

# Memorandum



**Date:** July 3, 2013

**To:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

**From:** Carlos A. Gimenez  
Mayor

A handwritten signature in blue ink, appearing to read "Carlos A. Gimenez".

**Subject:** Correspondence from the Florida Department of Transportation re: Port of Miami Tunnel Project

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Attached please find a progress report from the Florida Department of Transportation (FDOT) regarding the Port of Miami Tunnel Project.

I will continue to provide the Board with updates as they become available from the FDOT. Please call me directly should you have any questions.

c: Gus Pego, FDOT District VI Secretary  
Robert A. Cuevas, Jr., County Attorney  
Charles Anderson, Commission Auditor  
Jack Osterholt, Deputy Mayor  
Bill Johnson, Seaport Director

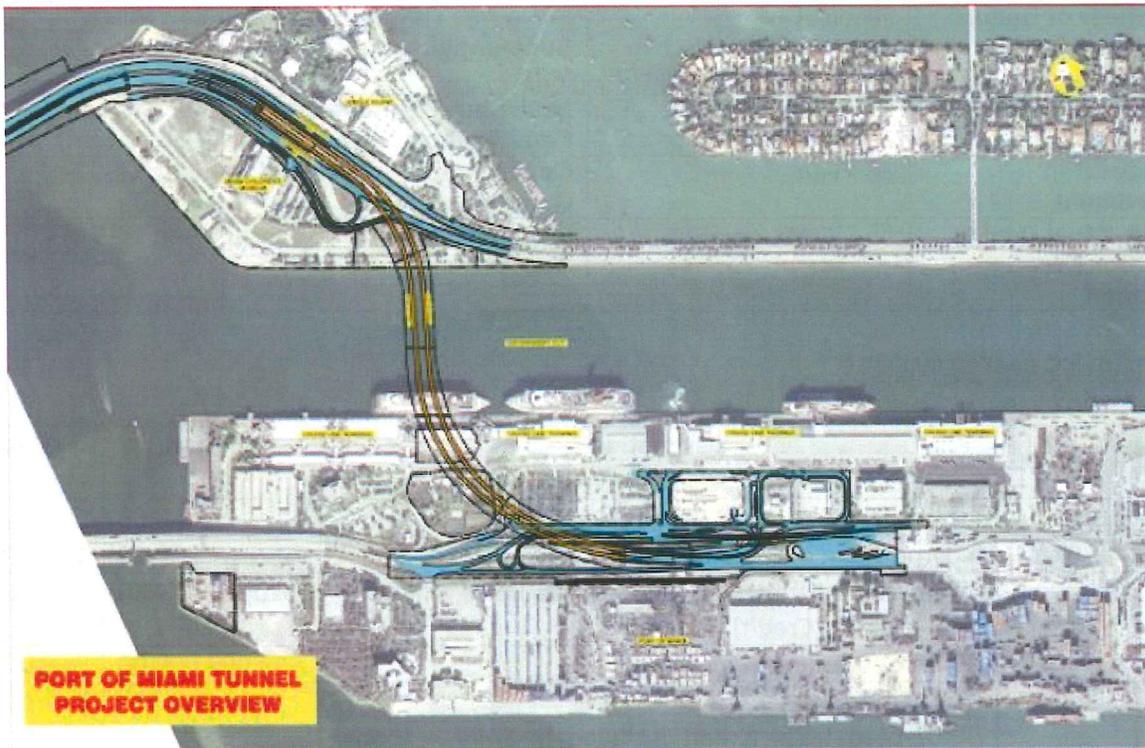
Attachments



## Port of Miami Tunnel Project

### Combined Monthly Progress Report – March & April-2013

#### Design Review and Construction, Engineering and Inspection Services



Port of Miami Tunnel – March & April 2013 Combined Monthly Progress Report

**PROJECT STATISTICS:**

Project Information		Key Dates and Milestones	
Financial Project ID	251156-3-52-01	NTP # 1 – Design	Oct 15, 2009
Contract #	E6F67	NTP # 2 – Construction	May 24, 2010
Owner	FDOT – District 6	Percent Complete/Days Used:	73.3 % 1294 of 1765
Owner’s Engineer (Design)	PB Americas, Inc.	Construction Cost:	\$663 Million
Owner’s CEI Representative	PB Americas, Inc.	Milestone Payment # 1 – design for tunnel	\$20 Million (PAID)
Concessionaire	MAT Concessionaire, LLC	Milestone Payment # 2 – TBM at work in 1 <sup>st</sup> bore	\$40 Million (PAID)
Design/Build Contractor	Bouygues Civil Works Florida (BCWF)	Milestone Payment # 3 – TBM at work in 2 <sup>nd</sup> bore	\$25 Million (PAID)
Engineer of Record	Jacobs Civil	Milestone Payment # 4 – Substantial completion of MAC	\$15 Million
Maintenance and Operator	Transfield Services Infrastructure	Milestone Payment #5– Final Acceptance	\$350 Million
Concession Agreement	35 Years	Construction Substantial Completion	May 19, 2014
Contractual Design and Construction Duration	55 Months	Construction Final Acceptance Completion	Aug 18, 2014

**CONTRACTS AMENDMENTS**

SA #	Date	Description	Amount	Status
1	10/25/10	Incorporation of Wage Rate Tables	\$0.00	Executed
2	09/07/11	Incorporation of E-Verify Requirements	\$0.00	Executed
