

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

BY: TranSystems Corporation Consultants	STRUCTURE NAME: Not recorded
OWNER: 2 County Hwy Agency	YEAR BUILT: 1951
MAINTAINED BY: 2 County Hwy Agency	SECTION NO.: 88 530 000
STRUCTURE TYPE: 1 Reinforced Concrete - 01 Slab	MP: 3.747
LOCATION: 3.7 MILES NORTH OF SR-60	ROUTE: 00615
SERV. TYPE ON: 1 Highway	FACILITY CARRIED: CR-615 (66TH AVE)
SERV. TYPE UNDER: 5 Waterway	FEATURE INTERSECTED: NORTH RELIEF CANAL

 FUNCTIONALLY OBSOLETE STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 1/20/2020 UNDERWATER: 1/21/2020

SUFFICIENCY RATING: 65.6
HEALTH INDEX: 82.68

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

BY: TranSystems Corporation Consultants
OWNER: 2 County Hwy Agency
MAINTAINED BY: 2 County Hwy Agency
STRUCTURE TYPE: 1 Reinforced Concrete - 01 Slab
LOCATION: 3.7 MILES NORTH OF SR-60
SERV. TYPE ON: 1 Highway
SERV. TYPE UNDER: 5 Waterway

STRUCTURE NAME: Not recorded
YEAR BUILT: 1951
SECTION NO.: 88 530 000
MP: 3.747
ROUTE: 00615
FACILITY CARRIED: CR-615 (66TH AVE)
FEATURE INTERSECTED: NORTH RELIEF 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

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 1/20/2020 UNDERWATER: 1/21/2020

OVERALL NBI RATINGS:

DECK: 7 Good	CHANNEL: 5 Bank Prot Eroded
SUPERSTRUCTURE: 7 Good	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 7 Good	SUFF. RATING: 65.6
PERF. RATING: Good	HEALTH INDEX: 82.68

FIELD PERSONNEL / TITLE / NUMBER:

INITIALS

Rivera, Michael - Bridge Inspector (CBI #00547) (lead)	_____
Norris, Devon – Assistant Bridge Inspector	_____
Padrino, Reinaldo - Senior Diver Bridge Inspector (CBI#242)	_____
Flory, Derek – Assistant Bridge Inspector/Diver	_____
Burgos, Daniel – Assistant Bridge Inspector/Diver	_____

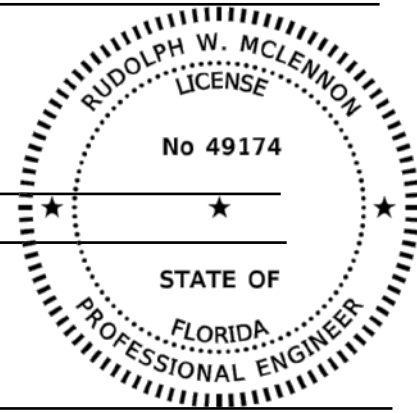
REVIEWING BRIDGE INSPECTION SUPERVISOR:

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.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

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	1734	100	0	.	0	.	0	.	1734 sq.ft
0	510 / 3	Wearing Surfaces	1634	94.23	100	5.77	0	.	0	.	1734 sq.ft
0	3220 / 3	Crack (Wearing Surface)	0	.	100	100	0	.	0	.	100 sq.ft

Element Inspection Notes:

38/3 Note: The top of the slab units are not visible due to an asphalt overlay.

Secondary:

1) The curbs exhibit impact spalls up to 2in. L x 2in. W x 1/2in. D, at the four corners of the bridge. NO CHANGE.

2) Span 1 left (west) curb exhibits an edge spall 2ft. L x 4in. H x 1in. D, along the bottom west edge. NO CHANGE. See Photo 38-S01.

3) Span 2 right (east) curb at Bent 3 outside edge exhibits a spall/delamination 15in. L x 8in. W x 3in. D. NO CHANGE.

4) Span 4 left (west) curb at the last 3 steel bridge rail post connections exhibits spalled/delaminated areas up to 2ft. L x 1ft. W x 1in. D, due to impact damage. Previously noted as steel bridge rail post connection. INCREASE. See Photo 38-S02.

510/3

CS2:

5) The asphalt overlay over End Bents 1 and 5 joints are cracked up to 50ft. L x 1/8in. W (total 50sf.). Previously noted incorrectly with 1/2in. W. NO CHANGE. See Photo 38-S03.

6) There are intermittent transverse cracks up to 8ft. L x 1/8in. W, over the intermediate bents (total 50sf.). NO CHANGE.

3220/3

Refer to EIN 5 and 6.

MISCELLANEOUS : Channel

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8290 / 3	Channel	0	.	1	100	0	.	0	.	1 (EA)
0	9150 / 3	Bank Erosion	0	.	1	100	0	.	0	.	1 (EA)

Element Inspection Notes:

8290/3

CS2:

1) There is a rutted and eroded area, approximately 6ft. L x 3ft. W x 3ft. D, originating at the retaining wall between Piles 5-3 and 5-4, and Piles 5-4 and 5-5. NO CHANGE. See Photo 8290-S01.

2) The north approach slab is undermined between Piles 5-4 and 5-5 at End Bent 5 cap from the groundline to the bottom of the approach slab. NO CHANGE. See Photo 8290-S02.

