

Memorandum



Date: May 22, 2012

To: Honorable Chairman Joe A. Martinez
and Members, Board of County Commissioners

From: Carlos A. Gimenez
Mayor 

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

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

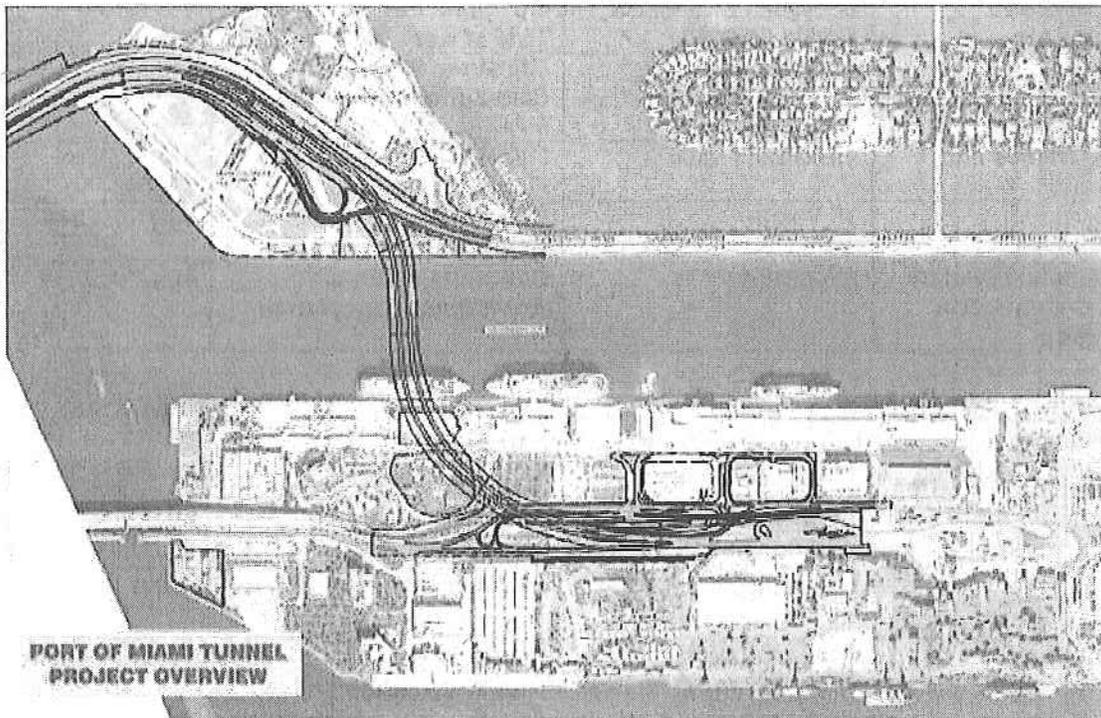
Attachment

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



Port of Miami Tunnel Project

Combined Monthly Progress Report – February & March 2012



Port of Miami Tunnel – February & March 2012 Combined 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:	50.9 % 899 OF 1765
Owner's Engineer (Design)	PB Americas, Inc.	Construction Cost:	\$607 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 st bore	\$40 Million (PAID)
Design/Build Contractor	Bouygues Civil Works Florida (BCWF)	Milestone Payment # 3 – TBM at work in 2 nd bore	\$25 Million
Engineer of Record	Jacobs Civil	Milestone Payment # 4 – Substantial completion of MAC	\$15 Million
Maintenance and Operator	Transfield / VMS	Milestone Payment #5– Final Acceptance	\$350 Million
Concession Agreement	35 Years	Construction Substantial Completion	May 15, 2014
Contractual Design and Construction Duration	55 Months	Construction Final Acceptance Completion	Aug. 14, 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		Alternative Alignment - Single Portal Realignment on Dodge Island (Credit)	(\$2,500,000.00)	Pending
4		MacArthur Causeway Improvements: Bike Lane Extension, U-Turn at Watson Island & Extension of Milling & Resurfacing Limits	\$390,696.83	Pending

MILESTONE PAYMENTS:

1. Milestone No. 1: Completion of Design Work for Tunnel (\$20 Million)
 - a. Achieved on 9/30/2011
2. Milestone No. 2: Tunnel Boring Machine at Work in First Bore (\$40 Million)
 - a. Achieved on 11/19/2011

SCHEDULE

The updated schedule continues to depict the critical work to be the tunnel construction activities of TBM operations, with the Dodge Island SOE and grouting operations on Watson Island and in the Government Cut still considered near critical activities.

