

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE

BY: TranSystems Corporation Consultants	STRUCTURE NAME: Not recorded
OWNER: 2 County Hwy Agency	YEAR BUILT: 1965
MAINTAINED BY: 2 County Hwy Agency	SECTION NO.: 88 000 407
STRUCTURE TYPE: 1 Reinforced Concrete - 01 Slab	MP: 0.006
LOCATION: AT CR-615 (66TH AVE.)	ROUTE: 00000
SERV. TYPE ON: 1 Highway	FACILITY CARRIED: 53RD 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: 10/29/2019 UNDERWATER: N/A

SUFFICIENCY RATING: 76.5
HEALTH INDEX: 73.81

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 FEATURE INTERSECTED: LATERAL A CANAL

- 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

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OVERALL NBI RATINGS:

DECK: 6 Satisfactory	CHANNEL: 6 Bank Slumping
SUPERSTRUCTURE: 6 Satisfactory	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 6 Satisfactory	SUFF. RATING: 76.5
PERF. RATING: Good	HEALTH INDEX: 73.81

FIELD PERSONNEL / TITLE / NUMBER:

INITIALS

Rivera, Michael - Bridge Inspector (CBI #00547) (lead)
 Linton, Deondre - Assistant Bridge Inspector

REVIEWING BRIDGE INSPECTION SUPERVISOR:

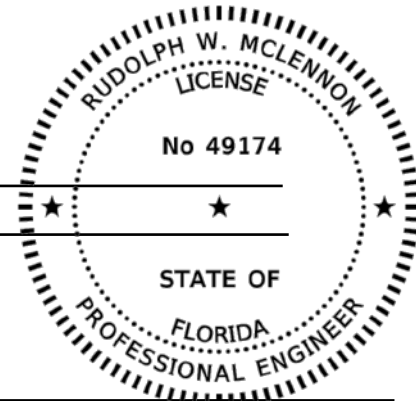
Sojo, Fernando - CBI (#00214)

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.

This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes. Only the cover page of this report may be inspected and copied.

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All Elements

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	38 / 3	Re Concrete Slab	1347	85.36	203	12.86	28	1.77	0	.	1578 sq.ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	203	87.88	28	12.12	0	.	231 sq.ft

Element Inspection Notes:

38/3 Note: The entire underside area of Span 1 and Span 5 could not be inspected due to the height of the channel slopes beneath the spans.

CS3:

1) Slab Unit 2-3 in the deck underside at the west edge has a spall/failed patch 5ft. L x 1ft. W x 2in. D with corroded exposed steel, at midspan (total 5sf.). NO CHANGE. See Photo 38-S01.

2) Slab Unit 3-3 in the deck underside at mid-span exhibits a spall/delamination over 30in. L x 8in. W x 1in. D with corroded exposed rebar (total 3sf.). NEW. See Photo 38-S02.

3) The top of the slab units exhibit several edge spalls up to 8in. L x 3in. W x 1in. D with no exposed steel (total 20sf.). NO CHANGE. See Photo 38-S03.

CS2:

4) The deck top along the longitudinal joints and in the edges are deteriorated sealant repair areas throughout the structure filled in spalls up to 7ft. L x 5in. W x 1in. D (total 195sf.). NO CHANGE. See Photo 38-S04.

5) Slab Unit 2-3 in the deck underside exhibits a delamination 5ft. L x 6ft. W adjacent to Bent 2 (total 5sf.). NO CHANGE. See Photo 38-S05.

6) Slab Unit 3-4 in the deck underside at mid-span exhibits a delamination over 30in. L x 8in. W (total 3sf.). NEW. See Photo 38-S06.

CS1:

7) The top of the slab units exhibit abrasive wear up to 1/32in. D and areas of map cracking 5ft. L x 5ft. W x up to 1/32in. W (total 800sf.). NO CHANGE.

Secondary:

8) The curbs have vehicle impact-related edge spalls up to 9in. L x 4in. W x 1in. D with exposed corroded steel throughout (total 7sf.). NO CHANGE. See Photo 38-S07.

9) The left (north) curb of Bent 5 has a delamination 1ft. L x 3in. W in the top face (total 1sf.). NO CHANGE.

10) Span 2 has lateral misalignment to the north at the north curb. Measurements of the offset were taken on the top face of the north curb for future reference: Bent 2 = 1in. W and Bent 3 = 5/8in. W. NO CHANGE.

11) Slab Units 2-4 and 2-5 have a 2in. W gap between the west half of slab units, reflective of the deck top. NO CHANGE.

12) There is an area of missing asphalt at the southwest corner of the approach roadway over 8ft. L x 4ft. W. NEW. See Photo 38-S08.

13) There is no object marker at the northwest (off-going), northeast and southeast corner of the structure. NO CHANGE. See Photo 38-S09.

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1080/3 Refer to EIN 1 thru 6.

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	301 / 3	Pourable Joint Seal	0	.	0	.	126	100	0	.	126 ft
0	2330 / 3	Seal Damage	0	.	0	.	126	100	0	.	126 ft

Element Inspection Notes:

301/3 CS3:
1) The hot poured sealant within the joints exhibits deterioration up to 16ft. L throughout (total 126ft.). Previously noted as 6ft. L. INCREASE. See Photo 301-S01.

