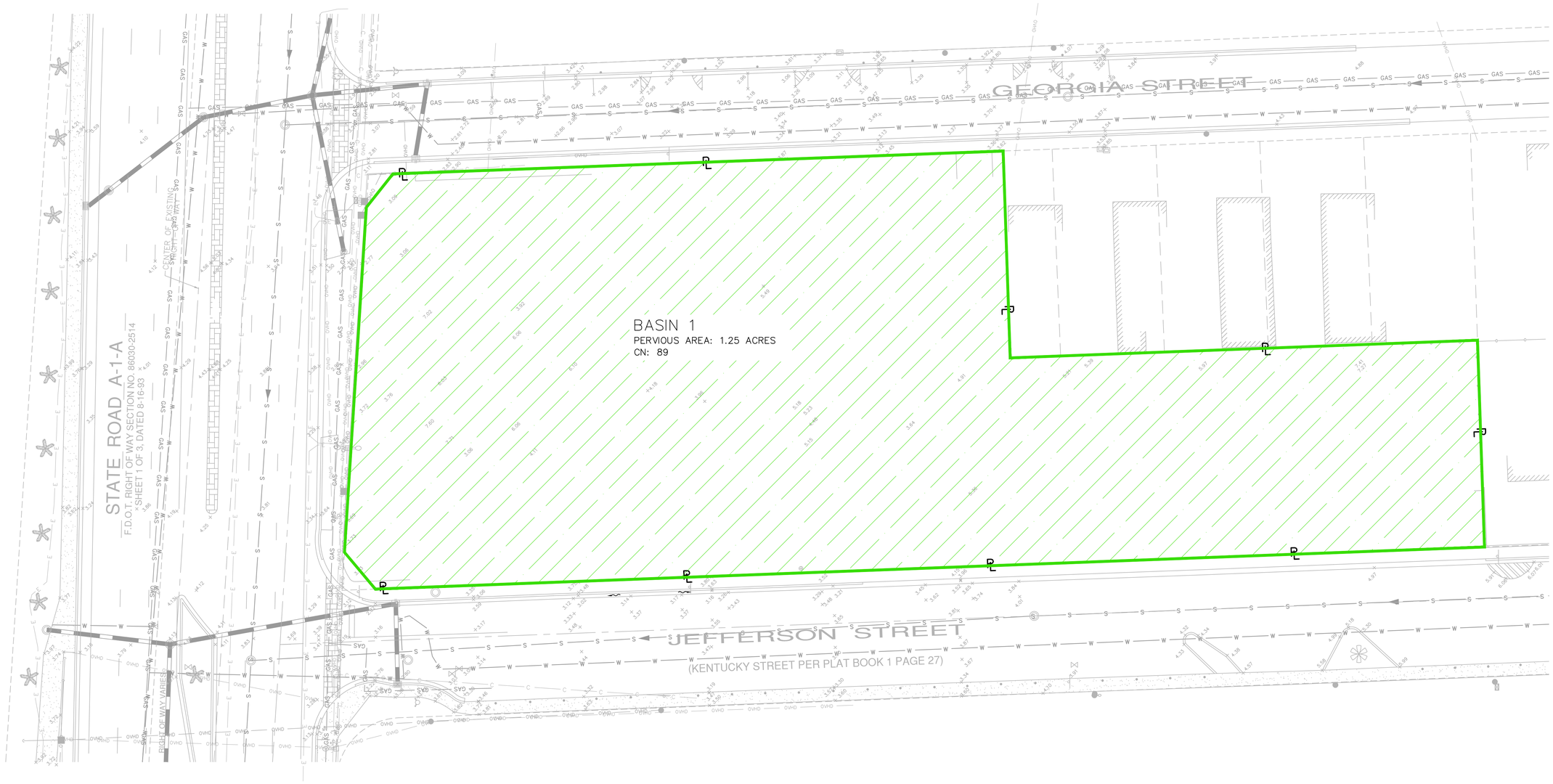
BOUNDARY & TOPOGRAPHIC SURVEY
HOLLYWOOD MOON
CITY OF HOLLYWOOD BROWARD COUNTY FLORIDA

