

EXHIBIT M

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 1 OF 32
INSPECTION DATE: 11/18/2011 WNFP

BY: VOLKERT, INC.	STRUCTURE NAME: STRUCTURE A SANIBEL CAUSEV
OWNER: 2 County Hwy Agency	YEAR BUILT: 2007
MAINTAINED BY: 2 County Hwy Agency	SECTION NO.: 12 000 000
STRUCTURE TYPE: 6 P/S Conc Continuous - 02 Stringer/Girder	MP: 0
LOCATION: 1ST STRUC S OF TOLL PLAZA	ROUTE: 00867
SERVICE TYPE ON: 1 Highway	FACILITY CARRIED: CR-867
SERV TYPE UND: 5 Waterway	FEATURE INTERSECTED: SAN CARLOS BAY

FUNCTIONALLY OBSOLETE STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 11/18/2011 UNDERWATER: 10/24/2011

SUFFICIENCY RATING: 79.0
HEALTH INDEX: 98.94

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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 2 OF 32
INSPECTION DATE: 11/18/2011 WNFP

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

STRUCTURE NAME: STRUCTURE A SANIBEL CAUSEWAY
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: 11/18/2011 UNDERWATER: 10/24/2011

SMART FLAGS:

OVERALL NBI RATINGS:

None DECK: 8 Very Good CHANNEL: 7 Minor Damage
SUPERSTRUCTURE: 7 Good CULVERT: N N/A (NBI)
SUBSTRUCTURE: 7 Good SUFF. RATING: 79.0
PERF. RATING: Good HEALTH INDEX: 98.94

FIELD PERSONNEL / TITLE / NUMBER

INITIALS

Eorgan, Steve - Bridge Inspector (CBI#00362) (lead)
Bibelhauser, Anthony - Bridge Inspector (CBI #00359)

DE

Hoogland, Keith - Bridge Inspector/Diver (CBI#00341) (lead)
Tumaniszwili, Alex P. - Diver/Inspector
Young, Ryan C. - Diver/Inspector

REVIEWING BRIDGE INSPECTION SUPERVISOR:

Rucks, Edward - CBI (#00273)

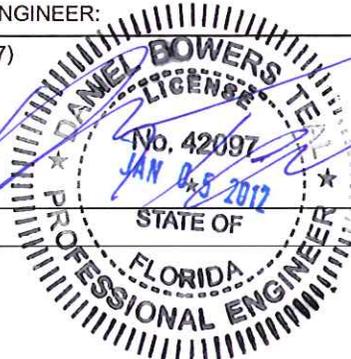
ER

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:

Teal, Daniel - PROJECT MANAGER (PE # 42097)
VOLKERT, INC.
3409 W. LEMON STREET STE 1
CERTIFICATE OF AUTHORIZATION NO 4641
TAMPA, FL 33609

SIGNATURE: _____

DATE: _____



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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 3 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 DECKS

ELEMENT/ENV: 12/4 Bare Concrete Deck 129408 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.	129408 sf.

ELEMENT INSPECTION NOTES:

Note: Two 4-1/2in. diameter fiberglass conduits are attached to hangers anchored to the underside of Bay 3 in all spans. The type of hanger anchorage is unknown.

CS1: There is a light accumulation of debris in the shoulder areas.

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

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 4 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 DECKS

ELEMENT/ENV: 300/4 Strip Seal Exp Joint 345 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.	345lf.

ELEMENT INSPECTION NOTES:

Note: Joints are present at Abutments 1 and 22 and Piers 4, 7, 10, 13, 16 and 19.

CS1: The joints have light dirt and debris in the shoulder areas and are functioning as intended - DECREASED.

CORRECTIVE ACTION TAKEN:

Most of the dirt and debris within the joints has been removed.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 5 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 DECKS

ELEMENT/ENV: 334/4 Metal Rail Coated 6005 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.	5999lf.
2	There is little or no active corrosion. Surface corrosion has formed or is forming. Protective coating may have minor areas of deterioration.	6lf.

ELEMENT INSPECTION NOTES:

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

CS1: There are several tire marks on the barriers.

CS2: There are several areas of impact scrapes to the left bridge rail up to 8ft long at the following locations - NEW. Refer to Photo 1. REPAIR ALL

Span 4, near Pier 5
Span 5, at 1/2 and 3/4 points
Span 6, at 1/4, 1/2 and 3/4 points
Span 12, near Pier 12
Span 13, at 1/4 point
Span 14, near Pier 15
Span 16, near at Pier 17
Span 18, at 1/2 point

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 6 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 SUPERSTRUCTURE

ELEMENT/ENV: 109/4 P/S Conc Open Girder 12010 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.	12006 lf.
2	Minor cracks and spalls may be present and there may be exposed reinforcing with no evidence of corrosion. There is no exposure of the prestress system.	4 lf.

