2013

OUTSTANDING BRIDGES OF FLORIDA*

This photograph collection was compiled by Steven Plotkin, P.E.

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Record Holders

Unique Examples

Superior Aesthetics

* All bridges in this collection are on the State Highway System or on public roads

Record Holders

- ***Longest Total Length:*** *Seven Mile Bridge, Florida Keys*
- ***Second Longest Total Length:*** *Sunshine Skyway Bridge, Lower Tampa Bay*
- ***Third Longest Total Length:*** *Bryant Patton Bridge, Saint George Island*
- ***Most Single Bridge Lane Miles:*** *Sunshine Skyway Bridge, Lower Tampa Bay*
- ***Most Dual Bridge Lane Miles:*** *Henry H. Buckman Bridge, South Jacksonville*
- ***Longest Viaduct (Bridge over Land):*** *Lee Roy Selmon Crosstown Expressway, Tampa*
- ***Longest Span:*** *Napoleon Bonaparte Broward Bridge at Dames Point, North Jacksonville*
- ***Second Longest Span:*** *Sunshine Skyway Bridge, Lower Tampa Bay*
- ***Longest Girder/Beam Span:*** *St. Elmo W. Acosta Bridge, Jacksonville*
- ***Longest Cast-In-Place Concrete Segmental Box Girder Span:*** *St. Elmo W. Acosta Bridge, Jacksonville*
- ***Longest Precast Concrete Segmental Box Girder Span and Largest Precast Concrete Segment:*** *Hathaway Bridge, Panama City*
- ***Longest Concrete I Girder Span:*** *US-27 at the Caloosahatchee River, Moore Haven*
- ***Longest Steel Box Girder Span:*** *Regency Bypass Flyover on Arlington Expressway, Jacksonville*
- ***Longest Steel I Girder Span:*** *New River Bridge, Ft. Lauderdale*
- ***Longest Moveable Vertical Lift Span:*** *John T. Alsop, Jr. Bridge (Main Street), Jacksonville*
- ***Longest Movable Bascule Span:*** *2nd Avenue, Miami*

SEVEN MILE BRIDGE (new bridge on left and original remaining bridge on right)

RECORD: *Longest Total Bridge Length (6.79 miles)*

LOCATION: *US-1 from Knights Key to Little Duck Key, Florida Keys*

SUNSHINE SKYWAY BRIDGE

RECORDS: *Second Longest Span (1,200 feet)**,** Second Longest Total Bridge Length (4.14 miles), Most Single Bridge Lane Miles (20.7 miles)*

LOCATION: *I–275 over Lower Tampa Bay from St. Petersburg to Terra Ceia*

SUPERIOR AESTHETICS: *Pier footings are not in view; oval columns, box girders, and a single plane of stay cables*

BRYANT PATTON BRIDGE AT SAINT GEORGE ISLAND

RECORD: *Third Longest Total Bridge Length (4.08 miles)*

LOCATION: *State Road 300 over Apalachicola Bay from East Point to Saint George Island*

