

Water Management Technologies® Presents
The **Scavenger2000™** Water Decontamination Vessels

Your solution to
Clean Water



WHO WE ARE



- An Innovative Water Management Company
- Family owned Florida Corporation for over 20 years
- Patented Oxy-Plus decontamination system
- Manufactures Environmental Tools
- Proudly built in the USA
- Proven track record
- Sole source product in the world
- Under contract with DEP to remediate Cyanobacteria

Your solution to
Clean Water

Your Logo

City of Miami and Miami-Dade County Accomplishments From 01/04/2019 To 12/13/2019

1

AMOUNT OF DEBRIS REMOVED FROM 01/04/2019 TO 12/13/2019 = 9073 CUBIC FEET
336 Cubic Yards = an approximate of 201 US Tons of trash

2

AMOUNT OF WATER DECONTAMINATED AT A RATE OF 10,000 GALLONS PER MINUTE
1.2 Billion Gallons of water treated

3

AMOUNT OF OXYGEN INJECTED AT A RATE OF 150,000 LITERS PER HOUR.
293 Million liters of oxygen

4

2244 NAUTICAL MILES TRAVELED

5

357 DONATED HOURS TOTALLING \$71,400 FROM Water Management Technologies

6

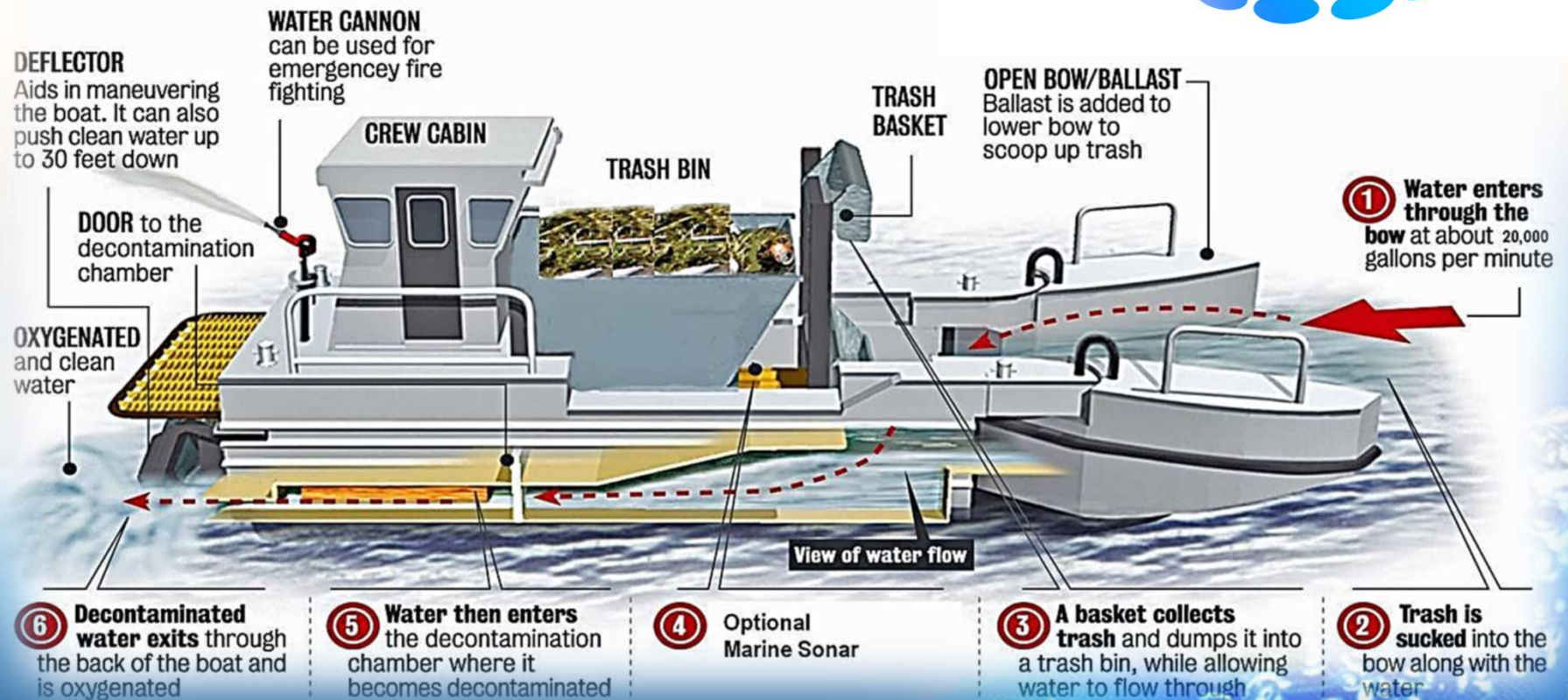
WE PICKED UP MANY NAVIGATIONAL HAZARDS SUCH AS DOCK PLANKS,
55 GALLON OIL DRUMS, DOCK BOARDS, LARGE TIRES

HOW IT WORKS



CLEANING THE WATER

How the 'Scavenger's' onboard water treatment system works:



Your solution to
Clean Water

Oxy-Plus™ BENEFITS



Biological

- Destroys fecal coliform
- Destroys Cyanobacteria
- Kills Bacteria
- Neutralizes viruses Including but not limited to Covid-19 (SARS Corona virus)
- Balances Phosphates and Nitrates

