

# EXHIBIT I



# BRIDGE INSPECTION REPORT

PREPARED FOR: FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE OWNER: LEE COUNTY



INSPECTED BY:



BRIDGE NO. 124115

CONTENTS OF REPORT

INSPECTION DATE: 11/30/2009

Pontis Report

U/W Inspection Report

CIDR

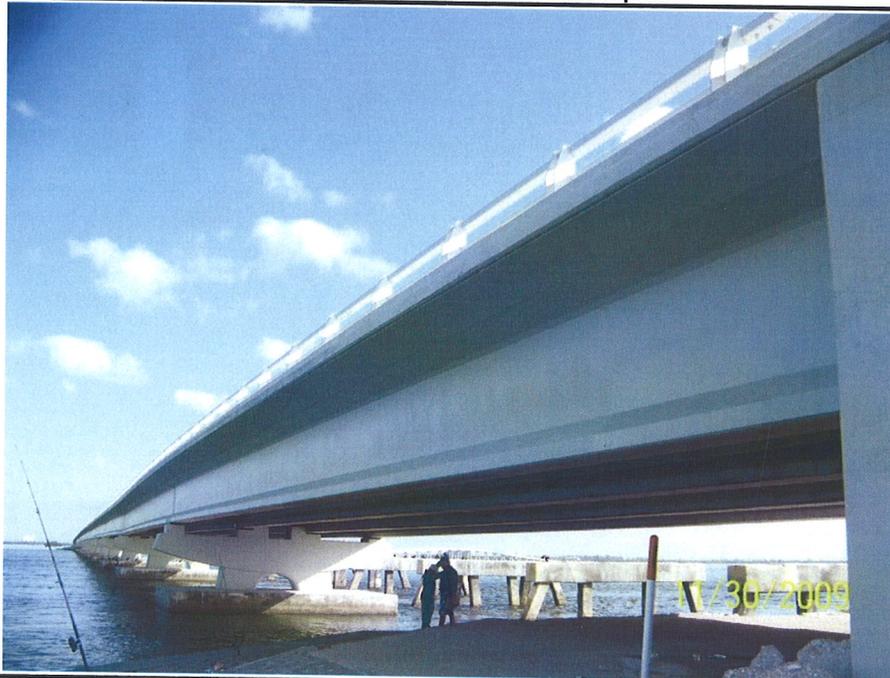
\* Fracture Critical Data

Scour Elevation (Profile)

\* Load Rating Analysis Summary

\* Addendum (Element Notes & Photos/Sketches)

\*This section is not included in this report.



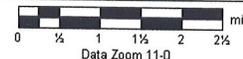
CR-867 over San Carlos Bay (Sanibel Structure B)

Second Structure South of the Toll Plaza



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MN (4.8° W)



FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM  
Inspection Report with PDF attachment(s)

BRIDGE ID: 124115  
DISTRICT: 01 Bartow

PAGE: 1 OF 10  
INSPECTION DATE: 11/30/2009 JXNS

BY: KCA  
OWNER: 2 County Hwy Agency  
MAINTAINED BY: 2 County Hwy Agency  
STRUCTURE TYPE: 6 P/S Conc Continuous 02 Stringer/Girder  
LOCATION: 2ND STRUC S OF TOLL PLAZA  
SERVICE TYPE ON: 1 Highway  
SERV TYPE UND: 5 Waterway

STRUCTURE NAME: STRUCTURE B SANIBEL CAUSEW  
YEAR BUILT: 2007  
SECTION NO.: 12 000 000  
MP: 0  
ROUTE: 00867  
FACILITY CARRIED: CR-867  
FEATURE INTERSECTED: SAN CARLOS BAY

FUNCTIONALLY OBSOLETE       STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 11/30/2009    UNDERWATER: 10/06/2009

SUFFICIENCY RATING: 79.0  
HEALTH INDEX: 99.31

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 Report with PDF attachment(s)

BRIDGE ID: 124115  
DISTRICT: 01 Bartow

PAGE: 2 OF 10  
INSPECTION DATE: 11/30/2009 JXNS

BY: KCA  
OWNER: 2 County Hwy Agency  
MAINTAINED BY: 2 County Hwy Agency  
STRUCTURE TYPE: 6 P/S Conc Continuous 02 Stringer/Girder  
LOCATION: 2ND STRUC S OF TOLL PLAZA  
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SERV TYPE UND: 5 Waterway

STRUCTURE NAME: STRUCTURE B SANIBEL CAUSEW  
YEAR BUILT: 2007  
SECTION NO.: 12 000 000  
MP: 0  
ROUTE: 00867  
FACILITY CARRIED: CR-867  
FEATURE INTERSECTED: SAN CARLOS BAY

- 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: 11/30/2009    UNDERWATER: 10/06/2009

SMART FLAGS:  
None

OVERALL NBI RATINGS:  
DECK: 8 Very Good  
SUPERSTRUCTURE: 7 Good  
SUBSTRUCTURE: 8 Very Good  
CHANNEL: 7 Minor Damage  
CULVERT: N N/A (NBI)  
SUFFICIENCY RATING: 79.0  
HEALTH INDEX: 99.31  
PERFORMANCE RATING: Good

