

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW

BY: TranSystems Corporation Consultants	STRUCTURE NAME: Not recorded
OWNER: 2 County Hwy Agency	YEAR BUILT: 1956
MAINTAINED BY: 2 County Hwy Agency	SECTION NO.: 88 590 000
STRUCTURE TYPE: 1 Reinforced Concrete - 01 Slab	MP: 0.010
LOCATION: 25FT. EAST OF 66TH AVE.	ROUTE: 00632
SERV. TYPE ON: 1 Highway	FACILITY CARRIED: 65TH ST.
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: 1/20/2020 UNDERWATER: N/A

SUFFICIENCY RATING: 72
HEALTH INDEX: 81.55

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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: 1/20/2020 UNDERWATER: N/A

OVERALL NBI RATINGS:

DECK: 6 Satisfactory	CHANNEL: 7 Minor Damage
SUPERSTRUCTURE: 6 Satisfactory	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 6 Satisfactory	SUFF. RATING: 72
PERF. RATING: Good	HEALTH INDEX: 81.55

FIELD PERSONNEL / TITLE / NUMBER:

INITIALS

Rivera, Michael - Bridge Inspector (CBI #00547) (lead)	_____
Norris, Devon – Assistant Bridge Inspector	_____

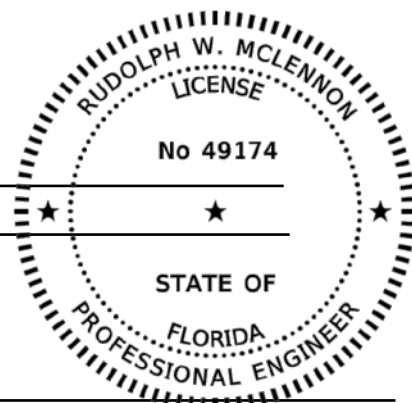
REVIEWING BRIDGE INSPECTION SUPERVISOR:

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
0	38 / 3	Re Concrete Slab	486	50.63	427	44.48	47	4.9	0	.	960 sq.ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	6	12.77	41	87.23	0	.	47 sq.ft
0	1090 / 3	Exposed Rebar	0	.	1	14.29	6	85.71	0	.	7 sq.ft
0	1130 / 3	Cracking (RC and Other)	0	.	420	100	0	.	0	.	420 sq.ft

Element Inspection Notes:

38/3

DECK TOP:

CS3:

1) The top of Slab Units 1-2, 2-2, 2-3 and 3-3, southwest corners, each has a spalled/delaminated patch up to 17in. L x 10in. W x 1/4in. D; however, this patch has been repaired with hot poured sealant and the sealant is deteriorated (total 8sf.). NO CHANGE. See Photo 38-S01.

CS2:

2) The top of the slab units exhibits abrasive wear up to 1/32in. D, map cracking areas up to 7ft. L x 5ft. W with up to 1/16in. W at 18in. spacing apart and transverse cracks up to 1/16in. W (total 400sf.). NO CHANGE.

3) The top face of Slab Unit 1-1 has a transverse crack 4ft. L x 1/8in. W, 6ft. from End Bent 1 (total 4sf.). NO CHANGE.

4) The top face of Slab Units 3-1 and 3-4 have up to 4ft. L x 1/8in. W transverse cracks in 12in. to 24in. intervals, starting at Bent 3 and extending to End Bent 4 (total 16sf.). NO CHANGE. See Photo 38-S02.

5) All slab units have two 1-1/2in diameter unpatched core holes/pickup points at the 1/4 and 3/4 points (total 6sf.). NO CHANGE.

DECK UNDERSIDE:

CS3:

6) The south edge of Slab Unit 1-1 exhibits a spall/delamination 48in. L x 6in. W x 3in. D, 3ft. from End Bent 1, (total 4sf.). NO CHANGE. See Photo 38-S03.

7) The south edge of Slab Unit 1-2 exhibits a spall 4ft. L x 4in. W x 3in. D, 3ft. from End Bent 1 (total 3sf.). Previously noted as 3ft. L. INCREASE. See Photo 38-S04.

8) The south edge of Slab Unit 2-2 exhibits four spalls up to 5ft. L x 6in. W x 3in. D, 4ft east of Bent 2 (total 20sf.). NO CHANGE. See Photo 38-S05.

