Dolphin Station Park-and-Ride/Transit Terminal Facility
Miami-Dade County, Florida

Transportation Aesthetics Review Committee (TARC)
January 6, 2016
Project Location

- NW quadrant of NW 12th Street and the HEFT interchange
- 15 acres of vacant land owned by FDOT and additional land owned by MDX for drainage and roadway access
Context Area Map

- Future Dolphin Commuter Station on CSX Rail Line
- Dolphin Station Park-and-Ride Transit Terminal
- Dolphin Mall
- Park-and-Ride Roadway Improvements
- Future Dolphin Truck Travel Center
- SR 836
- NW 12 St
- SR 836 Ramps Project
Project Overview

- **Create a transit hub for different modes of transportation in West Miami Dade County**
  - Support MDT’s SR 836 Express Bus Service
  - Local bus routes serving the cities of Sweetwater and Doral and the Dolphin Mall
  - Support potential future east-west commuter rail service on CSX Line

- **Provide support to access major employment centers of Miami-Dade County**
  - Transit riders from Doral, Sweetwater and West Dade to:
    - Miami International Airport
    - Health District
    - Downtown and Brickell
Agency Partnership

- Miami-Dade County requested MDX to use their project delivery skill set to expedite all phases of the Dolphin Station Park-and-Ride/Transit Terminal Facility
  - Partnership with MDT to support the SR 836 Express Bus Service and other transit services in the area
  - Project is financed by FDOT and Miami-Dade County
Project Phases

PD&E

RFP Development

Design Build

Maintenance & Operation
Facility Elements

- **849 long-term parking spaces**
  - 18 disabled parking spaces
  - 6 baby stroller parking spaces
  - 20 Carpool/Vanpool
  - 18 motorcycle and 20 bicycle spaces (not included in count)

- **“Kiss-and-Ride” drop-off areas**
  - 20 additional short-term parking spaces

- **12 bus bays**

- **10 bus layover bays**

- **Transit hub building**

- **Bus driver’s break lounge building**

- **Landscape, outdoor furniture, fencing, signage and lighting**
SITE DESIGN CONCEPT
Dolphin Station Plan

- Transit Hub Building
- Main Entry
- Driver’s Break Lounge
- Parking
- Bus Shelter
- Future Connector
- Parking

NW 12th Street
Aerial View from Southwest Corner
(Looking Northeast)
Transit Terminal Plan
Transit Terminal Plan

- Transit Hub Building
- Bus Shelter Canopy Structure
- Driver’s Break Lounge Building
Other Vehicle Circulation
Pedestrian Access & Circulation
Parking Area Pedestrian Connections

- **Dedicated pedestrian walkways:**
  - Direct connection to Station Platform
  - Strategically located
  - Tree-lined
  - Pedestrian paving
    - Pervious pavers
  - Heavily landscaped
  - Lighted
Pedestrian Link to Potential Future Commuter Rail

- Accommodate connection to future transit station
- Elevated connection from Park-and-Ride/Transit Terminal Facility
SITE LANDSCAPE DESIGN ELEMENTS
Landscape Plan
# Landscape Palette & Quantities

<table>
<thead>
<tr>
<th>Tree Varieties</th>
<th>224 total trees</th>
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<tbody>
<tr>
<td>Live Oak</td>
<td>Quercus virginianaT</td>
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<tr>
<td>Jamaican Dogwood</td>
<td>Piscidia piscipula</td>
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<tr>
<td>Short Leaf Fig</td>
<td>Ficus citrifolia</td>
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<tr>
<td>Strangler Fig</td>
<td>Ficus aurea</td>
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<tr>
<td>Pitch Apple</td>
<td>Clusia rosa</td>
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<table>
<thead>
<tr>
<th>Palm Varieties</th>
<th>178 total palms</th>
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<tbody>
<tr>
<td>Silver Bismarck Palm</td>
<td>Bismarckia nobilis ‘Silver’</td>
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<tr>
<td>Sylvester Date Palm</td>
<td>Phoenix sylvestris</td>
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<tr>
<td>Cabbage Palm</td>
<td>Sabal palmetto</td>
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<tr>
<td>Florida Thatch Palm</td>
<td>Thrinax radiate</td>
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<tr>
<th>Screen Hedge Varieties</th>
<th>3,054 LF</th>
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<tbody>
<tr>
<td>Green Cocoplum</td>
<td>Chrysobalanus icaco</td>
</tr>
<tr>
<td>Silver Buttonwood</td>
<td>Conocarpus erectus sericeus</td>
</tr>
<tr>
<td>Bay Cedar</td>
<td>Suriana maritima</td>
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<tr>
<th>Medium/Large Shrub</th>
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<tbody>
<tr>
<td>Bromeliad</td>
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<tr>
<td>Bougainvillea sp.</td>
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<tr>
<td>Green Cocoplum</td>
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<tr>
<td>Silver Buttonwood</td>
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<tr>
<td>Necklace Pod</td>
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<tr>
<td>Bay Cedar</td>
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<tr>
<th>Small Shrubs/Groundcover</th>
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<tbody>
<tr>
<td>Golden Greeper</td>
</tr>
<tr>
<td>Beach Dune Sunflower</td>
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<tr>
<td>Spider Lily</td>
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<tr>
<td>Railroad Vine</td>
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Security Perimeter Fencing

Vehicular access

Pedestrian access
Security Perimeter Fencing

VINYL COATED CHAIN LINK FENCE AND TWO 4' WIDE. SWING GATES
Bicycle Facilities: Secured Storage
Bicycle Facilities: Bike Racks
Bus Canopy Benches/Waste Receptacles
Pylon Sign
STRUCTURE DESIGN ELEMENTS
Structure Locations

Transit Hub Building

Bus Shelter Canopy Structure

Driver’s Break Lounge Building
General Considerations on Materials and Finishes

- Design Criteria Package Guidance:
  - Appearance
  - Safety
  - Weather ability
  - Durability
  - Maintainability
  - Heat Control
  - Repair and Replacement Ease
Driver’s Break Lounge Building West Elevation
Driver’s Break Lounge Building South Elevation
Driver’s Break Lounge Floor Plan

BUILDING AREA = 1,287 S.F.
View of Transit Hub Building from Entry
Transit Hub Building South Elevation

Bus Drop-off
Transit Hub Building East Elevation
Transit Hub Building Floor Plan

BUILDING AREA = 1,885 S.F.
View of Bus Shelter Canopy: Eastern Bend Area
Bus Platform Canopy Structure
Dolphin Station Delivery Schedule
Comments - Questions
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