The following was noted by the underwater inspectors:

CS2:

3) The south slope between Piles 2-2 and 2-3 exhibits undermining 8ft. L x 8in. H x 2ft. D. The underwater photo for this deficiency was taken; however, the underwater visibility was poor. NO CHANGE.

4) There is light amount of floating vegetation throughout the channel which does not restrict the flow. NO CHANGE.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

9150/3 Refer to EIN 1 thru 3.

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	321 / 3	Re Conc Approach Slab	917	99.67	3	0.33	0	.	0	.	920 sq.ft
0	510 / 3	Wearing Surfaces	920	100	0	.	0	.	0	.	920 sq.ft

Element Inspection Notes:

321/3

Secondary:

1) The northeast end post of the bridge rail exhibits a delamination 30in. H x 6in. W with associated cracking up to 1/32in. W (total 3ft.). Previously noted under Element 331. NO CHANGE. See Photo 321-S01.

2) The north approach slab is undermined between Pile 5-4 and 5-5 back behind End Bent 5 cap. Refer to Element 8290 Channel for details. NO CHANGE. See Photo 8290-S02.

3) The southwest and northeast guardrail end terminals exhibit impact damage. Previously noted under Element 330. NO CHANGE.

4) The northwest guardrail exhibits moderate impact damage and the last two timber posts are split in two. Previously noted under Element 330. NO CHANGE.

5) The northeast guardrail, 2nd post from the bridge exhibits a cushion block that is unattached to the guardrail. Previously noted under Element 330. NO CHANGE. See Photo 321-S02.

6) There are no bridge end object markers at the southwest and northeast (off-going) corners of the structure. Previously noted under Element 331. NO CHANGE.

7) The south approach roadway, northbound lane, at the south approach slab exhibits a 4ft. L x 2ft. W x 1-1/2in. D settled area with crumbling asphalt. Sealant has been applied, but the surface continues to deteriorate (total 8sf.). NO CHANGE.

8) There is up to 1/2in. wide cracks and minor crumbling asphalt outlining all four sides of both approach slabs (total 176sf.). NO CHANGE. See Photo 321-S03.

510/3

No deficiencies were noted to the wearing surfaces.

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8476 / 3	Timber Walls	0	.	0	.	33	100	0	.	33 ft
0	1140 / 3	Decay/Section Loss	0	.	0	.	33	100	0	.	33 ft

Element Inspection Notes:

8476/3

Note: At End Bent 5, there is a backwall constructed of plywood and miscellaneous planks.

CS3:

1) End Bent 5 timber backwall between Piles 5-3 and 5-4 has heavy decay and the top 1ft. is missing (total 11ft.) NO CHANGE. See Photo 8290-S01.

2) Between Piles 5-4 and 5-5, the End Bent 5 backwall is completely deteriorated/missing which has allowed backfill to leak out and undermined End Bent 5 and the north approach slab (total 11ft.). NO CHANGE.

3) The plywood and planks exhibit heavy decay throughout (total 11ft.) NO CHANGE.

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.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

Secondary:

4) The northwest end of the bridge rail, 1st timber post exhibits a washout area and water leaking behind End Bent 5 and maybe causing the erosion at End Bent 5. NO CHANGE. See Photo 8476-S01.

1140/3 Refer to EIN 1, 2, and 3.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 3	Re Conc Abutment	54	81.82	12	18.18	0	.	0	.	66 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	1	100	0	.	0	.	1 ft
0	6000 / 3	Scour	0	.	11	100	0	.	0	.	11 ft

Element Inspection Notes:

215/3

CS2:

1) End Bent 5 cap exhibits a spall 3in. L x 1in. W x 1/2in. D, in the bottom southwest corner (total 1ft.). NO CHANGE. See Photo 215-S01.

2) End Bent 1 cap is undermined 5ft. L x 4in. H x 18in. back under (total 5ft.). NO CHANGE. See Photo 215-S02.

3) End Bent 5 cap is undermined up to 6ft. L x 2ft. H x 1ft. back behind the cap between Piles 5-4 and 5-5 (total 6ft.). Refer to Channel Element for details. NO CHANGE.

Secondary:

4) All End Bent 5 piles are exposed up to 3ft. vertically due to the erosion of the channel slope. NO CHANGE.

1080/3 Refer to EIN 1.

6000/3 Refer to EIN 2 and 3.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	227 / 3	Re Conc Pile	2	11.76	11	64.71	4	23.53	0	.	17 (EA)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	4	66.67	2	33.33	0	.	6 (EA)
0	1120 / 3	Efflorescence/Rust Staining	0	.	0	.	2	100	0	.	2 (EA)
0	1190 / 3	Abrasion(PSC/RC)	0	.	7	100	0	.	0	.	7 (EA)

Element Inspection Notes:

227/3

Note: All five piles at End Bent 5 are visible and included in the quantity. The piles are Bents 2, 3 and 4 were inspected by the divers.

CS3:

1) Pile 4-4 northeast corner exhibits a spall 11in. H x 3in. W x 1/2in. D, above the waterline (total 1ea.). NO CHANGE. See Photo 227-S01.

CS2:

2) Piles 3-1, 4-1, 5-4 and 5-5 exhibit edge spalls 2in. H x 1in. W x 1/2in. D, above the waterline (total 3ea.). NO CHANGE.

The following was noted by the underwater inspectors:

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

Cleaning Log: No cleaning due to freshwater environment.