3	06/28/12	Alternative Alignment - Single Portal Realignment on Dodge Island <b>(Credit)</b>	<b>(\$2,500,000.00)</b>	Executed
4	01/30/13	Global Settlement	<b>\$59,000,000.00</b>	Executed
5		Railroad Tracks (RR01-Lead track (credit included in SA#4 – Global Settlement) (RR02-Spare track)*	<b>\$192,259.24*</b>	In Progress
6		Barrier Mounted Signs, Driveway Additions, FO Conduit and Sign Structure 19 work deletion.	<b>\$183,133.47</b>	In Progress

**MILESTONE PAYMENTS:**

1. Milestone No. 1: Completion of Design Work for Tunnel (\$20 Million)
  - a. Achieved on 9/30/2011

## Port of Miami Tunnel – March & April 2013 Combined Monthly Progress Report

2. **Milestone No. 2: Tunnel Boring Machine at Work in First Bore (\$40 Million)**
  - a. Achieved on 11/19/2011
3. **Milestone No. 3: Tunnel Boring Machine at Work in Second Bore (\$25 Million)**
  - a. Achieved on 11/2/2012

### **SCHEDULE**

Bouygues Civil Works Florida, Inc. (BCWF) has submitted the March 20, 2013 Update and it indicates a Substantial Completion date of May 19, 2014, which exceeds the Contract Substantial Completion date of May 16, 2014. BCWF states that the delay is resulting from the impact of Tropical Storm Isaac.

### **DESIGN PROGRESS FOR MARCH & APRIL 2013**

*The following is a summary of the design documentation received and reviewed during the months of March & April:*

#### **Watson Island**

FDOT reviewed and provided comments for the following design packages:

1. MacArthur Causeway: Auxiliary Lane Width Design Variation
2. MacArthur Causeway Roadway Plans FDOT Rev.09
3. Drainage: Pond Details Calculation Notes
4. Watson Island : Cut & Cover Plans Rev. 01
5. Watson Island U-Walls Rev. 03
6. Watson Island Roadways: Signing & Pavement Marking Plans- Off Site Signs & Structure
7. Watson Island : Flood Gate Enclosure Specifications
8. Watson Island: Flood Gate System
9. Watson Island: Flood Gate Enclosure Final Plans and Calculation Notes

#### **Dodge Island**

FDOT reviewed and provided comments for the following design packages:

1. Dodge Island Roadways: Package 3 Plans - RFC Rev.03
2. Dodge Island: Cut & Cover Plans Rev. 01
3. Overhead Sign Structures Design (Offsite)- Volume 1-2 & Multipost Sign Structures Design
4. Dodge Island: Flood Gate Enclosure Specifications
5. Dodge Island: Flood Gate Systems Specifications

Documents submitted this month that are currently under review:

1. Dodge Island: Flood Gate Enclosure Calculation Notes
2. Dodge Island: Flood Gate Enclosure Plans
3. Dodge Island: U-Wall Plans Rev. 01
4. Dodge Island Roadways: Signing & Pavement Marking Plans
5. Dodge Island Roadways- Package 3
6. Dodge Island Roadways: Lighting Plans

# Port of Miami Tunnel – March & April 2013 Combined Monthly Progress Report

## Tunnel Design

FDOT reviewed and provided comments for the following design packages:

1. Roadway Tunnel Plans Rev.1
2. Tunnel Signage Design Plans
3. TSCS-ITS: Systems Engineering Management Plan
4. Bored Tunnel: Low Point Pump Station (LPPS) Plans & Calculations
5. East Bound Tunnel Cross Passages: CP1 Realization
6. Tunnel Structural Attachments Calculation Notes
7. Tunnel SCADA System Final Plans
8. Tunnel Telephone System Final Plans
9. Tunnel Ventilation and Fire Life Safety, Vol II Tunnel Air Quality and Normal Ventilation
10. Tunnel Fire Alarm System Final Plans
11. Tunnel Lighting Final Plans
12. Tunnel Electrical Service Final Plans

Documents submitted this month that are currently under review are:

1. Tunnel Air Quality Monitoring Plans
2. ITS Plans
3. Fire Suppression Final Plans
4. TBM Cutterhead Work Report: Tool Changes- March 8, 16-20, 2013
5. Anchor Pull Out Test Procedure
6. Jet Fans Support Frames- Inspection & Test Plan
7. Tunnel Signage Design FSB Submittals

### ***Other documents submitted and reviewed:***

- Geotechnical Instrumentation Monitoring- Monthly Report No.15
- Geotechnical Instrumentation: Weekly Report #94 through #102
- Dodge Island: Summary Memo of Instrumentation- Data for Port Blvd. Cargo Bridge & Seaman's Center- Completion of East & Westbound Drives
- Multiple Shop Drawings related to the tunnel design are now under review
- Multiple Field Change Reports and Non-Conformance Reports were also reviewed
- Tunnel: Fire Protection Coating Method Statement
- Tunnel: Fire Protection Installation Method Statement
- Dodge Island: Water Main Utility Relocation Phase II- In-Place Density Tests
- CP 2 & 3: Ground Freezing- Installation of Freezing Pipe & Freezing
- CP 2 & 3: Ground Freezing- Instrumentation of Freezing
- Offsite Overhead Sign Structures Design (2 volumes)
- Multi-post Sign Structures Design
- Tunnel Fire Protection Operating & Maintenance Manual
- Control & Communication Systems: Inspection & Test Plan
- Various Field Change Reports and Non-Conformance Reports were also reviewed

## Port of Miami Tunnel – March & April 2013 Combined Monthly Progress Report

### *Other*

- Audits of the design Quality Control procedures were performed on March 6 and April 17th.
- The monthly EOR meetings were held on March 7 and April 10th.

### **CONSTRUCTION PROGRESS FOR MARCH & APRIL 2013**

The following construction activities took place in the months of March & April 2013:

#### ***Watson Island Buildings:***

1. BCWF continues installation of utilities for Watson Island buildings.
2. Beauchamp Construction completed all vertical elements and started roof and floor elements which continues in progress for the Operation and Utility Buildings.

#### ***Watson Island:***

1. BCWF continues installation of utilities for Watson Island buildings.
2. BCWF continued drainage improvements in the median of MacArthur Causeway (Structures S-46 & S-49) and at the eastbound bus stop (S-26).
3. BCWF began improvements at the redesigned retention pond WA & WB.

#### ***MacArthur Bridge***

1. Continued installation of Stay-In-Place (SIP) forms for exterior bridge deck widening from pier 16 to end bent 19.
2. Completed installation of the Stay-In-Place (SIP) forms for exterior bridge deck widening from pier 15 to end bent 19.
3. Began installation of reinforcing steel in the exterior widening section in preparation for bridge deck pour.
4. Completed installation exterior bridge diaphragms from pier 15 through end bent 19.
5. Continued installation of modular joints in the exterior widening section.