2330/3 Refer to EIN 1.

MISCELLANEOUS : Channel

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

Element Inspection Notes:

8290/3 No deficiencies were noted.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	228 / 3	Timber Pile	0	.	1	6.67	5	33.33	9	60	15 (EA)
0	1140 / 3	Decay/Section Loss	0	.	1	10	0	.	9	90	10 (EA)
0	1170 / 3	Split/Delamination (Timber)	0	.	0	.	5	100	0	.	5 (EA)

Element Inspection Notes:

228/3 Note: The 9 piles that are jacketed are in CS4 due to the unknown conditions prior to jacket installation. (5 at Bent 2 and Pile 4-5 are not jacketed)

CS4:

1) Pile 3-4 in the south face has a splintered area 3ft. 4in. L x 8in. W x 1-1/4in. D above the jacket. NO CHANGE.

CS3:

2) Four piles at Bent 2 have weathering splits up to 2ft. L x 1/8in. W (total 4ea.). NO CHANGE. See Photo 228-S01.

3) Pile 2-3 north and east quadrants have splintered areas up to 1ft. L x 6in. W x 1in. D, starting at the waterline (total 1ea.). NO CHANGE. See Photo 228-S02.

CS2:

4) Pile 4-5 has a soft outer shell up to 3/8in. D near the waterline (total 1ea.). NO CHANGE.

Secondary:

5) There is white fungus stains are developing near the waterline (total 4ea.). NO CHANGE.

6) The cross brace at Bent 3 is disconnected at Pile 3-5. NEW. See Photo 228-S03.

7) All five piles at Bent 2 have reduced bearing with the cap and it appears the piles have leaned/rotated to the east. NO CHANGE. This condition was first noted in the

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11/02/05 report and may be due to pressure exerted by the timber backwall.

8) The following are the distances measured from the east face of the cap at Bent 2 to the east edge of the Bent 2 piles (all 12in. diameter) and the remaining percentage of bearing for future monitoring.

Pile 2-1 = 2in. (69%) - NO CHANGE SINCE 2005.

Pile 2-2 = 1in. (89%) - NO CHANGE SINCE 2005.

Pile 2-3 = 3in. (56%) - NO CHANGE SINCE 2005. See Photo 228-S04.

Pile 2-4 = 3-1/4in. (53%) - NO CHANGE SINCE 2005.

Pile 2-5 = 1-1/4in. (80%) - NO CHANGE SINCE 2005.

1140/3 Refer to EIN 4.

1170/3 Refer to EIN 2 and 3.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	92	100	0	.	0	.	0	.	92 ft

Element Inspection Notes:

234/3 Note: The concrete toppings over the intermediate timber bent caps were evaluated under this element.

No deficiencies were noted.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	235 / 3	Timber Pier Cap	52	56.52	40	43.48	0	.	0	.	92 ft
0	1170 / 3	Split/Delamination (Timber)	0	.	40	100	0	.	0	.	40 ft

Element Inspection Notes:

235/3

CS2:

1) The cap at the intermediate bents exhibit weathering splits, stains and fungus from joint leakage (total 40ft.). NO CHANGE.

Secondary:

2) The extension boards on the east face at the north end of the cap at Bent 2 has splitting up to 4ft. L x 1/8in. W (total 6ft.). NO CHANGE. See Photo 235-S01.

1170/3 Refer to EIN 1.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8298 / 3	Pile Jacket Bare	4	44.44	0	.	5	55.56	0	.	9 (EA)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	5	100	0	.	5 (EA)

Element Inspection Notes:

8298/3 Note: The pile jackets terminate approximately 8in. above the mudline. The four jackets at Bent 4 have an additional 4ft. diameter section at the mudline.

CS3:

1) The jackets for Piles 3-1, 3-3, 3-4 and 3-5 have spalling and honeycombing in the bottom 2ft. resulting in exposure of the wire mesh and rebar reinforcing (total 4ea.). NO CHANGE. See Photo 8298-S01.

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2) Pile Jacket 4-4 bottom north face has a void/area of honeycombing 17in. L x 7in. H x 2in. D (total 1ea.). NO CHANGE.

CS1:

3) The jackets have vertical shrinkage cracks up to 3ft. H x 1/64in. W. NO CHANGE. See Photo 8298-S02.

1080/3 Refer to EIN 1 and 2.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8395 / 3	Timber Abutment Slope Protection	151	100	0	.	0	.	0	.	151 (SF)

Element Inspection Notes:

8395/3 Note: The timber retaining wall behind the pile at Bent 2 serves as a slope protection for Span 1.

Secondary:

1) The boards for timber retaining wall behind the Bent 2 pile are in good condition; however, the wall is undermined 8in. high from Pile 2-1 to Pile 2-3, leaving voids in the dirt slope behind the wall. NO CHANGE.

