

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM  
Inspection/CIDR/Bridge Profile Report  
Inspection**

Structure ID: 884093

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 8/19/2019 TTTR

BY: TranSystems Corporation Consultants	STRUCTURE NAME: Not recorded
OWNER: 2 County Hwy Agency	YEAR BUILT: 2011
MAINTAINED BY: 2 County Hwy Agency	SECTION NO.: 88 000 005
STRUCTURE TYPE: 5 Prestressed Concrete - 01 Slab	MP: 0.011
LOCATION: At CR-615 (66th Ave.)	ROUTE: 00000
SERV. TYPE ON: 5 Highway-pedestrian	FACILITY CARRIED: 57th Street
SERV. TYPE UNDER: 5 Waterway	FEATURE INTERSECTED: Lateral A Canal

 FUNCTIONALLY OBSOLETE STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 8/19/2019 UNDERWATER: N/A

SUFFICIENCY RATING: 97.8  
HEALTH INDEX: 95.18

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- THIS BRIDGE CONTAINS FRACTURE CRITICAL COMPONENTS
- THIS BRIDGE IS SCOUR CRITICAL
- THIS REPORT IDENTIFIES DEFICIENCIES WHICH REQUIRE PROMPT CORRECTIVE ACTION
- FUNCTIONALLY OBSOLETE  STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI  
 DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 8/19/2019 UNDERWATER: N/A

**OVERALL NBI RATINGS:**

DECK: 8 Very Good	CHANNEL: 8 Protected
SUPERSTRUCTURE: 8 Very Good	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 8 Very Good	SUFF. RATING: 97.8
PERF. RATING: Excellent	HEALTH INDEX: 95.18

**FIELD PERSONNEL / TITLE / NUMBER:**

**INITIALS**

Rivera, Michael - Bridge Inspector (CBI #00547) (lead)	_____
Monersil, Jonathan - Assistant Bridge Inspector	_____

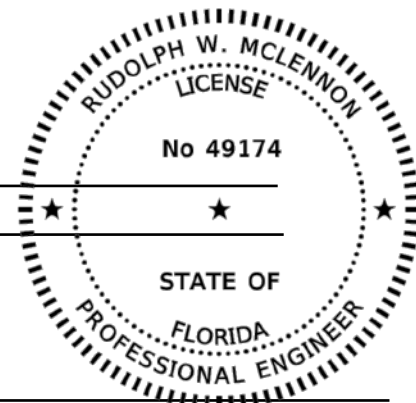
**REVIEWING BRIDGE INSPECTION SUPERVISOR:**

Sojo, Fernando - CBI (#00214) \_\_\_\_\_

**CONFIRMING REGISTERED PROFESSIONAL ENGINEER:**

McLennon, R. Wayne - PE #49174 Transystems Corporation Consultants  
 3230 West Commercial Blvd.  
 Suite 450 (Auth. No. 00007503)  
 Ft. Lauderdale Florida 33309

SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_



*This report has been digitally signed and sealed by Rudolph W. McLennon, PE on the date adjacent to the seal as required by Rule 61G15-23.004, F.A.C.. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.*

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## All Elements

## DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8099 / 3	PS Conc Slab (Sonovoid)	2986	100	0	.	0	.	0	.	2986 (SF)
Structure Unit 1	510 / 3	Wearing Surfaces	1721	97.29	0	.	48	2.71	0	.	1769 sq.ft
Structure Unit 1	3220 / 3	Crack (Wearing Surface)	0	.	0	.	48	100	0	.	48 sq.ft

## Element Inspection Notes:

8099/3 Note: The top of the slab units are not visible due to an asphalt overlay. The top of the slab units outside of the barrier walls (Slab Units 1-1, 1-2, 1-3, 1-4 and 1-17) are visible.

No deficiencies were noted.

510/3 CS3:  
1) The asphalt overlay over End Bent 1 exhibits a transverse crack 48ft. L x 1/4in. W which is filled with dirt (total 48sf.). NO CHANGE. See Photo 8099-S01.

3220/3 Refer to EIN 1.

## DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	301 / 3	Pourable Joint Seal	20	100	0	.	0	.	0	.	20 ft

## Element Inspection Notes:

301/3 Note: This element represents only the portions of the joints that are fully visible (left (north) sidewalk over both end bents).

No deficiencies were noted.

## MISCELLANEOUS : Channel

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8290 / 3	Channel	1	100	0	.	0	.	0	.	1 (EA)

## Element Inspection Notes:

8290/3 CS1:  
1) There is floating aquatic vegetation on both sides of the structure which does not affect the flow. NO CHANGE.

## MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	321 / 3	Re Conc Approach Slab	3228	100	0	.	0	.	0	.	3228 sq.ft
Structure Unit 1	510 / 3	Wearing Surfaces	1912	100	0	.	0	.	0	.	1912 sq.ft

## Element Inspection Notes:

321/3 Note: The approach slabs are not visible due to an asphalt overlay.

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## Secondary:

1) The northeast approach sidewalk has an 18ft. x 1/8in. longitudinal crack. NO CHANGE.

2) The right (south) approach barrier exhibits tire marks and small scrape up to 3ft. L x 2ft. W at End Bent 1. NO CHANGE.

3) The southwest and northwest approach guardrails have several broken/missing reflectors. NO CHANGE.

4) The southwest approach barrier exhibits a spall 30in. H x 8in. W x 3in. D with no exposed steel at the west end. NEW. See Photo 321-S01.

510/3

## CS1:

5) The west approach slab asphalt exhibits longitudinal cracks up to 10ft. L x 1/32in. W in the westbound lanes (Total 30sf) NEW. See Photo 321-S02.

