

# 2006 Port Everglades Master Plan Update





## **DMJM HARRIS CONSULTANT TEAM**

Team Member	Role	Company	
Craig Holland	Corporate Officer in Charge	DMJM Harris	
Richard Heidrich	Project Manager	DMJM Harris	
Ron Everett	Deputy Project Manager	JWD / DMJM Harris	
Vijay Agrawal	Port Planner	JWD / DMJM Harris	
Cyndi Harris	Planner	DMJM Harris	
Sheryl Dickey	Public Involvement	Dickey Consulting Services	
Joan Sanchez	Planning / SIS / Comp Plan	J.D. Sanchez Consulting	
Sandra Walters	Environmental	Sandra Walter Consultants	
John Martin	Containerized Cargo Market Assessment	Martin Associates	
Jeff Sweeney			
Michael Sclar	Non-Containerized Cargo Market Assessment	Michael L. Sclar Associates	
Mark Ittel	Cruise Analysis	Bermello, Ajamil & Partners	
Lakdas Nanayakkara	Marine Structures	Lakdas/Yohalem Engineering	
Keith Emery	Cost Estimating	CMS	



#### **MISSION STATEMENT**

"The mission of Port Everglades is to manage the County's port related assets to maximize the economic benefits to the citizens and businesses of Broward County and the State of Florida. The Port will manage the County's assets in a financially responsible, environmentally sound manner, consistent with the local, state and federal rules and regulations that govern international and domestic trade, transportation and the Port industry."



# PORT EVERGLADES STRATEGIC DEVELOPMENT PROGRAM

- Provide new container and other marine terminal/warehouse facilities, including for an intermodal container transfer facility.
- Improve intermodal connections (road and rail) to facilitate the transportation of cargo and provide competitive service.
- Expand cruise operations and construct new facilities.
- Expand roadway systems and parking facilities to support increased cruise growth and an on-site Convention Center.
- Expand Foreign Trade Zone operations.
- Expand role as a transshipment center for the Southeastern U.S.,
   Caribbean, Latin American, and Far East markets.
- Improve petroleum distribution facilities.
- Pursue new trading opportunities and strengthen existing ties.



#### **GOAL OF 2006 MASTER PLAN UPDATE**

Create a plan to maximize return on investment through a realistic 5 year facility development program within a framework of 10 and 20 year vision plans.



#### **OBJECTIVES**

- Balanced Market-Driven Expansion
- Realistic Infrastructure Development Program
- Provisions for Market Diversification
- Continuing Environmental Stewardship



#### **WORK PLAN**

#### Phase I – 5 Months

- Facilities Assessment
- Market Assessment
- Facilities Needs and Throughput Enhancement
- Strategy Development, Tasks A-C

### Phase II - 3 Months

- Strategy Development, Tasks D-E
- Final Plan (Executive Summary)

## Phase III

- Update Deepwater Port Component of County
- Comprehensive Plan and Approval Assistance



#### **WORK PRODUCTS**

- 5 Year CIP
- 10 & 20 Year Vision Plans
- Updated Port Master Plan
- Updated Market Study
- Updated Comprehensive Port Plan



#### PROJECT COMMUNICATION

- www.portevergladesmasterplanupdate.com
- Schedule of Events / Meetings
- Meeting / Presentations Workshops
- Ask Questions / Give a Comment



#### www.portevergladesmasterplanupdate.com



#### PORT EVERGLADES PLANS FOR FUTURE GROWTH WITH NEW MASTER PLAN DEVELOPMENT

The Browned County Prof. Exceptacies Department has retained the services of DMM Hams, a nationally recognized angiocentry/planning/seconomic analysis consulting firm, to propers a comprehensive three-year Master Ptan, and 10- and 20-year Vision Plans.

"We know that reaching a balance between financial stability, ospital development and security operations is achievable. It is our hope that the updated Port Everglades Mister Plan will pot a course for how we can expand and enhance existing facilities in the most economical and efficient manner," says Port Everglades Director Philip C. Allen.

in preparing the Master Plan, DMUM Horns will assess that changes that have telvian place regionally, nationally, internationally and at the Port same 2001, when Port Everglades' presented its original 2000 Vision Master Plan DMUM Horns will incorporate the changing business trends and adjustments that have resulted in the post-by-11 environment. In addition, apportunities and constraints that loculal impact the 30- and 20-year Mison Plans will be identified.