2) There are gaps between the boards are also allowing some fill leakage to occur. NO CHANGE. See Photo 8395-S01.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 3	Other Bridge Railing	137	100	0	.	0	.	0	.	137 ft

Element Inspection Notes:

333/3 Note: This element represents the concrete post and timber rail bridge railing. The bridge rails stop 3ft. 6in. short of the bridge ends at the four corners.

CS3:

1) Post 1-2 right in the west face exhibits a spall over 7in. L x 10in. H x 1in. D with no exposed steel. NEW. See Photo 333-S01.

2) Post 2-1 left in the west face exhibits a spall over 8in. L x 24in. H x 3in. D with 2 corroded exposed rebar. NEW. See Photo 333-S02.

Secondary:

1) The approach guardrails have not been provided at this structure. NO CHANGE. See Photo 333-S03.

Total Number of Elements*: 9

*excluding defects/protective systems

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Inspector Recommendations

UNIT: 0 DECKS**ELEMENT/ENV: 38 / 3 Re Concrete Slab****ELEM CATEGORY: Decks/Slabs**

CONDITION STATE		PRIORITY
1, 2, 3	MMS Quantity: 1 sf Element Estimated Quantity: 195 sq.ft	3
WORK ORDER RECOMMENDATION: Repair deteriorated joint seals in the deck top between the slab units.		
1, 2, 3	MMS Quantity: 1 sf Element Estimated Quantity: 3 sq.ft	3
WORK ORDER RECOMMENDATION: Install object markers at the northwest and northeast and southeast corner of the structure.		
1, 2, 3	MMS Quantity: 1 sf Element Estimated Quantity: 36 sq.ft	3
WORK ORDER RECOMMENDATION: Repair spalls and delaminations in the deck underside of Slab Units 2-3 3-3 and 3-4.		

ELEMENT/ENV: 301 / 3 Pourable Joint Seal**ELEM CATEGORY: Joints**

CONDITION STATE		PRIORITY
3	MMS Quantity: 1 lf Element Estimated Quantity: 126 ft	3
WORK ORDER RECOMMENDATION: Repair deteriorated joint seals throughout the bridge.		

UNIT: 0 SUBSTRUCTURE**ELEMENT/ENV: 228 / 3 Timber Pile****ELEM CATEGORY: Substructure**

CONDITION STATE		PRIORITY
2, 3, 4	MMS Quantity: 1 mh Element Estimated Quantity: 1 (EA)	3
WORK ORDER RECOMMENDATION: Reconnect the cross brace to Pile 3-5 at Bent 3.		

ELEMENT/ENV: 8298 / 3 Pile Jacket Bare**ELEM CATEGORY: Substructure**

CONDITION STATE		PRIORITY
1, 3	MMS Quantity: 1 mh Element Estimated Quantity: 4 (EA)	3
WORK ORDER RECOMMENDATION: Clean and repair spalls and honeycombing in Piles 3-1 3-3 3-4 and 3-5.		

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Inspector Recommendations

UNIT: 0 SUPERSTRUCTURE**ELEMENT/ENV: 333 / 3 Other Bridge Railing****ELEM CATEGORY: Superstructure**

CONDITION STATE		PRIORITY
1	MMS Quantity: 1 lf Element Estimated Quantity: 1 ft WORK ORDER RECOMMENDATION: Install approach guardrails at all four corners of the bridge.	3
1	MMS Quantity: 1 lf Element Estimated Quantity: 2 ft WORK ORDER RECOMMENDATION: Repair spalls in the west face of Post 1-2 right and Post 2-1 left.	3

Structure Notes

BRIDGE OWNER: INDIAN RIVER COUNTY

Structure inventoried from west to east.

The inventory photos were last updated on 10/19/2017.

This structure is functionally obsolete due to a Deck Geometry (Item 68) rating of 3. The minimum required Roadway Width based on the number of lanes (2) for a rating of 4 is 20.01ft for this structure.

INSPECTION NOTES: IOZE 10/29/2019

Sufficiency Rating Calculation Accepted by kn853lm at 12/11/2019 4:34:40 PM

TRAFFIC RESTRICTIONS: This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 10/23/1996. 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 10/23/1996, 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 10/29/2019 per R. Wayne McLennon, P.E..