**MISCELLANEOUS : Other Elements**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8475 / 3	R/Conc Walls	222	98.23	4	1.77	0	.	0	.	226 ft
Structure Unit 1	1120 / 3	Efflorescence/Rust Staining	0	.	4	100	0	.	0	.	4 ft

**Element Inspection Notes:**

8475/3 Note: This element represents the end bent retaining walls and the wingwalls at the four corners of the structure.

## CS2:

1) The northwest and northeast retaining walls exhibits vertical cracks up to 3ft. H x 1/32in. W with efflorescence at random locations. (Total 4ft). NEW. See Photo 8475-S01.

## Secondary:

2) The east end of the northeast retaining wall exhibits an area of erosion 30in. L x 20in. W x 14in. D with the asphalt at this location that has settled. NEW. See Photo 8475-S02.

1120/3

Refer to EIN 1.

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	215 / 3	Re Conc Abutment	171	100	0	.	0	.	0	.	171 ft

**Element Inspection Notes:**

215/3

## CS1:

1) Both end bents cap have random vertical cracks 19in. H x 1/64in. W (total 10ft.). NO CHANGE.

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	226 / 3	Pre Conc Pile	12	54.55	0	.	10	45.45	0	.	22 (EA)
Structure Unit 1	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	10	100	0	.	10 (EA)

**Element Inspection Notes:**

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- 226/3 CS3:  
1) Pile 1-2, northwest and southeast corners within 2.5ft. of the cap, has two spalls up to 19in. H x 4in. W x 1in D (total 1ea.). NO CHANGE.  
2) Pile 1-3, northwest corner 3ft. below the cap has a 9in. H x 9in. W x 3/4in. D spall (total 1ea.). NO CHANGE.  
3) Piles 1-4, 1-5, 1-6, 1-8, 1-9, 1-10 and 1-11 have edge spalls up to 6in. H x 4in. W x 3/4in. D (total 7ea.). NO CHANGE.  
4) Pile 1-7, southeast corner 1ft. below the cap has a 3ft. H x 4in. W x 3/4in. D spall (total 1ea.). NO CHANGE. See Photo 226-S01.

1080/3 Refer to EIN 1 thru 4.

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8396 / 3	Other Abutment Slope Protection	3040	100	0	.	0	.	0	.	3040 (SF)

**Element Inspection Notes:**

8396/3 Note: This element represents the rock rubble in front of both end bents and at the four corners of the structure.

No deficiencies were noted.

**SUPERSTRUCTURE : Superstructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	333 / 3	Other Bridge Railing	61	82.43	10	13.51	3	4.05	0	.	74 ft
Structure Unit 1	1000 / 3	Corrosion	0	.	10	100	0	.	0	.	10 ft
Structure Unit 1	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	3	100	0	.	3 ft

**Element Inspection Notes:**

333/3 Note: This element represents the concrete barriers with aluminum railing.

CS3:

1) The south face of the right barrier adjacent to End Bent 1 exhibits a spall 36in. L x 12in. H x 4in. D with exposed steel and anchor rods for the handrail, also at this location 6' of the handrail is missing/broken (total 3ft.). NEW. See Photos 331-S01 and 331-S02.

CS2:

2) The left (north) barrier anchor plates and anchors have areas corrosion (total 10ft.). NO CHANGE.

CS1:

3) The right (south) barrier has an area of tire marks and small scrapes 5ft. L x 2ft. H at End Bent 1. NO CHANGE.

4) The barriers exhibits vertical cracks up to 3ft. H x 1/32in. W. in random locations (Total 15ft.) NEW. See Photo 331-S03.

1000/3 Refer to EIN 2.

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1080/3 Refer to EIN 1.

**Total Number of Elements\*: 9**  
\*excluding defects/protective systems

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**Inspector Recommendations**

**UNIT: Structure**    **DECKS****Unit 1****ELEMENT/ENV: 8099 / 3 PS Conc Slab (Sonovoid)****ELEM CATEGORY: Decks/Slabs**CONDITION  
STATE

PRIORITY

1            MMS Quantity: 1 sf    Element Estimated Quantity: 48 (SF)

3

WORK ORDER RECOMMENDATION:

Clean and seal transverse crack over End Bent 1.

**UNIT: Structure**    **MISCELLANEOUS****Unit 1****ELEMENT/ENV: 321 / 3 Re Conc Approach Slab****ELEM CATEGORY: Other Elements**CONDITION  
STATE

PRIORITY

1            MMS Quantity: 1 sf    Element Estimated Quantity: 3 sq.ft

3

WORK ORDER RECOMMENDATION:

Patch spall in the west end of the southwest approach barrier.

**ELEMENT/ENV: 8475 / 3 R/Conc Walls****ELEM CATEGORY: Other Elements**CONDITION  
STATE

PRIORITY

1 , 2            MMS Quantity: 8 mh    Element Estimated Quantity: 3 ft

3

WORK ORDER RECOMMENDATION:

Backfill and stabilize erosion at the northeast retaining wall.

**UNIT: Structure**    **SUPERSTRUCTURE****Unit 1****ELEMENT/ENV: 333 / 3 Other Bridge Railing****ELEM CATEGORY: Superstructure**CONDITION  
STATE

PRIORITY

1 , 2 , 3            MMS Quantity: 3 lf    Element Estimated Quantity: 3 ft

3

WORK ORDER RECOMMENDATION:

Patch spall in south face of right barrier and replace missing hand railing at this location near End Bent 1.

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**Structure Notes**

BRIDGE OWNER: INDIAN RIVER COUNTY

Bridge inventoried from west to east.

The inventory photos were last updated on 8/30/2017.