CS3:

3) Pile 2-1, east face exhibits a vertical crack 12in. L x 1/64in. W with corrosion bleed-out, 3ft. 2in. below the cap (total 1ea.). NO CHANGE. See Photo 227-U01.

4) Pile 3-1, southwest corner exhibits a spall 12in. H x 4in. W x 1in. D, 4ft. below the cap. The northwest corner exhibits intermittent spalls up to 18in. H x 6in. W x 3in. D, 3ft. below the cap (total 1ea.) NO CHANGE. See Photo 227-U02.

5) Pile 3-4, south, north, and west faces exhibit delaminations, with associated cracks up to 1/32in. W, up to 14in. H x 7in. W with corrosion bleed-out, 3ft. below the cap (total 1ea.). NO CHANGE. See Photo 227-U03.

6) Pile 4-4, north face exhibits a vertical crack 18in. L x 1/32in. W with corrosion bleed-out, 3ft. below the cap. NO CHANGE.

7) Pile 4-4, southwest corner exhibits a vertical crack 12in. L x 1/16in. W with corrosion bleed-out, 3ft. below the cap. NO CHANGE.

CS2:

8) Pile 3-3, southeast and northeast corners exhibit delaminations, with associated cracks up to 1/32in. W, up to 14in. H x 7in. W, 3ft. below the cap (total 1ea.). NO CHANGE.

9) The intermediate bent piles exhibit scale damage up to 1/8in. D from the high watermark down (total 7ea.). NO CHANGE. See Photo 227-U04.

CS1:

9) The intermediate bent piles (except Pile 3-1) exhibits vertical cracks up to 18in. L x 1/32in. W in one or more faces, 30in. below the cap. NO CHANGE.

1080/3 Refer to EIN 1, 2, 4 and 8.

1120/3 Refer to EIN 3 and 5.

1190/3 Refer to EIN 9.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	79	96.34	3	3.66	0	.	0	.	82 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	3	100	0	.	0	.	3 ft

Element Inspection Notes:

234/3

CS2:

1) There are 3 spalls up to 4in. L x 4in. W x 1/2in. D with no exposed steel in the bottom west face of Bents 2, 3 and 4 (total 3ft.). NO CHANGE.

1080/3

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	556	93.92	36	6.08	0	.	0	.	592 (SF)
0	4000 / 3	Settlement	0	.	36	100	0	.	0	.	36 (SF)

Element Inspection Notes:

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.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

8396/3 Note: This element represents the sand-cement rip rap bag slope protection at End Bent 1.

CS2:

1) The south slope exhibits an area of settlement 5ft. L x 4ft. W, near the centerline (total 20sf.). NO CHANGE. See Photo 8396-S01.

The following was noted by the underwater inspectors:

CS2:

2) The south slope between Piles 2-2 and 2-3 exhibits undermining 8ft. L x 8in. H x 2ft. D. The underwater photo for this deficiency was taken; however, underwater visibility was poor (total 16sf.). NO CHANGE.

4000/3 Refer to EIN 1 and 2.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	330 / 3	Metal Bridge Railing	84	70	36	30	0	.	0	.	120 ft
0	1000 / 3	Corrosion	0	.	10	100	0	.	0	.	10 ft
0	1900 / 3	Distortion	0	.	26	100	0	.	0	.	26 ft
0	7000 / 3	Damage	0	.	26	100	0	.	0	.	26 ft

Element Inspection Notes:

330/3 Note: This element represents the guardrail with steel posts that are along both sides of the structure.

CS2:

1) The anchor bolts for the rail posts mounted to the bridge exhibit corrosion (total 10ft.). NO CHANGE.

2) The left bridge rail in Span 4 has impact damage (total 10ft.). NO CHANGE. See Photo 330-01.

3) The right bridge rail in Spans 1 and 3 has up to 10ft. L impact damage (total 16ft.). NO CHANGE.

1000/3 Refer to EIN 1.

1900/3 Refer to EIN 2 and 3.

7000/3 Refer to EIN 2 and 3.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	331 / 3	Re Conc Bridge Railing	120	100	0	.	0	.	0	.	120 ft

Element Inspection Notes:

331/3 No deficiencies were noted.

Total Number of Elements*: 10

*excluding defects/protective systems

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

Inspector Recommendations

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

CONDITION STATE		PRIORITY
1	MMS Quantity: 2 sf Element Estimated Quantity: 2 sq.ft	3
WORK ORDER RECOMMENDATION: Repair spall in Span 1 left west curb.		
1	MMS Quantity: 2 sf Element Estimated Quantity: 2 sq.ft	3
WORK ORDER RECOMMENDATION: Repair spalls delaminations in the left curb in Span 4.		

UNIT: 0 MISCELLANEOUS**ELEMENT/ENV: 8290 / 3 Channel****ELEM CATEGORY: Channel**

CONDITION STATE		PRIORITY
2	MMS Quantity: 2 mh Element Estimated Quantity: 1 (EA)	3
WORK ORDER RECOMMENDATION: Repair eroded area at End Bent 5 between Piles 5-3 and 5-4 and Piles 5-4 and 5-5.		
2	MMS Quantity: 2 mh Element Estimated Quantity: 1 (EA)	3
WORK ORDER RECOMMENDATION: Repair undermined north approach slab behind End Bent 5 cap between Piles 5-4 and 5-5.		