FIELD PERSONNEL / TITLE / NUMBER	INITIALS
O'Grady, John - Bridge Inspector (CBI# 00344) (lead)	
Carreno, Fernando - BI Tech	_____
Hays, Stephen - Bridge Inspector (CBI#00438)/Lead Diver	_____
Myers, Jared - Diver/Inspector	_____
Harris, Scott - Diver/Inspector	_____

REVIEWING BRIDGE INSPECTION SUPERVISOR: \_\_\_\_\_  
Crissey, Dave - Bridge Inspector (CBI #00321) 

CONFIRMING REGISTERED PROFESSIONAL ENGINEER: \_\_\_\_\_

LoCicero, Thomas - PE #31136  
Kisinger Campo & Associates  
9270 Bay Plaza Blvd., Suite 605  
Certificate of Authorization #2317  
Tampa, FL 33619

SIGNATURE:  \_\_\_\_\_  
DATE: 11/8/10 \_\_\_\_\_

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**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM**

**Inspection Report with PDF attachment(s)**

BRIDGE ID: 124115  
DISTRICT: 01 Bartow

PAGE: 3 OF 10  
INSPECTION DATE: 11/30/2009 JXNS

**All Elements**

**UNIT: Structure Unit 1 DECKS**

**ELEMENT/ENV: 12/4 Bare Concrete Deck      80684 sf.      ELEM CATEGORY: Decks/Slabs**

CONDITION STATE (5)	DESCRIPTION	QUANTITY
1	The surface and underside of the deck have few repaired areas, there are few spalls/delaminations in the deck surface or underside and the only cracking is superficial or surface map cracking. The combined distressed area is 2% or less of the deck area.	80684 sf.

**ELEMENT INSPECTION NOTES:**

Note: Two 4-1/2in. diameter fiberglass conduits and one 3-1/2in. diameter PVC conduit are suspended from hangers anchored to the underside of Bay 1 in all spans. Refer to photo 1. The type of anchorage for the utility hangers is unknown.

CS1 = There is a light accumulation of dirt and debris in the shoulder areas - NEW.

The undersides of the overhangs have full width x up to 1/64in. wide transverse cracks, some with efflorescence - NEW.

**ELEMENT/ENV: 300/4 Strip Seal Exp Joint      216 lf.      ELEM CATEGORY: Joints**

CONDITION STATE (3)	DESCRIPTION	QUANTITY
1	The element shows minimal deterioration. There is no leakage at any point along the joint. Gland is secure and has no defects. Debris in joint is not causing any problems. The adjacent deck and/or header is sound.	216 lf.

**ELEMENT INSPECTION NOTES:**

Note: Joints are present at Abutments 1 and 14 and Piers 4, 7 and 10.

CS1 = The joints are filling with dirt and debris, but are functioning as intended at this time - NEW. Refer to photo 2.

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**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM**

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BRIDGE ID: 124115  
DISTRICT: 01 Bartow

PAGE: 4 OF 10  
INSPECTION DATE: 11/30/2009 JXNS

**All Elements**

**UNIT: Structure Unit 1 SUPERSTRUCTURE**

**ELEMENT/ENV: 334/4 Metal Rail Coated      3744 lf.      ELEM CATEGORY: Railing**

CONDITION STATE (5)	DESCRIPTION	QUANTITY
1	There is no evidence of active corrosion. Protective coating is sound and functioning as intended to protect the element.	3744 lf.

**ELEMENT INSPECTION NOTES:**

Note: Barriers meet NCHRP TL4 criteria and meet SIA Item #36 standards.

**ELEMENT/ENV: 109/4 P/S Conc Open Girder      7488 lf.      ELEM CATEGORY: Superstructure**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	7488 lf.

**ELEMENT INSPECTION NOTES:**

CS1 = The beams have multiple diagonal web cracks up to 4ft. long x 1/64in. wide near the bearing areas, extending up and away from the supports.

The following was considered incidental to this element:

The west face of the poured beam end of Beam 3-1 at Pier 3 has a 10in. x 8in. delamination - NEW.

**ELEMENT/ENV: 310/4 Elastomeric Bearing      104 ea.      ELEM CATEGORY: Bearings**

CONDITION STATE (3)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. Shear deformations are correct for existing temperatures.	104 ea.

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# FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

## Inspection Report with PDF attachment(s)

BRIDGE ID: 124115  
DISTRICT: 01 Bartow

PAGE: 5 OF 10  
INSPECTION DATE: 11/30/2009 JXNS

### All Elements

**UNIT: Structure Unit 1 SUBSTRUCTURE**

**ELEMENT/ENV: 205/4 R/Conc Column                      24 ea.                      ELEM CATEGORY: Substructure**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	24 ea.