This bridge replaces Bridge No. 884037.

Asphalt thickness = 2-1/2in.

**UTILITIES:**

There is a 16in. wastewater pipe secured to three concrete cradles along the right (south) side of the structure.

There are two 4in. PVC pipes on the right (south) side of the structure.

**INSPECTION NOTES:            TTTR                            8/19/2019**

Sufficiency Rating Calculation Accepted by KNTCCRP at 09/27/2019 11:37:00 AM

**TRAFFIC RESTRICTIONS:**

This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 5/17/11. Our inspection did not reveal significant deterioration to suggest the need for a new load rating analysis.

**LOAD CAPACITY EVALUATION:**

Since the current load rating dated 5/17/11, there is no indication that deterioration, geometric changes or additional dead load have occurred that would warrant a new load rating analysis. This only applies to this inspection dated 8/19/2019 per R. Wayne McLennon, P.E..



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NORTH ELEVATION

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**WEST APPROACH LOOKING EAST**

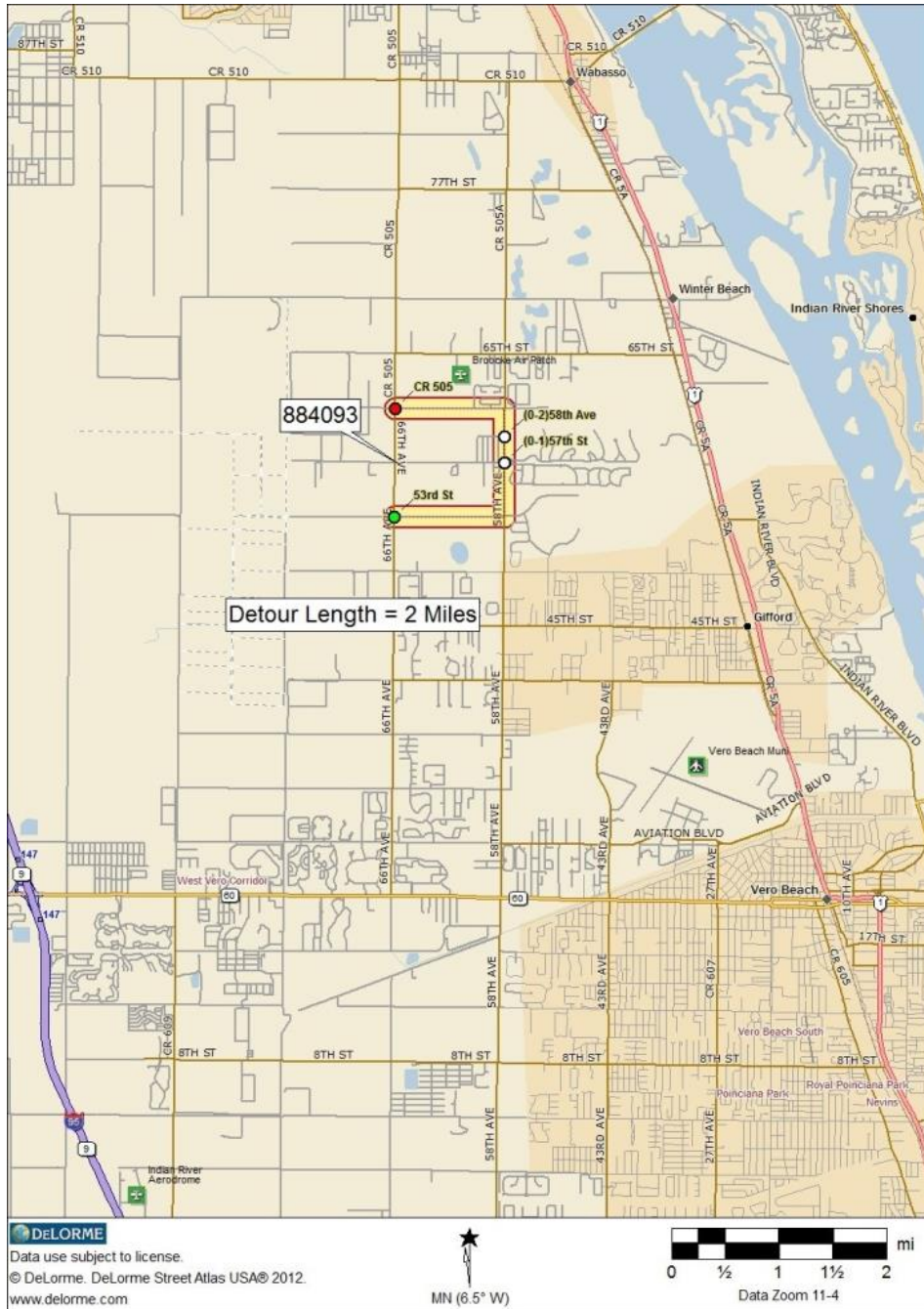
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# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM Inspection/CIDR/Bridge Profile Report Inspection

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### LOCATION MAP

57th Street over Lateral A Canal - At CR-615 (66th Ave.)