ELEMENT INSPECTION NOTES:

CS1: The beams have diagonal web cracks up to 4ft. long x typically less than 1/64in. wide at the bearing areas, extending up and away from the supports.

The east face of the bottom flange of Beam 14-4 has a 20in. long x 1/64in. wide vertical/diagonal crack over the bearing at Pier 14. Beam 16-4 at Pier 16 has similar cracking - INCREASE.

The left top flange of Beam 17-4 has longitudinal hairline cracking, some with efflorescence, up to 1/64in. wide near Pier 18.

CS2: There are minor spalls with no exposed steel in the bottom flanges of the following beams:

Beam 15-1, east face 7-1/2ft. from Pier 16, 6in. x 2in. x 1/2in.

Beam 15-3, east face at 25-1/2ft. from Pier 16, 4in. x 4in. x 1in.

Beam 15-4, west face 60ft. from Pier 15, 16in. x 4in. x 1in.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 7 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 SUPERSTRUCTURE

ELEMENT/ENV: 397/4 Drain. Syst Metal 20 ea. ELEM CATEGORY: Superstructure

CONDITION STATE (5)	DESCRIPTION	QUANTITY
1	There is no evidence of active corrosion and the paint system is sound and functioning as intended to protect the metal surface. Drainage system is functioning as intended.	19 ea.
2	There is little or no active corrosion. Surface corrosion rust has formed or is forming. The paint system may be chalking, peeling, curling or showing other early evidence of paint system distress but there is no exposure of metal. Drainage system is functioning as intended, there may be evidence of minor restrictions of flow.	1 ea.

ELEMENT INSPECTION NOTES:

CS2: The anchor hardware for the scupper down pipe attached to the inside face of Beam 8-1 at the 2/3 point is loose - NEW. Refer to Photo 2. REPAIR

CORRECTIVE ACTION TAKEN:

The scupper down pipes have been properly shimmed.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 8 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 SUPERSTRUCTURE

ELEMENT/ENV: 310/4 Elastomeric Bearing		168 ea.	ELEM CATEGORY: Bearings
CONDITION STATE (3)	DESCRIPTION	QUANTITY	
1	The element shows little or no deterioration. Shear deformations are correct for existing temperatures.	168 ea.	

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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 9 OF 32
INSPECTION DATE: 11/18/2011 WNF

All Elements

UNIT: Structure Unit 1 SUPERSTRUCTURE

ELEMENT/ENV: 563/4 Acc Ladd & Plat 16 ea. ELEM CATEGORY: Movable

CONDITION STATE (5)	DESCRIPTION	QUANTITY
1	There is no evidence of active corrosion, and the paint system is sound and functioning as intended to protect the metal surface.	16 ea.

ELEMENT INSPECTION NOTES:

Note: The quantity includes eight ladders and eight platforms including the two fender access walkways.

ELEMENT/ENV: 580/4 Navigational Lights 1 ea. ELEM CATEGORY: Movable

CONDITION STATE (3)	DESCRIPTION	QUANTITY
2	There is some evidence of corrosion, lights may be burned out, lens may be broken.	1 ea.

ELEMENT INSPECTION NOTES:

Note: The element includes six fender lights, two clearance at centerline of channel gauge lights and two swing lights at centerline of channel attached to the deck fascias with unknown anchors. Refer to Photo 3.

CS2: The hinges for top access cover on the southeast and northwest fender lights are broken - NEW. Refer to Photo 4. REPAIR

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 10 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 205/4 R/Conc Column		40 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.	40 ea.	

ELEMENT/ENV: 207/4 P/S Conc Holl Pile		224 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.	220 ea.	
2	Minor cracks, spalls and scaling may be present and there may be exposed reinforcing with no evidence of corrosion. There is no exposure of the prestress system.	4 ea.	

ELEMENT INSPECTION NOTES:

Note: Quantity field verified by underwater inspectors.

The following was noted by the underwater inspectors;

CS2: The northesast corner of Pile 10-13 has a 7ft6in x 18in x 2in spall with no exposed steel 11ft below the footing.

The northeast corner of Pile 4-1 has a 16in. x 6in. x 2in. spall with no exposed steel, 5ft. below the footing.

The northwest corner of Pile 11-17 has a 5ft. 6in. x 10in. x 2in. spall with no exposed steel, just below the footing.

The northeast corner of Pile 17-10 has a 13ft. x 12in. x 3in. spall with no exposed steel, 24in. below the footing.

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 11 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 SUBSTRUCTURE

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.

ELEMENT INSPECTION NOTES:

CS1: There is minor horizontal cracking to the top outside faces of both cheek walls at the cold joint of Abutment 1 - NEW.

ELEMENT/ENV: 220/4 R/C Sub Pile Cap/Ftg 17 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.	8 ea.