#### ***Dodge Island Buildings***

1. BCWF Continued installation of utilities for the Operation, Maintenance and Utility Buildings.
2. Beauchamp Construction continued the erection of the building walls

#### ***Dodge Island***

1. Completed phase 2 WASD water main installation, pending Dept. of Health clearance.
2. Set bridge beams for the Truck Bridge.
3. Began installation of SIP forms in span 2 of Truck Bridge.
4. Began installation of diaphragms for Truck Bridge.
5. Implemented MOT Phase 3C for temporary WB Port Blvd. at Truck Bridge.
6. Continued installation of coping for MSE walls at the new Truck Bridge.
7. Continued installation of cast in place retaining walls # 12, 22 B & C.
8. Placed base material on the westbound approach to the Truck Bridge.

## Port of Miami Tunnel – March & April 2013 Combined Monthly Progress Report

### ***Portals, Tunnels & Cross Passages***

1. Westbound tunnel mining completed 3994 LF (96%) by 30 April.
2. Ballast placement in eastbound and westbound tunnel.
3. Walkway, utilities and fire panel installations in EB Tunnel.
4. Utilities and walkway installations in WB Tunnel.
5. Concrete for U-wall structures on Watson and Dodge Island.
6. Cross Passages construction.
7. Buildings Construction on Dodge and Watson Island.

### ***Precast Yard***

1. Concrete Segment manufacturing completed.
2. Fire panel painting in progress.

### **ANTICIPATED CONSTRUCTION PROGRESS FOR MAY 2013**

BCWF has scheduled the following major construction activities for the month of May, 2013:

#### ***Watson Island Buildings***

1. Continue installation of utilities for Watson Island buildings.
2. Beauchamp to complete construction of building roofs and floors.

#### ***Watson Island***

1. Complete drainage installation on eastbound MacArthur Cswy. in the vicinity of the bus stop near the Children's Museum and in the westbound median at the eastern project limit.
2. Complete retention ponds WA & WB.

#### ***MacArthur Bridge***

1. Begin removal of bridge rail.
2. Complete pouring of exterior widening section of eastbound MacArthur bridge from pier 15 to pier 19 (End Bent).
3. Continue installation of modular expansion joint material.

#### ***Dodge Island Buildings***

1. Continue installation of utilities for buildings.
2. Beauchamp to complete vertical elements, continue with roof construction and start floors.

#### ***Dodge Island***

1. Continue with installation of SIP forms at the Truck Bridge.
2. Complete installation of diaphragms at Truck Bridge.
3. Begin roadway construction activities in vicinity the driveway and parking lot at the PortMiami Maintenance Building on North Cruise Blvd.
4. Complete installation of coping for MSE wall for the Truck Bridge.
5. Complete installation of base material for the east approach for the Truck Bridge.

### ***Portals, Tunnels, Cross Passages***

1. Complete TBM mining on Westbound Tunnel.

## Port of Miami Tunnel – March & April 2013 Combined Monthly Progress Report

2. Ballast in EB and WB Tunnels.
3. Walkways, utilities and fire panel installations in EB & WB Tunnels.
4. U-Wall structure at Watson and Dodge Island Portals.
5. Cross Passages construction.
6. Buildings construction on Dodge and Watson Island.

### ***Precast Yard***

1. Fire Panel Painting

### **EEO/DBE/OJT**

#### ***EEO***

BCWF is now working with electronic payrolls using the LPC Tracker software. On March 13, BCWF conducted training for all companies involved in the project. Review of payrolls is an ongoing process; our Compliance Office is issuing Violation Letters when applicable. Meetings held the first and third Wednesday of each month to coordinate a quick solution to violations unsolved and other outstanding EEO/DBE issues. Solution of violations by contractor exceeds all reasonable timeframe and no improvement is detected.

Bulletin board is in compliance. Labor Interviews and certified payrolls are processed for verification purposes, no deficiencies found.

#### ***DBE***

As per Department directions, BCWF must contact the DBE Office directly in order to resolve all issues they may have with the EOC System. DBE payments are now in the EOC System. Two CUF interviews conducted during the month of April.