**ELEMENT/ENV: 207/4 P/S Conc Holl Pile                      180 ea.                      ELEM CATEGORY: Substructure**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	180 ea.

**ELEMENT INSPECTION NOTES:**

Note: The divers cleaned Piles 12-1 thru 12-15, 15-1, 15-4, 15-5, 15-8 thru 15-10 and all deficiencies.

**ELEMENT/ENV: 215/4 R/Conc Abutment                      70 lf.                      ELEM CATEGORY: Substructure**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	70 lf.

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BRIDGE MANAGEMENT SYSTEM  
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BRIDGE ID: 124115  
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**All Elements**

**UNIT: Structure Unit 1 SUBSTRUCTURE**

**ELEMENT/ENV: 220/4 R/C Sub Pile Cap/Ftg 12 ea. ELEM CATEGORY: Substructure**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	12 ea.

**ELEMENT INSPECTION NOTES:**

Note: The divers cleaned Footer 8 and all deficiencies.

**CORRECTIVE ACTION TAKEN:**

The lifting eyes have been removed since the previous inspection.

**ELEMENT/ENV: 234/4 R/Conc Cap 518 lf. ELEM CATEGORY: Substructure**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without affect on strength and/or serviceability.	518 lf.

**ELEMENT INSPECTION NOTES:**

CS1 = Beams 3-1 and 4-1 dip, approximately 3in. at Pier 3, is possibly due to an incorrect pedestal elevation. There are no obvious signs of distress on the surrounding members. This condition was not observed during this inspection.

**ELEMENT/ENV: 393/4 Blkhed Sewl Any Mater 480 ft ELEM CATEGORY: Substructure**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	There is little or no deterioration. Surface defects only are in evidence. Random open joints may exist.	480 ft

**ELEMENT INSPECTION NOTES:**

Note: The element represents the bulkheads constructed with concrete sheet piling and concrete caps.

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INSPECTION DATE: 11/30/2009 JXNS

**All Elements**

**UNIT: Structure Unit 1 SUBSTRUCTURE**

**ELEMENT/ENV: 396/4 Other Abut Slope Pro 1800 sf. ELEM CATEGORY: Substructure**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	There is little or no deterioration. Surface defects only are in evidence. Random open joints may exist.	1800 sf.

**ELEMENT INSPECTION NOTES:**

Note: This element represents the concrete block mat slope protection.

**ELEMENT/ENV: 321/4 R/Conc Approach Slab 2 ea. ELEM CATEGORY: Other Elements**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	The slab has not settled and shows no sign of deterioration other than superficial surface cracks.	2 ea.

**ELEMENT INSPECTION NOTES:**

Note: The approach slabs are not visible due to an overlay of asphalt.

CS1 = The north approach slab joint header has a 1/32in. wide longitudinal crack in Lane 1.

**ELEMENT/ENV: 478/4 MSE Walls 120 lf. ELEM CATEGORY: Other Elements**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
1	There is little or no deterioration. Surface defects only are in evidence.	120 lf.

**ELEMENT INSPECTION NOTES:**

Note: The MSE walls were measured back 30ft. at each corner of the structure.

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BRIDGE ID: 124115  
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**All Elements**

**UNIT: Structure Unit 1 MISCELLANEOUS**

**ELEMENT/ENV: 290/4 Channel** **1 ea.** **ELEM CATEGORY: Channel**

CONDITION STATE (4)	DESCRIPTION	QUANTITY
2	Bank protection is in need of minor repairs, bank may be beginning to slump, minor stream bed movement may be evident or debris may be present.	1 ea.

**ELEMENT INSPECTION NOTES:**

The following was noted by the underwater inspectors:  
CS2 = Some piles have scour holes around them up to 18in. deep.  
The groundline slopes up to 4ft. to the west side of the piling and 10ft. out from the piling on several bents - NEW.

Some channel measurements have a 2ft. or greater change since the previous inspection. Reason for change may be due to the strong current and/or ongoing demolition of the old structures during the previous inspection, altering the channel bottom.

**Structure Notes**

BRIDGE OWNER: LEE COUNTY

TRAFFIC RESTRICTIONS: Based on the load rating dated 4/13/04, the structure does not require posting. This structure is not posted.

Structure was inventoried from south to north.

This structure replaced Bridge No. 124042.

Power boat with fathometer used for underbridge inspection and groundline measurements.

Owner provided 2008 ADT.

**INSPECTION NOTES: JXNS 11/30/2009**

Sufficiency Rating Calculation Accepted by KNKCARL-P at 2010-01-07 15:13:57

**LOAD CAPACITY EVALUATION:**

The findings of this inspection reveal no reason to warrant a new analysis; therefore, the current load rating results still govern.