The Plan also will include recommendations stemming from a purrent study of the Port's patroleum facilities, which identified ways to improve the efficiency of this business sector's facilities.

Protecting the environment through structural considerations and operational practices is another initiative that the Port Department is pursuing as the Master Plan is developed. We are also making environmental protection, maintenance and enhancement an important component of Port Everglands future development," Allen said, adding that Port Department research hospida a workshop to ask the local community and anytromental experts for their input about now they believe the Port can progress while remaining a good environmental stoward.

The new Master Plan is expected to be complete by late. Spring of 2007. The port community and general public will be invited to provide input as the plan is being developed.

As one of South Florida's leading economic engines. Post Everglades is the gateway for international trade and cruise vacations. Post Everglades is one of the busiest cruise ports vocidivistic and the writer homeport for Cumart Une's Queen May 2. It is among the featiest growing container ports in the United States, according to the FEERS import/export database. And, Post Everglades is South Florida's main seaport for receiving perdoleum products including gascline and jet fixed. The Post Everglades Department is a self-supporting Enterprise Flund of Browerd County government with operating revenues of approximately \$100 million sensually. It does not rely on fixed tox dollars for operations. The Post provides mirror than 15,000 direct jobs and generates \$2.87 billion in business activity and \$879.5 million in personal income are intoward County.

More information on Port. Everglades, which is governed by the Broward Count Board of Commissioner, is available at

Port Everglades: Website www.broward.org/port



#### **MEETINGS**

- Public Outreach Meetings
- Group Tenant Meetings
- Agency Meeting
- One on One Meetings with Tenants
- CBP, BSO, Coast Guard
- Bi-weekly CC/FLL/PEV Master Plan Coordination Meetings



#### INFRASTRUCTURE ASSETS AT PORT EVERGLADES

- Deepwater Port
- 2000 Acres of Jurisdictional Area
- Interstate Highway Connection
- Freight Rail Connection
- Proximity to Fort Lauderdale Hollywood International Airport
- Cruise Facilities Infrastructure
- Cargo / Container Infrastructure
- Petroleum Storage Infrastructure



#### **DEVELOPMENT CONSIDERATIONS**

- Access and Circulation
- Port-wide Dredging Program
- Cruise Facility Expansion
- Southport Expansion
  - Berth Requirements
  - Terminal Utilization
  - Rail Access / ICTFDevelopment
- Midport Operations
- Petroleum Distribution Operations

- Airport Interface
  - Dynegy Property Development
  - People Mover Connection
- "Carve Out" Convention Center
- Dania Cutoff Canal Development
- FPL Discharge Canal Bridge
- Free Trade Zone Location
- Security Enhancements



## The Master Plan Team Is Currently Developing Market Forecasts for:

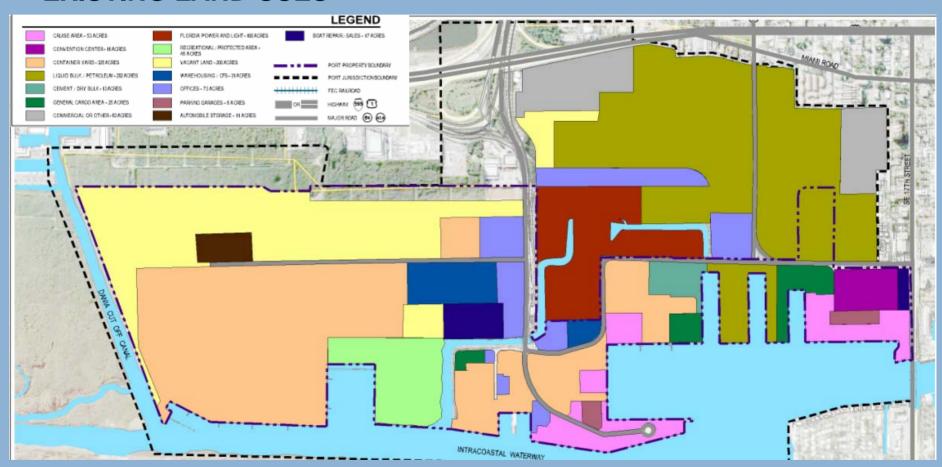
- Containerized Cargo
- Non-Containerized Cargo
- Cruise