ELEMENT/ENV: 8476 / 3 Timber Walls**ELEM CATEGORY: Other Elements**

CONDITION STATE		PRIORITY
3	MMS Quantity: 8 mh Element Estimated Quantity: 1 ft	3
WORK ORDER RECOMMENDATION: Repair or replace timber walls at End Bent 5.		
3	MMS Quantity: 2 mh Element Estimated Quantity: 11 ft	3
WORK ORDER RECOMMENDATION: Repair washout areas on the northwest end of bridge rail 1st timber post.		

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

Inspector Recommendations

UNIT: 0 SUBSTRUCTURE**ELEMENT/ENV: 215 / 3 Re Conc Abutment****ELEM CATEGORY: Substructure**

CONDITION STATE	MMS Quantity: 2 mh Element Estimated Quantity: 5 ft	PRIORITY
1 , 2		3
WORK ORDER RECOMMENDATION: Repair undermining at End Bents 1 and 5 cap.		

ELEMENT/ENV: 227 / 3 Re Conc Pile**ELEM CATEGORY: Substructure**

CONDITION STATE	MMS Quantity: 16 mh Element Estimated Quantity: 17 (EA)	PRIORITY
1 , 2 , 3		3
WORK ORDER RECOMMENDATION: Repair cracking in all piles.		

ELEMENT/ENV: 8396 / 3 Other Abutment Slope Protection**ELEM CATEGORY: Substructure**

CONDITION STATE	MMS Quantity: 2 mh Element Estimated Quantity: 20 (SF)	PRIORITY
1 , 2		3
WORK ORDER RECOMMENDATION: Repair settled area at End Bent 1 slope protection.		

UNIT: 0 SUPERSTRUCTURE**ELEMENT/ENV: 330 / 3 Metal Bridge Railing****ELEM CATEGORY: Superstructure**

CONDITION STATE	MMS Quantity: 26 lf Element Estimated Quantity: 26 ft	PRIORITY
1 , 2		3
WORK ORDER RECOMMENDATION: Repair or replace damaged guardrails in Spans 1, 3 and 4.		

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

Structure Notes

BRIDGE OWNER: INDIAN RIVER COUNTY

Bridge inventoried from south to north.

The inventory photos were last updated on 01/23/2018.

Asphalt thickness = 5in.

This structure is classified as Functionally Obsolete due to a Deck Geometry (Item 68) with a code rating of 2. The minimum required "roadway width" based on the number of lanes (2) for a rating of 4 is 32.2ft. for this structure.

Utilities:

There is one 12in. ductile iron utility pipe along the right (east) side of the structure.

The following elements were inspected underwater by the divers:

227 R/Conc Pilen - Bents 2 through 4 each with four 12in. piles

8396 Other Abut Slope Pro

8290 Channel

INSPECTION NOTES: LULV 1/20/2020

Sufficiency Rating Calculation Accepted by kn853lm at 2/25/2020 9:34:24 AM

TRAFFIC RESTRICTIONS: This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 5/23/1996. 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 5/23/1996, 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 01/20/2020 per R. Wayne McLennon, P.E..

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



WEST ELEVATION

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



NORTH APPROACH LOOKING SOUTH

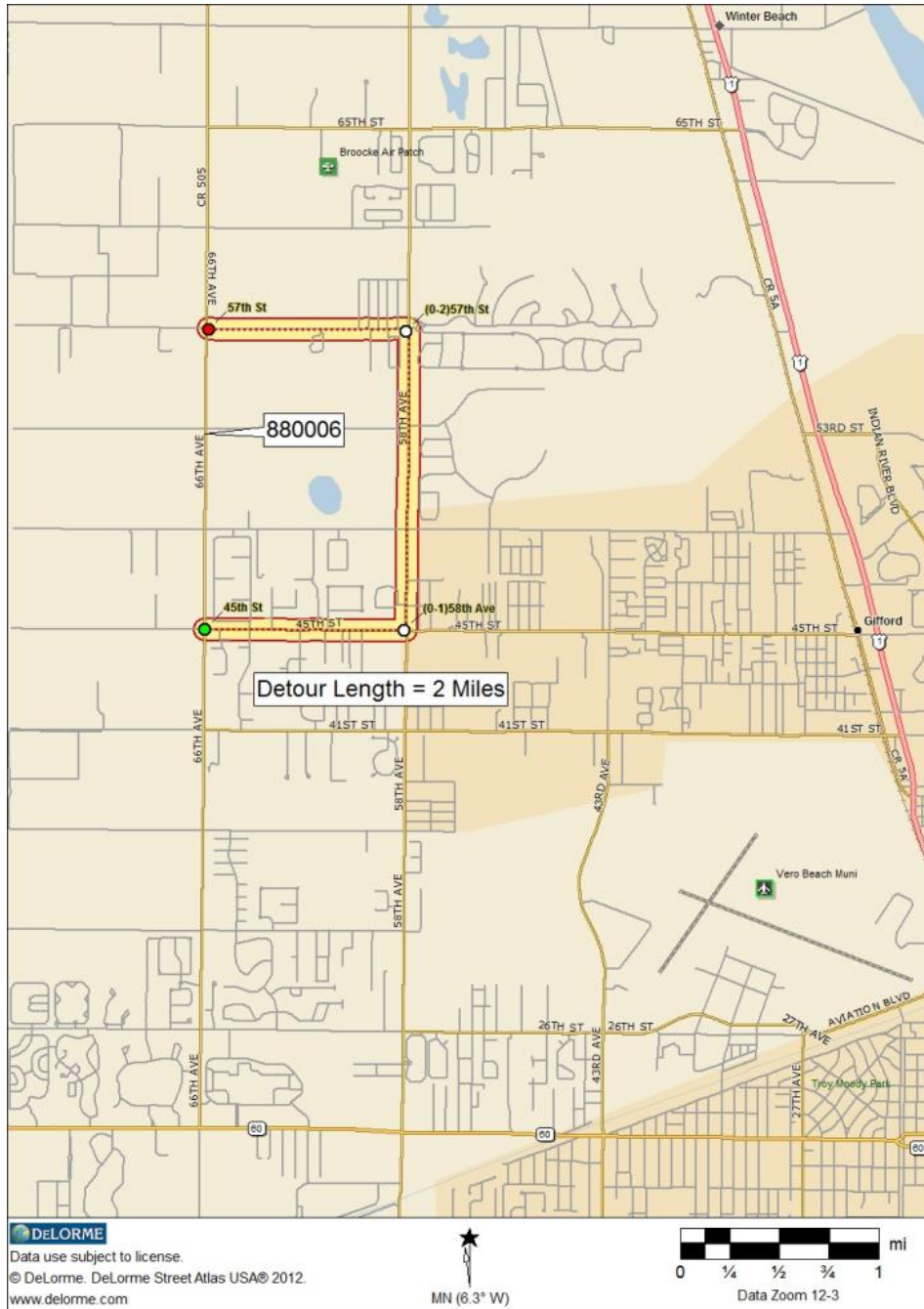
This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes. Only the cover page of this report may be inspected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