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BRIDGE MANAGEMENT SYSTEM

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BRIDGE ID: 124115  
DISTRICT: 01 Bartow

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Photo 1 - Element 12 Bare Concrete Deck

Utilities in Bay 1 of all spans

REPAIR RECOMMENDATION:  
None

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REPORT ID: INSP005 (condensed)

PRINTED: 01/07/2010

FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM

Inspection Report with PDF attachment(s)

BRIDGE ID: 124115  
DISTRICT: 01 Bartow

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Photo 2 - Element 300 Strip Seal Exp Joint

Typical view of dirt and debris in the joints (joint at Abutment 1 shown)

REPAIR RECOMMENDATION:  
None

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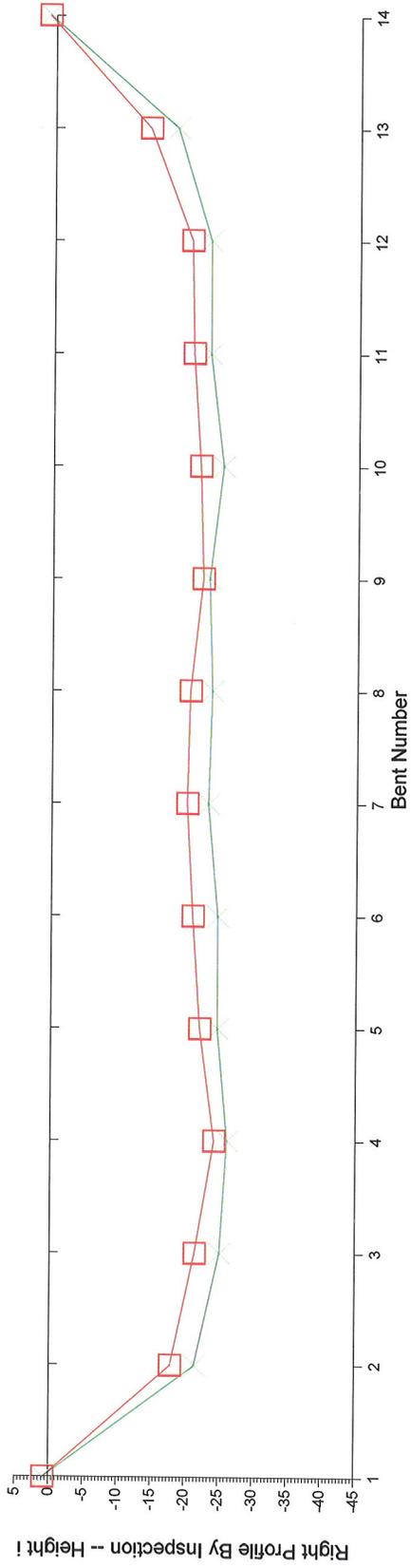
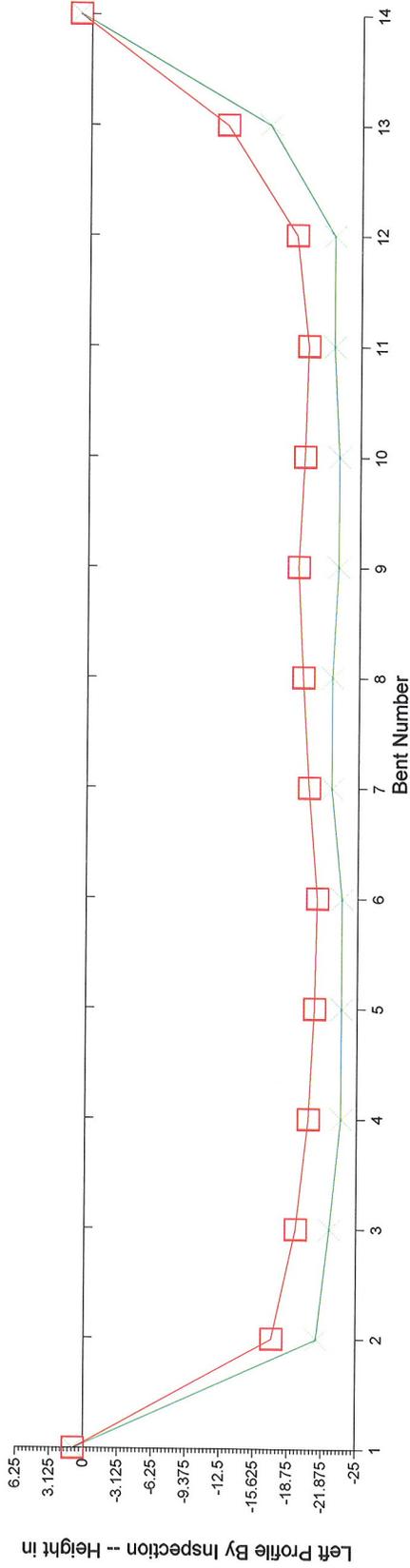
REPORT ID: INSP005 (condensed)

PRINTED: 01/07/2010

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM  
 Bridge Profile Report

REPORT ID: INVT016  
 Structure #: 124115

DATE PRINTED: 01/07/2010  
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FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM  
 Bridge Profile Report

REPORT ID: INVT016  
 Structure #: 124115

DATE PRINTED: 01/07/2010  
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Profile Data - Numerical Summary

Inspection Date and Key:	Bent #	Left Height	Right Height	(All Heights Are In Feet)
11/30/2009 JXNS	1	-1	-1	
	2	21.3	21.3	
	3	22.5	25	
	4	23.5	26	
	5	23.5	24.5	
	6	23.5	24.5	
	7	22.5	23	
	8	22.5	23.5	
	9	23	23	
	10	23	25	
	11	22.5	23	
	12	22.5	23	
	13	16.5	18	
	14	-1	-1	

Air Temp: 1

Profile Notes:

Measurements referenced from the top of the footers.  
 Waterline at Footer 2 left and right = 3.5ft.  
 Note: A value of -1 indicates that this location was out of the water during this inspection.