## In Order to Prepare:

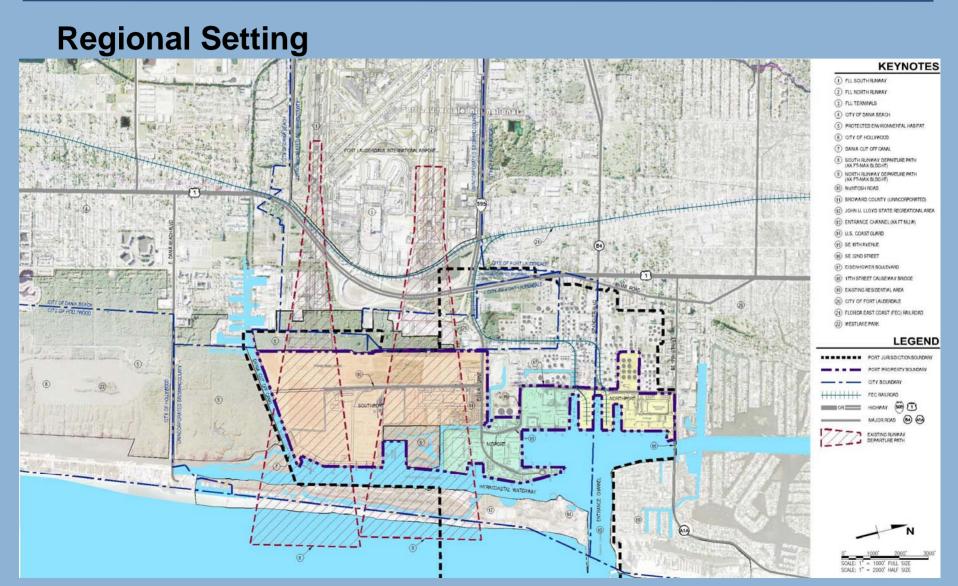
- Capacity Analysis
- Needs Assessment
- 20 Year Vision Plan



## **EXISTING LAND USES**

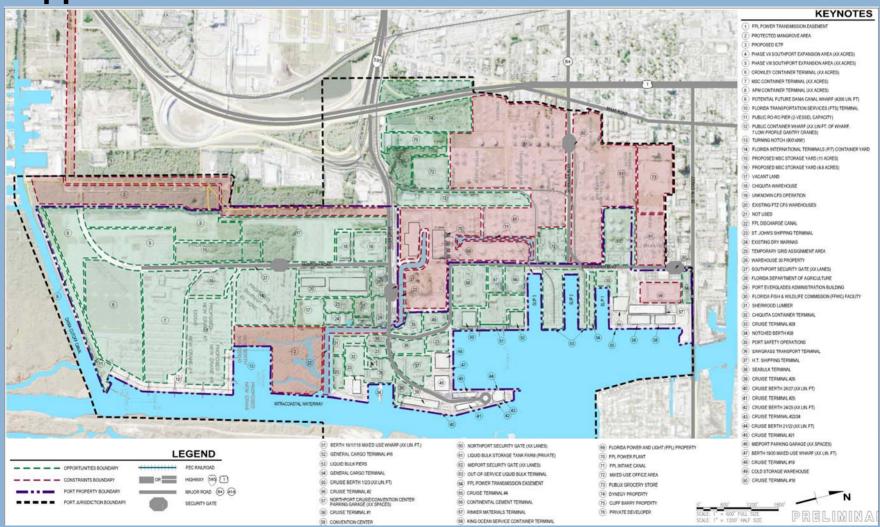








## **Opportunities and Constraints**





#### **ENVIRONMENTAL OBJECTIVE**

- Identify and quantify true environmental impacts from projected infrastructure improvements
- Use environmental impacts in the project decision making process