Original Date	5/29/03
Scale	1"=20'
Drawn By	DWF
CAD No.	021202
Plotted	3/29/23 5:06p
Ref. Dwg.	2002-127
Field Book	522/57-59 JWL
Job No.	030890
Dwg. No.	2002-126-1-NAVD
Sheet	2 of 2

APPENDIX B: DRAINAGE CALCULATIONS

APPENDIX B-1-1

EXITSING CONDITIONS
DRAINAGE BASIN MAP



LEGEND

- PROPERTY LINE AND/OR RIGHT-OF-WAY
- BUILDING OUTLINE
- ROAD CENTERLINE
- EXIST. STORM PIPE
- PROP. STORM PIPE
- PROP. EXFILTRATION TRENCH
- PROP. DRAINAGE WELL
- EXIST. STORM MANHOLE
- PROP. STORM CLEANOUT
- EXIST. CATCH BASIN
- 6.54 EXIST. GRADE ELEVATION
- 0.30% PROP. FLOW LINE
- 0.30% SLOPE ARROW
- DRAINAGE BASIN

ONSITE DRAINAGE AREAS (EXISTING)				
BASIN	IMPERVIOUS (ACRES)	BUILDING & OVERHANG (ACRES)	PERVIOUS (ACRES)	TOTAL (ACRES)
1	–	–	1.25	1.25
TOTAL	–	–	1.25	1.25

1. EXISTING GRADES AND DRAINAGE HAVE BEEN TAKEN FROM A SURVEY PREPARED BY FORTIN, LEAVY, SKILES, INC AND ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, BASED ON CITY OF HOLLYWOOD BENCH MARK, ELEVATION +7.27. LOCATED AT MISSOURI & BOARDWALK

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No.	REVISIONS	DATE	BY

Kimley»Horn
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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
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WWW.KIMLEY-HORN.COM REGISTRY No. 35106

AUSTIN P. BOUCHARD ★ No 82461 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

KHA PROJECT	043235024
DATE	04/07/2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	APB

DATE: 3/31/2023

EXISTING DRAINAGE BASIN MAP

HOLLYWOOD MOON

PREPARED FOR
ARQUITECTONICA, INC.