9) The north edge of Slab Unit 3-1 exhibits a spalled patch 4ft. L x 4in. W x 1in. D with no exposed steel at midspan (total 4sf.). NEW. See Photo 38-S06.

10) Slab Unit 3-2 south edge near 3/4 point exhibits a spall 6ft. L x 6in. W x 4in. D in a failed patch with exposed corroded rebar with 7/8in. remaining thickness (1in. Original)(total 6sf.). NO CHANGE. See Photo 38-S07.

11) Slab Unit 3-4 south edge at Bent 3 exhibits a spall/delamination 2ft. L x 5in. W x 1in. D (total 2sf.). Spall not previously noted. INCREASE. See Photo 38-S08.

CS2:

12) Slab Unit 3-3 south edge near 3/4 point has a 4in. long section of exposed steel due to insufficient concrete cover (total 1sf.). NO CHANGE.

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Secondary:

13) The hot sealant in the longitudinal joints between the slab units is deteriorated which has exposed spalls up to 3in. L x 2in. W x 1/4in. D along the joints (total 200sf.). NO CHANGE.

14) The northwest corner of Slab Unit 2-5 has up to a 3/4in. difference in elevation relative to the adjacent slab units. NO CHANGE.

1080/3 Refer to EIN 1, 5 thru 9 and 11.

1090/3 Refer to EIN 10 and 12.

1130/3 Refer to EIN 2 thru 4.

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	215 / 3	Re Conc Abutment	46	100	0	.	0	.	0	.	46 ft

Element Inspection Notes:

215/3 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	.	0	.	0	.	12	100	12 (EA)

Element Inspection Notes:

228/3 Note: All visible piles have been jacketed and remain in CS4 due to unknown deficiencies prior to being jacketed.

CS4:

1) The visible portions of the piles have weathering splits up to 1/8in. W above the jackets (total 12ea.). NO CHANGE. See Photo 228-S01.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	46	100	0	.	0	.	0	.	46 ft

Element Inspection Notes:

234/3 Note: This element represents the concrete caps above the timber caps. Only the north and south ends of the caps are visible for inspection.

No deficiencies were noted.

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SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	235 / 3	Timber Pier Cap	32	69.57	14	30.43	0	.	0	.	46 ft
0	1170 / 3	Split/Delamination (Timber)	0	.	14	100	0	.	0	.	14 ft

Element Inspection Notes:

235/3

CS2:

1) The timber caps and fascia boards have weathering splits up to 1/16in. W (total 10ft.). NO CHANGE. See Photo 235-S01.

2) Bent 2 cap has a 12in. x 6in. splinter in the east face over Pile 2-4 (total 4ft.). NO CHANGE.

1170/3

Refer to EIN 1 and 2.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8298 / 3	Pile Jacket Bare	0	.	12	100	0	.	0	.	12 (EA)
0	1130 / 3	Cracking (RC and Other)	0	.	12	100	0	.	0	.	12 (EA)

Element Inspection Notes:

8298/3

Note: All visible piles have been jacketed.

CS2:

1) Numerous jackets have vertical cracks up to 4ft. L x 1/8in. W, primarily in the previously patched areas (total 12ea.). NO CHANGE. See Photo 8298-S01.

1130/3

Refer to EIN 1.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8396 / 3	Other Abutment Slope Protection	1080	100	0	.	0	.	0	.	1080 (SF)

Element Inspection Notes:

8396/3

Note: This element represents the rock rubble slope at both end bents.

No deficiencies were noted.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 3	Other Bridge Railing	82	91.11	5	5.56	3	3.33	0	.	90 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	5	62.5	3	37.5	0	.	8 ft

Element Inspection Notes:

333/3

Note: This element represents the concrete post and timber bridge rails along each side of the structure.

CS3:

1) Railing Post 1-1L is completely fractured with efflorescence and is loose (total 1ft.). NEW. See Photo 333-S01.

2) Railing Post 1-2L is fractured around the post and loose at the bottom edge (total

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1ft.). Previously noted with delamination. INCREASE. See Photo 333-S02.

3) Railing Post 1-2R exhibits a spall 14in. H x 5in. W x 2in. D with exposed rebar in the west face (total 1ft.). NEW. See Photo 333-S03.

CS2:

4) Railing Posts 2-1R and 2-2R exhibits delaminations up to 20in. H x 8in. W, in the west face (total 3ft.). NO CHANGE.