Inspection Date and Key: 11/15/2007 NRSE

1	-1	-1
2	17.2	17.8
3	19.4	21.3
4	20.5	24.1
5	21	21.9
6	21.2	20.8
7	20.4	19.9
8	19.8	20.3
9	19.3	22.1
10	19.8	21.6
11	20.1	20.5
12	19	20.2

REPORT ID: INVT016  
Structure #: 124115

DATE PRINTED: 01/07/2010  
Page 3 of 3

**Profile Data - Numerical Summary**

Inspection Date and Key:	NRSE	Bent #	Left Height	Right Height	(All Heights Are In Feet)
11/15/2007		13	12.6	14	
		14	-1	-1	

**Air Temp:**  
**Profile Notes:**  
Profile Reference: Top of footer 2  
Waterline to top of footer 2: 2.2ft Left and Right



**Routine Underwater Bridge Inspection Report  
for  
Kisinger Campo & Associates, Corp.**

NBI Structure No. (8): **124115**

Underwater Date (93): 10/06/09

**Structure/Roadway Identification:**

District (2): 01  
 County (3): Lee  
 Feature Intersected (6): San Carlos Bay  
 Facility Carried (7): CR 867

**Underwater Inspection Details:**

Special Crew Hours: 3.0  
 Max. Depth: 20ft.  
 Type of Dive Insp.: SCUBA  
 Type of Boat Used: 21ft.  
 Water Type/Marine Growth: Salt-Tidal / Barnacles - Oysters

**Previous Inspection:**

<b>Lead Diver:</b> Hoogland, Keith S.	<b>C.B.I. No.:</b> 00341	<b>Inspection Date:</b> 10/02/07
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**Inspection Personnel:**

Field Personnel:	Title	C.B.I. No.:	Duty:	Signature:
Hays, Stephen F.	C.B.I. Diver-Inspector	00438/Lead	Tend	
Myers, Jared L.	Diver-Inspector		Dive	
Harris, Scott R.	Diver-Inspector		Dive	

**PILING/COLUMNS**

**ELEMENT: 207 HLW CORE** 180: ea.

<b>Condition State:</b> CS-1	<b>QTY:</b> 180	<b>Recommended Feasible Action:</b> Do Nothing
---------------------------------	--------------------	---

NOTE: Piles 12-1 through 12-15, 15-1, 15-4, 15-5, 15-8 through 15-10 and all deficiencies were cleaned.

**SUBMERGED FOOTER**

**ELEMENT: 220 R/CONCRETE** 12: ea.

<b>Condition State:</b> CS-1	<b>QTY:</b> 12	<b>Recommended Feasible Action:</b> Do Nothing
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NOTE: Footer 8 and all deficiencies were cleaned.

**CHANNEL**

**ELEMENT: 290** 1: ea.

<b>Condition State:</b> CS-2	<b>QTY:</b> 1	<b>Recommended Feasible Action:</b> Do Nothing
---------------------------------	------------------	---

The G/L slopes up 4ft. to the west side and 10ft. out from the piling on several bents.  
 There are local scour holes around several piling up to 18in. deep due to heavy current. *DECREASED*

**BULKHEAD**

**ELEMENT: 393 OTHER** 480 lf.

<b>Condition State:</b> CS-1	<b>QTY:</b> 480 lf.	<b>Recommended Feasible Action:</b> Do Nothing
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**INSPECTION NOTES:** Divers inspected one hundred eighty 30in. piling in Bents 2 through 13, Footers, N and S Bulkhead and Channel.  
**STRUCTURE NOTES:** Structure inventoried south to north.