CITY OF HOLLYWOOD FLORIDA

SHEET NUMBER
EX-1

Plotted By:Wood, Austin Sheet Set:Hollywood Moon Layout:C-400 PAVING GRADING & DRAINAGE PLAN March 31, 2023 10:56:07am K:\FTL_Civil\043 Jobs\043235024 Hollywood Wind 901 S Ocean Drive\Design\CADD\Exhibits\2023.03.22 Drainage Exhibit\existing drainage basin.dwg
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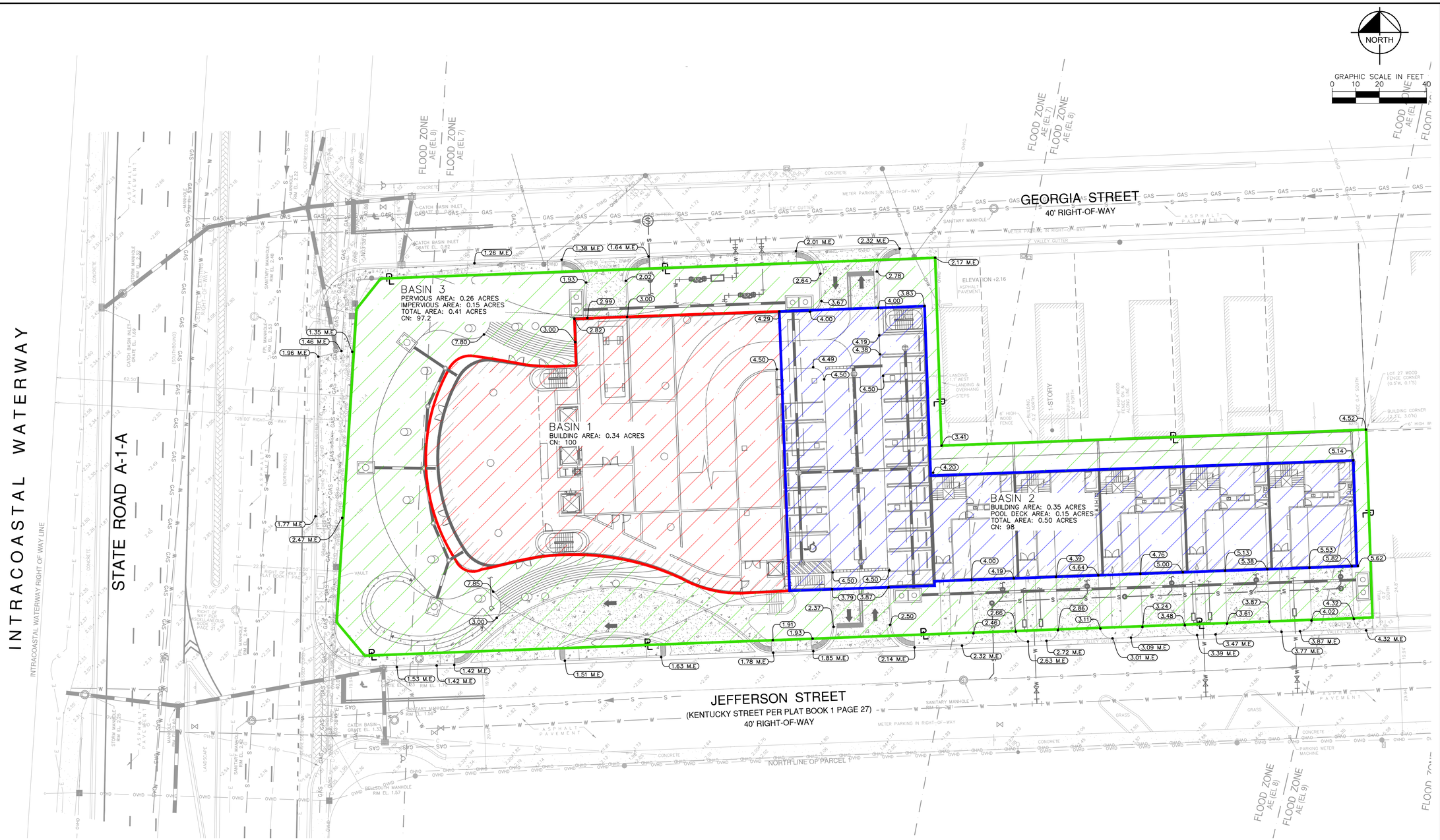
APPENDIX B-1-2

PROPOSED CONDITIONS
DRAINAGE BASIN MAP



LEGEND

- PROPERTY LINE AND/OR RIGHT-OF-WAY
- BUILDING OUTLINE
- ROAD CENTERLINE
- EXIST. STORM PIPE
- PROP. STORM PIPE
- PROP. EXFILTRATION TRENCH
- PROP. DRAINAGE WELL
- EXIST. STORM MANHOLE
- PROP. STORM CLEANOUT
- EXIST. CATCH BASIN
- PROP. STORM MANHOLE
- PROP. YARD DRAIN
- EXIST. GRADE ELEVATION
- 0.30% PROP. FLOW LINE
- 0.30% SLOPE ARROW
- 0.00 M.E. MATCH EXIST. GRADE
- 0.00 PROP. SPOT ELEVATION
- DRAINAGE BASIN

ONSITE DRAINAGE AREAS (PROPOSED)				
BASIN	IMPERVIOUS (ACRES)	BUILDING & OVERHANG (ACRES)	PERVIOUS (ACRES)	TOTAL (ACRES)
1	–	0.34	–	0.34
2	0.32	0.18	–	0.50
3	0.15	–	0.26	0.41
TOTAL	0.47	0.52	0.26	1.25

1. EXISTING GRADES AND DRAINAGE HAVE BEEN TAKEN FROM A SURVEY PREPARED BY FORTIN, LEAVY, SKILES, INC AND ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, BASED ON CITY OF HOLLYWOOD BENCH MARK, ELEVATION +7.27. LOCATED AT MISSOURI & BOARDWALK

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No.	REVISIONS	DATE	BY

Kimley»Horn

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WWW.KIMLEY-HORN.COM REGISTRY No. 35106

AUSTIN P. BOUCHARD ★ No 82461 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

DATE: 08/15/2023

KHA PROJECT	043235024
DATE	04/07/2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	APB

PROPOSED DRAINAGE BASIN MAP

HOLLYWOOD MOON
PREPARED FOR
ARQUITECTONICA, INC.