5) Railing Post 3-2L exhibits a delamination 20in. H x 8in. W in the east face (total 2ft.). NO CHANGE.

Secondary:

6) There are no bridge rail mounted reflectors provided. NO CHANGE. See Photo 333-S03.

7) There is no object marker at the northwest corner (off-going) of the structure. NO CHANGE. See Photo 333-S04.

8) There is no approach guardrail system at the four corners of the structure. NO CHANGE. See Photo 333-S04.

9) The southeast object marker is leaning towards the west. NEW. See Photo 333-S04.

CORRECTIVE ACTION TAKEN:

The previously noted spall with exposed rebar in the west face of Railing Post 1-1R has been repaired.

The previously noted spall with exposed rebar in the west face of Railing Post 1-2R has been repaired.

The previously noted broken right (south) timber railing at the northeast transition has been repaired.

1080/3 Refer to EIN 1 thru 5.

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: 8 sf Element Estimated Quantity: 8 sq.ft	3
WORK ORDER RECOMMENDATION: Repair spall and delaminated patch at the top of Slab Units 1-2 2-2 2-3 and 3-3.		
1, 2, 3	MMS Quantity: 39 sf Element Estimated Quantity: 39 sq.ft	3
WORK ORDER RECOMMENDATION: Repair spalls and delaminations in Slab Units 1-1 1-2 2-2 3-1 3-2 and 3-4.		

UNIT: 0 SUBSTRUCTURE**ELEMENT/ENV: 235 / 3 Timber Pier Cap****ELEM CATEGORY: Substructure**

CONDITION STATE		PRIORITY
1, 2	MMS Quantity: 8 mh Element Estimated Quantity: 10 ft	3
WORK ORDER RECOMMENDATION: Repair horizontal split in the timber caps.		

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

CONDITION STATE		PRIORITY
1, 2, 3	MMS Quantity: 2 lf Element Estimated Quantity: 2 ft	3
WORK ORDER RECOMMENDATION: Replace loose and fractured Posts 1-1L and 1-2L.		
1, 2, 3	MMS Quantity: 1 lf Element Estimated Quantity: 1 ft	3
WORK ORDER RECOMMENDATION: Install guardrail system at all four corners of the structure as per FDOT Standards and provide reflectors throughout railings.		
1, 2, 3	MMS Quantity: 6 lf Element Estimated Quantity: 6 ft	3
WORK ORDER RECOMMENDATION: Repair spalls and delaminations in Railing Posts 1-2R 2-1R 2-2R and 3-2L.		
1, 2, 3	MMS Quantity: 1 lf Element Estimated Quantity: 1 ft	3
WORK ORDER RECOMMENDATION: Repair the leaning southeast object marker.		

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Structure Notes

BRIDGE OWNER: INDIAN RIVER COUNTY

Bridge inventoried from west to east.

The inventory photos were last updated on 1/8/2018.

Utilities:

There is a 5in. diameter PVC pipe along the south side of the structure.

This Structure is functionally obsolete due to the "Deck Geometry" (Item 68) with a code rating of 2. With two traffic lanes and the current ADT, 1 24ft. roadway width is required to achieve a Deck Geometry code of 4.

INSPECTION NOTES: PUNW 1/20/2020

Sufficiency Rating Calculation Accepted by kn853lm at 2/24/2020 1:29:12 PM

TRAFFIC RESTRICTIONS:

This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 10/24/96. 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 10/24/96, 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 1/20/2020 per R. Wayne McLennon, P.E..

Note: Element No. 301 Pourable Joint Seal (85 ft.) has been removed from the inspection report.

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SOUTH ELEVATION

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EAST APPROACH LOOKING WEST

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

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FORM 850-010-06
MAINTENANCE - 0693
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
D: LOAD CAPACITY INFORMATION