Port of Miami Tunnel – February & March 2012 Combined Progress Report

DESIGN PROGRESS FOR FEBRUARY & MARCH 2012

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

Watson Island

FDOT reviewed and provided comments for the following design packages:

1. Substation Building Geotechnical Engineering Report
2. Access Ramp Traffic Control Plans
3. MacArthur Causeway Bridge Widening Beam Erection Analysis Plans and Calculations
4. Portal Structure (U-Wall and Cut and Cover) Mass Concrete Plans
5. MacArthur Causeway Bridge Widening – Field Change Request for Stay-in-Place forms
6. MacArthur Causeway Bridge Widening – Superstructure Revision 02
7. Portland Cement Treated Material Specifications

Documents submitted this month that are currently under review:

1. MacArthur Causeway Aesthetic Lighting System – Lighting Design Analysis Report

Dodge Island

FDOT reviewed and provided comments for the following design packages:

1. Water Main Utility Relocation Plans, Phase 4
2. Construction Effects on Structures – Analysis Method – Evaluating Construction Effects
3. Operation Building Drainage Report Calculation Notes
4. Operation Facilities – Geotechnical Engineering Report
5. Retaining Wall Plans and Calculations
6. Bridge 90% Plans and Structural Calculations
7. Relocated High Mast Light Foundation Design
8. Roadway Plans Package 3 Revision 01
9. Signalization Plans
10. Sign Structure 90% Plans and Calculations
11. U-Wall Plans and Calculations
12. Operations Building Site Plans
13. Lighting Design Analysis Report
14. Lighting Plans
15. Signing and Pavement Plans
16. Truck U-Turn and POV Lane Improvements Plans

Documents submitted that are currently under review:

1. Roadway Lighting Plans
2. Operations Building Drainage Report Calculations Notes, Site Plans and Lighting Design Analysis Report
3. Cut and Cover 90% Plans and Calculations

Port of Miami Tunnel – February & March 2012 Combined Progress Report

Tunnel Design

FDOT reviewed and provided comments for the following design packages:

1. U-Wall, Cut and Cover Tunnels & Cross-Passages Durability Design Report
2. Dodge Island Settlement Assessment Calculation Note
3. Geotechnical Instrumentations Plans, Specifications and Report
4. Portland Cement Material Specifications for Tunnel Ballast
5. Fire Durability Technical Report
6. Formation Grouting – Ground Water Control for EPB Tunneling
7. Precast Segment Repair – Post-Installation
8. Architectural Cross Passages 60% Plans

Documents submitted this month that are currently under review are:

1. Quality Control Plan
2. Formation Grouting Report – EPB Tunneling and TBM Steering
3. Grout Testing Program – Formation Grouting for EPB Tunneling
4. Tunnel Lining Plans Revision 01
5. Formation Grouting Report – TBM Intervention/Additional Intervention Plugs
6. Government Cut Channel – Soil Conditioning Report – EPB Tunneling
7. Watson Island Formation Grouting Permeability Testing Report
8. Tunnel Roadway 90% Plans
9. Tunnel Access Requirements
10. TBM Cutterhead Work Report – Disc Changes

Other documents submitted and reviewed:

- Geotechnical Instrumentation Weekly and Monthly Reports

CONSTRUCTION PROGRESS FOR FEBRUARY & MARCH 2012

Watson Island

1. Completed retention ponds WA & WB.
2. Continue construction of MSE wall for tunneling operations in shallow soil area located in the MacArthur Causeway median.
3. Energized sections permanent highway lighting on MacArthur Causeway (for use as temporary lighting).