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Form Revision: 27-Jun-07

BRIDGE LOAD RATING SUMMARY FORM

BRIDGE DATA  
Bridge Number: 884093  
Struct. Type Main [Item 43] @: 501  
Struct. Type Appr. [Item 44] @: na  
POSTING DATA  
Current Restrictions  
Item 41 @: Open, No Restrictions  
Is Posting Needed: No  
Proposed Restrictions  
Item 70 @: At/Above Legal Loads  
PROGRAM USED  
Conspan

BASIS FOR ANALYSIS  
Design Drawings: Yes  
As-Built Drawings: No  
Shop Drawings: No  
Field Measurements: No  
Coupon Testing: No  
Other: No  
LIVE LOAD DISTRIBUTION  
AASHTO LFD: 0.4400  
AASHTO LRFD:  
SALOD:  
BRUFEM:  
Finite Element on Grillage:

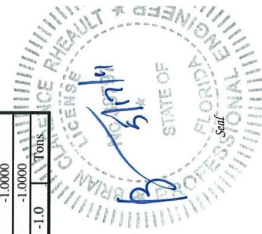
LONGITUDINAL GOVERNING COMPONENT  
Main/Approach Span: Main Slab  
Description: Prestressed Conc.  
Material: Simple  
Span Length: 35'6"  
Flexure, Shear or Principal Tension: Flexure  
TRANSVERSE GOVERNING COMPONENT  
Main/Approach Span:  
Description:  
Material:  
Deck, Box or Substructure:  
Flexure, Shear or Principal Tension:

OTHER SPAN OF INTEREST  
(if Applicable)  
OTHER SPAN OF INTEREST  
(if Applicable)

PONTIS DATABASE INPUT  
PONTIS APPRAISAL TAB  
Description (NBIS Code) Value  
Design Load (31) @ HL93  
HEB, M9 (M10), M13.5 (M15), M18 (M20), M24 (M28), M30 (M36) Mod. Position, Balanced, MS23.4 (MS25), Unknown (NB), Unknown (P), Not Applicable (P)  
Operating Type (63) @ Load & Resistance Factor  
Unknown, Load Factor, Allowable Stress, Load & Resistance Factor, Load Test, No Rating, Unknown (NB), Not Applicable (P)  
Operating Rating (64) @ ( ) 53.3 Tons  
Inventory Type (65) @ Load & Resistance Factor  
Unknown, Load Factor, Allowable Stress, Load & Resistance Factor, Load Test, No Rating, Unknown (NB), Not Applicable (P)  
Inventory Rating (66) @ ( ) 40.0 Tons  
PONTIS LOAD RATING 1 TAB  
Description (NBIS Code) Value  
HS 20/HL 93 Governing Span Length 35.50 FT  
Load Rating Origin Unknown, Design Plans, As-Built Plans, Field Measurements  
Design Plans  
Load Rating Date 10-Jul-07  
Method Calculation AASHTO Formula  
Load Distribution Factor 0.4400  
Impact Factor 0.33  
Design Method LRFD  
Design Measure English  
Unknown, Working Stress, Load Factor, LRFD, Others  
Unknown, English, Systems International  
PONTIS LOAD RATING 2 TAB  
Description (NBIS Code) Value  
FL 120 Longitudinal Governing Span Rating 76.8 Tons  
SEGMENTAL  
FL 120 Transverse Rating (Segmental)\*\* -1.0 Tons  
Single Axle Transverse Rating\*\* -1.0 Tons  
Tandem Axle Transverse Rating\*\* -1.0 Tons  
Wing Span\*\* -1.00 FT  
Web-to-Web Span\*\* -1.00 FT  
MAXIMUM SPAN  
HS 20 Operating Rating Maximum Span\*\* -1.0 Tons  
FL 120 Longitudinal Maximum Span# -1.0 Tons  
FLOOR BEAM  
Floor Beam Present No = Stop  
Yes = Continue  
Governing Floor Beam Span\*\* -1.00 FT  
Governing Floor Beam Spacing\*\* -1.00 FT  
Floor Beam HS 20 Rating\*\* -1.0 Tons  
Floor Beam SU 1.4 Rating\*\* -1.0 Tons  
Floor Beam Inventory Rating Factor\*\*# -1.0000  
Floor Beam Operating Rating Factor\*\*# -1.0000  
Floor Beam FL 120 Rating# -1.0 Tons

TRUCK OPERATING RATINGS  
SU 2\*\* Enter Contr. Mem. ( ) -1.0 Tons  
SU 3\*\* Enter Contr. Mem. ( ) -1.0 Tons  
SU 4\*\* Enter Contr. Mem. (M) 53.9 Tons  
C 3\*\* Enter Contr. Mem. ( ) -1.0 Tons  
C 4\*\* Enter Contr. Mem. ( ) -1.0 Tons  
C 5\*\* Enter Contr. Mem. (M) 78.8 Tons  
ST 5\*\* Enter Contr. Mem. (M) 82.8 Tons  
Recommended SU Posting## 99  
Recommended C Posting## 99  
Recommended ST Posting## 99  
Comments by Engineer  
Responsible Engineer: Brian C. Rheault  
FL P.E. #: 38797  
Date: 05-Apr-11  
Address: 1402 Royal Palm Beach Blvd.  
Building 200  
Royal Palm Beach, FL 33411

COMPUTATIONS  
Performed By: TAD Date: 10-Jul-07  
Checked By: BCR Date: 10-Jul-07  
Reviewed By: BCR Date: 05-Apr-11



LOAD RATING ANALYSIS SUMMARY

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**Photo 8099-S01 (Unit 0: PS Conc Slab (Sonovoid))**

Transverse crack in the asphalt overlay over End Bent 1.

REPAIR RECOMMENDATION:

Clean and seal transverse crack over End Bent 1.

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**Photo 321-S01 (Unit 0: Re Conc Approach Slab)**

Spall in the west end of the southwest approach barrier.

**REPAIR RECOMMENDATION:**

Patch spall in the west end of the southwest approach barrier.

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**Photo 321-S02 (Unit 0: Re Conc Approach Slab)**

Longitudinal crack in the asphalt overlay at the west approach slab.

REPAIR RECOMMENDATION:  
None.