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NORTH ELEVATION

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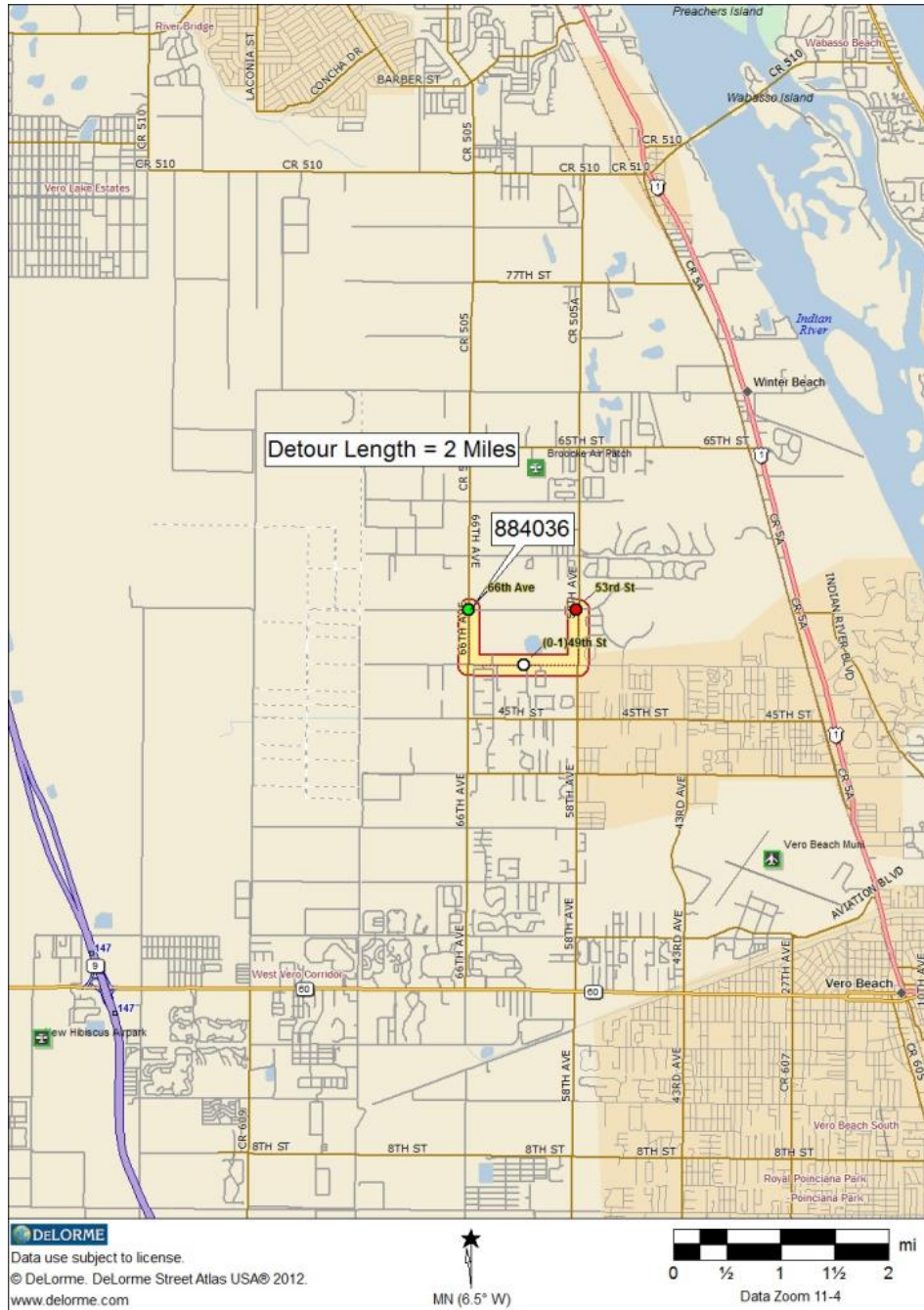
WEST APPROACH LOOKING EAST

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LOCATION MAP

53rd Street over Lateral A Canal - At CR-615 (66th Avenue)

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LOAD RATING ANALYSIS SUMMARY SHEET

FDOT 150-010-04
MAINTENANCE - 06/93
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
D: LOAD CAPACITY INFORMATION

BRIDGE DATA:
 Bridge Number 884036 Date 10-23-96
 STR Type Main [BMIS Item B1(43)] 101 STR Type APR [BMIS Item B2(44)] 000
POSTING DATE:
 Posted YES If Yes, Existing Posting Needed NO If Yes, Proposed
 Restrictions 20T Restrictions
 BMIS Item H6(41) P BMIS Item H11(70) 5
 BMIS Item H7(31) 1

ANALYSIS DATA:
 Method of Analysis:
 Load Factor
 Working Stress
 Analysis System:
 BARS
 SALOD
 BRUFEM
 Load Test
 Other
 Controlling Member Analyzed:
 Material:
 Steel
 Concrete
 Cast in Place
 Precast
 Prestressed
 Post Tensioned
 Timber
 Other
 Span:
 Simple
 Continuous
 Frame
 Slab:
 Non-Composite
 Composite
Load Rating Summary Table:

C. Analysis Based On:
 Design Drawings
 As-Built Record Plans
 Shop Drawings
 Field Measurement
 Catalogs
 Sample Testing
 Other existing data

D. Data Stored:
 District Office
 Central Office
 Microfilm
 Bridge Owner
 Materials Test Lab
 Other

Function:
 Slab
 Stringer
 Floor Beam
 Girder
 Culvert
 Truss

Substructure:
 Bent Construction
 Piling
 Cap
 Pier Construction
 Piling
 Footing
 Column
 Cap

Shape:
 Rolled
 Built-up Welded
 Built-up Riveted
 Box Shape
 AASHTO Girders
 Other slab