#### PORT EVERGLADES ENVIRONMENTAL WORKSHOP

- Held on March 10, 2006
- Focused on:
  - Natural Habitat
  - Water Quality
  - Air Quality
  - Recycling and Green Products



### **PUBLIC OUTREACH MEETING COMMENTS – SEPTEMBER 7, 2006**

- Environmental Concerns
  - Proposed Dredging and Impact on Marine Habitat
  - Port Projects and Impact on Mangroves
- Proposed Pipeline Concerns
  - Environmental Impact
  - Safety Controls
- Security Concerns
  - Cruise Related
  - Port Entry



#### **CONVENTION CENTER "CARVE OUT" GOALS**

- Public Access to Convention Center/Hotel Development
- Maintain Secured Access to Port
- Allow Convention Center/Hotel to Expand
- Allow Port to Develop Mega Cruise Terminals



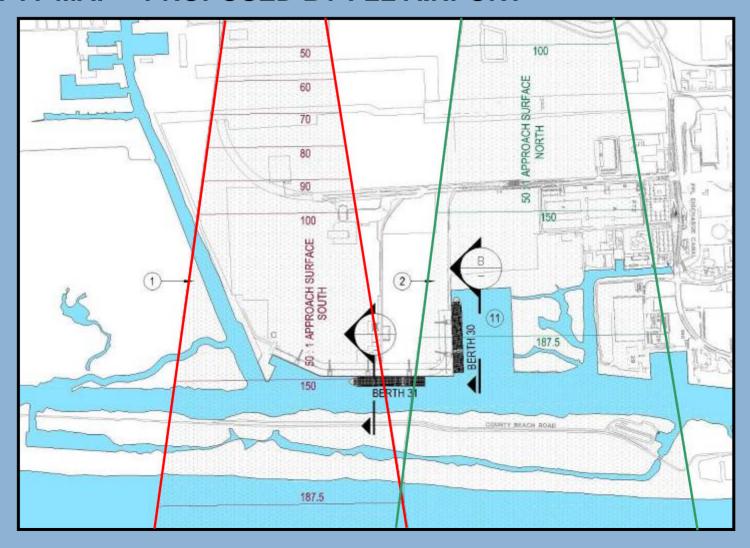
#### **PART 77 ISSUES**

## **Cross-Section Studies**

- Study both runways
- Assess operations at Berths 30 -32
- Existing Samsung Low Profile Cranes
- Maersk "S" Class vessel (1,138 FT LOA / 6,600 TEU)
- Study potential height impacts of vessel and cranes
- Identify potential spreader/boom conflicts

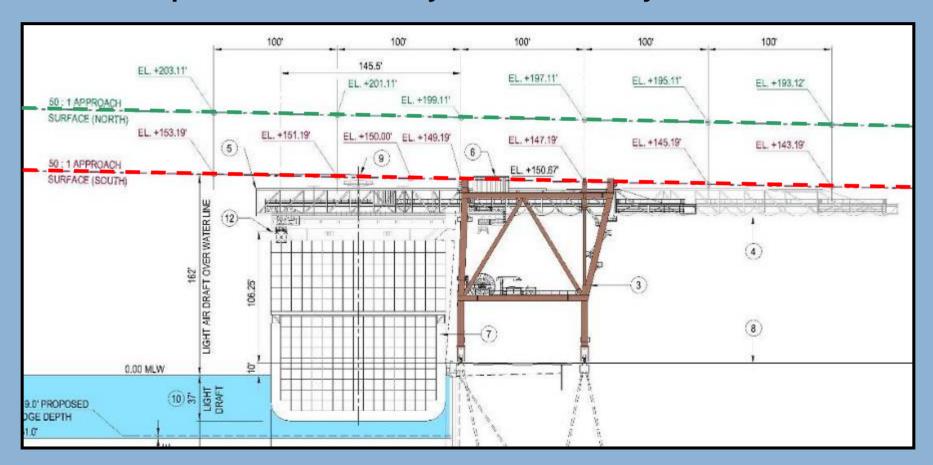


## PART 77 MAP - PROPOSED BY FLL AIRPORT





# Berth 31/32 - Cross Section Study Part 77- Proposed South Runway & North Runway





#### TRAFFIC MITIGATION MEASURES

- Remote Parking for Cruise
  - Encourage POV to HOV Use
- Increase Intermodal Zone Area
  - Lengthen Drop-Off Curb
- Intermodal Rail Use
- "Empties" Located Off-Port
- Use Right-hand Turns