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 12 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 220/4 R/C Sub Pile Cap/Ftg 17 ea. ELEM CATEGORY: Substructure

CONDITION STATE (4)	DESCRIPTION	QUANTITY
2	Minor cracks, spalls and scaling may be present but there is no exposed reinforcing or surface evidence of rebar corrosion.	9 ea.

ELEMENT INSPECTION NOTES:

NOTE: Quantity change due to footings 19, 20 and 21 no longer being exposed.

CS1: The following was noted by the underwater inspection:
There are several corner scrapes up to 6in H x 5ft W x 3/4in D.
The footing have concrete formed sides that have vertical cracks with no corrosion bleedout up to 1/16in wide x full height. Several cracks have efflorescence.

CS2: The top northwest corner of footing 4 has a 24in x 12in x 2in spall with no exposed steel.

The top east corner of footing 9 near center point has a 30in x 9in x 2in spall with no exposed steel (Previously noted as a delamination).

The top northeast corner of footing 10 has a spall with no exposed steel 24in x 8in x 1in previously noted as a spall/delamination on the northwest corner of footing 10.

The top northeast corner of footing 16 has a spall with no exposed steel 15in x 12in x 1in. Previously noted as a spall/delamination on the northwest corner.

The following was noted by the underwater inspection:
Footing 5, southeast corner 18in below top of footing - spall with no exposed steel, 9in H x 9in W x 2in D - NEW.
Footing 8, southeast corner 10in below top of footing - spall with no exposed steel, 12in H x 6in W x 2in D - NEW.
Footing 10, northeast corner at top of footing - intermittent spall with no exposed steel, 28in H x 9in W x 2in D - NEW.
Footing 12, southwest corner 20in below top of footing, spall with no exposed steel, 6in x H 8in W x 2-1/2in D.
Footing 13, southeast corner 15in below top of footing, spall with no exposed steel, 12in H x 6in W x 1in D.
Footing 17, northeast and southeast corners 20in below top footing, spall with no exposed steel, 12in H x 12in W x 2in D.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 14 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 SUBSTRUCTURE

ELEMENT/ENV: 396/4 Other Abut Slope Pro 2500 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.	2404 sf.
2	There may be minor deterioration, random open joints, cracking and weathering. Mortar in joints may show minor deterioration.	12 sf.
3	Moderate to major deterioration and cracking. Major deterioration of joints. Minor settlement may be present.	84 sf.

ELEMENT INSPECTION NOTES:

Note: This element includes rock rubble rip rap and concrete block mats.

CS1: The rock inside the concrete block mats has settled up to 6in in several location - NEW.

CS2: There are 6 displaced concrete rip rap bags on the south slope protection under the structure.

CS3: The rock inside the concrete block mat on the north slope protection 8ft adjacent to the seawall cap has settled up to 16in and has undermined the slope in a 4ft x 3ft area - NEW. Refer to Photo 6.
REPAIR

There is a 20ft x 4ft x 1ft of settlement to the concrete block mat on the southwest corner of footing 18 - NEW. Refer to Photo 7. REPAIR

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 15 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 CHANNEL

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:

Note: The bulkheads were evaluated under this element as channel bank protection.

CS2: Some channel measurements have a 3ft. or greater change since the previous inspection. Reason for change may be due to the strong current altering the channel bottom.

The following was noted by the underwater inspectors:

There is scattered timber debris from the previous fender system along the new fender system. At Bents 4 through 17, the groundline slopes upward up to 4ft. going away from the piling, on one or more sides. Several piling have minimal marine growth on the lower 4in. to 6in. - INCREASE.

CORRECTIVE ACTION TAKEN:

The north channel bulkhead cap has been repaired.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 16 OF 32
INSPECTION DATE: 11/18/2011 WNFP

All Elements

UNIT: Structure Unit 1 MISCELLANEOUS

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.

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.	120lf.

ELEMENT INSPECTION NOTES:

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

Structure Notes

BRIDGE OWNER: LEE COUNTY

TRAFFIC RESTRICTION: Based on the load rating analysis dated 8/8/07, the structure does not require posting. This structure is not posted.

Structure was inventoried from south to north on a west to east leg of a south to north roadway. Direction of stationing is used to describe deficiency locations (left is west).

This structure replaces bascule Bridge No. 124043.

Access to the bridge underside requires a boat with a 60ft. lift or an under bridge inspection vehicle with a lane shift traffic control setup.

Power boat used for groundline measurements and substructure inspection.

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/CID Report with PDF attachment(s)

**BRIDGE ID: 124116
DISTRICT: 01 Bartow**

**PAGE: 17 OF 32
INSPECTION DATE: 11/18/2011 WNFP**

INSPECTION NOTES: WNFP 11/18/2011

Sufficiency Rating Calculation Accepted by KNVOLFA-P at 2011-12-06 13:52:56

LOAD CAPACITY EVALUATION:

The findings of this inspection reveal no reason to warrant a new analysis; therefore, the current load rating dated 8/8/07 results still govern.