LOAD RATING SUMMARY FOR OPERATING RATING (GROSS TONS)								
VEHICLE TYPE	TONS	OPR RATING	OPR FACTOR	SPAN NO.	SPAN LENGTH	CONTR. MEMBER	M OR V	LLDF
SU2	17.00	37.50	2.21	1.00	14.17	1.00	M	0.75
SU3	33.00	51.50	1.56	1.00	14.167	1.00	M	0.75
SU4	35.00	49.80	1.42	1.00	14.17	1.00	M	0.75
C3	28.00	61.70	2.21	1.00	14.17	1.00	M	0.75
C4	36.60	57.2	1.56	1.00	14.17	1.00	M	0.75
C5	40.00	62.50	1.56	1.00	14.17	1.00	M	0.75
ST5	40.00	75.10	1.88	1.00	14.17	1.00	M	0.75
HS20	36.00	54.60	1.52	1.00	14.17	1.00	M	0.75

HS 20 Inventory Rating 32.7 Rating Factor .909 Impact Factor .300

Comments:
MEMBER 1 IS A PRECAST REINFORCED CONCRETE SLAB WITH 2 SPANS 15.0 FT. EACH IN LENGTH.
CURRENT POSTING IS NOT BASED ON OPERATING RATING.

Computations:
 Performed By R. COLESBY Date 10-23-96
 Checked By H. KWOH Date 10-23-96
 Reviewed By _____ Date 10-23-96
 Responsible Engineer: SHUAN H. KWOH
 P.E. # 20208 Date 10-23-96

LOAD RATING ANALYSIS SUMMARY

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Photo 38-S01 (Unit 0: Re Concrete Slab)

Spall/failed patch with exposed corroded steel in the deck underside at the west edge of Slab Unit 2-3 at midspan.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in the deck underside of Slab Units 2-3 3-3 and 3-4.

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Photo 38-S02 (Unit 0: Re Concrete Slab)

Spall/delamination with exposed corroded rebar in the deck underside of Slab Unit 3-3 at midspan.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in the deck underside of Slab Units 2-3 3-3 and 3-4.

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Photo 38-S03 (Unit 0: Re Concrete Slab)

Spalls with no exposed steel in the top of Slab Unit 1-3.

REPAIR RECOMMENDATION:
None.

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Photo 38-S04 (Unit 0: Re Concrete Slab)

Deteriorated joint seal in the deck top between Slab Units 2-4 and 2-5.

REPAIR RECOMMENDATION:

Repair deteriorated joint seals in the deck top between the slab units.

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Photo 38-S05 (Unit 0: Re Concrete Slab)

Delamination in the deck underside of Slab Unit 2-3 adjacent to Bent 2.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in the deck underside of Slab Units 2-3 3-3 and 3-4.

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Photo 38-S06 (Unit 0: Re Concrete Slab)

Delamination in the deck underside of Slab Unit 3-4.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in the deck underside of Slab Units 2-3 3-3 and 3-4.

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Inspection

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 38-S07 (Unit 0: Re Concrete Slab)

Spall with exposed corroded steel in the right curb due to impact damage.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 38-S08 (Unit 0: Re Concrete Slab)

Missing asphalt at the southwest corner of the approach roadway.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 38-S09 (Unit 0: Re Concrete Slab)

No object marker at the northwest corner of the structure.

REPAIR RECOMMENDATION:

Install object markers at the northwest and northeast and southeast corner of the structure.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 301-S01 (Unit 0: Pourable Joint Seal)

Deteriorated joint seal along Bent 2.

REPAIR RECOMMENDATION:

Repair deteriorated joint seals throughout the bridge.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 228-S01 (Unit 0: Timber Pile)

Splits in the Piles 2-1 thru 2-3.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 228-S02 (Unit 0: Timber Pile)

Splintered area in the north quadrant of Pile 2-3, starting at the waterline.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 228-S03 (Unit 0: Timber Pile)

Disconnected cross brace from Pile 3-5 at Bent 3.

REPAIR RECOMMENDATION:

Reconnect the cross brace to Pile 3-5 at Bent 3.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 228-S04 (Unit 0: Timber Pile)

Measurement of the distance of the cap at Bent 2 to the east edge of Pile 2-3.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 235-S01 (Unit 0: Timber Pier Cap)

Splitting in the extension board on the east face north end of the cap at Bent 2.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 8298-S01 (Unit 0: Pile Jacket Bare)

Spalled in the lower portion of Pile Jacket 3-5.

REPAIR RECOMMENDATION:

Clean and repair spalls and honeycombing in Piles 3-1 3-3 3-4 and 3-5.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 8298-S02 (Unit 0: Pile Jacket Bare)

Vertical cracks in the Pile Jacket 3-2.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



Photo 8395-S01 (Unit 0: Timber Abutment Slope Protection)

Gaps between the boards at the timber retaining wall at Bent 2.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



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

Spall with no exposed steel in the west face of Post 1-2 right.

REPAIR RECOMMENDATION:

Repair spalls in the west face of Post 1-2 right and Post 2-1 left.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



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

Spall with corroded exposed rebar in the west face of Post 2-1 left.

REPAIR RECOMMENDATION:

Repair spalls in the west face of Post 1-2 right and Post 2-1 left.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



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

No guardrail at the southwest approach.

REPAIR RECOMMENDATION:

Install approach guardrails at all four corners of the bridge.