#### ***OJT***

As of end of March, 2013, forty-eight Trainees (65 % of project goal) graduated from FDOT's Training Program. There are 5 Active Trainees currently on the project. An additional four OJT trainees successfully performed proficiency exams and are awaiting graduation from the program. As of end of April, 2013, the project has 4 active Trainees and 52 graduated from the FDOT's Training Program (71 % of project goal).

### **PUBLIC INFORMATION/COMMUNITY AWARENESS**

The Concessionaire/Contractor continues to sponsor vendor and contractor inclusion with "Operation 305" outreach efforts with organizations such as the Miami-Dade Minority Chamber, American-Haitian Chamber of Commerce, Community Small Business Enterprise of Miami-Dade and many other organizations.

BCWF remains committed to successfully graduating 73 On-The-Job Trainees. As of last month, BCWF's OJT Program has graduated a total of 55 trainees to Journeyman classifications.

As a result of the Department of Transportation's mandate, the Disadvantaged Business Enterprise (DBE) Goal for this project is 8.1%, or \$26,406,000.00 of the contract value. BCWF remains committed to not only achieve but also exceed the Contract Goal. To date, BCWF has let a total of \$31,285,585.00 in

## Port of Miami Tunnel – March & April 2013 Combined Monthly Progress Report

contracts, and has exceeded the Project's Goal attainment for DBE participation by \$4,859,243.51 in contract values. Total payments made to DBE subcontractors on the POMT Project totals \$25,084,018.00 or 94.99 % of the Project goal.

Since the groundbreaking in May 2010, Bouygues Civil Works Florida's impact to Florida's economy via recruitment for the PortMiami Tunnel Project includes the direct hiring of a total of 968 persons.

Based on Certified Payroll Records, the number of Davis Bacon-Related laborers, mechanics and craft workers) from BCWF and BCWF's subcontractors who have been processed to date is 6,728.

To date, BCWF has contracted with a total of 831 companies to do work on the PortMiami Tunnel Project, and a total of \$325,000.00 in contracts has been awarded to these companies. Of these 831 companies, 56% are Miami-Dade County businesses.

Union inclusion has been completed with the Laborers International and the South Florida Labor Council. IBEW, AFL-CIO and the Operators are all now part of the POMT project. The project's job website, [www.build305.com](http://www.build305.com), is up and running.

Meetings with Miami-Dade County, City of Miami and City of Miami Beach Commissioners continue on an individual and collective basis.

FDOT and the Concessionaire conducted a site tour and media interview with Miami Today on March 1.

FDOT and BCWF presented project update at the Joint Traffic Incident Management Meeting for Miami-Dade and Broward Divisions on March 6.

The Concessionaire participated and gave a tour during the Beacon Council Business Expo and also attended the Beacon Council's annual awards luncheon on March 14.

FDOT conducted an interview with Florida International Universities for project update (3/27/13).

FDOT conducted a media interview with ENR Magazine (3/28/13).

The Concessionaire/Contractor/FDOT/PortMiami hosted U.S. President Obama at the construction site on March 29.

The Concessionaire/Contractor/FDOT conducted site tours with various elected/appointed officials, media and general engineering professionals including: IBEW Leadership (3/6/13); Miami DDA Board (3/12/13); Bill Talbert of the Greater Miami Beaches and the Visitors' Bureau (3/26/13); Federal Highway Administration Leadership (3/26/13); Miami-Dade County's Emergency Management Office on (3/28/13); TIFIA Representatives (4/3/13); FHWA (4/8/13) Florida Transportation Commission Chairman Ron Howse 4/12/13; Miami-Dade County's Transportation Aesthetics Review Committee (TARC) (4/23/13); Beacon Council Interim President Robin Reiter (4/24/13); Greater Miami Chamber of Commerce Transportation and Infrastructure Committee (4/25/13)

The Concessionaire/Contractor sponsored and/or participated in the following: World Trade Center's International Women's Day luncheon (3/8/13); Miami-Dade Chamber's Annual Business Leaders