Note: Element 298, Pile Jacket Bare, has been added to this report.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 18 OF 32
INSPECTION DATE: 11/18/2011 WNFP



PHOTO 1: 334 METAL RAIL COATED

Impact scrapes on bridge railing Span 4 left near Pier 5.

REPAIR RECOMMENDATION:

Repair impact scrapes to left bridge railing up to 8ft long in Spans 4, 5, 6, 12, 13, 14, 16 and 18.

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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 19 OF 32
INSPECTION DATE: 11/18/2011 WNFP



PHOTO 2: 397 DRAIN SYST METAL

Loose anchor hardware for scupper down pipe attached to inside face of Beam 8-1.

REPAIR RECOMMENDATION:

Repair loose anchor hardware for scupper down pipe attached to Beam 8-1 at the 2/3 point.

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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 20 OF 32
INSPECTION DATE: 11/18/2011 WNFP



PHOTO 3: 580 NAVIGATIONAL LIGHTS

Center span navigational swing lights attached to bridge fascias.

REPAIR RECOMMENDATION:
None

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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 21 OF 32
INSPECTION DATE: 11/18/2011 WNFP



PHOTO 4: 580 NAVIGATIONAL LIGHTS

Broken access cover plate hinge for the northwest fender light.

REPAIR RECOMMENDATION:

Repair 2 broken access cover plate hinges for the southeast and northwest fender lights.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 22 OF 32
INSPECTION DATE: 11/18/2011 WNFP



PHOTO 5: 387 P/S FENDER/DOLPHIN

Area of exposed driving tips on the southwest fender top side (from 12th cluster from west to 25th cluster).

REPAIR RECOMMENDATION:

Install 55lf of scour protection for south fender piling starting at 12th cluster from west for next 13 pilings.

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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 23 OF 32
INSPECTION DATE: 11/18/2011 WNFP