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



LOCATION MAP

CR-615 (66th Ave) over North Relief Canal - 3.7 Miles North of SR-60

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.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV

FORM 850-010-06
MAINTENANCE - 06/93
Page 1 of 2

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
D: LOAD CAPACITY INFORMATION

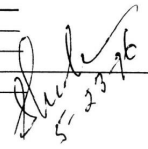
1. **BRIDGE DATA:**
 Bridge Number 880006 Date 05-19-96
 STR Type Main [BMIS Item B1(43)] 101 STR Type APR [BMIS Item B2(44)] 000
2. **POSTING DATE:**
 Posted NO If yes, Existing Posting Needed NO If Yes, Proposed
 Restrictions _____ Restrictions _____
 BMIS Item H8(41) A BMIS Item H11(70) 5
 BMIS Item H7(31) 2
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:	Function:	Substructure:
<input type="checkbox"/> Steel	<input checked="" type="checkbox"/> Slab	<input type="checkbox"/> Bent Construction
<input type="checkbox"/> Concrete	<input type="checkbox"/> Stringer	<input type="checkbox"/> Piling
<input checked="" type="checkbox"/> Cast in Place	<input type="checkbox"/> Floor Beam	<input type="checkbox"/> Cap
<input type="checkbox"/> Precast	<input type="checkbox"/> Girder	<input type="checkbox"/> Pier Construction
<input type="checkbox"/> Prestressed	<input type="checkbox"/> Culvert	<input type="checkbox"/> Piling
<input type="checkbox"/> Post Tensioned	<input type="checkbox"/> Truss	<input type="checkbox"/> Footing
<input type="checkbox"/> Timber		<input type="checkbox"/> Column
<input type="checkbox"/> Other _____		<input type="checkbox"/> Cap
Span:	Shape:	
<input checked="" type="checkbox"/> Simple	<input type="checkbox"/> Rolled	
<input type="checkbox"/> Continuous	<input type="checkbox"/> Built-up Welded	
<input type="checkbox"/> Frame	<input type="checkbox"/> Built-up Riveted	
Slab:	<input type="checkbox"/> Box Shape	
<input checked="" type="checkbox"/> Non-Composite	<input type="checkbox"/> AASHTO Girders	
<input type="checkbox"/> Composite	<input checked="" type="checkbox"/> Other <u>slab</u>	
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	28.70	1.69	1.00	14.17	1.00	M	0.21
SU3	33.00	39.40	1.20	1.00	14.17	1.00	M	0.21
SU4	35.00	38.10	1.09	1.00	14.17	1.00	M	0.21
C3	28.00	47.20	1.69	1.00	14.17	1.00	M	0.21
C4	36.60	43.80	1.20	1.00	14.17	1.00	M	0.21
C5	40.00	47.80	1.20	1.00	14.17	1.00	M	0.21
ST5	40.00	57.40	1.44	1.00	14.17	1.00	M	0.21
HS20	36.00	41.70	1.16	1.00	14.17	1.00	M	0.21

HS 20 Inventory Rating 25.0 Rating Factor .696 Impact Factor .300

5. **Comments:**
MEMBER 1 IS A REINFORCED CONCRETE SLAB WITH 4 SPANS OF VARYING LENGTH.
6. **Computations:**
 Performed By R. OGLESBY Date 05-19-96
 Checked By H. KWOH Date 05-19-96
 Reviewed By _____ Date 05-19-96
7. **Responsible Engineer:** SHUAN H. KWOH Date 05-19-96
 P.E. # 20208



LOAD RATING ANALYSIS SUMMARY

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.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



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

Spall in Span 1 left (west) curb along the bottom west edge.

REPAIR RECOMMENDATION:
Repair spall in Span 1 left west curb.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



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

Spall/delamination on the left curb of Span 4 due to impact damage.