Physical

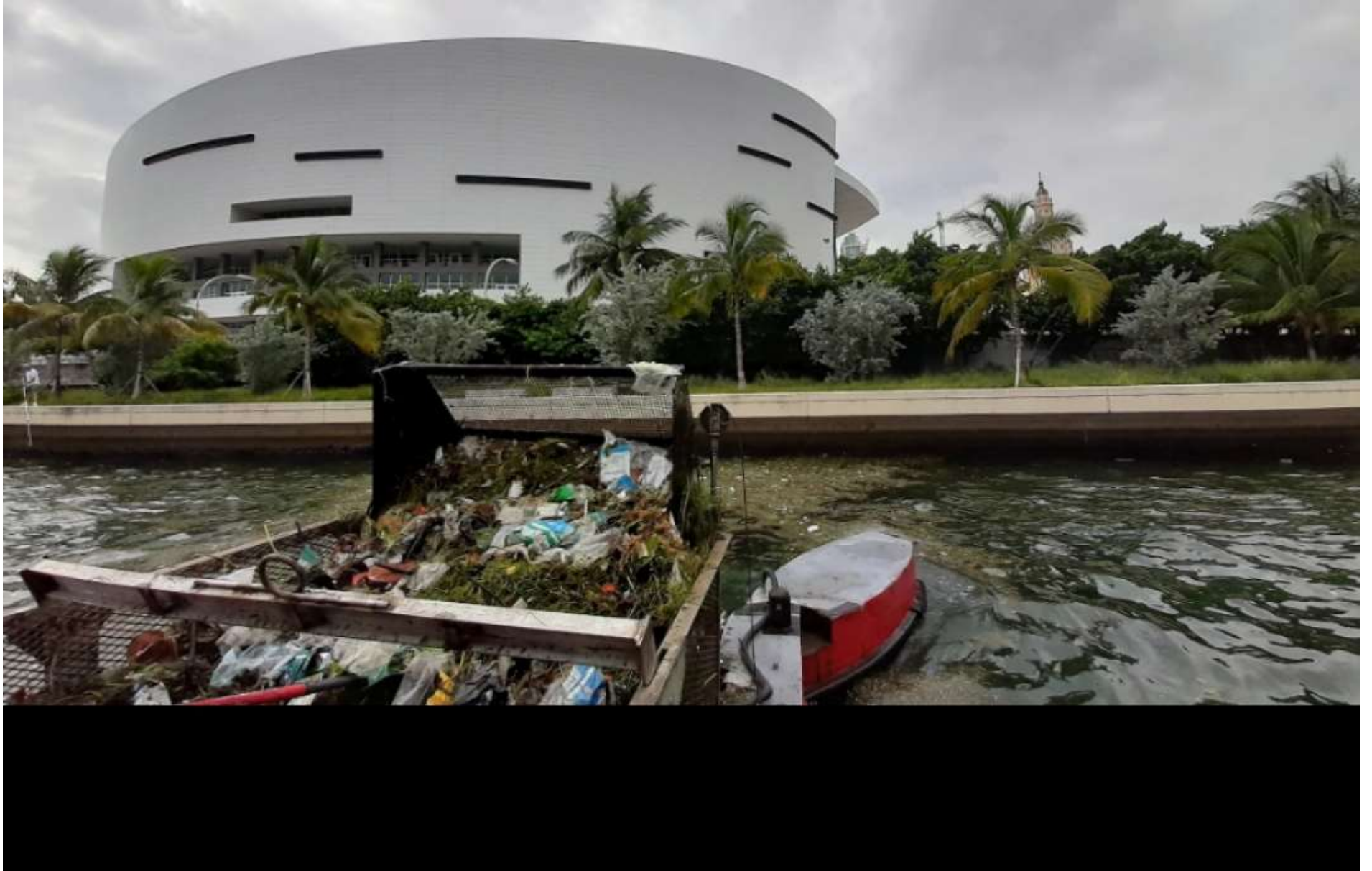
- Remove surface debris
- Reduces Turbidity
- Improves water quality
- Eliminates odors
- Destroys and Controls algae growth
- Remove Hazardous algae cakes