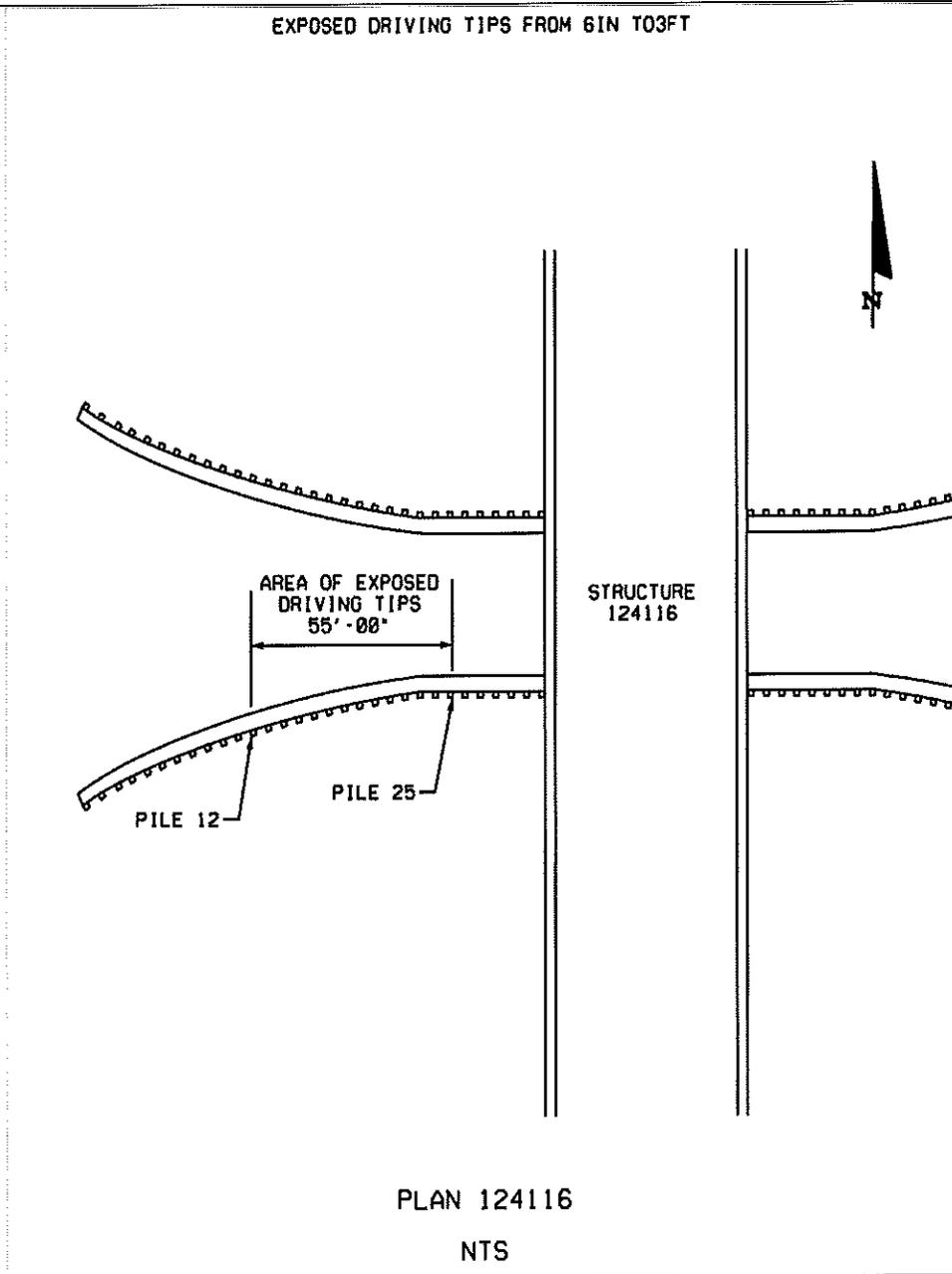


DIAGRAM 1: 387 P/S FENDER/DOLPHIN

Piles with exposed driving tips.

REPAIR RECOMMENDATION:
Refer to Photo 5.

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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 24 OF 32
INSPECTION DATE: 11/18/2011 WNFP



PHOTO 6: 396 OTHER ABUT SLOPE PRO

Settled rock fill with undermining to the concrete block mat 8ft south of the southeast corner of Pier 18.

REPAIR RECOMMENDATION:

Fill and stabilize loss fill and undermining to the concrete block mats 8ft south of the southeast corner of Pier 18.

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/CID Report with PDF attachment(s)

BRIDGE ID: 124116
DISTRICT: 01 Bartow

PAGE: 25 OF 32
INSPECTION DATE: 11/18/2011 WNFP



PHOTO 7: 396 OTHER ABUT SLOPE PRO

Settled slope and erosion of the concrete block mat on the southwest corner at footing 18.

REPAIR RECOMMENDATION:

Fill and stabilize 20ft x 4ft area of settlement and erosion to the slope on the southwest corner at footing 18.

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.

Description

Structure Unit Identification

Bridge/Unit Key: 124116 1
 Structure Name: STRUCTURE A SANIBEL CAUSEWAY
 Description:
 Type: M Main

Roadway Identification:

NBI Structure No (8) 124116
 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) 026d28'56" Long (17) 082d01'03"

Roadway Traffic and Accidents

Lanes (28) 2	Medians 0	Speed 35 mph
ADT Class ADT Class 4		
Recent ADT (29) 19690	Year (30) 2011	
Future ADT (114) 20675	Year (115) 2031	
Truck % ADT (109) 7		
Detour Length (19) 99 mi		
Detour Speed -1 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) 99.99 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 <input checked="" type="checkbox"/>	
Transit Route <input checked="" type="checkbox"/>	

FL DA DEPARTMENT OF TRANSPORTATION
 BRIDGE MANAGEMENT SYSTEM
 Inspection/CID Report with PDF attachment(s)
 COMPREHENSIVE

REPORT ID: INVT001A
 Structure ID: 124116

Page 27 of 32
 DATE PRINTED: 12/28/2011

Structure Identification

Admin Area Lee County
 District (2) D1 - Bartow
 County (3) (12) Lee
 Place Code (4) Sanibel
 Location (9) 1ST 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

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)

Geometrics

Spans in Main Unit (45) 21
 Approach Spans (46) 0
 Length of Max Span (48) 144.2 ft
 Structure Length (49) 3002.5 ft
 Total Length 3042.5 ft
 Deck Area 129408 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

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) 9-No Speed Red No Curve
 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

Minimum Vertical Clearance

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

Load Rating

Design Load (31) HL 93
 Rating Date 8/8/2007 Initials RS
 Posting (70) 5 At/Above Legal Loads

Navigation Data

Navigation Control (38) Permit Required
 Nav Vertical Clr (39) 70 ft
 Nav Horizontal Clr (40) 111.2 ft
 Min Vert Lift Clr (116) 0 ft
 Pier Protection (111) 2 In-Place, Functioning

NBI Condition Rating

Sufficiency Rating 79
 Health Index 98.94
 Structural Eval (67) 7 Above Min Criteria
 Deficiency Not Deficient

Minimum Lateral Underclearance

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

Operating Type (63) 3 LRFR Load & Res. Fact
 Operating rating (64) 60.9 tons Alternate -1
 Inventory Type (65) 3 LRFR Load & Res. Fact
 Inventory Rating (66) 47.7 tons Alternate -1
 Alt Meth -1

Schedule

Current Inspection

Inspection Date: 11/18/2011
 Inspector: KNVOLSE-P - Steve Eorgan
 Bridge Group: BD523
 Primary Type: Regular NBI
 Review Required:

Next Inspection Date Scheduled

NBI: 11/18/2013
 Element: 11/18/2013
 Fracture Critical:
 Underwater: 11/18/2013
 Other/Special:

FL DA DEPARTMENT OF TRANSPORTATION
 BRIDGE MANAGEMENT SYSTEM
 Inspection/CID Report with PDF attachment(s)
 COMPREHENSIVE

REPORT ID: INVT001A
 Structure ID: 124116

Page 28 of 32
 DATE PRINTED: 12/28/2011

Schedule Cont.