## Port of Miami Tunnel – March & April 2013 Combined Monthly Progress Report

Luncheon (3/22/13); Miami Children's Museum Gala (4/6/13); National Association of Women in Construction (NAWIC) monthly Luncheon featuring PortMiami Director Bill Johnson (4/17/13)

The Concessionaire/Contractor presented at: Greater Miami Chamber Monthly Trustee Luncheon (4/3/13); Greater Miami Chamber of Commerce Transportation and Infrastructure Committee (4/25/13)

The Concessionaire/FDOT presented at: DBIA 2013 Design-Build Transportation Conference (3/18-20/13); University of Miami Engineering (3/19/13); Miami Beach Transportation Committee Meeting (3/4/13) & (4/8/13); Palm Hibiscus Star Island Homeowners Association meeting (4/16/13); University of Miami – Construction Program (4/19/13)

### **PROJECTED COMMUNITY OUTREACH / RECRUITMENT EFFORTS:**

FDOT (PB) is scheduled to participate and conduct tour with Colorado DOT on May 1.

The Concessionaire is scheduled to participate and present at the Maritime Week America's Public-Private Partnership Seminar on May 2.

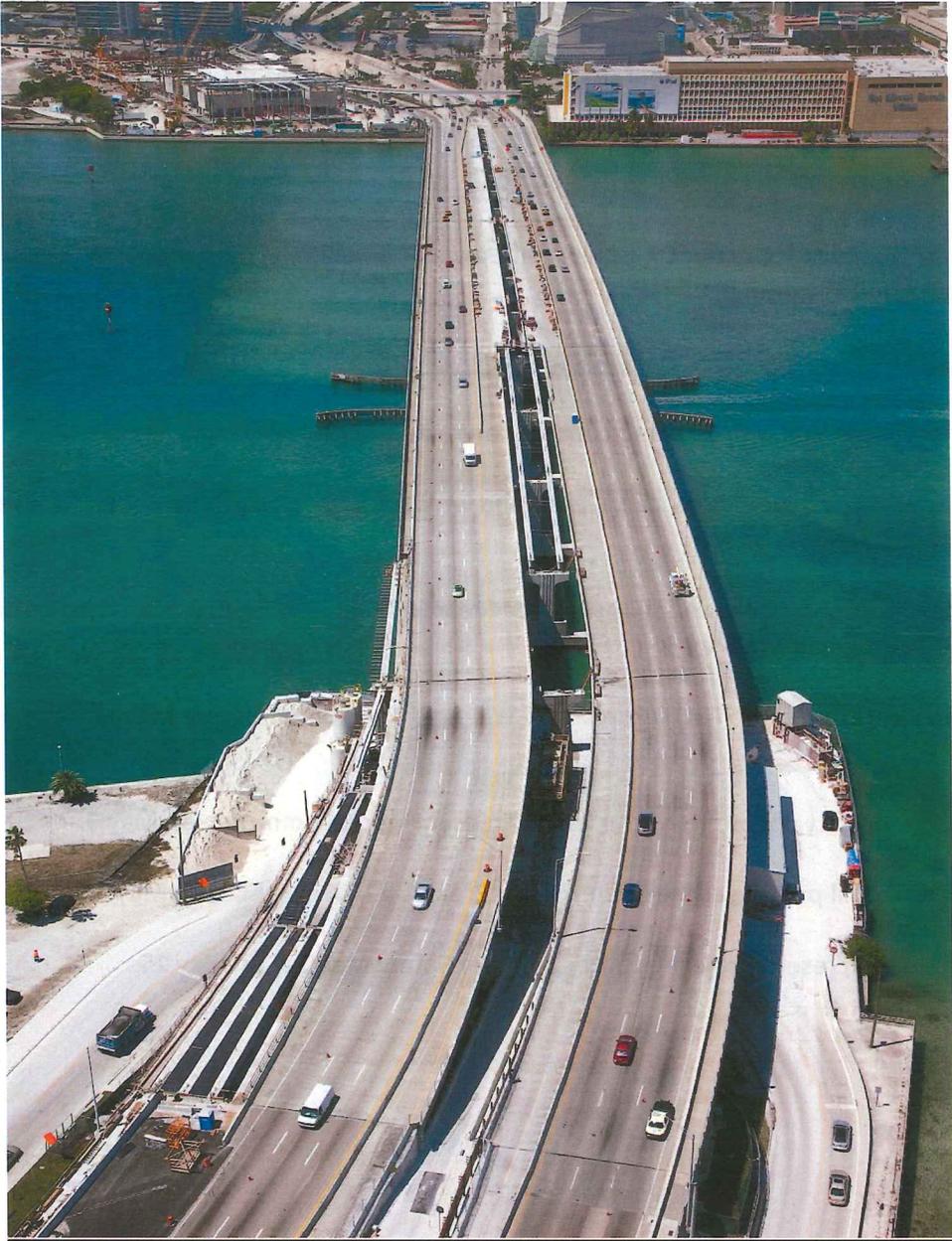
The Concessionaire/Contractor will sponsor the Greater Miami Convention & Visitors Bureau HOT Challenge Golf Tournament on May 3.