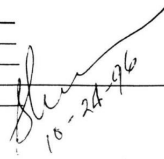
1. **BRIDGE DATA:**
 Bridge Number 880049 Date 10-23-96
 STR Type Main [BMIS Item B1(43)] 101 STR Type APR [BMIS Item B2(44)] 000
2. **POSTING DATE:**
 Posted YES If yes, Existing Posting Needed NO If Yes, Proposed
 Restrictions 33T Restrictions
 BMIS Item H8(41) P BMIS Item H11(70) 5
 BMIS Item H7(31) 1
3. **ANALYSIS DATA:**
 - A. **Method of Analysis:**
 Load Factor
 Working Stress
 - B. **Analysis System:**
 BARS
 SALOD
 BRUFEM
 Load Test
 Other
 - 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
 - E. **Controlling Member Analyzed:**
Material:
 Steel
 Concrete
 Cast in Place
 Precast
 Prestressed
 Post Tensioned
 Timber
 Other _____
Span:
 Simple
 Continuous
 Frame
Slab:
 Non-Composite
 Composite
 - F. **Function:**
 Slab
 Stringer
 Floor Beam
 Girder
 Culvert
 Truss
 - G. **Shape:**
 Rolled
 Built-up Welded
 Built-up Riveted
 Box Shape
 AASHTO Girders
 Other slab
 - H. **Substructure:**
 Bent Construction
 Piling
 Cap
 Pier Construction
 Piling
 Footing
 Column
 Cap

4. **Load Rating Summary Table:**

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	32.30	1.90	1.00	14.17	1.00	M	0.87
SU3	33.00	44.40	1.35	1.00	14.167	1.00	M	0.87
SU4	35.00	42.90	1.23	1.00	14.17	1.00	M	0.87
C3	28.00	53.20	1.90	1.00	14.17	1.00	M	0.87
C4	36.60	49.3	1.35	1.00	14.17	1.00	M	0.87
C5	40.00	53.90	1.35	1.00	14.17	1.00	M	0.87
ST5	40.00	64.70	1.62	1.00	14.17	1.00	M	0.87
HS20	36.00	47.00	1.31	1.00	14.17	1.00	M	0.87

HS 20 Inventory Rating 28.2 Rating Factor .784 Impact Factor .300

5. **Comments:**
MEMBER 1 IS A PRECAST REINFORCED CONCRETE SLAB WITH 3 SPANS 15.0 FT. EACH IN LENGTH.
6. **Computations:**
 Performed By R. OGLESBY Date 10-23-96
 Checked By H. KWOH Date 10-23-96
 Reviewed By _____ Date 10-23-96
7. **Responsible Engineer:** SHUAN H. KWOH Date 10-23-96
 P.E. # 20208



LOAD RATING ANALYSIS SUMMARY

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

Spall/delaminated patch in Slab Unit 2-3 at the top side of the slab in the southwest corner.

REPAIR RECOMMENDATION:

Repair spall and delaminated patch at the top of Slab Units 1-2 2-2 2-3 and 3-3.

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

Transverse cracks in Slab Unit 3-1.

REPAIR RECOMMENDATION:
None.

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

Spall in the south edge of Slab Unit 1-1, 3ft. from End Bent 1.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in Slab Units 1-1 1-2 2-2 3-1 3-2 and 3-4.

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

Spall in the south edge of Slab Unit 1-2, 3ft. from End Bent 1.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in Slab Units 1-1 1-2 2-2 3-1 3-2 and 3-4.

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

Spalls in the south edge of Slab Unit 2-2, 4ft. east of Bent 2.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in Slab Units 1-1 1-2 2-2 3-1 3-2 and 3-4.

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

Spalled patch with no exposed steel in the midspan of Slab Unit 3-1.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in Slab Units 1-1 1-2 2-2 3-1 3-2 and 3-4.

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

Spall in the south edge of Slab Unit 3-2.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in Slab Units 1-1 1-2 2-2 3-1 3-2 and 3-4.

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

Spall in the south edge of Slab Unit 3-4.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in Slab Units 1-1 1-2 2-2 3-1 3-2 and 3-4.

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Photo 228-S01 (unit 0: Timber Pile)

Split in the visible portion of Pile 3-4 above the jacket.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



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

Horizontal split in the east face of Bent 3 cap.

REPAIR RECOMMENDATION:
Repair horizontal split in the timber caps.

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



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

Vertical crack in Pile Jacket 3-6.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



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

Loose and fractured Post 1-1L.

REPAIR RECOMMENDATION:

Replace loose and fractured Posts 1-1L and 1-2L.

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



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

Fractured and loose Railing Post 1-2L.

REPAIR RECOMMENDATION:

Replace loose and fractured Posts 1-1L and 1-2L.

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



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

Spall in Railing Post 1-2R, in the west face.

REPAIR RECOMMENDATION:

Repair spalls and delaminations in Railing Posts 1-2R 2-1R 2-2R and 3-2L.