Inspection Types
Performed

NBI Element Fracture Critical Underwater Other Special

<u>Inspection Intervals</u>	<u>Required (92)</u>	<u>Frequency (92)</u>	<u>Last Date (93)</u>	<u>Inspection Resources</u>
Fracture Critical	<input type="checkbox"/>	mos		Crew Hours 20
Underwater	<input checked="" type="checkbox"/>	24 mos	10/24/2011	Flagger Hours 8
Other Special	<input type="checkbox"/>	mos		Helper Hours 0
NBI		24 mos (91)	11/18/2011 (90)	Snooper Hours 6
				Special Crew Hours 18
				Special Equip Hours 0

Custom

General Bridge Information

Parallel Bridge Seq 0000	Bridge Rail 1 Steel barrier
Channel Depth 26.499 ft	Bridge Rail 2 Not applicable-No rail
Radio Frequency -1	Electrical Devices Navigation lights only
Phone Number (000) 000-0000	Culvert Type Not applicable
Exception Date	Maintenance Yard 0
Exception Type Unknown	FIHS ON / OFF No Routes on FIHS
Accepted By Maint 00/00/0000	Previous Structure 124043
Warranty Expiration 00/00/0000	2nd Previous Structure
	Replacement Structure

Bridge Load Rating Information

HS20 Govr. Span Length 144 ft	Single Unit Truck 2 Axles -1 tons
L-Rating Origination Design Plans	Single Unit Truck 3 Axles -1 tons
Load Rating Date 08/08/2007	Single Unit Truck 4 Axles -1 tons
Method Calculation AASHTO formula	Combination Unit Truck 3 Axles -1 tons
Load Dist. Factor 0.982	Combination Unit Truck 4 Axles -1 tons
Impact Factor 1	Combination Unit Truck 5 Axles -1 tons
Design Method LRFD (Load & Res Factor)	Truck Trailer 5 Axles -1 tons
Design Measure English	Posting Weight 99 tons
Recommend SU Posting 99 tons	Actual SU Posting 99 tons
Recommend C Posting 99 tons	Actual C Posting 99 tons
Recommend ST Posting 99 tons	Actual ST Posting 99 tons
Gov FB Span 0 ft	FL 120 Long Gov Span 110 tons
Gov FB Spacing 0 ft	FL 120 Trans -1 tons
FB HS20 Rating 0 tons	Single Axle Trans -1 tons
FB SU4 Rating 0 tons	Tandem Axle Trans -1 tons
FB Present N	Wing Span -1 ft
FB INV Rating Factor 0	Web to Web Span -1 ft
FB OPR Rating Factor 0	HS20 OPR Rating Max Span -1 tons
FB FL 120 0 tons	FL120 Long Max Span 110 tons

Bridge Scour and Storm Information

Pile Driving Record All pile driving records	Scour Recommended I No recommendation
Foundation Type Foundation details	Scour Recommended II No recommendation
Mode of Flow Tidal	Scour Recommended III No recommendation
Rating Scour Eval Low Risk - High	Scour Elevation 999 ft
Highest Scour Eval No phase completed	Action Elevation 999 ft
	Storm Frequency 100

Condition

NBI Rating

Channel (61) 7 Minor Damage	Culvert (62)N N/A (NBI)
Deck (58) 8 Very Good	Waterway (71) 8 Equal Desirable
Superstructure (59) 7 Good	Unrepaired Spalls -1 sq.ft.
Substructure (60) 7 Good	Review Required <input checked="" type="checkbox"/>

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.

FL DA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)
COMPREHENSIVE

REPORT ID: INVT001A
Structure ID: 124116

Page 29 of 32
DATE PRINTED: 12/28/2011

Elements

Inspection Date: 11/18/2011WNFP

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Structur	12/4	Bare Concrete Deck	129408	100.	0	.	0	.	0	.	0	.	129408 sf.

Notes Note: Two 4-1/2in. diameter fiberglass conduits are attached to hangers anchored to the underside of Bay 3 in all spans. The type of hanger anchorage is unknown.

CS1: There is a light accumulation of debris in the shoulder areas.

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

Structur	300/4	Strip Seal Exp Joint	345	100.	0	.	0	.	0	.	0	.	345 lf.
----------	-------	----------------------	-----	------	---	---	---	---	---	---	---	---	---------

Notes Note: Joints are present at Abutments 1 and 22 and Piers 4, 7, 10, 13, 16 and 19.