Chemical

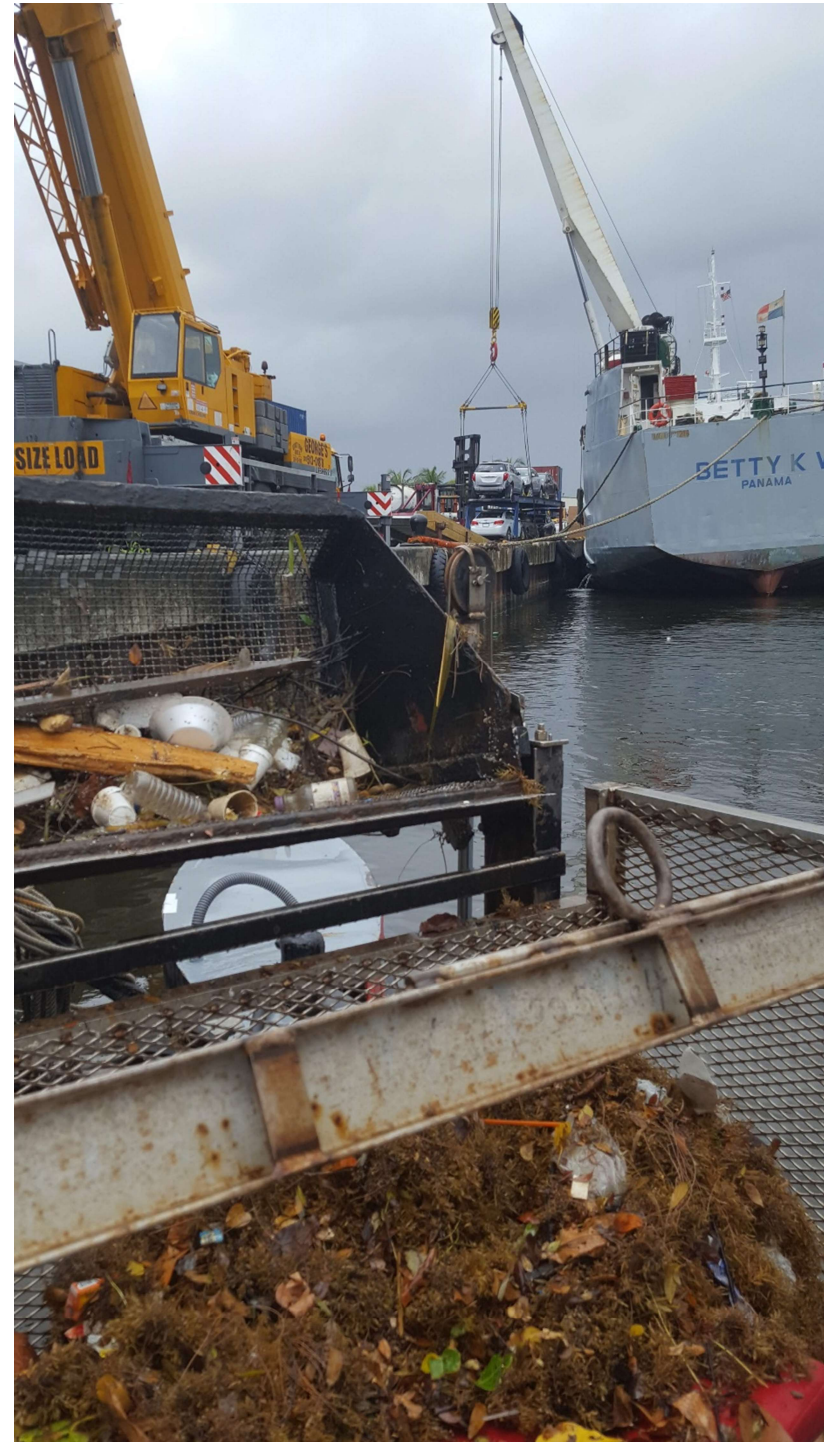
- Increases DO
- Removes some pesticides, herbicides, and fungicides that are washed into the watershed

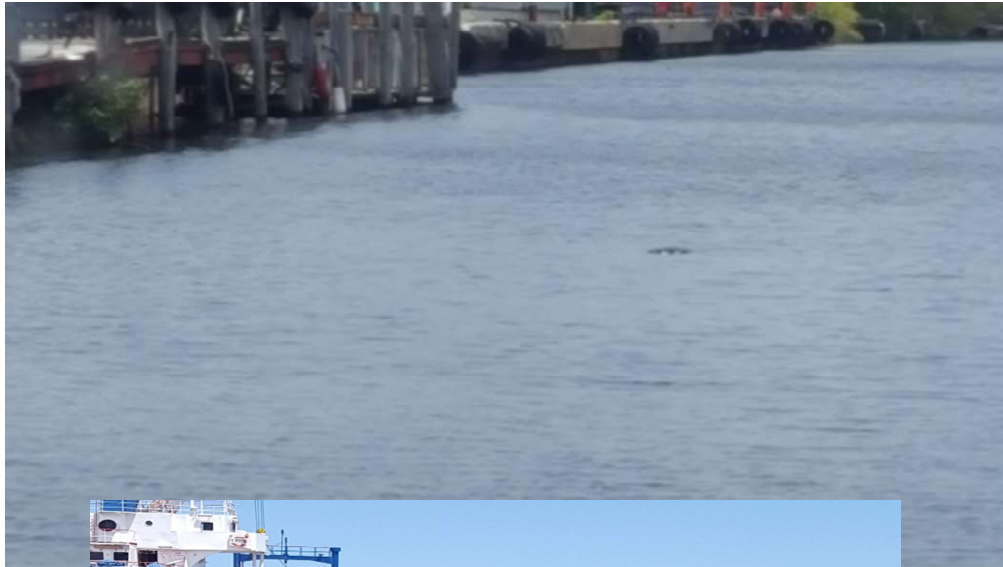
Your solution to
Clean Water













SCAVENGER VESSEL

TECHNICAL SPECIFICATIONS

Technical data

LOA:	40 ft.
Beam:	8 ft.
Height (from water line):	10 ft.
Optional retractable Bimini Top	5 ft.
Width at bow, when jaws are open:	16 ft.
Draft:	4 ft.
Freeboard:	2 ft.
Gross weight:	12.5 tons
Main power plant:	marine diesel engine
Water canon pump:	1,250 U.S.G.P.M. at 100 psi
Fuel tank capacity:	120 - 150 US gal
Crew required:	1 operator
Oxygen Injection:	up to 600,000 l.p.h.
Decontamination rate:	up to 20,000 g.p.m.

Boat Performance

Normal cruising speed:	6 knots
Maximum cruising speed:	8 knots
Working speed:	1-3 knots
Rotates in place:	360 degrees
Hours of operation between refueling:	35 hours

Water Management Technologies, Inc. Presents: THE SCAVENGER VESSELS



The Scavenger Vessel is the most effective de-pollution vessel available in the world today.