HENRY H. BUCKMAN BRIDGE

RECORD: *Most Dual Bridge Lane Miles (24.8 miles)*

LOCATION: *I-295 over the Saint Johns River, South Jacksonville*

LEE ROY SELMON CROSSTOWN EXPRESSWAY

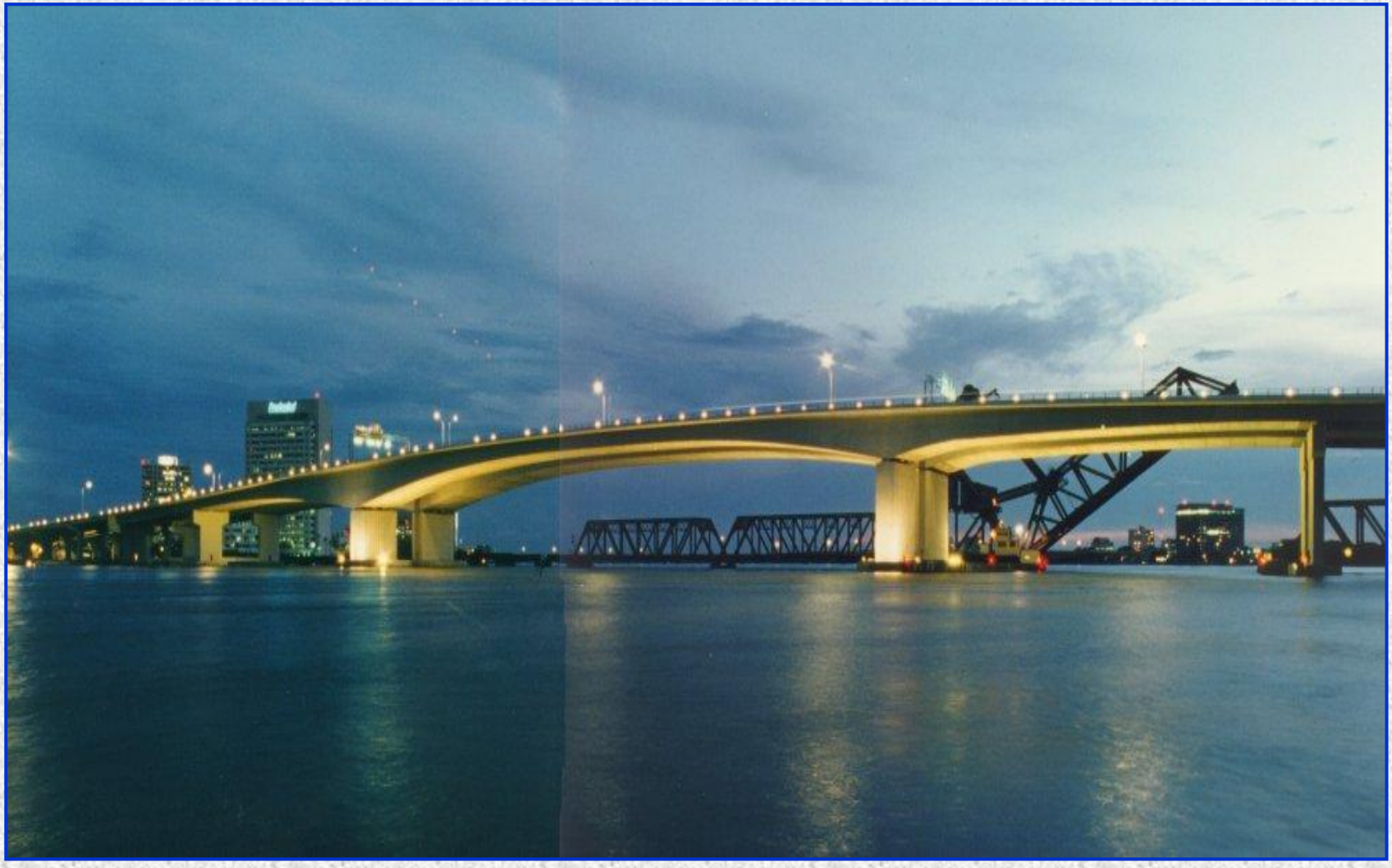
RECORD: *Longest Viaduct (Bridge over Land) (1.86 miles)*

LOCATION: *Tampa*

NAPOLEON BONAPARTE BROWARD BRIDGE AT DAMES POINT

RECORD: *Longest Span (1,300 feet)*

LOCATION: *I-295 East over the Saint Johns River, North Jacksonville*



ST. ELMO W. ACOSTA BRIDGE

RECORDS: *Longest Girder Span (630 feet), Longest Concrete Girder Span, Longest and Deepest (38') Concrete Box Girder Span*

LOCATION: *SR-13 over the Saint Johns River, Downtown Jacksonville*

HATHAWAY BRIDGE

RECORDS: *Longest Precast Concrete Segmental Box Girder Span (330 feet) and Largest Monolithic Precast Concrete Box Segment*