CS1: The joints have light dirt and debris in the shoulder areas and are functioning as intended - DECREASED.

CORRECTIVE ACTION TAKEN:

Most of the dirt and debris within the joints has been removed.

Structur	334/4	Metal Rail Coated	5999	99.9	6	.1	0	.	0	.	0	.	6005 lf.
----------	-------	-------------------	------	------	---	----	---	---	---	---	---	---	----------

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

CS1: There are several tire marks on the barriers.

CS2: There are several areas of impact scrapes to the left bridge rail up to 8ft long at the following locations - NEW. Refer to Photo 1.
REPAIR ALL

- Span 4, near Pier 5
- Span 5, at 1/2 and 3/4 points
- Span 6, at 1/4, 1/2 and 3/4 points
- Span 12, near Pier 12
- Span 13, at 1/4 point
- Span 14, near Pier 15
- Span 16, near at Pier 17
- Span 18, at 1/2 point

Structur	109/4	P/S Conc Open Girder	12006	99.97	4	.	0	.	0	.	0	.	12010 lf.
----------	-------	----------------------	-------	-------	---	---	---	---	---	---	---	---	-----------

Notes CS1: The beams have diagonal web cracks up to 4ft. long x typically less than 1/64in. wide at the bearing areas, extending up and away from the supports.

The east face of the bottom flange of Beam 14-4 has a 20in. long x 1/64in. wide vertical/diagonal crack over the bearing at Pier 14. Beam 16-4 at Pier 16 has similar cracking - INCREASE.

The left top flange of Beam 17-4 has longitudinal hairline cracking, some with efflorescence, up to 1/64in. wide near Pier 18.

CS2: There are minor spalls with no exposed steel in the bottom flanges of the following beams:

- Beam 15-1, east face 7-1/2ft. from Pier 16, 6in. x 2in. x 1/2in.
- Beam 15-3, east face at 25-1/2ft. from Pier 16, 4in. x 4in. x 1in.
- Beam 15-4, west face 60ft. from Pier 15, 16in. x 4in. x 1in.

Structur	397/4	Drain. Syst Metal	19	95.	1	5.	0	.	0	.	0	.	20 ea.
----------	-------	-------------------	----	-----	---	----	---	---	---	---	---	---	--------

Notes CS2: The anchor hardware for the scupper down pipe attached to the inside face of Beam 8-1 at the 2/3 point is loose - NEW. Refer to Photo 2. REPAIR

CORRECTIVE ACTION TAKEN:

The scupper down pipes have been properly shimmed.

FL DA DEPARTMENT OF TRANSPORTATION
 BRIDGE MANAGEMENT SYSTEM
 Inspection/CID Report with PDF attachment(s)
 COMPREHENSIVE

REPORT ID: INVT001A
 Structure ID: 124116

Page 30 of 32
 DATE PRINTED: 12/28/2011

Elements

Inspection Date: 11/18/2011WNFP

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Structure	310/4	Elastomeric Bearing	168	100.	0	.	0	.	0	.	0	.	168 ea.

Notes

Structure	563/4	Acc Ladd & Plat	16	100.	0	.	0	.	0	.	0	.	16 ea.
-----------	-------	-----------------	----	------	---	---	---	---	---	---	---	---	--------

Notes Note: The quantity includes eight ladders and eight platforms including the two fender access walkways.

Structure	580/4	Navigational Lights	0	.	1	100.	0	.	0	.	0	.	1 ea.
-----------	-------	---------------------	---	---	---	------	---	---	---	---	---	---	-------

Notes Note: The element includes six fender lights, two clearance at centerline of channel gauge lights and two swing lights at centerline of channel attached to the deck fascias with unknown anchors. Refer to Photo 3.

CS2: The hinges for top access cover on the southeast and northwest fender lights are broken - NEW. Refer to Photo 4. REPAIR

Structure	205/4	R/Conc Column	40	100.	0	.	0	.	0	.	0	.	40 ea.
-----------	-------	---------------	----	------	---	---	---	---	---	---	---	---	--------

Notes

Structure	207/4	P/S Conc Holl Pile	220	98.21	4	1.79	0	.	0	.	0	.	224 ea.
-----------	-------	--------------------	-----	-------	---	------	---	---	---	---	---	---	---------

Notes Note: Quantity field verified by underwater inspectors.

The following was noted by the underwater inspectors;

CS2: The northesast corner of Pile 10-13 has a 7ft6in x 18in x 2in spall with no exposed steel 11ft below the footing.

The northeast corner of Pile 4-1 has a 16in. x 6in. x 2in. spall with no exposed steel, 5ft. below the footing.

The northwest corner of Pile 11-17 has a 5ft. 6in. x 10in. x 2in. spall with no exposed steel, just below the footing.

The northeast corner of Pile 17-10 has a 13ft. x 12in. x 3in. spall with no exposed steel, 24in. below the footing.