The Concessionaire/Contractor/FDOT/PortMiami will hold the Tunnel Boring Machine Breakout Media Event on May 6.

FDOT will present project update to Miami Beach Transportation Committee on May 6.

The Concessionaire will present at the Miami Beach Breakfast Morning Club on May 14.

FDOT is scheduled to present Project Update at Harbor Safety Meeting on May 15.



**Photo 1. MacArthur Bridge Westward View  
Phase I Interior Beams (March)**



**Photo 2. Dodge Island Operations (March)**



**Photo 3. Construction of Tunnel Cross Passage #4 (March)**



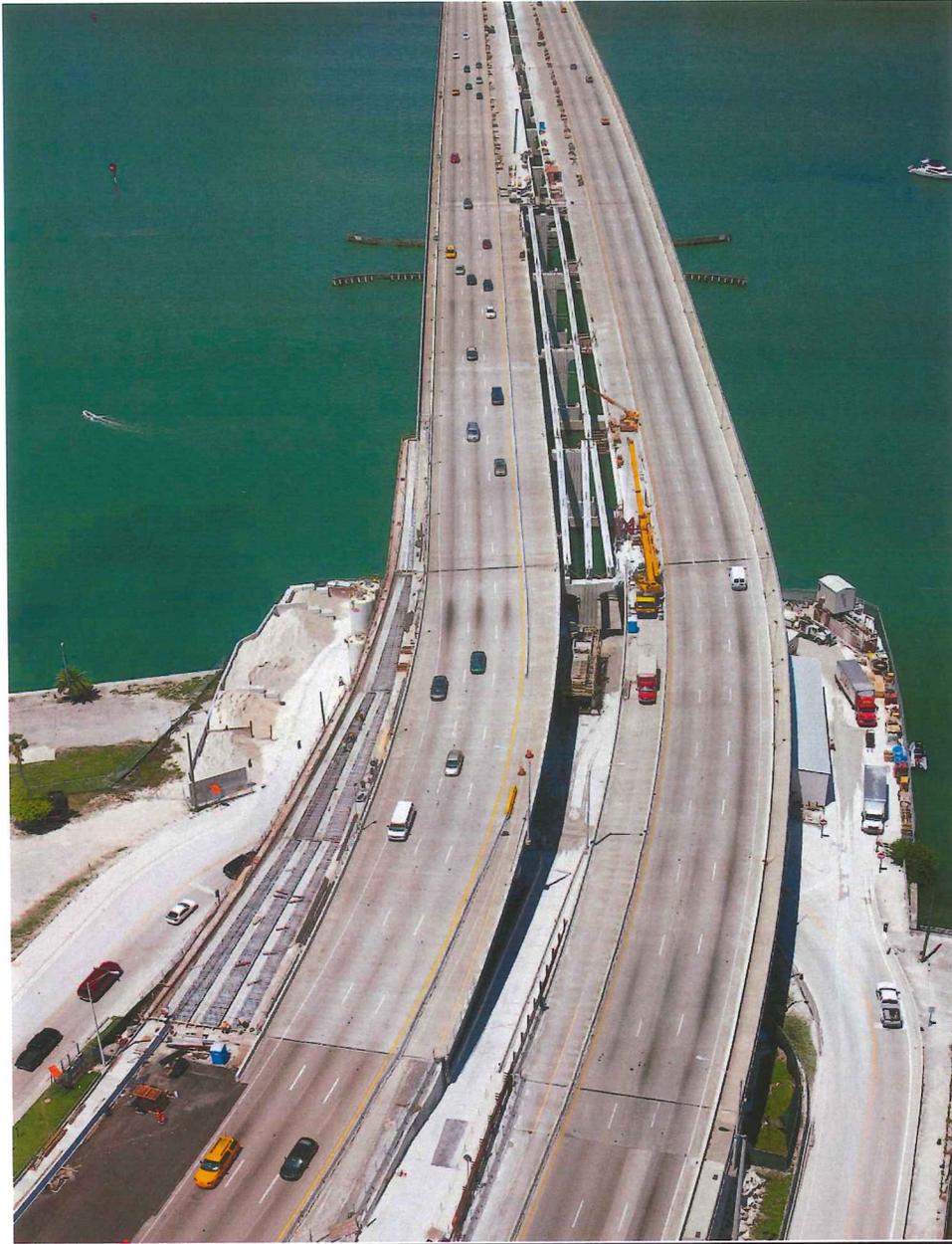
**Photo 4. Construction of Tunnel Cross Passage #5 (March)**