Water Management Technologies, Inc.™

Water Management Technologies, Inc.™ holds the patent to the OxyPlus™ System, an advanced process that treats and revitalizes waterways by directly aerating the water with a combination of ozone and oxygen.

The 40-foot Scavenger Vessel is constructed from COR-TEN™ steel and built in accordance with internationally recognized marine vessel standards. It stands 10 feet tall from the water line, has 8-foot beam and weighs 12.5 tons. It is equipped with an opening bow and ballasting system and can be operated by one crewmember. The Scavenger Vessel can be easily transported by truck, train or ship.

Your Solution to CLEAN WATER

A Revolutionary Approach to Water Regeneration

www.scavengervessel.com

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A RESOLUTION OF THE PLANNING, ZONING AND APPEALS BOARD RECOMMENDING APPROVAL OR DENIAL OF AN ORDINANCE OF THE MIAMI CITY COMMISSION TO AMEND ARTICLE 3, SECTION 3.3.3 WATERFRONT STANDARDS, SECTION 3.11 WATERFRONT STANDARDS, ARTICLE 5, SECTION 5.5 URBAN CENTER TRANSECT ZONES (T5), AND SECTION 5.6 URBAN CORE TRANSECT ZONES (T6) OF ORDINANCE NO. 13114, THE ZONING ORDINANCE OF THE CITY OF MIAMI, FLORIDA, AS AMENDED; MAKING FINDINGS; CONTAINING A SEVERABILITY CLAUSE; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, on October 22, 2009, the City Commission adopted Ordinance No. 13114, the Zoning Ordinance of the City of Miami, known as the Miami 21 Code ("Miami 21 Code"); and

WHEREAS, on January 24, 2019, the City Commission adopted Ordinance No. 13804, amending Article 3, Section 3.11 Waterfront Standards to provide additional clarification to applicable boundaries and standards associated with the term Waterfronts and identify location standards for Waterways and Waterbodies; and

WHEREAS, on July 22, 2021, the City Commission adopted Ordinance No., amending Appendix B: Waterfront Design Guidelines to update and improve waterfront standards; and

WHEREAS, the Planning, Zoning and Appeals Board ("PZAB") has considered the Planning Director's recommendations; and

WHEREAS, PZAB has conducted a public hearing on the proposed text amendment; and

WHEREAS, PZAB has considered whether the proposed amendment will further the goals, objectives, and policies of the Miami Comprehensive Neighborhood Plan ("MCNP"), the Miami 21 Code, and other City regulations; and

WHEREAS, PZAB has considered the need and justification for the proposed change, including changed or changing conditions that make the passage of the proposed change necessary;

NOW, THEREFORE, BE IT RESOLVED BY THE PLANNING, ZONING AND APPEALS BOARD OF THE CITY OF MIAMI, FLORIDA, AS FOLLOWS:

Section 1. The recitals and finding contained in the Preamble to this Resolution are hereby adopted by reference thereto and incorporated herein as if fully set forth in this Section.

Section 2. It is recommended to the Miami City Commission that Ordinance No. 13114, the Zoning Ordinance of the City of Miami, Florida, as amended, be amended by amending Article 3. General to Zones, specifically Section 3.3.3, titled "Lots and Frontages" and specifically Section 3.11, titled "Waterfront Standards", and amending Article 5. Specific to Zones, specifically Section 5.5.1, titled "Building Disposition (T5), and Section 5.6.1, titled "Building Disposition (T6) in the following particulars:

"ARTICLE 3. GENERAL TO ZONES

* * * *

3.3 LOTS AND FRONTAGES

* * * *

3.3.3

Lots facing Thoroughfares on more than one (1) side shall have designated Principal Frontage(s) and may have Secondary Frontage(s). Unless otherwise designated by a Special Area Plan, a Principal Frontage shall be that facing the Thoroughfare of higher pedestrian importance or intensity (i.e., traffic volume, number of lanes, etc.), as determined by the Planning Department upon request by the Zoning Administrator.

- a. If two Thoroughfares are of equal importance each Frontage shall be considered a Principal Frontage. Lots with two or more Frontages may consider other non-fronting Property Lines as sides.
- b. Lots shall have at least one (1) Principal Frontage, except waterfront Lots shall have at least two (2) Principal Frontages, one of which shall be the waterfront and shall conform to Waterfront Setback Standards. However, Lots which do not require a waterfront walkway per section 3.11 shall not consider the Waterfront as a Principal Frontage. For Waterfront Setbacks, see Section 3.11. and Appendix B – Waterfront Design Guidelines.
- c. Where an existing lot of record is located adjacent to a Thoroughfare in a manner that creates an irregular Frontage such that the side or rear yards cannot be determined as with a regular lot, the Zoning Administrator shall determine, by Waiver, the yard and setbacks for the lot as fits the circumstances of the case. In addition to general Waiver requirements, the Zoning Administrator shall consider the minimum dimensions and methods of measurement as generally required for either a side or rear yard in the transect, determining which shall apply by the relation of the portion of the lot on which the yard is to be located to the adjoining lot, with due regard to the orientation of structures and buildable areas on each lot.

* * * *

3.11 WATERFRONT STANDARDS

In addition to the Miami City Charter requirements, the following Setback, walkways and Waterfront standards shall apply to all Waterfront properties within the City, except as modifications to these standards for all Waterfront properties may be approved by the City Commission pursuant to the procedures established in the City Charter.