## **ACOE Dredging Program**

## Inner Harbor Deepening:

- Allow future navigation & berthing for Maersk "S" Class container vessels
- Northport and Southport to 49 FT (+1 FT pre-maintenance dredging and +1 FT over dredge)
- Dania Cut Off Canal and Turning Basin to 32 FT (+1+1)

## Approach Channel Deepening:

- Widen and deepen approach channel
- Third Reef issues
- ACOE proposed channel alignments
- Future depth; 54 FT (+1+1)



## **Proposed ACOE Harbor Deepening Project**





#### **CONTAINER TERMINALS CAPACITY ANALYSIS**

- Berth Capacity
  - Berth utilization
  - Vessel lifts per call
  - Dock crane productivity
  - Seasonal peaking factor
- Yard Capacity
  - Container Dwell Time
  - Storage peaking factor
  - Decking height
- Gate Capacity

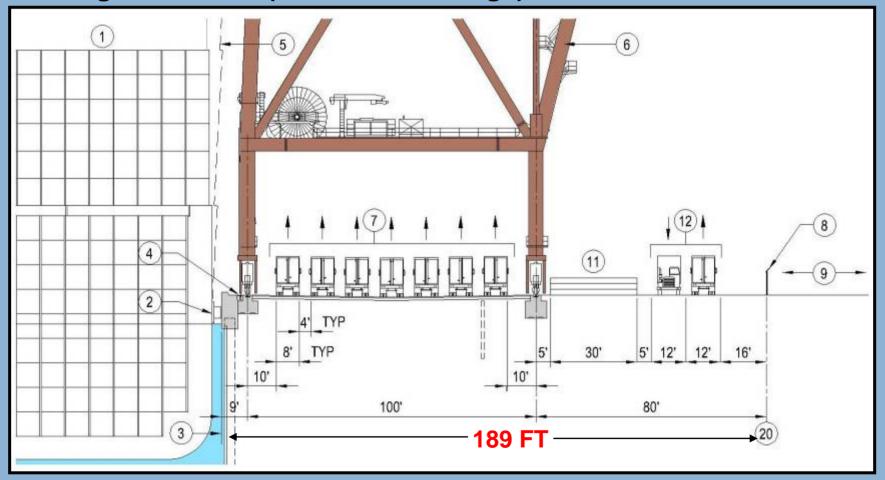


#### PURPOSE OF WHARF OPERATIONS STUDY

- Focused on Southport container wharves
- Identify most efficient operational wharf layout
- Identify measures to improve worker safety
- Identify efficient traffic patterns
- Establish wharf operations footprint/terminal lease boundaries
- Establish future wharf cross-sections & layout
- Establish future ship-to-shore crane requirements