REPAIR RECOMMENDATION:

Repair spalls delaminations in the left curb in Span 4.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



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

Transverse crack in the asphalt overlay over End Bent 1.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 8290-S01 (Unit 0: Channel) & (Unit 0: Timber Walls)

Rutted and eroded area at End Bent 5. Note missing and decay on timber walls.

REPAIR RECOMMENDATION:

Repair eroded area at End Bent 5 between Piles 5-3 and 5-4 and Piles 5-4 and 5-5.

Repair or replace timber walls at End Bent 5.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 8290-S02 (Unit 0: Channel) & (Unit 0: Re Conc Approach Slab)

Undermining at End Bent 5 cap between Piles 5-4 and 5-5 and undermining at the north approach slab behind End Bent 5.

REPAIR RECOMMENDATION:

Repair undermined north approach slab behind End Bent 5 cap between Piles 5-4 and 5-5.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



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

Delamination on the northeast end post.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



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

Unattached cushion block on the northeast guardrail, 2nd post from the bride to the guardrail.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 321-S03 (Unit 0: Re Conc Approach Slab)

Cracks in the east side of the asphalt outlining at the south approach slab.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 8476-S01 (Unit 0: Timber Walls)

Washout at the 1st timber post at the northwest end of the bridge rail.

REPAIR RECOMMENDATION:

Repair washout areas on the northwest end of bridge rail 1st timber post.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 215-S01 (Unit 0: Re Conc Abutment)

Spall in the bottom southwest corner of End Bent 5 cap.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 215-S02 (Unit 0: Re Conc Abutment)

Undermining at End Bent 1 cap.

REPAIR RECOMMENDATION:

Repair undermining at End Bents 1 and 5 cap.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 227-S01 (Unit 0: Re Conc Pile)

Spall in the northwest corner of Pile 4-4.

REPAIR RECOMMENDATION:
None.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 227-U01 (Unit 0: Re Conc Pile)

Crack with corrosion on the east face of Pile 2-1.

REPAIR RECOMMENDATION:
Repair cracking in all piles.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 227-U02 (Unit 0: Re Conc Pile)

Spalls in the southwest and northwest corners of Pile 3-1.

REPAIR RECOMMENDATION:
Repair cracking in all piles.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 227-U03 (Unit 0: Re Conc Pile)

Cracks with corrosion at the north, south and west faces of Pile 3-4.

REPAIR RECOMMENDATION:
Repair cracking in all piles.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 227-U04 (Unit 0: Re Conc Pile)

Typical scale damage on piles at Bents 2, 3 and 4.

REPAIR RECOMMENDATION:
Repair cracking in all piles.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 8396-S01 (Unit 0: Other Abutment Slope Protection)

Settlement at End Bent 1 slope protection near the centerline.

REPAIR RECOMMENDATION:

Repair settled area at End Bent 1 slope protection.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



Photo 330-S01 (Unit 0: Metal Bridge Railing)

Impact damage to the left rail in Span 4. Failed galvanized coating.

REPAIR RECOMMENDATION:

Repair or replace damaged guardrails in Spans 1, 3 and 4.

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

Structure ID: 880006

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 1/20/2020 LULV



WEST CHANNEL

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

Inspection/CIDR/Bridge Profile Report

REPORT ID: INSP005

Structure ID: 880006

CIDR

DATE PRINTED: 2/26/2020

Description

Structure Unit Identification

Bridge/Unit Key: 880006 0

Structure Name:

Description: SPANS 1 THROUGH 4

Type: M - Main

Roadway Identification

NBI Structure No (8): 880006

Position/Prefix (5): 1 - Route On Structure

Kind Hwy (Rte Prefix): 4 County Hwy

Design Level of Service: 1 Mainline

Route Number/Suffix: 00615 / 0 N/A (NBI)

Feature Intersect (6): NORTH RELIEF CANAL

Critical Facility: Not Defense-crit

Facility Carried (7): CR-615 (66TH AVE)

Mile Point (11): 3.747

Latitude (16): 027d41'36.6" Long (17): 080d27'45.8"

Roadway Traffic and Accidents

Lanes (28): 2 Medians: 0 Speed: 55 mph

ADT Class: 3 ADT Class 3

Recent ADT (29): 6600

Year (30): 2020

Future ADT (114): 11451

Year (115): 2042

Truck % ADT (109): 4

Detour Length (19): 2.0 mi

Detour Speed: 55 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): 88 530 000 Sub Rte (13b): 00

Functional Class (26): 16 Urban Minor Arterial

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): 25.3 ft

Horiz. (47): 23.9 ft

Roadway (51): 23.9 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): 5 Bank Prot Eroded

Deck (58): 7 Good

Superstructure (59): 7 Good

Substructure (60): 7 Good

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: 880006

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): 3.7 MILES NORTH OF SR-60
 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 ft Right: 0 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): 4
 Approach Spans (46): 0
 Length of Max Span (48): 15 ft
 Structure Length (49): 60 ft
 Total Length: 100 ft
 Deck Area: 1734 sqft
 Structure Flared (35): 0 No flare

Age and Service

Year Built (27): 1951
 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): 28.9 ft
 Skew (34): 0 deg
 Deck Type (107): 1 Concrete-Cast-in-Place
 Surface (108): 6 Bituminous
 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: 65.6
 Health Index: 82.68
 Structural Eval (67): 5 Above Min Tolerable
 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: 01/20/2022
 Other/Special:
 Inventory Photo Update Due: 01/23/2028