**Photo 5. Fire Proofing Installation (March)**



**Photo 6. EB Tunnel (March)**



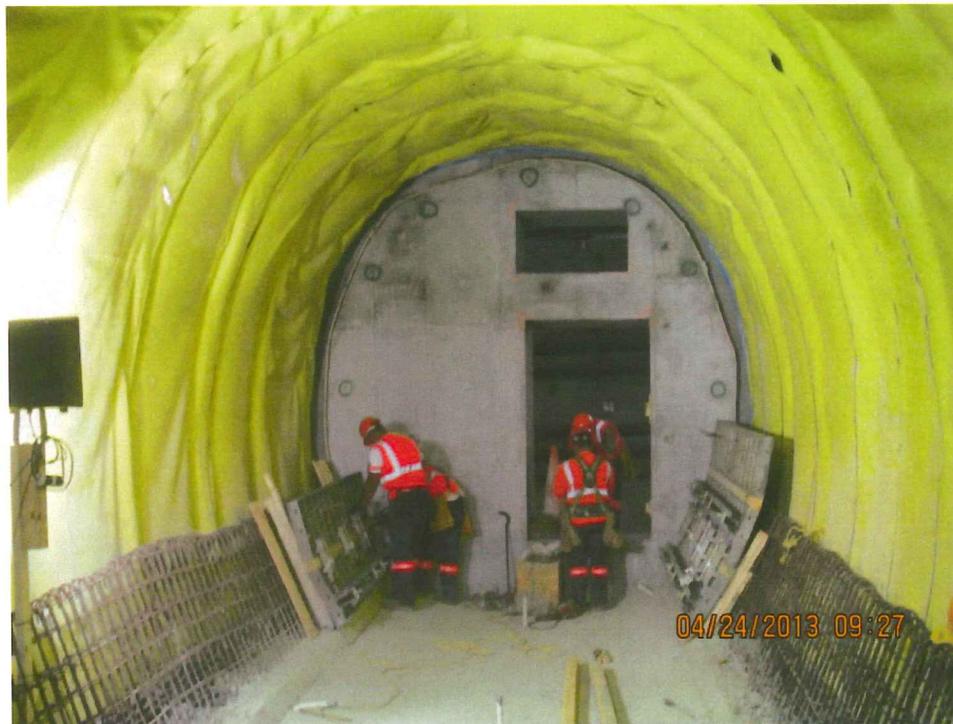
**Photo 7. MacArthur Bridge Westward View  
Phase I Interior Beams (April)**



**Photo 8. Dodge Island Operations (April)**



**Photo 9. EB Tunnel Progress – Installation of Fire Proofing (April)**



**Photo 10. Cross Passage Construction – Water Proofing (April)**



**Photo 11. Ground Freezing for Cross Passage Construction (April)**



**Photo 12. U-Wall Construction (April)**