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



NORTH CHANNEL

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

Structure ID: 884036

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 10/29/2019 IOZE



SOUTH CHANNEL

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

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

REPORT ID: INSP005

Structure ID: 884036

DATE PRINTED: 12/12/2019

Description

Structure Unit Identification

Bridge/Unit Key: 884036 0
Structure Name:
Description: MAIN SPAN 1
Type: M - Main

Roadway Identification

NBI Structure No (8): 884036
Position/Prefix (5): 1 - Route On Structure
Kind Hwy (Rte Prefix): 4 County Hwy
Design Level of Service: 6 Business
Route Number/Suffix: 00000 / 0 N/A (NBI)
Feature Intersect (6): LATERAL A CANAL
Critical Facility: Not Defense-crit
Facility Carried (7): 53RD STREET
Mile Point (11): 0.006
Latitude (16): 027d41'23.7" Long (17): 080d27'45.3"

Roadway Traffic and Accidents

Lanes (28): 2 Medians: 0 Speed: 35 mph
ADT Class: 1 ADT Class 1
Recent ADT (29): 134 Year (30): 2019
Future ADT (114): 232 Year (115): 2041
Truck % ADT (109): 20
Detour Length (19): 2.0 mi
Detour Speed: 35 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): 88 000 407 Sub Rte (13b): 00
Functional Class (26): 07 Rural Mjr Collector
Federal Aid System: ON
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): 18.8 ft
Horiz. (47): 19.7 ft Roadway (51): 19.7 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): Not Applicable (P)
Work To Be Done By (075B): Not Applicable (P)
Improvement Length (076): 0 ft

Improvement Cost (094): \$ 0.00
Roadway Improvement Cost (095): \$ 0.00
Total Cost (096): \$ 0.00
Year of Estimate (097):

NBI Rating

Channel (61): 6 Bank Slumping
Deck (58): 6 Satisfactory
Superstructure (59): 6 Satisfactory
Substructure (60): 6 Satisfactory

Culvert (62): N N/A (NBI)
Waterway (71): 7 Above Minimum
Unrepaired Spalls: -1 sq.ft.
Review Required:

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

REPORT ID: INSP005

Structure ID: 884036

CIDR

DATE PRINTED: 12/12/2019

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

Structure Type and Material

Curb/Sidewalk (50): Left: 0.6 ft Right: 0.6 ft
 Bridge Median (33): 0 No median
 Main Span Material (43A): 1 Reinforced Concrete
 Appr Span Material (44A): Not Applicable
 Main Span Design (43B): 01 Slab
 Appr Span Design (44B): Not Applicable

Appraisal

Structure Appraisal

Open/Posted/Closed (41): A Open, no restriction
 Deck Geometry (68): 3 Intolerable - Correct
 Underclearances (69): N Not applicable (NBI)
 Approach Alignment (72): 8-No Speed Red thru Curv
 Bridge Railings (36a): 0 Substandard
 Transitions (36b): 0 Substandard
 Approach Guardrail (36c): 0 Substandard
 Approach Guardrail Ends (36d): 0 Substandard
 Scour Critical (113): 8 Stable Above Footing

Minimum Vertical Clearance

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

Schedule

Current Inspection

Inspection Date: 10/29/2019
 Inspector: KNTCCMR - Michael Rivera
 Bridge Group: C9S64
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required:

Geometrics

Spans in Main Unit (45): 5
 Approach Spans (46): 0
 Length of Max Span (48): 15.1 ft
 Structure Length (49): 75.1 ft
 Total Length: 75.1 ft
 Deck Area: 1578 sqft
 Structure Flared (35): 0 No flare

Age and Service

Year Built (27): 1965
 Year Reconstructed (106): 0
 Type of Service On (42a): 1 Highway
 Under (42b): 5 Waterway
 Fracture Critical Details: Not Applicable

Deck Type and Material

Deck Width (52): 21 ft
 Skew (34): 0 deg
 Deck Type (107): 2 Concrete Precast Panel
 Surface (108): 0 None
 Membrane: 0 None
 Deck Protection: None

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): Not Applicable (P)

NBI Condition Rating

Sufficiency Rating: 76.5
 Health Index: 73.81
 Structural Eval (67): 6 Equal Min Criteria
 Deficiency: Functionally Obsolete

Minimum Lateral Underclearance

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

Next Inspection Date Scheduled

NBI: 10/29/2021
 Element: 10/29/2021
 Fracture Critical:
 Underwater:
 Other/Special:
 Inventory Photo Update Due: 10/29/2027

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

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

REPORT ID: INSP005

Structure ID: 884036

DATE PRINTED: 12/12/2019

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)	10/29/2019 (90)		Snooper Hours: 0
					Special Crew Hours: 0
					Special Equip Hours: 0

Bridge Related

General Bridge Information

Parallel Bridge Seq:		Bridge Rail 1: Combination not defined
Channel Depth: 1.9 ft		Bridge Rail 2: Not applicable-No rail
Radio Frequency: -1		Electrical Devices: No electric service
Phone Number:		Culvert Type: Not applicable
Exception Date:		Maintenance Yard: Not FDOT Maintained
Exception Type: Unknown		FIHS ON / OFF:
Accepted By Maint: 01/01/1965		Previous Structure:
Warranty Expiration: 00/00/0000		2nd Previous Structure:
Performance Rating: Good		Replacement Structure:

Permitted Utilities: Power Water Gas Fiber Optic Sewage Other

Bridge Load Rating Information

Inventory Type (065): 1 LF Load Factor	Inventory Rating (066): 32.7 tons
Operating Type (063): 1 LF Load Factor	Operating Rating (064): 54.6 tons
Original Design Load (031): 1 M 9 (H 10)	FL120 Permit Rating: -1.0 tons
Date: 10/23/1996	HS20/FL120 Max Span Rating: 54.6 tons
Initials: SHK	Dynamic Impact in Percent: 30 %
Load Rating Rev. Recom.:	Governing Span Length: 14.1 ft
Load Rating Plans Status: Unknown	Minimum Span Length:
	Distribution Method: AASHTO formula

Load Rating Notes:

LEGAL LOADS

SU2: 37.5 tons
 SU3: 51.5 tons
 SU4: 49.8 tons
 C3: 61.7 tons
 C4: 57.2 tons
 C5: 62.5 tons
 ST5: 75.1 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: 0.0 ft
 FB Spacing, Gov: 0.0 ft
 FB OPR Rating: 0.0 tons
 FB SU4 OPR Rating: 0.0 tons
 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: Phase I completed	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: 884036

DATE PRINTED: 12/12/2019

Elements

Inspection Date: 10/29/2019 IOZE

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	38 / 3	Re Concrete Slab	1347	85.36	203	12.86	28	1.77	0	.	1578 sq.ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	203	87.88	28	12.12	0	.	231 sq.ft

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	301 / 3	Pourable Joint Seal	0	.	0	.	126	100	0	.	126 ft
0	2330 / 3	Seal Damage	0	.	0	.	126	100	0	.	126 ft

MISCELLANEOUS : Channel

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

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	228 / 3	Timber Pile	0	.	1	6.67	5	33.33	9	60	15 (EA)
0	1140 / 3	Decay/Section Loss	0	.	1	10	0	.	9	90	10 (EA)
0	1170 / 3	Split/Delamination (Timber)	0	.	0	.	5	100	0	.	5 (EA)

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	92	100	0	.	0	.	0	.	92 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	235 / 3	Timber Pier Cap	52	56.52	40	43.48	0	.	0	.	92 ft
0	1170 / 3	Split/Delamination (Timber)	0	.	40	100	0	.	0	.	40 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8298 / 3	Pile Jacket Bare	4	44.44	0	.	5	55.56	0	.	9 (EA)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	5	100	0	.	5 (EA)

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8395 / 3	Timber Abutment Slope Protection	151	100	0	.	0	.	0	.	151 (SF)

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 3	Other Bridge Railing	137	100	0	.	0	.	0	.	137 ft

Total Number of Elements*: 9

*excluding defects/protective systems

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

REPORT ID: INSP005

Structure ID: 884036

DATE PRINTED: 12/12/2019

Inspection Information**Inspection Date:** 10/29/2019**Type:** Regular NBI**Inspector:** KNTCCMR - Michael Rivera**Inspection Notes:** Sufficiency Rating Calculation Accepted by kn853lm at 12/11/2019 4:34:40 PM

TRAFFIC RESTRICTIONS: This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 10/23/1996. 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 10/23/1996, 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 10/29/2019 per R. Wayne McLennon, P.E..

Structure Notes

BRIDGE OWNER: INDIAN RIVER COUNTY

Structure inventoried from west to east.

The inventory photos were last updated on 10/19/2017.

This structure is functionally obsolete due to a Deck Geometry (Item 68) rating of 3. The minimum required Roadway Width based on the number of lanes (2) for a rating of 4 is 20.01ft for this structure.

Schedule Notes

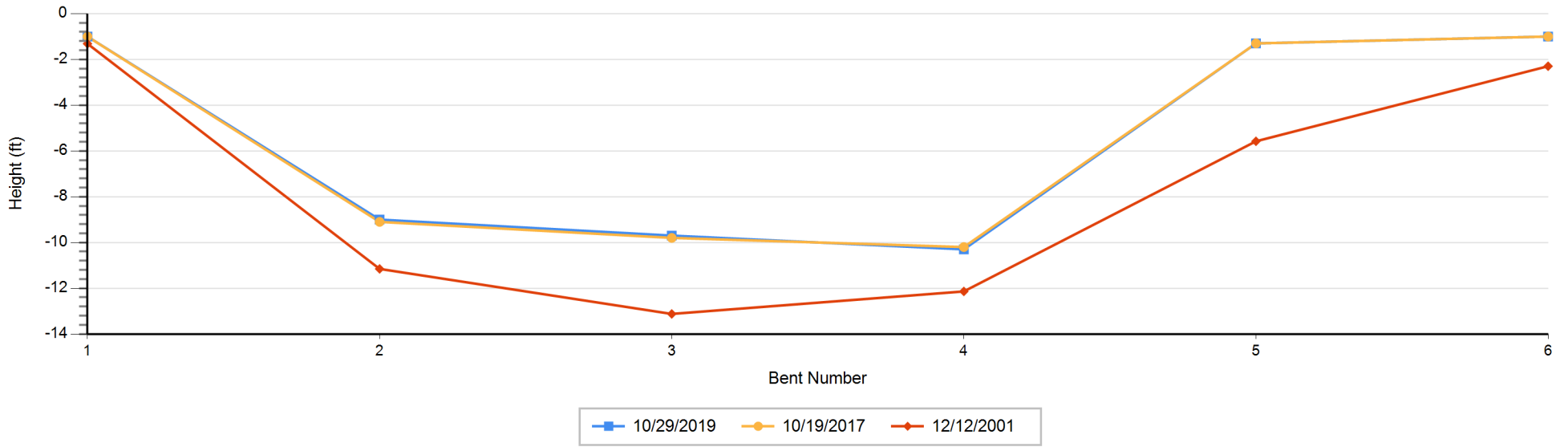
FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