CITY OF HOLLYWOOD FLORIDA

SHEET NUMBER
EX-2

Plotted By:Wood, Justin Sheet Set:Hollywood Moon Layout:C-400 PAVING GRADING & DRAINAGE PLAN August 10, 2023 08:00:13am K:\FTL_Civil\043 Jobs\043235024 ARQ Hollywood Wind 901 S Ocean Drive\Design\CADD\Exhibits\2023.03.22 Drainage Exhibit\proposed drainage basin.dwg
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APPENDIX B-2

BASIN AND DRAINAGE WELL DATA

APPENDIX B-2-1

PRE-DEVELOPED DRAINAGE CALCULATIONS

Land Use + Soil Storage Calculations

HOLLYWOOD MOON - Basin 1

Project No: 043235024

Designed by: JTW

Checked by: APB

Date: 8/4/2023

Existing Land Use

Description	Sub-Area (ac)	Area (ac)
Impervious Area		0.00
Building		
Garages		
Asphalt / Sidewalk / Other Imp.		
Lake		0.00
Lake Surface		
Lake Banks		
Pervious Area		1.25
Dry Detention Bottom		
Dry Detention Banks		
Landscaping	1.25	
Total Area		1.25

Land Use + Soil Storage Calculations

HOLLYWOOD MOON - Basin 1
Project No: 043235024

Designed by: JTW
Checked by: APB
Date: 8/4/2023

Soil Storage

	Existing	DATUM
Wet Season Water Table / Control Elevation	1.50	NAVD 1988
Soil Storage Capability (Coastal, Flatwoods, Depressional)	Coastal	
Average Site Elevation (Dry Detention Bottom)	0.00	NAVD 1988
Average Depth to Water Table (Dry Detention Bottom)	-1.50	ft
Soil Storage Capability (Coastal, w/ 25% reduction)	0.00	in
Soil Storage (S) Over the Site (Dry Detention Bottom)	0.00	in
Soil Storage (S) Over the Site (Proposed Land Use)	0.00	in
Average Site Elevation (Landscaping)	3.80	NAVD 1988
Average Depth to Water Table (Landscaping)	2.30	ft
Soil Storage Capability (Coastal, w/ 25% reduction)	1.88	in
Soil Storage (S) Over the Site (Landscaping)	1.88	in
Soil Storage (S) Over the Site (Entire Site)	1.88	in
Curve Number (CN) Based on Soil Storage (S)	84.2	

Site Stage-Storage - Existing

HOLLYWOOD MOON - Basin 1 JTW

Project No: 043235024 8/4/2023

Stage Step Interval:	1
Start Stage Elevation:	1.50

	Impervious Area	Lake Surface	Lake Banks	Dry Detention Bottom	Dry Detention Banks	Landscaping	Total
Storage Type	L	V	L	V	L	L	Area
Area (ac)	0.000	0.000	0.000	0.000	0.000	1.250	1.250
Avg Low Elev.						1.59	
Avg High Elev.						6.00	

							TOTAL
Stage	Impervious Area	Lake Surface	Lake Banks	Dry Detention Bottom	Dry Detention Banks	Landscaping	**CUM, AC-FT**
1.50	0.000	0.000	0.000	0.000	0.000	0.000	**0.000**
2.50	0.000	0.000	0.000	0.000	0.000	0.117	**0.117**
3.50	0.000	0.000	0.000	0.000	0.000	0.517	**0.517**
4.50	0.000	0.000	0.000	0.000	0.000	1.200	**1.200**
5.50	0.000	0.000	0.000	0.000	0.000	2.167	**2.167**
6.50	0.000	0.000	0.000	0.000	0.000	3.381	**3.381**
7.50	0.000	0.000	0.000	0.000	0.000	4.631	**4.631**
8.50	0.000	0.000	0.000	0.000	0.000	5.881	**5.881**
9.50	0.000	0.000	0.000	0.000	0.000	7.131	**7.131**
10.50	0.000	0.000	0.000	0.000	0.000	8.381	**8.381**
11.50	0.000	0.000	0.000	0.000	0.000	9.631	**9.631**
12.50	0.000	0.000	0.000	0.000	0.000	10.881	**10.881**
13.50	0.000	0.000	0.000	0.000	0.000	12.131	**12.131**
14.50	0.000	0.000	0.000	0.000	0.000	13.381	**13.381**
15.50	0.000	0.000	0.000	0.000	0.000	14.631	**14.631**
16.50	0.000	0.000	0.000	0.000	0.000	15.881	**15.881**