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

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

REPORT ID: INSP005

Structure ID: 880006

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: 4
Underwater	<input checked="" type="checkbox"/>	24 mos	01/21/2020		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: 6
					Special Equip Hours: 6

Bridge Related

General Bridge Information

Parallel Bridge Seq:		Bridge Rail 1: Concrete post & beam
Channel Depth: 4.7 ft		Bridge Rail 2: Steel guard/steel post
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: 01/01/1951		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): 25.0 tons
Operating Type (063): 1 LF Load Factor	Operating Rating (064): 41.7 tons
Original Design Load (031): 2 M 13.5 (H 15)	FL120 Permit Rating: -1.0 tons
Date: 05/23/1996	HS20/FL120 Max Span Rating: 41.7 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: 28.7 tons
 SU3: 39.4 tons
 SU4: 38.1 tons
 C3: 47.2 tons
 C4: 43.8 tons
 C5: 47.8 tons
 ST5: 57.4 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: 880006

DATE PRINTED: 2/26/2020

Elements

Inspection Date: 01/20/2020 LULV

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	38 / 3	Re Concrete Slab	1734	100	0	.	0	.	0	.	1734 sq.ft
0	510 / 3	Wearing Surfaces	1634	94.23	100	5.77	0	.	0	.	1734 sq.ft
0	3220 / 3	Crack (Wearing Surface)	0	.	100	100	0	.	0	.	100 sq.ft

MISCELLANEOUS : Channel

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8290 / 3	Channel	0	.	1	100	0	.	0	.	1 (EA)
0	9150 / 3	Bank Erosion	0	.	1	100	0	.	0	.	1 (EA)

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	321 / 3	Re Conc Approach Slab	917	99.67	3	0.33	0	.	0	.	920 sq.ft
0	510 / 3	Wearing Surfaces	920	100	0	.	0	.	0	.	920 sq.ft

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8476 / 3	Timber Walls	0	.	0	.	33	100	0	.	33 ft
0	1140 / 3	Decay/Section Loss	0	.	0	.	33	100	0	.	33 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 3	Re Conc Abutment	54	81.82	12	18.18	0	.	0	.	66 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	1	100	0	.	0	.	1 ft
0	6000 / 3	Scour	0	.	11	100	0	.	0	.	11 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	227 / 3	Re Conc Pile	2	11.76	11	64.71	4	23.53	0	.	17 (EA)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	4	66.67	2	33.33	0	.	6 (EA)
0	1120 / 3	Efflorescence/Rust Staining	0	.	0	.	2	100	0	.	2 (EA)
0	1190 / 3	Abrasion(PSC/RC)	0	.	7	100	0	.	0	.	7 (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	79	96.34	3	3.66	0	.	0	.	82 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	3	100	0	.	0	.	3 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8396 / 3	Other Abutment Slope Protection	556	93.92	36	6.08	0	.	0	.	592 (SF)
0	4000 / 3	Settlement	0	.	36	100	0	.	0	.	36 (SF)

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	330 / 3	Metal Bridge Railing	84	70	36	30	0	.	0	.	120 ft
0	1000 / 3	Corrosion	0	.	10	100	0	.	0	.	10 ft

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.

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

Inspection/CIDR/Bridge Profile Report

REPORT ID: INSP005

Structure ID: 880006

CIDR

DATE PRINTED: 2/26/2020

0	1900 / 3	Distortion	0	.	26	100	0	.	0	.	26 ft
0	7000 / 3	Damage	0	.	26	100	0	.	0	.	26 ft

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	331 / 3	Re Conc Bridge Railing	120	100	0	.	0	.	0	.	120 ft

Total Number of Elements*: 10

*excluding defects/protective systems

Inspection Information**Inspection Date:** 01/20/2020**Type:** Regular NBI**Inspector:** KNTCCMR - Michael Rivera**Inspection Notes:** Sufficiency Rating Calculation Accepted by kn853lm at 2/25/2020 9:34:24 AM

TRAFFIC RESTRICTIONS: This structure currently requires no weight restriction posting as per the results of the most recent load analysis dated 5/23/1996. 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 5/23/1996, 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 01/20/2020 per R. Wayne McLennon, P.E..

Structure Notes

BRIDGE OWNER: INDIAN RIVER COUNTY

Bridge inventoried from south to north.

The inventory photos were last updated on 01/23/2018.

Asphalt thickness = 5in.

This structure is classified as Functionally Obsolete due to a Deck Geometry (Item 68) with a code rating of 2. The minimum required "roadway width" based on the number of lanes (2) for a rating of 4 is 32.2ft. for this structure.

Utilities:

There is one 12in. ductile iron utility pipe along the right (east) side of the structure.