LOCATION: *US-98 over Saint Andrews Bay, Panama City*

MOORE HAVEN BRIDGE

RECORD: *Longest Prestessed Concrete I Girder Span (320 feet)*

LOCATION: *US-27 over the Caloosahatchee River, Moore Haven*

REGENCY BYPASS FLYOVER

RECORD: *Longest Steel Box Girder Span (372 feet)*

LOCATION: *Arlington Expressway (SR-115), Jacksonville*

NEW RIVER BRIDGE

RECORD: *Longest Steel I Girder Span (300 feet)*

LOCATION: *I-95 over New River, Ft. Lauderdale*

JOHN T. ALSOP, JR. BRIDGE (MAIN STREET)

RECORD: *Longest Movable Vertical Lift Span (365 feet)*

LOCATION: *Main Street (US-90) over the Saint Johns River, Downtown Jacksonville*

2nd AVENUE BRIDGE

RECORD: *Longest Movable Bascule Bridge Span (310 feet - Trunnion to Trunnion)*

LOCATION: *S.W. 2nd Avenue over the Miami River, Miami*

Unique Examples

(These are the only major bridges of their type on the State Highway System)

- ***Cantilever Through Truss:*** *John E. Mathews Bridge, Jacksonville*
- ***Movable Bascule Span with Carina Piers:*** *E. Clay Shaw Bridge (17th St. Causeway), Ft. Lauderdale*
- ***Suspended Deck Through Truss:*** *Isaiah D. Hart Bridge, Jacksonville*
- ***Suspension:*** *Hal Adams Bridge, Lafayette/Suwannee County Line*
- ***Movable Swing Span:*** *US-17 over the Saint Mary's River, Florida/Georgia State Line*
- ***Tied Arch:*** *Myrtle Avenue Overpass, Jacksonville*
- ***Through and Deck Truss:*** *Apalachicola River Bridge at Blountstown, Calhoun/Liberty County Line*

JOHN E. MATHEWS BRIDGE

UNIQUE EXAMPLE: *Cantilever Though Truss and Fourth Longest Span (810 feet)*

LOCATION: *SR-115 over the Saint Johns River, Jacksonville*

E. CLAY SHAW BRIDGE

UNIQUE EXAMPLE: *Movable Bascule Span Supported by One-of-a-Kind Carina Piers (V Shape)*

LOCATION: *17th Street Causeway, (SR-1A) over the Intracoastal Waterway, Ft. Lauderdale*

SUPERIOR AESTHETICS: *Architectural features and shapes of bascule piers; custom paint colors; and custom railings and roadway lights*

ISAIAH D. HART BRIDGE

UNIQUE EXAMPLE: *Though Truss with Suspended Deck, Third Longest Span (1,088 feet)*

LOCATION: *Alternate US-1 over the Saint Johns River, Jacksonville*

HAL ADAMS BRIDGE

UNIQUE EXAMPLE: *Suspension Bridge, Center Span Length 450 feet*

LOCATION: *SR-51 over the Suwannee River, Lafayette/Suwannee County Line*

SAINT MARY'S RIVER BRIDGE

UNIQUE EXAMPLE: *Movable Swing Span*

LOCATION: *SR-17 over the Saint Mary's River, Florida/Georgia State Line*

MYRTLE AVENUE OVERPASS

UNIQUE EXAMPLE: *Tied Arch*

LOCATION: *I-95 over Myrtle Avenue, Jacksonville*

APALACHICOLA RIVER BRIDGE AT BLOUNTSTOWN

UNIQUE EXAMPLE: *Oldest Through and Deck Truss (In Service 1938) - Main Span 280 feet*

LOCATION: *SR-20 over the Apalachicola River, Calhoun/Liberty County Line near Blountstown*

Superior Aesthetics

Boynton Beach Bascule Bridge: *East Ocean Avenue (SR-804) over the Intracoastal Waterway, Boynton Beach*

Bridge of Lions: *State Road A1A over Matanzas River, Saint Augustine*

Broadway Bridge: *East International Speedway Blvd. (US-92) over Halifax River, Daytona Beach*

Clearwater Memorial Causeway Bridge: *State Road 60 over the Intracoastal Waterway, Clearwater*

E. Clay Shaw Bridge (See photo under Unique Examples): *17th Street Causeway over the Intracoastal Waterway, Ft. Lauderdale*