TR-55 Volume Calculations - Existing

HOLLYWOOD MOON - Basin 1
Project No: 043235024

Designed by: JTW
Checked by: APB
Date: 8/4/2023

Existing Land Use

	5-year/24 hours	10 year/24 hours	25-year /72 hours	100-year /72 hours
Potential Maximum Retention (S) (in)	1.88	1.88	1.88	1.88
Rainfall (P) (in)	8	9	13	18
Total Site Drainage Area (A) (ac)	1.25	1.25	1.25	1.25
Runoff (Q) (in)	6.12	7.08	10.99	15.93
Volume of Runoff (V_r) (ac-ft)	0.64	0.74	1.14	1.66

Stage - Storage Existing

Stage (elev., ft)	Site Storage (ac-ft)	Total Volume Stored in Exfiltration Trench (V_{wq}+V_{add}+V_{void}) (ac-ft)	Volume in Underground Storage (ac-ft)	Total Storage (ac-ft)
1.50	0.000	0.000	0.000	0.000
2.50	0.117	0.000	0.000	0.117
3.50	0.517	0.000	0.000	0.517
4.50	1.200	0.000	0.000	1.200
5.50	2.167	0.000	0.000	2.167
6.50	3.381	0.000	0.000	3.381
7.50	4.631	0.000	0.000	4.631
8.50	5.881	0.000	0.000	5.881
9.50	7.131	0.000	0.000	7.131

Summary Stages

	Existing Stage (ft)	Max Stage (ft)	Criteria
5-year/24 hours	3.68	N/A	Min. Parking Elev.
10 year/24 hours	3.82	N/A	Min. Road Crown
25-year /72 hours	4.42	N/A	Min. Perim. Berm
100-year /72 hours (No Discharge)	4.97	N/A	Min. Finished Floor

Equations Used (from Technical Release 55)

$S = (1000/CN)-10$

$Q = (P_{25} - 0.2S)^2 / (P_{25} + 0.8S)$

V_r (ac-ft) = (Q)(A)/12

Summary

HOLLYWOOD MOON - Basin 1

Project No: 043235024

Designed by: JTW

Checked by: APB

Date: 8/4/2023

Stage Summary

Design Storm	Existing Stage (ft)	Max Stage (ft)	Criteria
5-year/24 hours	3.68	N/A	Min. Parking Elev.
10 year/24 hours	3.82	N/A	Min. Road Crown
25-year /72 hours	4.42	N/A	Min. Perim. Berm
100-year /72 hours (No Discharge)	4.97	N/A	Min. Finished Floor

Finished Floor Elev. Summary

Criteria	Min. FF Elev.
FEMA Flood Panel	7, 8, 9
ASCE/SEI 24-05 (Cat III, BFE + 1')	8, 9, 10
100-year Flood Elev Map	5.00
Design 100-year/3-day (No Disch) Elev	4.97
Governing Finish Floor Elevation	8, 9, 10

APPENDIX B-2-2

POST-DEVELOPED DRAINAGE CALCULATIONS

BASIN 1

Land Use + Soil Storage Calculations

HOLLYWOOD MOON - Basin 1

Project No: 043235024

Designed by: JTW

Checked by: APB

Date: 8/4/2023

Proposed Land Use

Description	Sub-Area (ac)	Area (ac)
Impervious Area		0.34
Building	0.34	
Garages		
Asphalt / Sidewalk / Other Imp.		
Lake		0.00
Lake Surface		
Lake Banks		
Pervious Area		0.00
Dry Detention Bottom		
Dry Detention Banks		
Landscaping	0.00	
Total Area		0.34