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**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM  
Comprehensive Inventory Data Report  
COMPREHENSIVE**

REPORT ID: INVT001A  
Structure ID: 124115

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01/07/2010

DATE PRINTED:

**Description**

**Structure Unit Identification**

Bridge/Unit Key: 124115 1  
Structure Name: STRUCTURE B SANIBEL CAUSEWAY  
Description:  
Type: M Main

**Roadway Identification:**

NBI Structure No (8) 124115  
Position/Prefix (5) Route On Structure  
Kind Hwy (Rte Prefix) 4 County Hwy  
Design Level of Service 1 Mainline  
Route Number/Suffix 00867 / 0 N/A (NBI)  
Feature Intersect (6) SAN CARLOS BAY  
Critical Facility Not Defense-crit  
Facility Carried (7) CR-867  
Mile Point (11) 0  
Latitude (16) 026d28'19" Long (17) 082d01'40"

**Roadway Traffic and Accidents**

Lanes (28) 2 Medians 0 Speed 35 mph  
ADT Class ADT Class 4  
Recent ADT (29) 19690 Year (30) 2008  
Future ADT (114) 20675 Year (115) 2028  
Truck % ADT (109) 7  
Detour Length (19) 99 mi  
Detour Speed 0 mph  
Accident Count -1 Rate -1

**Roadway Classification**

Nat. Hwy Sys (104) 0 Not on NHS  
National base Net (12) Not on Base Network  
LRS Inventory Rte (13a) 12 000 000 Sub Rte (13b) 00  
Functional Class (26) 16 Urban Minor Arterial  
On Federal Aid System Y  
Defense Hwy (100) 0 Not a STRAHNET hwy  
Direction of Traffic (102) 2 2-way traffic  
Emergency

**Roadway Clearances**

Vertical (10) 99.9 ft Appr. Road (32) 40  
Horiz. (47) 40 ft Roadway (51) 40 ft  
Truck Network (110) 0 Not part of natl netwo  
Toll Facility (20) 2 On toll road  
Fed. Lands Hwy (105) 0 N/A (NBI)  
School Bus Route   
Transit Route

*John G. Salicrú*  
1/8/10

**FLORIDA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM  
Comprehensive Inventory Data Report  
COMPREHENSIVE**

REPORT ID: INVT001A  
Structure ID: 124115

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01/07/2010

DATE PRINTED:

**Structure Identification**

Admin Area Lee County  
District (2) D1 - Bartow  
County (3) (12) Lee  
Place Code (4) Sanibel  
Location (9) 2ND STRUC S OF TOLL PLAZA  
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) Meets NBI Length  
Parallel Structure (101) No || bridge exists  
Temp. Structure (103) Not Applicable (P)  
Maint. Resp. (21) 2 County Hwy Agency  
Owner (22) 2 County Hwy Agency  
Historic Signif. (37) 5 Not eligible for NRHP

**Geometrics**

Spans in Main Unit (45) 13  
Approach Spans (46) 0  
Length of Max Span (48) 144 ft  
Structure Length (49) 1872 ft  
Total Length 1912 ft  
Deck Area 80684 sqft  
Structure Flared (35) 0 No flare

**Age and Service**

Year Built (27) 2007  
Year Reconstructed (106) 0  
Type of Service On (42a) 1 Highway  
Under (42b) 5 Waterway  
Fracture Critical Details Not Applicable

**Structure Type and Material**

Curb/Sidewalk (50): Left 0 ft Right 0 ft  
Bridge Median (33): 0 No median  
Main Span Material (43A): 6 P/S Conc Continuous  
Appr Span Material (44A): Not Applicable (P)  
Main Span Design (43B): 02 Stringer/Girder  
Appr Span Design (44B): Not Applicable (P)

**Deck Type and Material**

Deck Width (52): 43.1  
Skew (34): 0  
Deck Type (107): 1 Concrete-Cast-in-Place  
Surface (108): 0 None  
Membrane: 0 None  
Deck Protection: None

**Appraisal**

**Structure Appraisal**

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

**Navigation Data**

Navigation Control (38) Permit Required  
Nav Vertical Clr (39) 13.5 ft  
Nav Horizontal Clr (40) 110 ft  
Min Vert Lift Clr (116) 0 ft  
Pier Protection (111) 1 Not Required

**NBI Condition Rating**

Sufficiency Rating 79  
Health Index 99.31  
Structural Eval (67) 7 Above Min Criteria  
Deficiency Not Deficient

**Minimum Vertical Clearance**

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

**Minimum Lateral Underclearance**

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

**Load Rating**

Design Load (31) HL 93  
Rating Date 4/13/2004 Initials MCM  
Posting (70) 5 At/Above Legal Loads

Operating Type (63) 1 LF Load Factor  
Operating rating (64) 99.9 tons Alternate -1  
Inventory Type (65) 1 LF Load Factor  
Inventory Rating (66) 59.2 tons Alternate -1  
Alt Meth -1

**Schedule**

**Current Inspection**

Inspection Date: 11/30/2009  
Inspector: KN538OJ-P - John O'Grady  
Bridge Group: BD523  
Primary Type: Regular NBI  
Review Required:

**Next Inspection Date Scheduled**

NBI: 11/30/2011  
Element: 11/30/2011  
Fracture Critical:  
Underwater: 11/30/2011  
Other/Special:

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**Schedule Cont.**

**Inspection Types  
Performed**

NBI  Element  Fracture Critical  Underwater  Other Special

**Inspection Intervals**

Fracture Critical   
Underwater   
Other Special   
NBI

**Required (92)**    **Frequency (92)**    **Last Date (93)**

mos  
24 mos                      10/06/2009  
mos  
24 mos (91)                11/30/2009 (90)