Hallandale Beach Bascule Bridge: *East Hallandale Beach Blvd. (SR-858) over the Intracoastal Waterway, Hallandale Beach*

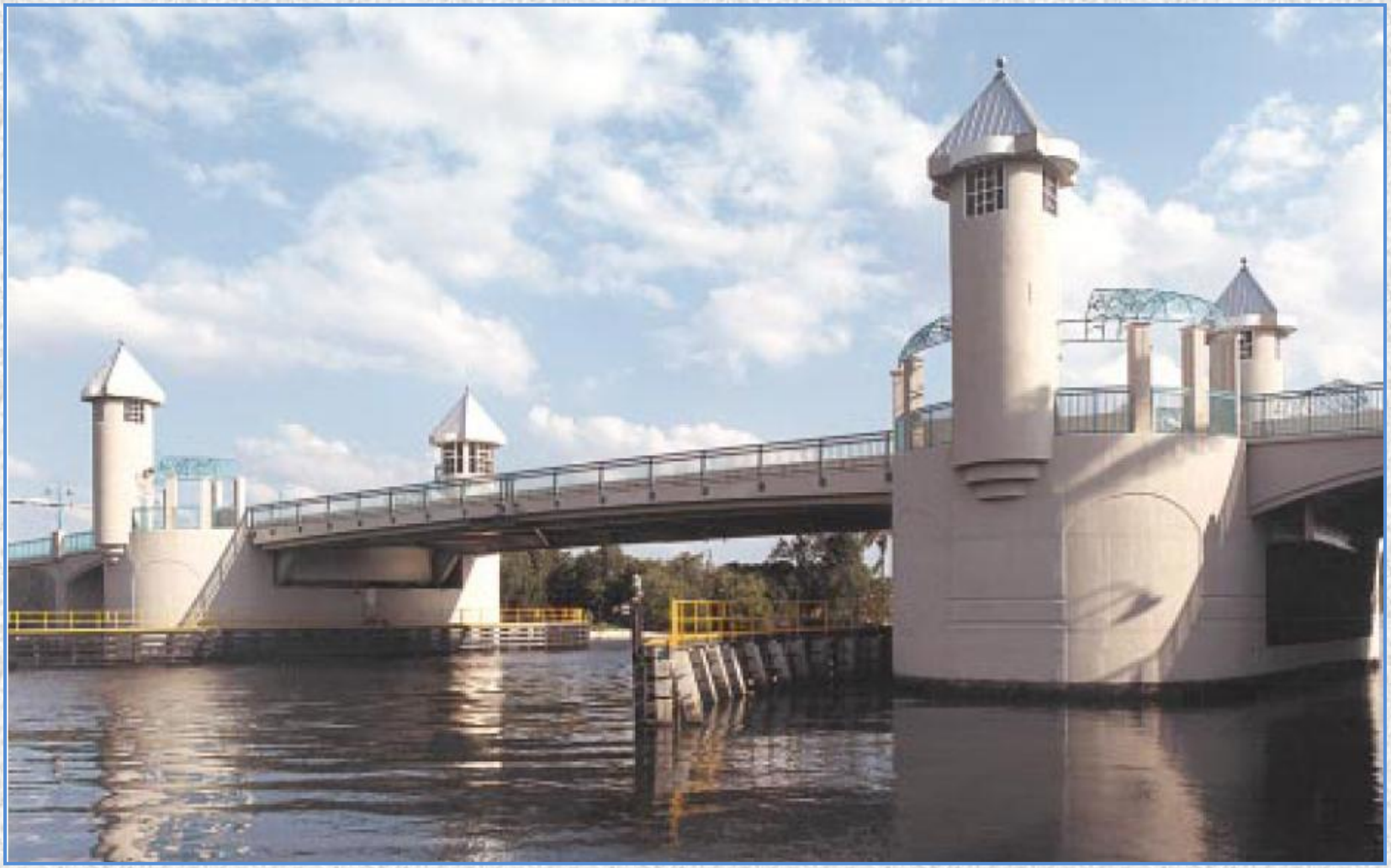
John Ringling Causeway Bridge: *John Ringling Causeway (SR-789) over the Intracoastal Waterway, Sarasota*