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



Photo 333-S04 (Unit 0: Other Bridge Railing)

No guardrail system at the west approach. Note no reflectors on the bridge railings and no object marker at the northwest corner.

REPAIR RECOMMENDATION:

Install guardrail system at all four corners of the structure as per FDOT Standards and provide reflectors throughout railings.

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



Photo 333-S05 (Unit 0: Other Bridge Railing)

Southeast object marker leaning towards the west.

REPAIR RECOMMENDATION:

Repair the leaning southeast object marker.

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



NORTH CHANNEL

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

Structure ID: 880049

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 PUNW



SOUTH CHANNEL

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

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

REPORT ID: INSP005

Structure ID: 880049

DATE PRINTED: 2/26/2020

Description

Structure Unit Identification

Bridge/Unit Key: 880049 0
 Structure Name:
 Description: SPANS 1 through 3
 Type: M - Main

Roadway Identification

NBI Structure No (8): 880049
 Position/Prefix (5): 1 - Route On Structure
 Kind Hwy (Rte Prefix): 4 County Hwy
 Design Level of Service: 1 Mainline
 Route Number/Suffix: 00632 / 0 N/A (NBI)
 Feature Intersect (6): LATERAL A CANAL
 Critical Facility: Not Defense-crit
 Facility Carried (7): 65TH ST.
 Mile Point (11): 0.01
 Latitude (16): 027d42'42.8" Long (17): 080d27'44.7"

Roadway Traffic and Accidents

Lanes (28): 2 Medians: 0 Speed: 45 mph
 ADT Class: 2 ADT Class 2
 Recent ADT (29): 800 Year (30): 2020
 Future ADT (114): 1388 Year (115): 2042
 Truck % ADT (109): 4
 Detour Length (19): 2.0 mi
 Detour Speed: 45 mph
 Accident Count: -1 Rate: 0

Roadway Classification

Nat. Hwy Sys (104): 0 Not on NHS
 National base Net (12): 0 - Not on Base Network
 LRS Inventory Rte (13a): 88 590 000 Sub Rte (13b): 00
 Functional Class (26): 17 Urban 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): 21.4 ft
 Horiz. (47): 20 ft Roadway (51): 19.8 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): 7 Minor Damage
 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: 880049

CIDR

DATE PRINTED: 2/26/2020

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): 25FT. EAST OF 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: 0.45 ft Right: 0.45 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): 2 Intolerable - Replace
 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: 01/20/2020
 Inspector: KNTCCMR - Michael Rivera
 Bridge Group: C9S64
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required:

Geometrics

Spans in Main Unit (45): 3
 Approach Spans (46): 0
 Length of Max Span (48): 15 ft
 Structure Length (49): 45 ft
 Total Length: 45 ft
 Deck Area: 958.8 sqft
 Structure Flared (35): 0 No flare

Age and Service

Year Built (27): 1956
 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): 21.3 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: 72
 Health Index: 81.55
 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: 01/20/2022
 Element: 01/20/2022
 Fracture Critical:
 Underwater:
 Other/Special:
 Inventory Photo Update Due: 01/20/2028

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

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

REPORT ID: INSP005

Structure ID: 880049

DATE PRINTED: 2/26/2020

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)	01/20/2020 (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: 1.2 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: No Routes on FIHS
Accepted By Maint: 01/01/1956		Previous Structure:
Warranty Expiration: 00/00/0000		2nd Previous Structure:
Performance Rating: Good		Replacement Structure:
Permitted Utilities: Power <input type="checkbox"/> Water <input type="checkbox"/> Gas <input type="checkbox"/> Fiber Optic <input type="checkbox"/> Sewage <input type="checkbox"/> Other <input checked="" type="checkbox"/> Utility Pipe		

Bridge Load Rating Information

Inventory Type (065): 1 LF Load Factor	Inventory Rating (066): 28.2 tons
Operating Type (063): 1 LF Load Factor	Operating Rating (064): 47.0 tons
Original Design Load (031): 1 M 9 (H 10)	FL120 Permit Rating: -1.0 tons
Date: 10/24/1996	HS20/FL120 Max Span Rating: 47.0 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: 32.3 tons
 SU3: 44.4 tons
 SU4: 42.9 tons
 C3: 53.2 tons
 C4: 49.3 tons
 C5: 53.9 tons
 ST5: 64.7 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: 880049