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**Photo 8475-S01 (Unit 0: R/Conc Walls)**

Vertical crack in the northeast retaining wall.

REPAIR RECOMMENDATION:  
None.



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Photo 8475-S02 (Unit 0: R/Conc Walls)

Erosion at the northeast retaining wall.

REPAIR RECOMMENDATION:

Backfill and stabilize erosion at the northeast retaining wall.

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Photo 226-S01 (Unit 0: Pre Conc Pile)

Spall in Pile 1-7 southeast corner.

REPAIR RECOMMENDATION:  
None.

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**Photo 333-S01 (Unit 0: Other Bridge Railing)**

missing/broken hand railing section of the right barrier at End Bent 1.

**REPAIR RECOMMENDATION:**

Patch spall in south face of right barrier and replace missing hand railing at this location near End Bent 1.

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**Photo 333-S02 (Unit 0: Other Bridge Railing)**

Spall in the right barrier outside face over End Bent 1.

**REPAIR RECOMMENDATION:**

Patch spall in south face of right barrier and replace missing hand railing at this location near End Bent 1.

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DISTRICT: D4 - Ft. Lauderdale

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**Photo 333-S03 (Unit 0: Other Bridge Railing)**

Vertical crack in the right barrier, near End Bent 1.

REPAIR RECOMMENDATION:  
None.

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM  
Inspection/CIDR/Bridge Profile Report  
Inspection**

Structure ID: 884093

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 8/19/2019 TTTR



**NORTH CHANNEL**

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM  
Inspection/CIDR/Bridge Profile Report  
Inspection**

Structure ID: 884093

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 8/19/2019 TTR



SOUTH CHANNEL

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM**

**Inspection/CIDR/Bridge Profile Report**

REPORT ID: INSP005

Structure ID: 884093

CIDR

DATE PRINTED: 9/30/2019

<b>Description</b>
--------------------

**Structure Unit Identification**

Bridge/Unit Key: 884093 1  
 Structure Name:  
 Description: MAIN SPAN 1  
 Type: M - Main

**Roadway Identification**

NBI Structure No (8): 884093  
 Position/Prefix (5): 1 - Route On Structure  
 Kind Hwy (Rte Prefix): 4 County Hwy  
 Design Level of Service: 1 Mainline  
 Route Number/Suffix: 00000 / 0 N/A (NBI)  
 Feature Intersect (6): Lateral A Canal  
 Critical Facility: Not Defense-crit  
 Facility Carried (7): 57th Street  
 Mile Point (11): 0.011  
 Latitude (16): 027d41'50.3"      Long (17): 080d27'45.0"

**Roadway Traffic and Accidents**

Lanes (28): 3      Medians: 0      Speed: 40 mph  
 ADT Class: 3 ADT Class 3  
 Recent ADT (29): 1000      Year (30): 2019  
 Future ADT (114): 2020      Year (115): 2041  
 Truck % ADT (109): 2  
 Detour Length (19): 2.0 mi  
 Detour Speed: 40 mph  
 Accident Count: -1      Rate:

**Roadway Classification**

Nat. Hwy Sys (104): 0 Not on NHS  
 National base Net (12): 0 - Not on Base Network  
 LRS Inventory Rte (13a): 88 000 005      Sub Rte (13b): 00  
 Functional Class (26): 09 Rural Local  
 Federal Aid System: OFF  
 Defense Hwy (100): 0 Not a STRAHNET hwy  
 Direction of Traffic (102): 2 2-way traffic  
 Emergency:

**Roadway Clearances**

Vertical (10): 99.99 ft      Appr. Road (32): 44.5 ft  
 Horiz. (47): 55.8 ft      Roadway (51): 44.5 ft  
 Truck Network (110): 0 Not part of natl netwo  
 Toll Facility (20): 3 On free road  
 Fed. Lands Hwy (105): 0 N/A (NBI)  
 School Bus Route:   
 Transit Route:

**NBI Project Data**

Proposed Work (075A): Unknown (P)  
 Work To Be Done By (075B): Unknown (NBI)  
 Improvement Length (076): -1 ft

Improvement Cost (094): -\$ 1.00  
 Roadway Improvement Cost (095): -\$ 1.00  
 Total Cost (096): -\$ 1.00  
 Year of Estimate (097): -1

**NBI Rating**

Channel (61): 8 Protected  
 Deck (58): 8 Very Good  
 Superstructure (59): 8 Very Good  
 Substructure (60): 8 Very Good

Culvert (62): N N/A (NBI)  
 Waterway (71): 9 Above Desirable  
 Unrepaired Spalls: -1 sq.ft.  
 Review Required:



# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

## Inspection/CIDR/Bridge Profile Report CIDR

REPORT ID: INSP005

Structure ID: 884093

DATE PRINTED: 9/30/2019

**Structure Identification**

Admin Area: Indian River County  
 District (2): D4 - Ft. Lauderdale  
 County (3): (88)Indian River  
 Place Code (4): No city involved  
 Location (9): At CR-615 (66th Ave.)  
 Border Br St/Reg (98): Not Applicable (P) Share: 0 %  
 Border Struct No (99):  
 FIPS State/Region (1): 12 Florida                      Region 4-Atlanta  
 NBIS Bridge Len (112): Y - Meets NBI Length  
 Parallel Structure (101): No || bridge exists  
 Temp. Structure (103): Not Applicable (P)  
 Maint. Resp. (21): 2 County Hwy Agency  
 Owner (22): 2 County Hwy Agency  
 Historic Signif. (37): 5 Not eligible for NRHP