MacArthur Bridge

1. Began setting of bridge beams; spans 2 through 6 have been set.
2. Construction of pier column at pier 15 is ongoing, only pier 16 column is outstanding.

Dodge Island

1. Continued construction of Europe Way.
2. Continued construction of eastbound roadway included in secondary inspection area at Customs Border Patrol (CBP).

Port of Miami Tunnel – February & March 2012 Combined Progress Report

3. Completion of lead track railroad construction is awaiting disposition of rail clips at splice locations.
4. Continue construction of permanent South Cruise Blvd.
5. Continue sanitary sewer relocation and removal.
6. Continue WASD water main installation.

Underground, Tunnels, Cross Passages & Formation Grouting

1. TBM mining was interrupted to install a CSM plug and perform cutterhead maintenance under compressed air during February. TBM mining continued with the excavation of approximately 1,371 LF of the eastbound tunnel by 3/31/12.
2. Formation grouting continued, injecting approximately 39,385 CY of grout in 698 holes by 3/31/12.
3. Ground improvement continued near Cross Passage 4.
4. Shallow Soil Mixing (SSM) was completed on Dodge Island.
5. Bulk excavation of the portal on Dodge Island was completed and tremie concrete preparations for the portal on Dodge Island continued.

Precast Yard

1. Concrete segment manufacturing continued, casting approximately 5,685 concrete segments (about 711 rings) by 3/31/12.

ANTICIPATED CONSTRUCTION PROGRESS FOR APRIL 2012

For the month of April 2012, BCWF has scheduled the following major construction activities:

Watson Island

1. Continue construction of MSE wall for tunneling operations in shallow soil area located in the MacArthur Causeway median.
2. Complete outside lane MSE wall located on eastbound MacArthur Causeway.
3. Complete installation of permanent highway lighting on Ramp C2.

MacArthur Bridge

1. Continue setting bridge beams through interior span 15.
2. Continue construction of substructure for remaining pier (columns & caps at 15 & 16).
3. Complete demolition of pier column stubs.

Dodge Island

1. Continue construction of Europe Way.
2. Continue construction of new permanent South Cruise Blvd. (Tropic Dr.) from Atlantic Way to Panama Way.
3. Implement Detour 3 on east end of Dodge Island.
4. Continue installation of new sanitary sewer line.
5. Continue removal of existing sanitary lines placed out of service.
6. Complete Phase 2 WASD water main installation.

Underground, Tunnels, Cross Passages & Formation Grouting

1. Continue eastbound tunnel mining.
2. Continue Formation Grouting on Watson Island, Dodge Island and in Government Cut channel.
3. Install CSM panels for ground improvement near Cross Passage 4.
4. Place tremie slab for Dodge Island Portal.
5. Begin de-watering operations at Dodge Island portal.

Port of Miami Tunnel – February & March 2012 Combined Progress Report

Precast Yard

1. Continue casting concrete segments.

DBE/OJT

DBE

As per BCWF's Anticipated DBE Participation Statement Revision No. 10, of the \$326,000,000.00 DBE dollars available \$26,437,308.18 (8.13%) has been contracted out. As of February 2012, \$10,535,211.08 (3.23%) has been paid to the DBE Contractors.

OJT

As of March 2012, Eight (8) Trainees have graduated from FDOT's Training Program. There are 10 additional Trainees in the process of graduating. In addition, 22 candidates are anticipated to be interviewed and enrolled in the program this April and May.

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.

As of March, the number of companies/vendors with contracts total 588. Of those 588 companies that have or are currently doing business with the tunnel project, the total amount that has been awarded is \$234M, \$50M for tunnel specialized work and \$184M for non-tunnel related work. Of the \$184M, \$110M or 60% has gone to local, Miami-Dade County firms.