# WHARF OPERATIONS STUDY – Existing Conditions (Pre-Wilma Damage)



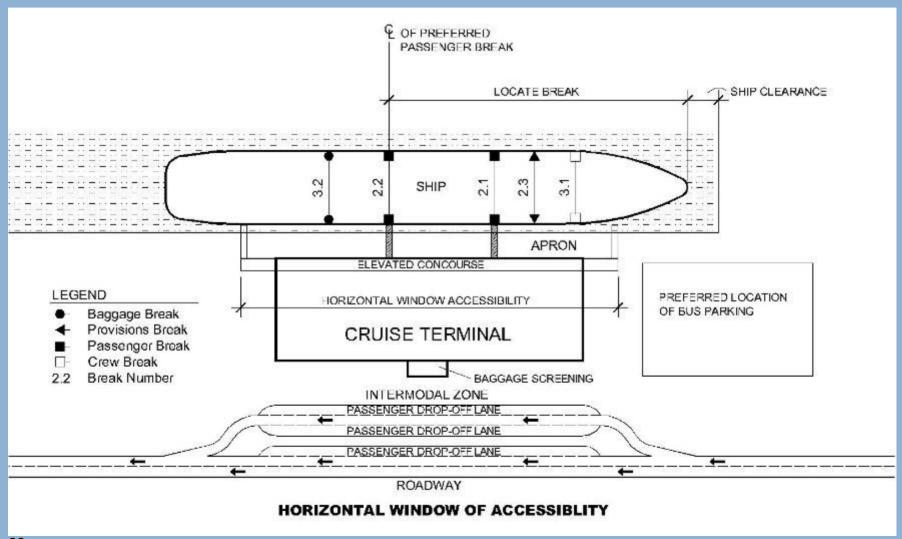


#### NON-CONTAINER TERMINALS CAPACITY ANALYSIS

- Analysis to be done for each terminal
- Berth occupancy study for each berth
- Future terminal capacity analysis
  - Maximum Practical Berth Utilization
  - Cargo loading speed
  - Cargo dwell time

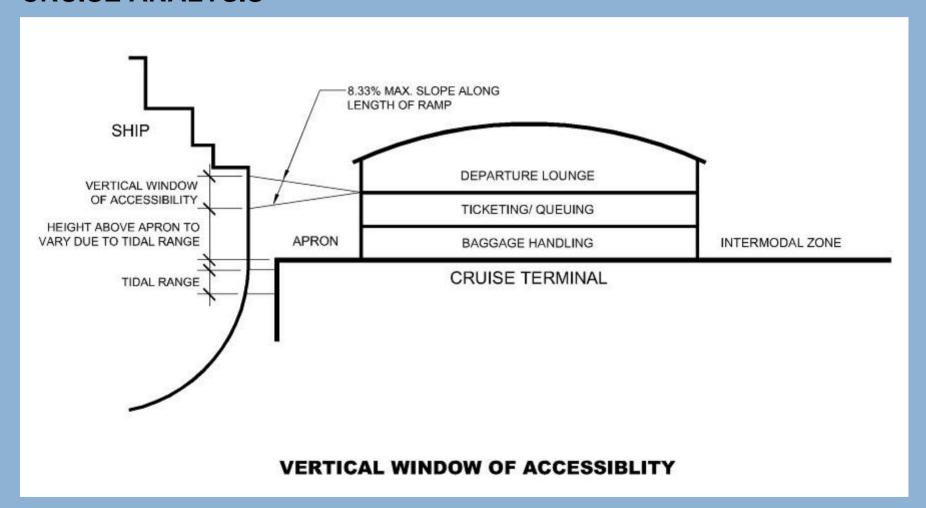


#### **CRUISE ANALYSIS**





#### **CRUISE ANALYSIS**





Cast

#### REALISTIC EVALUATION

Cost	Delielits (KOI)
Capital Cost	Revenue
Operating Cost	Operational Efficiencies
Downtime Cost	Economic Impact

Panafita (POI)

## Constructability

Proven Technology

Maintenance of Operations

#### **Permit-able**

Environmental

## **Funding Availability**

Cash Flow vs. Schedule

#### Risk Level

Market Down-turn

Subsurface/Marine Conditions

**Environmental Mitigation** 



Near-Term CIP Projects	Master Plan Interface
Midport Roadway Expansion	Intermodal Zone Efficiencies
Terminal 4 Expansion	Convention Center "Carve Out"
Terminal 18 Expansion	Expanding Window of Accessibility
Terminal 27 & Pier Extension	Adds a Terminal
Bridge over FPL - Discharge Canal	Dry Marina, FTZ, Southport Expansion
Southport Phased Expansion	Marina,
	FLL South Runway Expansion
McIntosh Road Realignment	Southport Expansion, ICTF
Dynegy Property Development	Remote Parking Potential, Public Works Relocation
FTZ	Relocation/Consolidation, Container Terminal Expansion



# **THANK YOU**