All Miami riverfront properties shall include water-related uses across all Transect Zones except T3.

a. Waterfront Setbacks

1. For properties fronting a Waterway, the Setback shall be a minimum of fifty (50) feet measured from the mean high water line provided along any Waterfront, except where the depth of the Lot is less than two-hundred (200) feet the Setback shall be a minimum of twenty-five percent (25%) of the Lot depth; and except for T3, T4-R, D1, D2 and D3 Transect Zones where a minimum Setback of twenty (20) feet shall be provided, except where the depth of the Lot is less than eighty (80) feet the Setback shall be a minimum of twenty-five percent (25%) of the Lot depth. These requirements shall not apply to Marine Related Industrial Establishments along the Miami River. Within D1, D2 and D3 Transect Zones facilities may span across man-made slips with a Structure to conduct marine-related commercial and industrial activities.

2. For properties fronting a Waterbody, the Setback shall be a minimum of twenty-five (25) feet measured from the mean high water line provided along any Waterfront, except for the following:

- 1. Where the depth of the Lot is less than one-hundred (100) feet, the Setback shall be a minimum of twenty-five percent (25%) of the Lot depth; and
- 2. For T3, T4-R, D1, D2, and D3 Transect Zones, a minimum Setback of twenty (20) feet shall be provided, except where the depth of the Lot is less than eighty (80) feet, the Setback shall be a minimum of twenty-five percent (25%) of the Lot depth.

For other Lot configuration conflicts, the Setback may be reduced a maximum of fifty percent (50%) by process of Waiver.

3. Waterfront Side Setbacks consisting of one (1) or more lot lines generally perpendicular to the greatest adjacent waterbody shall be equal in aggregate to at least twenty-five percent (25%) of the water frontage of each Lot based on average Lot Width, to allow View Corridors open from ground to sky and to allow public access to the Waterfront; except for T3, TR-4, D1, D2, and D3 Transect Zones.

* * * *

Section 3. It is recommended to the Miami City Commission that Ordinance No. 13114, the Zoning Ordinance of the City of Miami, Florida, as amended, be amended by amending Article 5. Specific to Zones, specifically Section 5.5.1, titled "Building Disposition (T5), and Section 5.6.1, titled "Building Disposition (T6) in the following particulars:

"ARTICLE 5. SPECIFIC TO ZONES

* * * *

5.5 URBAN CENTER TRANSECT ZONES (T5)

5.5.1 Building Disposition (T5)

* * * *

e. For the minimum Height, ~~façades~~ Facades shall be built parallel to the Principal Frontage Line along a minimum of seventy percent (70%) of its length on the Setback Line as shown in Illustration 5.5 or as modified pursuant to Appendix B – Waterfront Design Guidelines, Section 2.3(a) for Frontages along a Waterfront.

* * * *

5.6 URBAN CORE TRANSECT ZONES (T6)

5.6.1 Building Disposition (T6)

* * * *

e. For the minimum Height, ~~façades~~ Facades shall be built parallel to the Principal Frontage Line along a minimum of seventy percent (70%) of its length on the Setback Line as shown in Illustration 5.5 or as modified pursuant to Appendix B – Waterfront Design Guidelines, Section 2.3(a) for Frontages along a Waterfront.

Section 4. If any section, part of a section, paragraph, clause, phrase, or word of this Resolution is declared invalid, the remaining provisions of the Resolution shall not be affected.

Section 5. This Resolution shall become effective immediately after the adoption thereof.

Miami River Commission

Meeting Minutes

July 12, 2021

The Miami River Commission (MRC) public meeting convened at noon, July 12, 2021, Main Library Auditorium, 101 W. Flagler.

Miami River Commission (MRC) Policy Committee Members and/or Designees attending:

Horacio Stuart Aguirre, MRC Chairman

Patty Harris, designee for Governor

David Maer, designee for Miami-Dade ST Attorney Fernandez-Rundle

Jim Murley, designee for Miami-Dade County Mayor Cava

Philip Everingham, designee for Miami Marine Council

Neal Schafers, designee for Downtown Development Authority

Bruce Brown, Miami River Marine Group

Sandy O'Neil, designee for Greater Miami Chamber of Commerce

Mike Simpson, designee for Neighborhood Representative appointed by Miami-Dade County

John Michael Cornell, Designee for Luis Garcia

Rosy Noguera, designee for Sara Babun

MRC Staff:

Brett Bibeau, Managing Director

Others attending interested in the River:

Sign in sheets available upon request.

I) Chair's Report

MRC Chairman Horacio Stuart Aguirre provided the following report:

In lieu of Miami Riverday in 2021, the Miami River Commission reached out to Riverday sponsors and new supporters with the "Your Miami River Cleanup Campaign", where 90% of all donations are being spent directly removing litter and invasive plant species, landscaping, painting over graffiti and pressure washing the public Miami River Greenway. Please note this distributed thank you for our generous sponsors whom kindly donated \$23,775 to clean the Miami River.

The Miami River Commission has been actively assisting the efforts of the City, County, State, and private sector to clean up the Miami River District. In addition to the maintenance professionals the MRC pays daily to remove litter, invasive plant species, graffiti and provide landscaping services along the Miami River, the MRC thanks the volunteers from Kiki's River

and Hands on Miami whom on June 22 picked up garbage along the shoreline in City owned Curtis Park, which received very positive TV coverage by Louis Aguirre on Local 10 News, and WSVN.

I thank the City Commission which last Thursday adopted converting the currently one way SW 3 Ave from SW 7 to SW 6 Streets, as recommended in the MRC's adopted *Miami River Corridor Multi-Modal Transportation Plan*. The timing was perfect as the previously approved Miami River SAP development in this area is moving forward towards groundbreaking.