Currently, the reported DBE Participation is \$26.4M or 101.78% of the contracted project goal. To date the POMT Project has let contracts totaling \$24.3M with DBE companies.

The project's outreach efforts have generated a total of 4,142 people who have worked on the Port of Miami Tunnel Project since inception. This total number includes direct hires by the design-build contractor Bouygues Civil Works Florida (BCWF) as well as those persons working on the project through subcontractors retained by BCWF.

Currently, each person working on this project is being counted and tracked via the Certified Payroll as required by the Florida Department of Transportation (FDOT). As of February 29th, the contractor is employing 400 direct employees; 139 are office staff and 261 are craft workers. Based on Certified Payroll Records, the total number of active craft workers on the site is 198, bringing the total number of persons at work at the Port of Miami Tunnel Project to 598.

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

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, is up and running.

Port of Miami Tunnel – February & March 2012 Combined Progress Report

The Concessionaire/Contractor attended and presented at the following meetings: Miami Beach Transportation Committee (2/6 and 3/5/12); Transportation Aesthetics Review Committee (TARC) to review the portal rendering design (2/10/12); Commissioner Moss' roundtable discussion on (3/7/12); and French American Chamber of Commerce Luncheon (2/16/12).

The Concessionaire/Contractor had the Discovery Channel shoot the site on February 9 for one of their programs called "The World's Top Five Earth Movers".

The Concessionaire sponsored and/or attended the following: State of the Ports Luncheon (2/15/12); State of the County Address (2/28/12); Greater Miami Chamber Luncheon on public-private partnerships on March 7; Miami-Dade Chamber Annual Business Leader Awards Luncheon (3/16/12); participated in a transportation panel at the Southern Florida Minority Supplier Development Council 27th Annual Expo (3/23/12); and sponsored Miami Children's Museum Annual Gala (3/30/12);

The Concessionaire/Contractor has been conducting site tours with various elected/appointed officials.

The Concessionaire/Contractor had Leadership Miami (Greater Miami Chamber of Commerce Young Professionals Group) visit the site on March 19.

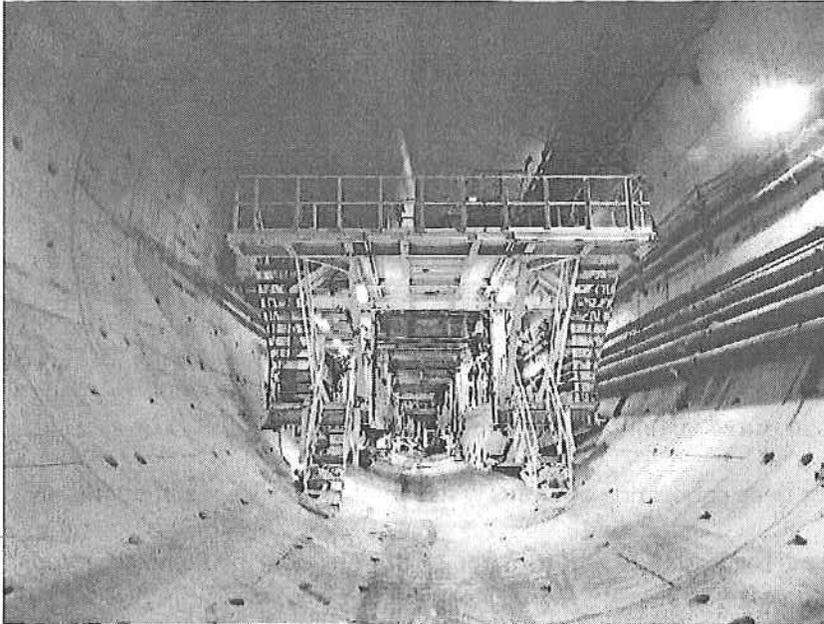
PROJECTED COMMUNITY OUTREACH / RECRUITMENT EFFORTS:

The Concessionaire/Contractor will be presenting an update to the City of Miami Beach Transportation Committee on April 2.