DATE PRINTED: 2/26/2020

Elements

Inspection Date: 01/20/2020 PUNW

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	38 / 3	Re Concrete Slab	486	50.63	427	44.48	47	4.9	0	.	960 sq.ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	6	12.77	41	87.23	0	.	47 sq.ft
0	1090 / 3	Exposed Rebar	0	.	1	14.29	6	85.71	0	.	7 sq.ft
0	1130 / 3	Cracking (RC and Other)	0	.	420	100	0	.	0	.	420 sq.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	215 / 3	Re Conc Abutment	46	100	0	.	0	.	0	.	46 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	228 / 3	Timber Pile	0	.	0	.	0	.	12	100	12 (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	46	100	0	.	0	.	0	.	46 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	235 / 3	Timber Pier Cap	32	69.57	14	30.43	0	.	0	.	46 ft
0	1170 / 3	Split/Delamination (Timber)	0	.	14	100	0	.	0	.	14 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8298 / 3	Pile Jacket Bare	0	.	12	100	0	.	0	.	12 (EA)
0	1130 / 3	Cracking (RC and Other)	0	.	12	100	0	.	0	.	12 (EA)

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8396 / 3	Other Abutment Slope Protection	1080	100	0	.	0	.	0	.	1080 (SF)

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 3	Other Bridge Railing	82	91.11	5	5.56	3	3.33	0	.	90 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	5	62.5	3	37.5	0	.	8 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: 880049

DATE PRINTED: 2/26/2020

Inspection Information**Inspection Date:** 01/20/2020**Type:** Regular NBI**Inspector:** KNTCCMR - Michael Rivera**Inspection Notes:** Sufficiency Rating Calculation Accepted by kn853lm at 2/24/2020 1:29:12 PM**TRAFFIC RESTRICTIONS:**

This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 10/24/96. 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 10/24/96, 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 1/20/2020 per R. Wayne McLennon, P.E..

Note: Element No. 301 Pourable Joint Seal (85 ft.) has been removed from the inspection report.

Structure Notes

BRIDGE OWNER: INDIAN RIVER COUNTY

Bridge inventoried from west to east.

The inventory photos were last updated on 1/8/2018.

Utilities:

There is a 5in. diameter PVC pipe along the south side of the structure.

This Structure is functionally obsolete due to the "Deck Geometry" (Item 68) with a code rating of 2. With two traffic lanes and the current ADT, 1 24ft. roadway width is required to achieve a Deck Geometry code of 4.