**Geometrics**

Spans in Main Unit (45): 1  
 Approach Spans (46): 0  
 Length of Max Span (48): 37 ft  
 Structure Length (49): 37 ft  
 Total Length: 77 ft  
 Deck Area: 2986 sqft  
 Structure Flared (35): 0 No flare

**Age and Service**

Year Built (27): 2011  
 Year Reconstructed (106): 0  
 Type of Service On (42a): 5 Highway-pedestrian  
 Under (42b): 5 Waterway  
 Fracture Critical Details: Not Applicable

**Structure Type and Material**

Curb/Sidewalk (50): Left: 8 ft                      Right: 0 ft  
 Bridge Median (33): 0 No median  
 Main Span Material (43A): 5 Prestressed Concrete  
 Appr Span Material (44A): Not Applicable (P)  
 Main Span Design (43B): 01 Slab  
 Appr Span Design (44B): Not Applicable (P)

**Deck Type and Material**

Deck Width (52): 80.7 ft  
 Skew (34): 0 deg  
 Deck Type (107): 2 Concrete Precast Panel  
 Surface (108): 6 Bituminous  
 Membrane: 0 None  
 Deck Protection: None

**Appraisal****Structure Appraisal**

Open/Posted/Closed (41): A Open, no restriction  
 Deck Geometry (68): 5 Above Tolerable  
 Underclearances (69): N Not applicable (NBI)  
 Approach Alignment (72): 8-No Speed Red thru Curv  
 Bridge Railings (36a): 1 Meets Standards  
 Transitions (36b): 0 Substandard  
 Approach Guardrail (36c): 0 Substandard  
 Approach Guardrail Ends (36d): N N/A or not required  
 Scour Critical (113): 8 Stable Above Footing

**Navigation Data**

Navigation Control (38): Permit Not Required  
 Nav Vertical Clr (39): 0 ft  
 Nav Horizontal Clr (40): 0 ft  
 Min Vert Lift Clr (116): 0 ft  
 Pier Protection (111): 1 Not Required

**NBI Condition Rating**

Sufficiency Rating: 97.8  
 Health Index: 95.18  
 Structural Eval (67): 8 Equal Desirable Crit  
 Deficiency: Not Deficient

**Minimum Vertical Clearance**

Over Structure (53): 99.99 ft  
 Under (reference) (54a): N Feature not hwy or RR  
 Under (54b): 0 ft

**Minimum Lateral Underclearance**

Reference (55a): N Feature not hwy or RR  
 Right Side (55b): 0 ft  
 Left Side (56): 0 ft

**Schedule****Current Inspection**

Inspection Date: 08/19/2019  
 Inspector: KNTCCMR - Michael Rivera  
 Bridge Group: C9S64  
 Alt. Bridge Group:  
 Primary Type: Regular NBI  
 Review Required:

**Next Inspection Date    Scheduled**

NBI: 08/19/2021  
 Element: 08/19/2021  
 Fracture Critical:  
 Underwater:  
 Other/Special:  
 Inventory Photo Update Due: 08/30/2027

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

## Inspection/CIDR/Bridge Profile Report

REPORT ID: INSP005

Structure ID: 884093

CIDR

DATE PRINTED: 9/30/2019

### Schedule Cont.

#### Inspection Types Performed

 NBI  Element  Fracture Critical  Underwater  Other Special 

#### Inspection Intervals Required (92) Frequency (92) Last Date (93) Inspection Resources

Fracture Critical	<input type="checkbox"/>	mos			Crew Hours: 8	
Underwater	<input type="checkbox"/>	mos			Flagger Hours: 0	
Other Special	<input type="checkbox"/>	mos			Helper Hours: 0	
NBI		24 mos	(91)	08/19/2019	(90)	Snooper Hours: 0
						Special Crew Hours: 0
						Special Equip Hours: 0

### Bridge Related

#### General Bridge Information

Parallel Bridge Seq:		Bridge Rail 1: Conc sidewalk barrier
Channel Depth: 2.6 ft		Bridge Rail 2: Concrete bicycle barrier
Radio Frequency: -1		Electrical Devices: No electric service
Phone Number:		Culvert Type: Not applicable
Exception Date:		Maintenance Yard: Not FDOT Maintained
Exception Type:		FIHS ON / OFF: No Routes on FIHS
Accepted By Maint: 08/25/2011		Previous Structure: 884037
Warranty Expiration: 00/00/0000		2nd Previous Structure:
Performance Rating: Excellent		Replacement Structure:
Permitted Utilities: Power <input type="checkbox"/> Water <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Fiber Optic <input type="checkbox"/> Sewage <input type="checkbox"/> Other <input checked="" type="checkbox"/> PVC pipes		

#### Bridge Load Rating Information

Inventory Type (065): 3 LRFR Load & Res. Fact	Inventory Rating (066): 40.0 tons
Operating Type (063): 3 LRFR Load & Res. Fact	Operating Rating (064): 53.3 tons
Original Design Load (031): HL 93	FL120 Permit Rating: 76.8 tons
Date: 05/17/2011	HS20/FL120 Max Span Rating: 76.8 tons
Initials: BCR	Dynamic Impact in Percent: 33 %
Load Rating Rev. Recom.: No	Governing Span Length: 35.4 ft
Load Rating Plans Status: Design or Construction	Minimum Span Length:
	Distribution Method: AASHTO formula

Load Rating Notes:

#### LEGAL LOADS

SU2: -1.0 tons  
 SU3: -1.0 tons  
 SU4: 53.9 tons  
 C3: -1.0 tons  
 C4: -1.0 tons  
 C5: 78.8 tons  
 ST5: 82.8 tons

Posting (070): 5 At/Above Legal Loads  
 Open/Posted/Closed (041): A Open, no restriction