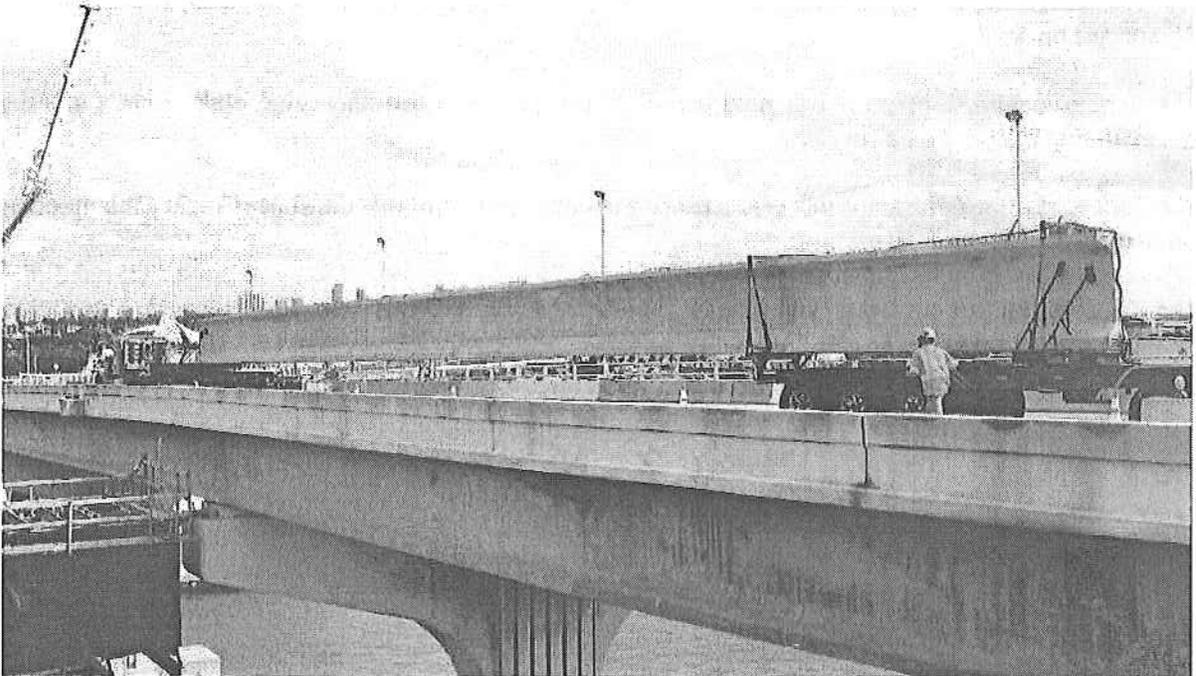
The Concessionaire/Contractor will hold a project update for cruise and cargo stakeholders at Port Miami during the third week in April.

The Concessionaire/Contractor will give a project update at the monthly Coral Reef Yacht Club meeting on April 19.

The Concessionaire/Contractor will attend the Palm Hibiscus Star Island Homeowners Association general meeting on April 24.