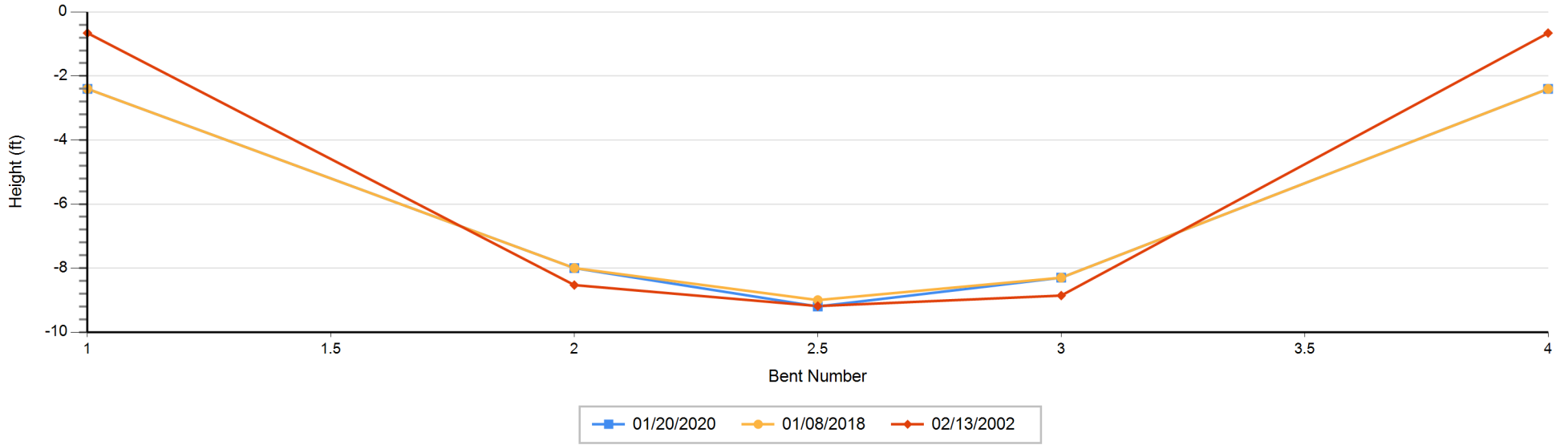
Schedule Notes

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

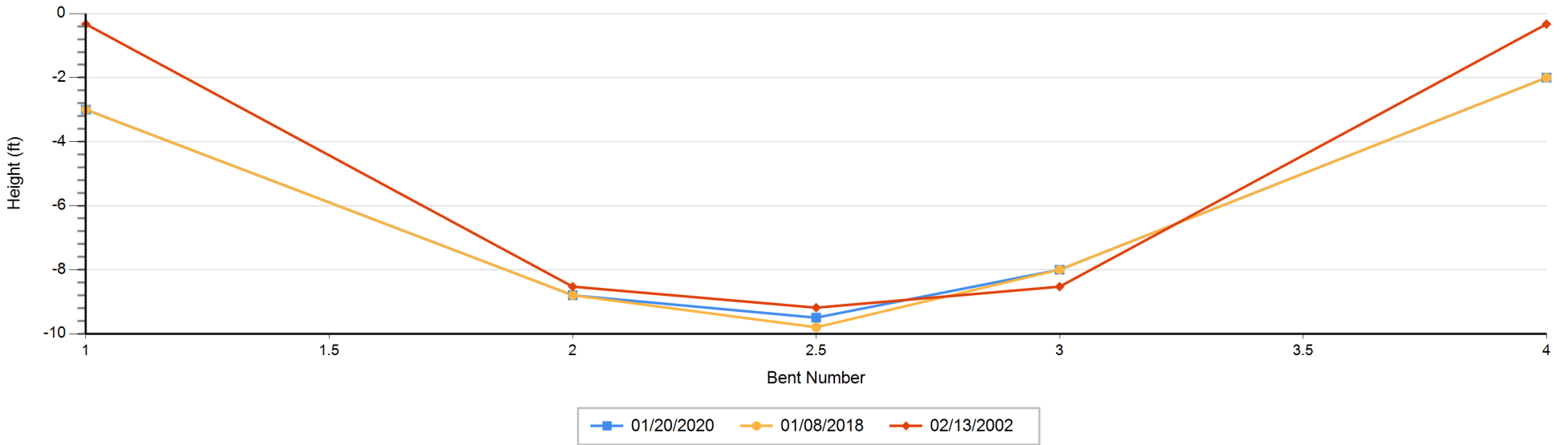
Inspection/CIDR/Bridge Profile Report

Bridge Profile

Left Profile by Inspection



Right Profile by Inspection



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

DATE PRINTED: 2/26/2020 11:57:59 AM

Profile Data - Numerical Summary

Inspection Date and Key: 1/20/2020	PUNW	Bent #	Left Height	Right Height	(All Heights are in Feet)
		1	2.40	3.00	
		2	8.00	8.80	
		2.5	9.20	9.50	
		3	8.30	8.00	
		4	2.40	2.00	

Air Temp:

Profile Notes:

Measurements referenced to the top of the concrete curbs,
 Waterline and Centerline of Channel: Left = 8.8 and Right = 8.8ft.

Inspection Date and Key: 1/8/2018	ZINE	Bent #	Left Height	Right Height	
		1	2.40	3.00	
		2	8.00	8.80	
		2.5	9.00	9.80	
		3	8.30	8.00	
		4	2.40	2.00	

Air Temp: 75

Profile Notes:

Measurements referenced to the top of the concrete curbs,
 Waterline and Centerline of Channel: Left = 7.8 and Right = 8.8ft.

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

Bridge Profile

DATE PRINTED: 2/26/2020 11:57:59 AM

Profile Data - Numerical Summary

Inspection Date and Key: 2/13/2002		QKKL	Bent #	Left Height	Right Height	(All Heights are in Feet)
			1	0.66	0.33	
			2	8.53	8.53	
			2.5	9.19	9.19	
			3	8.86	8.53	
			4	0.66	0.33	

Air Temp:

Profile Notes:

Measurements taken from top of curb