**Inspection Resources**

Crew Hours 10  
Flagger Hours 0  
Helper Hours 0  
Snooper Hours 0  
Special Crew Hours 3  
Special Equip Hours 0

**Custom**

**General Bridge Information**

Parallel Bridge Seq 0  
Channel Depth 22.5 ft  
Radio Frequency -1  
Phone Number (000) 000-0000  
Exception Date  
Exception Type Unknown  
Accepted By Maint 00/00/0000  
Warranty Expiration 00/00/0000

Bridge Rail 1 Steel barrier  
Bridge Rail 2 Not applicable-No rail  
Electrical Devices No electric service  
Culvert Type Not applicable  
Maintenance Yard 0  
FIHS ON / OFF No Routes on FIHS  
Previous Structure 124042  
2nd Previous Structure  
Replacement Structure

**Bridge Load Rating Information**

HS20 Govr. Span Length 144 ft  
L-Rating Origination Design Plans  
Load Rating Date 04/13/2004  
Method Calculation Others  
Load Dist. Factor 1.047  
Impact Factor 19  
Design Method Load Factor  
Design Measure English  
Recommend SU Posting 99 tons  
Recommend C Posting 99 tons  
Recommend T Posting 99 tons  
Gov FB Span 0 ft  
Gov FB Spacing 0 ft  
FB HS20 Rating 0 tons  
FB SU4 Rating 0 tons  
FB Present N  
FB INV Rating Factor 0  
FB OPR Rating Factor 0  
FB FL 120 0 tons

Single Unit Truck 2 Axles 91.6 tons  
Single Unit Truck 3 Axles 76.6 tons  
Single Unit Truck 4 Axles 82.4 tons  
Combination Unit Truck 3 Axles 93.5 tons  
Combination Unit Truck 4 Axles 84.4 tons  
Combination Unit Truck 5 Axles 92.899 tons  
Truck Trailer 5 Axles 98.1 tons  
Posting Weight 99 tons  
Actual SU Posting 99 tons  
Actual C Posting 99 tons  
Actual T Posting 99 tons  
FL 120 Long Gov Span -1 tons  
FL 120 Trans -1 tons  
Single Axle Trans -1 tons  
Tandem Axle Trans -1 tons  
Wing Span -1 ft  
Web to Web Span -1 ft  
HS20 OPR Rating Max Span 98.9 tons  
FL120 Long Max Span -1 tons

**Bridge Scour and Storm Information**

Pile Driving Record All pile driving records  
Foundation Type Foundation details  
Mode of Flow Tidal  
Rating Scour Eval Low Risk - High  
Highest Scour Eval No phase completed

Scour Recommended I No recommendation  
Scour Recommended II No recommendation  
Scour Recommended III No recommendation  
Scour Elevation 999 ft  
Action Elevation 999 ft  
Storm Frequency 100

**Condition**

**NBI Rating**

Channel (61) 7 Minor Damage  
Deck (58) 8 Very Good  
Superstructure (59) 7 Good  
Substructure (60) 8 Very Good

Culvert (62) N N/A (NBI)  
Waterway (71) 8 Equal Desirable  
Unrepaired Spalls -1 sq.ft.  
Review Required

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**Elements**

Inspection Date: 11/30/2009 JXNS

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Structur	12/4	Bare Concrete Deck	80684	100.	0	.	0	.	0	.	0	.	80684 sf.

**Notes** Note: Two 4-1/2in. diameter fiberglass conduits and one 3-1/2in. diameter PVC conduit are suspended from hangers anchored to the underside of Bay 1 in all spans. Refer to photo 1. The type of anchorage for the utility hangers is unknown.

CS1 = There is a light accumulation of dirt and debris in the shoulder areas - NEW.

The undersides of the overhangs have full width x up to 1/64in. wide transverse cracks, some with efflorescence - NEW.

Structur	300/4	Strip Seal Exp Joint	216	100.	0	.	0	.	0	.	0	.	216 lf.
----------	-------	----------------------	-----	------	---	---	---	---	---	---	---	---	---------

**Notes** Note: Joints are present at Abutments 1 and 14 and Piers 4, 7 and 10.

CS1 = The joints are filling with dirt and debris, but are functioning as intended at this time - NEW. Refer to photo 2.

Structur	334/4	Metal Rail Coated	3744	100.	0	.	0	.	0	.	0	.	3744 lf.
----------	-------	-------------------	------	------	---	---	---	---	---	---	---	---	----------

**Notes** Note: Barriers meet NCHRP TL4 criteria and meet SIA Item #36 standards.

Structur	109/4	P/S Conc Open Girder	7488	100.	0	.	0	.	0	.	0	.	7488 lf.
----------	-------	----------------------	------	------	---	---	---	---	---	---	---	---	----------

**Notes** CS1 = The beams have multiple diagonal web cracks up to 4ft. long x 1/64in. wide near the bearing areas, extending up and away from the supports.

The following was considered incidental to this element:

The west face of the poured beam end of Beam 3-1 at Pier 3 has a 10in. x 8in. delamination - NEW.