The following elements were inspected underwater by the divers:

227 R/Conc Pilen - Bents 2 through 4 each with four 12in. piles

8396 Other Abut Slope Pro

8290 Channel

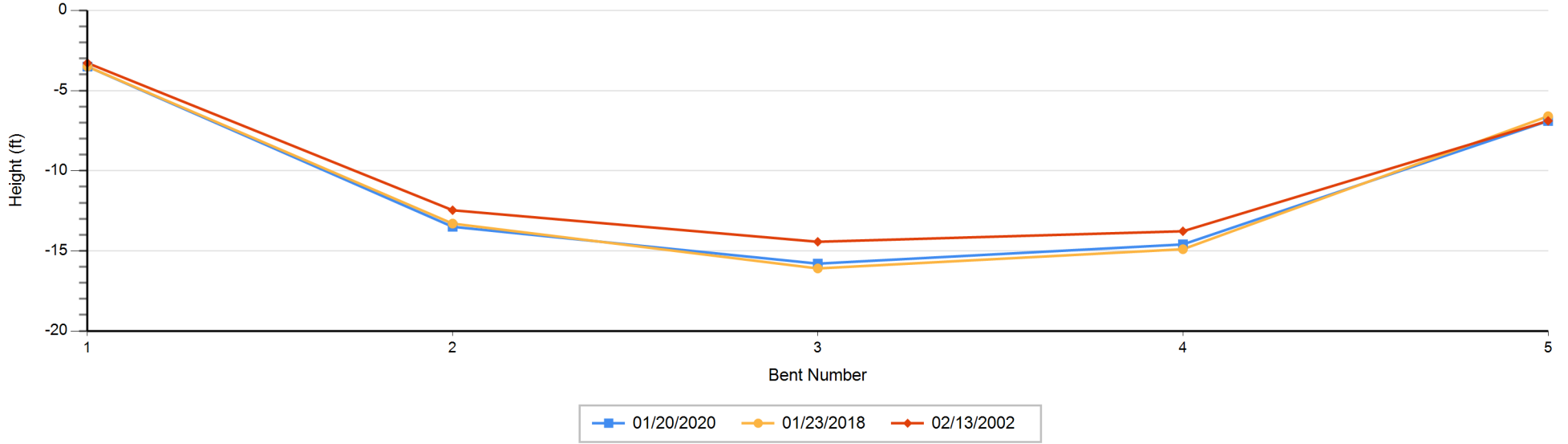
Schedule Notes

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

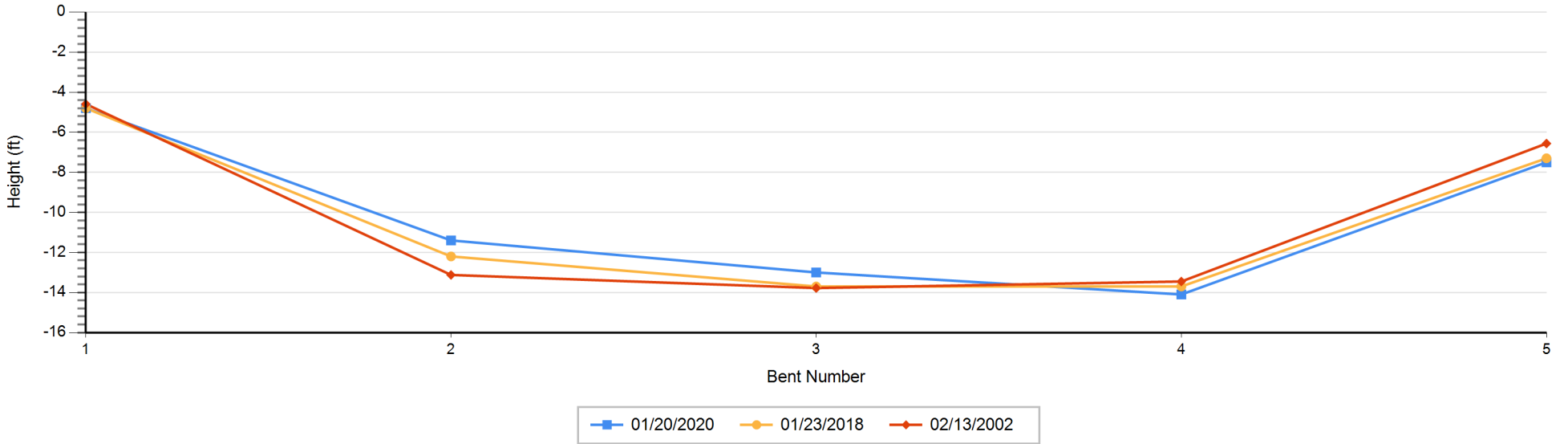
Inspection/CIDR/Bridge Profile Report

Bridge Profile

Left Profile by Inspection



Right Profile by Inspection



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

Profile Data - Numerical Summary

Inspection Date and Key: 1/20/2020		Bent #	Left Height	Right Height	(All Heights are in Feet)
	LULV	1	3.50	4.80	
		2	13.50	11.40	
		3	15.80	13.00	
		4	14.60	14.10	
		5	6.90	7.50	

Air Temp: 76

Profile Notes:

Measurements were taken from the top of the concrete bridge rails.
 Waterline at Bent 4: Left and Right = 11.1 ft.

Inspection Date and Key: 1/23/2018 RDGN

1	3.50	4.80
2	13.30	12.20
3	16.10	13.70
4	14.90	13.70
5	6.60	7.30

Air Temp: 80

Profile Notes:

Measurements were taken at the top of the concrete bridge rails.
 Waterline at Bent 4: Left = 11.9 ft. and Right = 12.0 ft.

REPORT ID : INSP005
Structure ID : 880006

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

DATE PRINTED: 2/26/2020 9:42:06 AM

Profile Data - Numerical Summary

Inspection Date and Key: 2/13/2002		FKDO	Bent #	Left Height	Right Height	(All Heights are in Feet)
			1	3.28	4.59	
			2	12.47	13.12	
			3	14.44	13.78	
			4	13.78	13.45	
			5	6.89	6.56	

Air Temp:

Profile Notes:

Measurements taken from top of bridge rail