#### POSTING

Recom. SU Posting: 99 tons  
 Recom. C Posting: 99 tons  
 Recom. ST5 Posting: 99 tons  
 Actual SU Posting: 99 tons  
 Actual C Posting: 99 tons  
 Actual ST5 Posting: 99 tons  
 Actual Blanket Posting: 99 tons  
 Emergency Vehicle: 1 EV inapplicable

#### FLOOR BEAM (FB)

FB Present: No

FB Span Length, Gov:  
 FB Spacing, Gov:  
 FB OPR Rating: 0.0 tons  
 FB SU4 OPR Rating:  
 FB FL120 Rating: 0.0 tons

#### SEGMENTAL (SEG)

SEG Wing-Span: -1.0 ft  
 SEG Web-to-Web Span: -1.0 ft  
 SEG Transverse HL93 Operating: -1.00 RF

#### Bridge Scour and Storm Information

Pile Driving Record: Unknown	Scour Recommended I: Stop scour evaluations
Foundation Type: Unknown	Scour Recommended II: No recommendation
Mode of Flow: Riverine	Scour Recommended III: No recommendation
Rating Scour Eval: Low Risk - Low	Scour Elevation: 999 ft
Highest Scour Eval: Not Applicable	Action Elevation: 999 ft
Scour Evaluation Method: Unknown – Eval Not Comp	Storm Frequency: 999

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM**

**Inspection/CIDR/Bridge Profile Report  
CIDR**

REPORT ID: INSP005

Structure ID: 884093

DATE PRINTED: 9/30/2019

**Elements**

Inspection Date: 08/19/2019 TTR

**DECKS : Decks/Slabs**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8099 / 3	PS Conc Slab (Sonovoid)	2986	100	0	.	0	.	0	.	2986 (SF)
Structure Unit 1	510 / 3	Wearing Surfaces	1721	97.29	0	.	48	2.71	0	.	1769 sq.ft
Structure Unit 1	3220 / 3	Crack (Wearing Surface)	0	.	0	.	48	100	0	.	48 sq.ft

**DECKS : Joints**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	301 / 3	Pourable Joint Seal	20	100	0	.	0	.	0	.	20 ft

**MISCELLANEOUS : Channel**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8290 / 3	Channel	1	100	0	.	0	.	0	.	1 (EA)

**MISCELLANEOUS : Other Elements**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	321 / 3	Re Conc Approach Slab	3228	100	0	.	0	.	0	.	3228 sq.ft
Structure Unit 1	510 / 3	Wearing Surfaces	1912	100	0	.	0	.	0	.	1912 sq.ft

**MISCELLANEOUS : Other Elements**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8475 / 3	R/Conc Walls	222	98.23	4	1.77	0	.	0	.	226 ft
Structure Unit 1	1120 / 3	Efflorescence/Rust Staining	0	.	4	100	0	.	0	.	4 ft

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	215 / 3	Re Conc Abutment	171	100	0	.	0	.	0	.	171 ft

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	226 / 3	Pre Conc Pile	12	54.55	0	.	10	45.45	0	.	22 (EA)
Structure Unit 1	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	10	100	0	.	10 (EA)

**SUBSTRUCTURE : Substructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	8396 / 3	Other Abutment Slope Protection	3040	100	0	.	0	.	0	.	3040 (SF)

**SUPERSTRUCTURE : Superstructure**

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
Structure Unit 1	333 / 3	Other Bridge Railing	61	82.43	10	13.51	3	4.05	0	.	74 ft
Structure Unit 1	1000 / 3	Corrosion	0	.	10	100	0	.	0	.	10 ft

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM**

**Inspection/CIDR/Bridge Profile Report**

REPORT ID: INSP005

Structure ID: 884093

CIDR

DATE PRINTED: 9/30/2019

Structure Unit 1	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	3	100	0	.	3 ft
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**Total Number of Elements\*:** 9

\*excluding defects/protective systems

**Inspection Information****Inspection Date:** 08/19/2019**Type:** Regular NBI**Inspector:** KNTCCMR - Michael Rivera**Inspection Notes:** Sufficiency Rating Calculation Accepted by KNTCCRP at 09/27/2019 11:37:00 AM**TRAFFIC RESTRICTIONS:**

This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 5/17/11. Our inspection did not reveal significant deterioration to suggest the need for a new load rating analysis.

**LOAD CAPACITY EVALUATION:**

Since the current load rating dated 5/17/11, there is no indication that deterioration, geometric changes or additional dead load have occurred that would warrant a new load rating analysis. This only applies to this inspection dated 8/19/2019 per R. Wayne McLennon, P.E..

**Structure Notes**

BRIDGE OWNER: INDIAN RIVER COUNTY

Bridge inventoried from west to east.

The inventory photos were last updated on 8/30/2017.

This bridge replaces Bridge No. 884037.

Asphalt thickness = 2-1/2in.

**UTILITIES:**

There is a 16in. wastewater pipe secured to three concrete cradles along the right (south) side of the structure.

There are two 4in. PVC pipes on the right (south) side of the structure.