Structur	310/4	Elastomeric Bearing	104	100.	0	.	0	.	0	.	0	.	104 ea.
----------	-------	---------------------	-----	------	---	---	---	---	---	---	---	---	---------

**Notes**

Structur	205/4	R/Conc Column	24	100.	0	.	0	.	0	.	0	.	24 ea.
----------	-------	---------------	----	------	---	---	---	---	---	---	---	---	--------

**Notes**

Structur	207/4	P/S Conc Holl Pile	180	100.	0	.	0	.	0	.	0	.	180 ea.
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**Notes** Note: The divers cleaned Piles 12-1 thru 12-15, 15-1, 15-4, 15-5, 15-8 thru 15-10 and all deficiencies.

Structur	215/4	R/Conc Abutment	70	100.	0	.	0	.	0	.	0	.	70 lf.
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**Notes**

Structur	220/4	R/C Sub Pile Cap/Ftg	12	100.	0	.	0	.	0	.	0	.	12 ea.
----------	-------	----------------------	----	------	---	---	---	---	---	---	---	---	--------

**Notes** Note: The divers cleaned Footer 8 and all deficiencies.

CORRECTIVE ACTION TAKEN:

The lifting eyes have been removed since the previous inspection.

Structur	234/4	R/Conc Cap	518	100.	0	.	0	.	0	.	0	.	518 lf.
----------	-------	------------	-----	------	---	---	---	---	---	---	---	---	---------

**Notes** CS1 = Beams 3-1 and 4-1 dip, approximately 3in. at Pier 3, is possibly due to an incorrect pedestal elevation. There are no obvious signs of distress on the surrounding members. This condition was not observed during this inspection.

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**Elements**

Inspection Date: 11/30/2009 JXNS

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Structure	393/4	Blkhd Sewl Any Mater	480	100.	0	.	0	.	0	.	0	.	480 ft

**Notes** Note: The element represents the bulkheads constructed with concrete sheet piling and concrete caps.

Structure	396/4	Other Abut Slope Pro	1800	100.	0	.	0	.	0	.	0	.	1800 sf.
-----------	-------	----------------------	------	------	---	---	---	---	---	---	---	---	----------

**Notes** Note: This element represents the concrete block mat slope protection.

Structure	290/4	Channel	0	.	1	100.	0	.	0	.	0	.	1 ea.
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**Notes** The following was noted by the underwater inspectors:

CS2 = Some piles have scour holes around them up to 18in. deep.

The groundline slopes up to 4ft. to the west side of the piling and 10ft. out from the piling on several bents - NEW.

Some channel measurements have a 2ft. or greater change since the previous inspection. Reason for change may be due to the strong current and/or ongoing demolition of the old structures during the previous inspection, altering the channel bottom.

Structure	321/4	R/Conc Approach Slab	2	100.	0	.	0	.	0	.	0	.	2 ea.
-----------	-------	----------------------	---	------	---	---	---	---	---	---	---	---	-------

**Notes** Note: The approach slabs are not visible due to an overlay of asphalt.

CS1 = The north approach slab joint header has a 1/32in. wide longitudinal crack in Lane 1.

Structure	478/4	MSE Walls	120	100.	0	.	0	.	0	.	0	.	120 lf.
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**Notes** Note: The MSE walls were measured back 30ft. at each corner of the structure.

**Total Number of Elements:** 15

**Inspection Information**

**Inspection Date:** 11.30.2009

**Type:** Regular NBI

**Inspector:** KN538OJ-P - John O'Grady

**Inspection Notes:** Sufficiency Rating Calculation Accepted by KNKCARL-P at 2010-01-07 15:13:57

**LOAD CAPACITY EVALUATION:**

The findings of this inspection reveal no reason to warrant a new analysis; therefore, the current load rating results still govern.

**Inspection Date:** 11.15.2007

**Type:** Regular NBI

**Inspector:** KNVOLWW-P - Wade Wolfe

**Inspection Notes:** Sufficiency Rating Calculation Accepted by knvolsg-P at 2008-05-20 14:45:32  
Sufficiency Rating Calculation Accepted by kn110ku-P at 2008-02-05 11:46:29  
Sufficiency Rating Calculation Accepted by KNVOLCW-P at 2007-12-18 09:11:31  
Sufficiency Rating Calculation Accepted by KNVOLCW-P at 2007-11-30 11:24:34

**LOAD CAPACITY EVALUATION:**

The load rating dated 4/13/04 applies to the current condition of this bridge.

Construction of various elements is still in progress. Demolition of replaced structure is in progress.

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**Structure Notes**

BRIDGE OWNER: LEE COUNTY

TRAFFIC RESTRICTIONS: Based on the load rating dated 4/13/04, the structure does not require posting. This structure is not posted.

Structure was inventoried from south to north.

This structure replaced Bridge No. 124042.

Power boat with fathometer used for underbridge inspection and groundline measurements.

Owner provided 2008 ADT.