1. Trailing end of the Tunnel Boring Machine in eastbound bore.

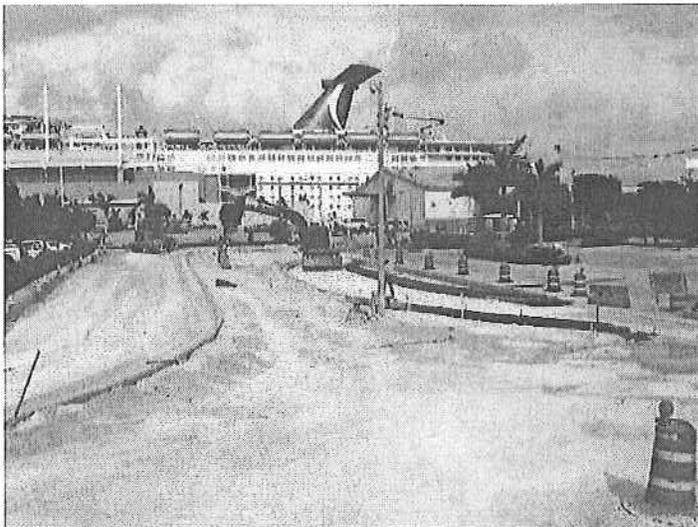


2. First beam being delivered to MacArthur Bridge placement location.

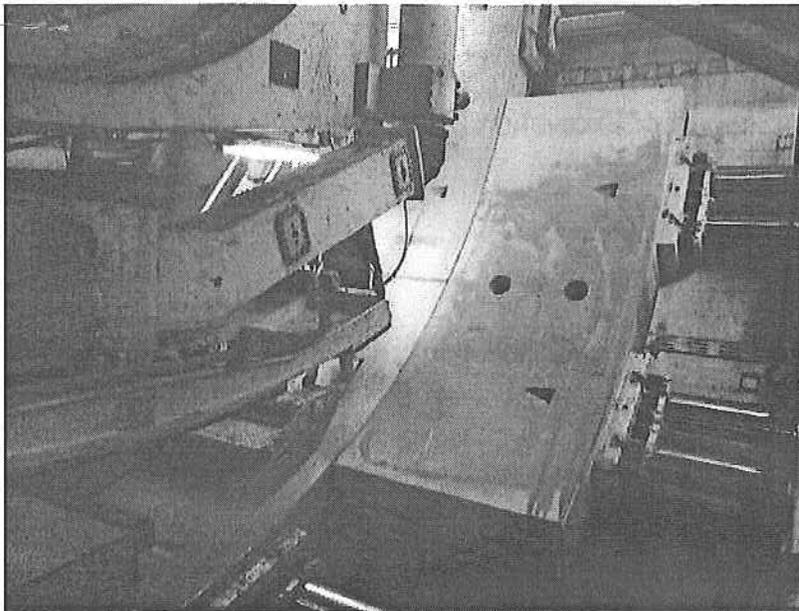
Port of Miami Tunnel – February & March 2012 Combined Progress Report



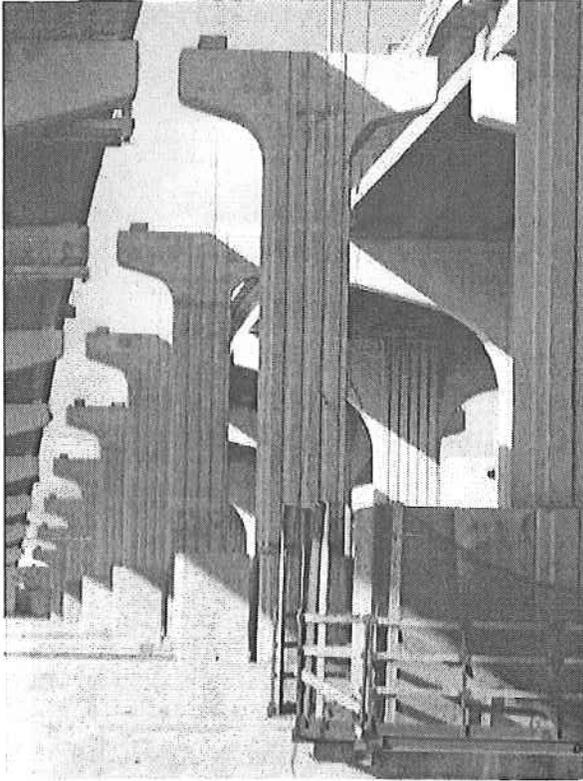
3. Excavation of Dodge Island Support of Excavation (SOE) pit continues in preparation for Tremle seal pour.



4. Construction of Europe Way on Dodge Island.



5. Concrete Segment being placed by TBM.



6. Center piers of MacArthur Bridge.



7. Setting beams on MacArthur Bridge.



8. Night time formation grouting in government cut (channel).