John's Pass Bascule Bridge: *Gulf Blvd. (SR-966) over John's Pass, Treasure Island*

N.W. 5th Street Bascule Bridge: *N. W. 5th Street over the Miami River, Miami*

Royal Park Bascule Bridge: *State Road 704 over the Intracoastal Waterway, West Palm Beach*

Sunshine Skyway Bridge (See Photo under Record Holders): *I –275 over Lower Tampa Bay from St. Petersburg to Terra Ceia*



BOYNTON BEACH BASCULE BRIDGE

STRUCTURE TYPE & LOCATION*: Movable Bascule Bridge, East Ocean Ave. (SR-804) over the Intracoastal Waterway, Boynton Beach*

SUPERIOR AESTHETICS: *Architectural features on bascule piers, custom paint colors, custom pedestrian railings and roadway lighting*

BRIDGE OF LIONS

STRUCTURE TYPE & LOCATION*: Movable Bascule Bridge, State Road A1A over Matanzas River, Saint Augustine*

SUPERIOR AESTHETICS: *Historical architectural features on bascule piers and roadway lighting, custom paint colors, special pedestrian railings and arched fascia beams - a pair of Medici lions made of marble are located at the bridge's West entrance*

BROADWAY BRIDGE

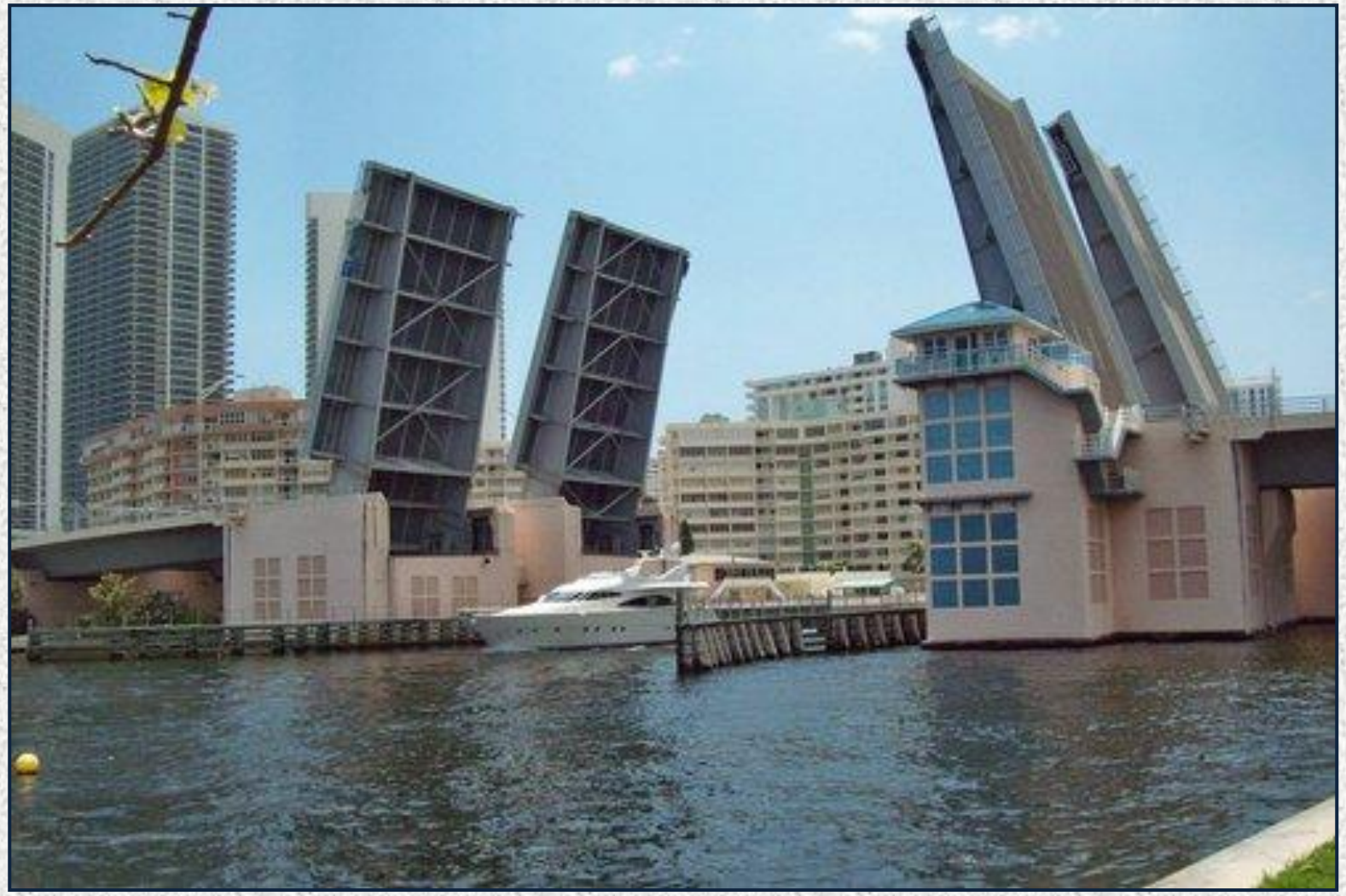
STRUCTURE TYPE & LOCATION: *Precast Concrete Segmental Box Girder, East International Speedway Blvd. (US-92) over the Halifax River, Daytona Beach*