The MRC unanimously adopted their distributed June 7, 2021 public meeting minutes.

I. Discussion of Enforcing the Miami River's Idle No Wake Speed Zone, Illegal Charters, etc.

The Miami River Commission thanked the City of Miami for recently shutting down 4 locations on the Miami River and Seybold Canal, where illegal boat charters were picking up and dropping off passengers in single family neighborhoods, and were leaving behind garbage, urinating in front yards, making noise late at night, etc. In addition to the problems of illegal charters, residents, business owners, Law Enforcement, and the MRC discussed the growing problem of violations of the idle no wake speed zone which endangers Manatees, damages shorelines, boats, docks, etc.

MRC Chairman Aguirre thanked everyone for meeting to work on this difficult issue as we always do, together as a unified team and force. The following law enforcement agencies provided reports:

1. City of Miami Marine Patrol – City Police Chief Acevedo pledged to increase the quantity of City of Miami Marine Patrol Police Officers from 7 to 12.
2. City of Miami Code Compliance – Issued violations on sites zoned single family residential which are illegally picking up and dropping off customers
3. Miami-Dade County Marine Patrol – Nancy Jackson stated County Commissioner Higgins requested an additional County Marine Patrol Officer be funded in the County's FY 21-22 budget.
4. United States Coast Guard - Jamie Head, Resident Agent in Charge, U.S. Coast Guard Investigative Service, Miami Field Office, stated he will be coordinating with a multi-agency Task Force to fight illegal charters on the Miami River.
5. Florida Wildlife Commission – Invited but not present.

The MRC adopted a unanimous resolution to continue urgently recommending and communicating that all of the various law enforcement agencies provide a needed increase in law enforcement on the Miami River and its tributaries.

III. Miami River Commission Subcommittee Reports

The MRC deferred their subcommittee reports.

IV. New Business

Tracy Slavens, Holland and Knight, stated prior to the next public MRC meeting, the Board of County Commissioners will be voting on a 1 block street closure of NW 24 ST Road from NW 33 Ave to NW 34 Ave. The subject street is located in the middle of 2 blocks entirely owned by the applicant, which is making a logistics center consistent with current zoning and land use. Ms Slavens displayed a rendition of the logistics center, featuring 2 blocks of the planned on-road Miami River Greenway (wide mesa-beige sidewalk, trees and bushes) along NW 33 Ave from South River Drive to NW 21 ST.

The MRC unanimously recommended the proposed project include the on-road Miami River Greenway along NW 33 Ave as presented, and for the County to allocate an appropriate percentage of the new income they will receive from this development, including taxes on the former public right of way, impact fees, and \$160,000 to purchase the public right of way, for needed maintenance of the County owned public rights of way in this subject emerging and growing Palmer Lake District, including picking up garbage, landscaping, and painting over graffiti.

The meeting adjourned.


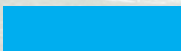




**Miami River
Commission**

Miami River Greenway Update

Aerials presented from East to West 08.10.2021



LEGEND

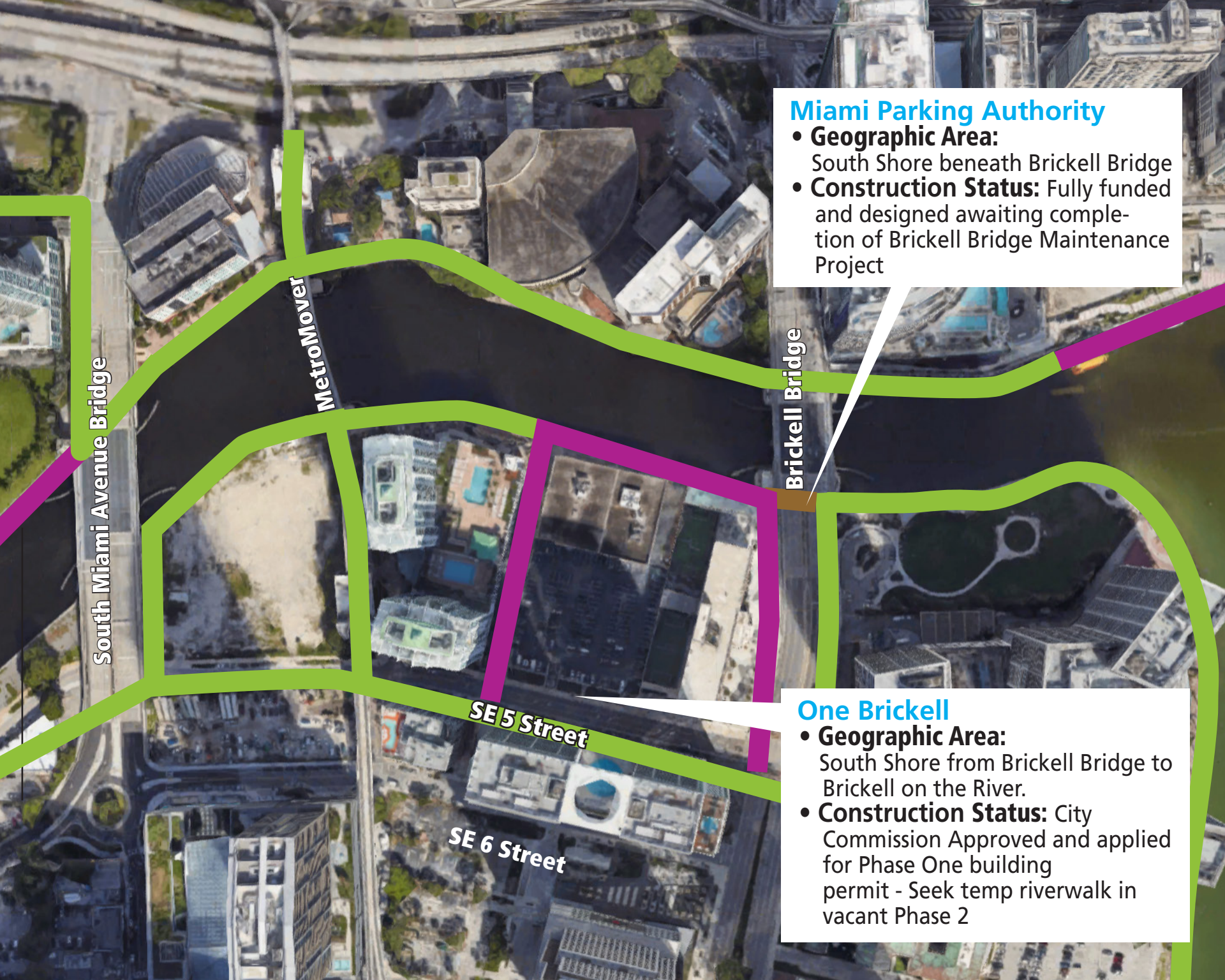
-  City of Miami Site
-  Miami-Dade County Site
-  Miami Parking Authority Site
-  FDOT
-  Existing Greenway
-  Private Sector Public Riverwalk