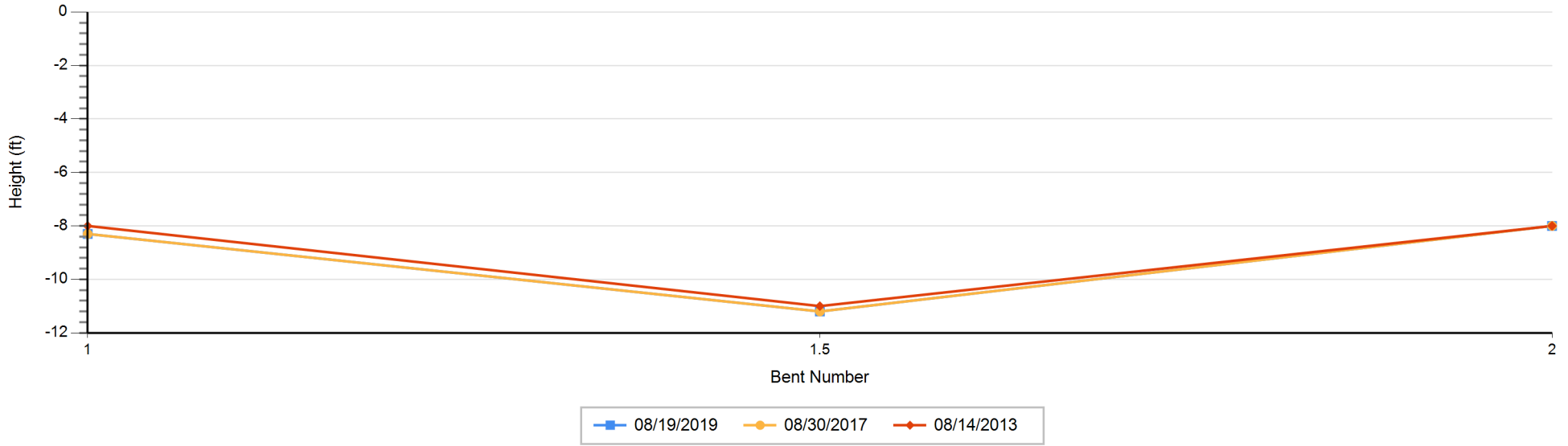
**Schedule Notes**

# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

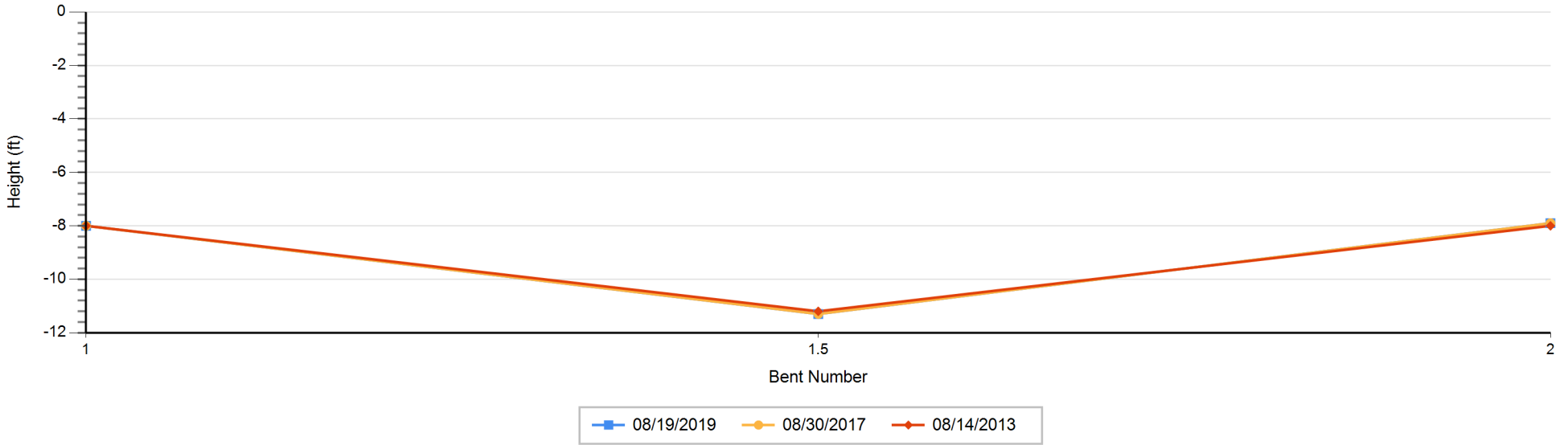
## Inspection/CIDR/Bridge Profile Report

### Bridge Profile

#### Left Profile by Inspection



#### Right Profile by Inspection



REPORT ID : INSP005  
 Structure ID : 884093

**FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM**  
**Inspection/CIDR/Bridge Profile Report**  
**Bridge Profile**

DATE PRINTED: 9/30/2019 2:38:31 PM

**Profile Data - Numerical Summary**

<b>Inspection Date and Key:</b> 8/19/2019	TTTR				(All Heights are in Feet)
		<b>Bent #</b>	<b>Left Height</b>	<b>Right Height</b>	
		1	8.30	8.00	
		1.5	11.20	11.30	
		2	8.00	7.90	
<b>Air Temp:</b> 90					
<b>Profile Notes:</b>					
Measurements referenced to the top of the utility slabs					
Waterline at Centerline of Channel = 8.7ft.					

<b>Inspection Date and Key:</b> 8/30/2017	ESZD				
		<b>Bent #</b>	<b>Left Height</b>	<b>Right Height</b>	
		1	8.30	8.00	
		1.5	11.20	11.30	
		2	8.00	7.90	
<b>Air Temp:</b> 88					
<b>Profile Notes:</b>					
Measurements referenced to the top of the utility slabs					
Waterline at Centerline of Channel = 8.7ft.					

<b>Inspection Date and Key:</b> 8/14/2013	KWTV				
		<b>Bent #</b>	<b>Left Height</b>	<b>Right Height</b>	
		1	8.00	8.00	
		1.5	11.00	11.20	
		2	8.00	8.00	
<b>Air Temp:</b> 1					
<b>Profile Notes:</b>					
Measurements referenced to the top of the utility slabs					
Waterline at Centerline of Channel = 9.0ft.					