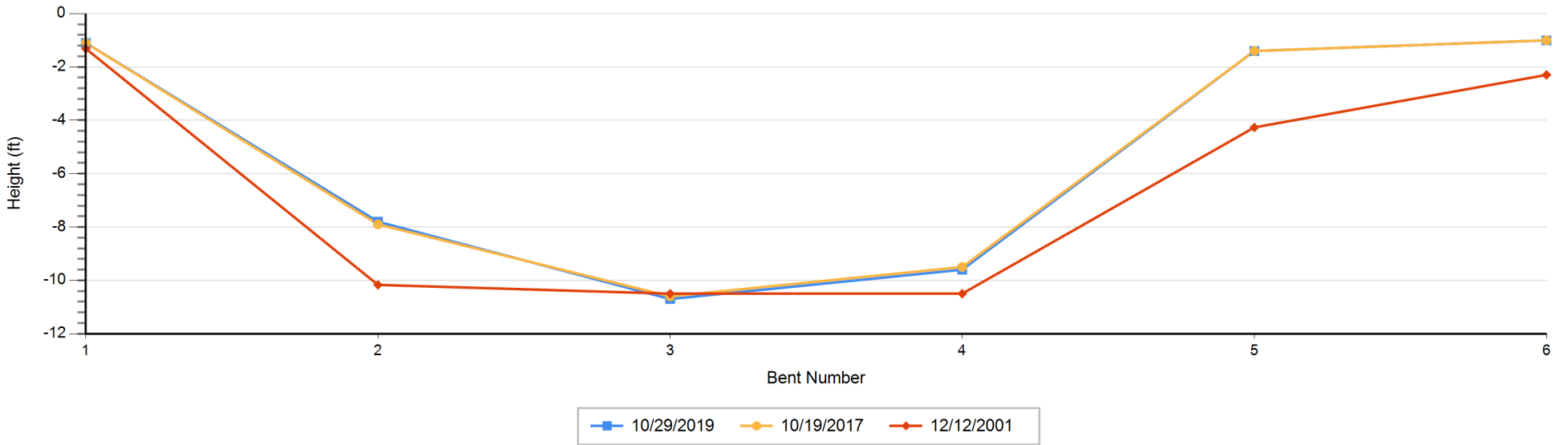
Bridge Profile

DATE PRINTED: 12/12/2019 3:55:56 PM

Left Profile by Inspection



Right Profile by Inspection



REPORT ID : INSP005
 Structure ID : 884036

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

DATE PRINTED: 12/12/2019 3:55:56 PM

Profile Data - Numerical Summary

Inspection Date and Key:	IOZE	Bent #	Left Height	Right Height	(All Heights are in Feet)
10/29/2019		1	1.00	1.10	
		2	9.00	7.80	
		3	9.70	10.70	
		4	10.30	9.60	
		5	1.30	1.40	
		6	1.00	1.00	

Air Temp: 88

Profile Notes:

Measurements were referenced from the top of the curbs.
 Waterline at Bent 3: Left and Right = 8.8ft.

Inspection Date and Key:	TQSW	Bent #	Left Height	Right Height	(All Heights are in Feet)
10/19/2017		1	1.00	1.10	
		2	9.10	7.90	
		3	9.80	10.60	
		4	10.20	9.50	
		5	1.30	1.40	
		6	1.00	1.00	

Air Temp: 86

Profile Notes:

Measurements were referenced from the top of the curbs.
 Waterline at Bent 3: Left and Right = 8.7ft.

Inspection Date and Key:	CLZL	Bent #	Left Height	Right Height	(All Heights are in Feet)
12/12/2001		1	1.31	1.31	
		2	11.15	10.17	
		3	13.12	10.50	

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

Bridge Profile

DATE PRINTED: 12/12/2019 3:55:56 PM

Profile Data - Numerical Summary

Bent #	Left Height	Right Height	(All Heights are in Feet)
4	12.14	10.50	
5	5.58	4.27	
6	2.30	2.30	

Air Temp:

Profile Notes:

Measurements taken from top of bridge rail