**Public Riverwalk
under construction
Aston Martin Residences**



Miami River Commission





Miami Parking Authority

- **Geographic Area:** South Shore beneath Brickell Bridge
- **Construction Status:** Fully funded and designed awaiting completion of Brickell Bridge Maintenance Project

One Brickell

- **Geographic Area:** South Shore from Brickell Bridge to Brickell on the River.
- **Construction Status:** City Commission Approved and applied for Phase One building permit - Seek temp riverwalk in vacant Phase 2

South Miami Avenue Bridge

Metro Mover

Brickell Bridge

SE 5 Street

SE 6 Street

One River Point

- **Geographic Area:** North Shore from Miami Avenue Bridge to Ivy and Mint
- **Construction Status:** Public riverwalk in approved One River Point submitted building permit application

Second Avenue Bridge

Metro Rail Bridge

South Miami Avenue Bridge

SE 6 Street

SE 7 Street

Latitude on the River

- **Geographic Area:** Riverwalk connector between the existing riverwalks at Latitude on the River and beneath 2nd Avenue Bridge
- **Construction Status:** Funded and designed awaiting building permit

Edge on Brickell

- **Geographic Area:** 55 South Miami Avenue Road
- **Construction Status:** Plans approved by the City of Miami



Flagler ST. Bridge

City of Miami

- **Geographic Area:**
1 SW South River Dr and Flagler St deadend into SW North River Dr.
- **Construction Status:** Needs funding and design

1ST. Bridge

FDOT'S First Street Bridge

- **Geographic Area:**
Beneath and adjacent to new First Street Bridge
- **Construction Status:**
Under construction

Approved Wharf

- **Geographic Area:**
North Shore Riverwalk, from I-95 to First Street Bridge
- **Construction Status:**
Plans approved

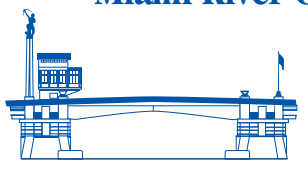
Miami River SAP

- **Geographic Area:**
South Shore Riverwalk from 2nd Avenue Bridge to Jose Marti Park
- **Construction Status:**
City approved SAP-submitted Phase 1 building permit application

Vacant Restaurant

- **Geographic Area:**
North Shore between First & Flagler Bridges
- **Construction Status:**
80 percent complete-construction stopped

Miami River Commission





NW 5 Street

NW 5 St. Bridge

NW North River Dr.

NW South River Dr.

NW 3 Street

Gramps on the River

- **Geographic Area:** 341 NW South River Dr
- **Construction Status:** City of Miami approved, construction commencing 2021

NW 2 Street

Riverfront Restaurant

- **Geographic Area:** 311 NW South River Dr.
- **Construction Status:** City of Miami approved, construction commencing 2021

NW 1 Street

Riverfront Restaurant

- **Geographic Area:** 131-125 NW South River Dr.
- **Construction Status:** City of Miami approved plans

Lummus Park

Flagler St. Bridge

Naheem Khan

- **Geographic Area:** 1175 NW South River Drive
- **Construction Status:** Lease pending County approval