SUPERIOR AESTHETICS: *Beam spans lengthen as superstructure elevation increases and beam depth is variable; pier footings are not in view; oval columns with decorative tile bands; non-variable width of box girder bottom slab; aesthetic roadway lighting and pedestrian handrails; decorative tile panels on the pedestrian handrails at each pier location; and custom paint colors*

CLEARWATER MEMORIAL CAUSEWAY BRIDGE

STRUCTURE TYPE & LOCATION*: Cast-in-Place Concrete Segmental Box Girder, State Road 60 over Intracoastal Waterway, Clearwater*

SUPERIOR AESTHETICS: *Aesthetic column shapes and sizes; long beam spans with variable depth; and custom paint colors, pedestrian railings and highway lighting*



HALLANDALE BEACH BASCULE BRIDGE

STRUCTURE TYPE & LOCATION*: Movable Bascule Span and Cast-in-Place Concrete Post-Tensioned Box Girder Approaches, East Hallandale Beach Blvd. (SR-858) over the Intracoastal Waterway, Hallandale Beach*

SUPERIOR AESTHETICS: *Architectural features on bascule piers and custom paint colors*

JOHN RINGLING CAUSEWAY BRIDGE

STRUCTURE TYPE & LOCATION: *Precast Concrete Segmental Box Girder, John Ringling Causeway (SR-789) over the Intracoastal Waterway, Sarasota*

SUPERIOR AESTHETICS: *Aesthetic pier shapes with hidden footings; long, slender variable depth beam spans; a single instead of a dual box girder cross section; and custom paint colors, highway lighting and pedestrian railings*

JOHN'S PASS BASCULE BRIDGE

STRUCTURE TYPE & LOCATION: *Movable Bascule Bridge, Gulf Blvd. (SR-966) over John's Pass, Treasure Island*

SUPERIOR AESTHETICS: *Architectural features on bascule piers, custom paint colors, custom pedestrian railings and decorative roadway lighting*

N. W. 5TH STREET BRIDGE

***STRUCTURE TYPE & LOCATION**: Movable Bascule Bridge, N. W. 5th St. (US-441) over the Miami River, Miami*

***SUPERIOR AESTHETICS:** Architectural features on bascule piers, custom paint colors, custom pedestrian railings and decorative roadway lighting*

ROYAL PARK BASCULE BRIDGE

***STRUCTURE TYPE & LOCATION**: Movable Bascule Span and Cast-In-Place Concrete Segmental Box Girder Approach Spans, State Road 704 over the Intracoastal Waterway, West Palm Beach*

***SUPERIOR AESTHETICS:** Architectural features on bascule piers, fixed piers and girders; custom paint colors; custom pedestrian railings; decorative roadway lighting; and pedestrian observation platforms*