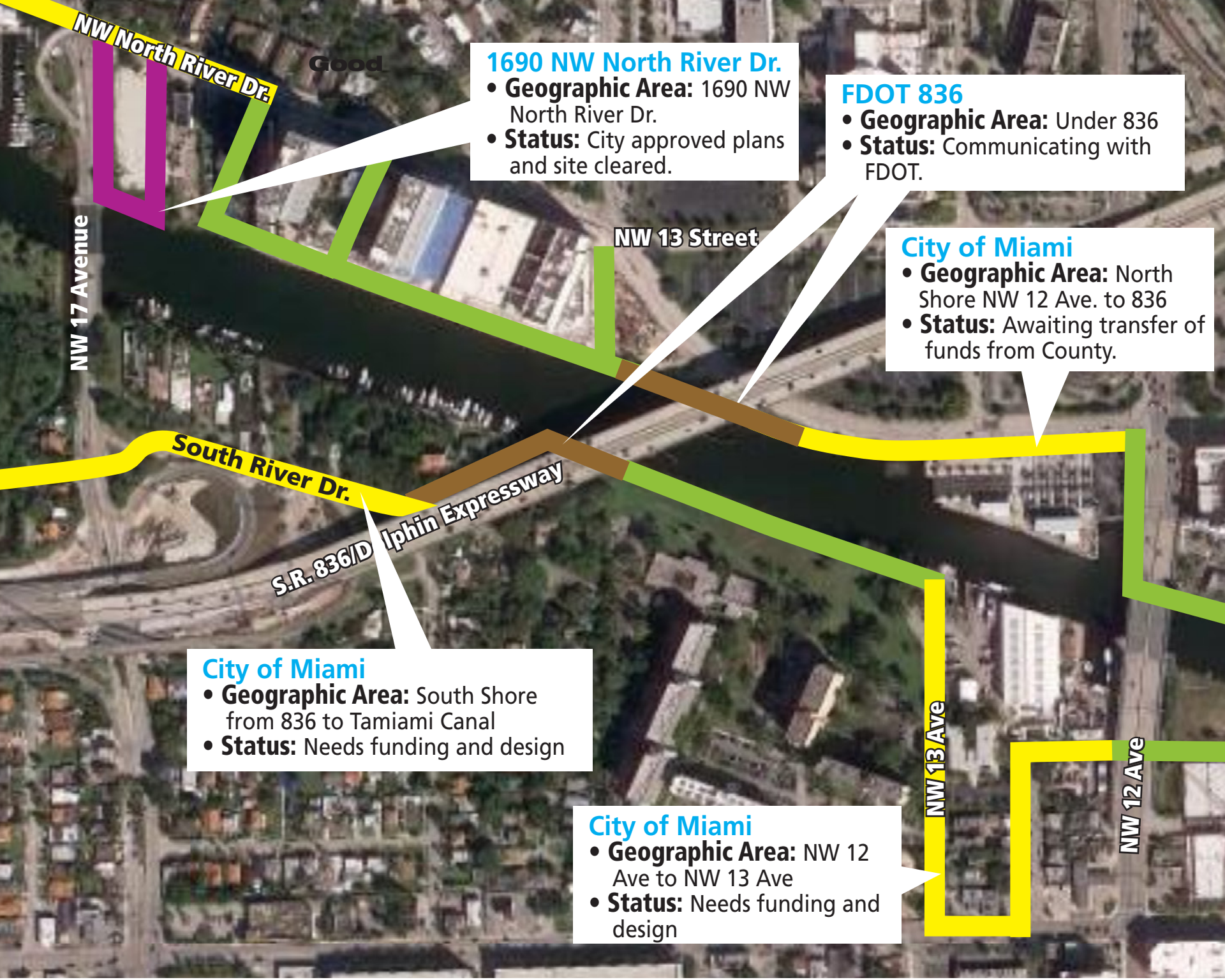
Waterline Miami

- **Geographic Area:** 1001 NW 7 ST
- **Construction Status:** Phase 1 complete, Phase 2 commences construction 2021

555 River House

- **Geographic Area:** 663-517 NW South River Dr.
- **Construction Status:** City Commission item to be considered in 2021





NW North River Dr.

NW 17 Avenue

Good

1690 NW North River Dr.
• **Geographic Area:** 1690 NW North River Dr.
• **Status:** City approved plans and site cleared.

FDOT 836
• **Geographic Area:** Under 836
• **Status:** Communicating with FDOT.

City of Miami
• **Geographic Area:** North Shore NW 12 Ave. to 836
• **Status:** Awaiting transfer of funds from County.

NW 13 Street

South River Dr.

S.R. 836/D Iphix Expressway

City of Miami
• **Geographic Area:** South Shore from 836 to Tamiami Canal
• **Status:** Needs funding and design

City of Miami
• **Geographic Area:** NW 12 Ave to NW 13 Ave
• **Status:** Needs funding and design

NW 13 Ave

NW 12 Ave



NW North River Dr

NW 22 Ave

City of Miami

- **Geographic Area:** NW North River Dr. from River Landing to NW 27 Ave.
- **Status:** \$2 million Federal grant portion under design - additional funding & design needed

NW North River Dr

City of Miami

- **Geographic Area:** Sewell Park
- **Status:** Awarded FIND Phase 1 & 2 grants for design and construction

NW 17 Avenue

Sewell Park

City of Miami

- **Geographic Area:** South Shore from 836 to Tamiami Canal
- **Status:** Needs funding and design

NW 22 Ave

South River Dr

NW 11 St



City of Miami

- **Geographic Area:** NW North River Dr. from River Landing to NW 27 Ave.
- **Status:** \$2 million Federal grant portion under design - additional funding & design needed

2507 NW 16 St Road

- **Geographic Area:** 2507 NW 16 St Road
- **Status:** City approved zoning change

Brisas Del Rio

- **Geographic Area:** 1583 NW 24 Ave
- **Status:** City approved plans

City of Miami

- **Geographic Area:** South Shore from 836 to Tamiami Canal
- **Status:** Needs funding and design



NW 20 St

NW South River Dr.

City of Miami

- **Geographic Area:** South Shore from 836 to Tamiami Canal
- **Status:** Needs funding and design

Salinity Dam

NW South River Dr.

NW 25 St

**Miami
Intermodal Center**

NW 37 Avenue

NW 21 ST RD

NW 33 Ave

NW 24 ST RD