Structure	215/4	R/Conc Abutment	70	100.	0	.	0	.	0	.	0	.	70 lf.
-----------	-------	-----------------	----	------	---	---	---	---	---	---	---	---	--------

Notes CS1: There is minor horizontal cracking to the top outside faces of both cheek walls at the cold joint of Abutment 1 - NEW.

FL DA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CID Report with PDF attachment(s)
COMPREHENSIVE

REPORT ID: INVT001A
Structure ID: 124116

Page 31 of 32
DATE PRINTED: 12/28/2011

Elements

Inspection Date: 11/18/2011WNFP

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Structur	220/4	R/C Sub Pile Cap/Ftg	8	47.06	9	52.94	0	.	0	.	0	.	17 ea.

Notes NOTE: Quantity change due to footings 19, 20 and 21 no longer being exposed.

CS1: The following was noted by the underwater inspection:

There are several corner scrapes up to 6in H x 5ft W x 3/4in D.

The footing have concrete formed sides that have vertical cracks with no corrosion bleedout up to 1/16in wide x full height. Several cracks have efflorescence.

CS2: The top northwest corner of footing 4 has a 24in x 12in x 2in spall with no exposed steel.

The top east corner of footing 9 near center point has a 30in x 9in x 2in spall with no exposed steel (Previously noted as a delamination).

The top northeast corner of footing 10 has a spall with no exposed steel 24in x 8in x 1in previously noted as a spall/delamination on the northwest corner of footing 10.

The top northeast corner of footing 16 has a spall with no exposed steel 15in x 12in x 1in. Previously noted as a spall/delamination on the northwest corner.

The following was noted by the underwater inspection:

Footing 5, southeast corner 18in below top of footing - spall with no exposed steel, 9in H x 9in W x 2in D - NEW.

Footing 8, southeast corner 10in below top of footing - spall with no exposed steel, 12in H x 6in W x 2in D - NEW.

Footing 10, northeast corner at top of footing - intermittent spall with no exposed steel, 28in H x 9in W x 2in D - NEW.

Footing 12, southwest corner 20in below top of footing, spall with no exposed steel, 6in x H 8in W x 2-1/2in D.

Footing 13, southeast corner 15in below top of footing, spall with no exposed steel, 12in H x 6in W x 1in D.

Footing 17, northeast and southeast corners 20in below top footing, spall with no exposed steel, 12in H x 12in W x 2in D.

Structur	234/4	R/Conc Cap	862	100.	0	.	0	.	0	.	0	.	862 lf.
----------	-------	------------	-----	------	---	---	---	---	---	---	---	---	---------

Notes

Structur	298/4	Pile Jacket Bare	2	100.	0	.	0	.	0	.	0	.	2 ea.
----------	-------	------------------	---	------	---	---	---	---	---	---	---	---	-------

Notes NOTE: This element is for the Pile Jackets installed on Piling 11-8 and 11-15.

Structur	387/4	P/S Fender/Dolphin	588	100.	0	.	0	.	0	.	0	.	588 lf.
----------	-------	--------------------	-----	------	---	---	---	---	---	---	---	---	---------

Notes Note: The quantity includes the three rectangular dolphins at the southeast corner of the fender and the three rectangular dolphins at the northwest corner of the fender.

CS3: The south fender starting at the 1st single plumb pile (12th cluster) from the west for the next 13 piles (55ft long), the steel driving tips are exposed up to 30in to 3ft height - NEW. Refer to Photo 5 and Diagram 1. REPAIR

Structur	396/4	Other Abut Slope Pro	2404	96.16	12	.48	84	3.36	0	.	0	.	2500 sf.
----------	-------	----------------------	------	-------	----	-----	----	------	---	---	---	---	----------

Notes Note: This element includes rock rubble rip rap and concrete block mats.

CS1: The rock inside the concrete block mats has settled up to 6in in several location - NEW.

CS2: There are 6 displaced concrete rip rap bags on the south slope protection under the structure.

CS3: The rock inside the concrete block mat on the north slope protection 8ft adjacent to the seawall cap has settled up to 16in and has undermined the slope in a 4ft x 3ft area - NEW. Refer to Photo 6. REPAIR

There is a 20ft x 4ft x 1ft of settlement to the concrete block mat on the southwest corner of footing 18 - NEW. Refer to Photo 7. REPAIR

FL DA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

Inspection/CID Report with PDF attachment(s)
COMPREHENSIVE

REPORT ID: INVT001A
Structure ID: 124116

Page 32 of 32
DATE PRINTED: 12/28/2011

Elements

Inspection Date: 11/18/2011WNFP

Span Id	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	Qty5	%5	T Qty
Structur	290/4	Channel	0	.	1	100.	0	.	0	.	0	.	1 ea.

Notes Note: The bulkheads were evaluated under this element as channel bank protection.

CS2: Some channel measurements have a 3ft. or greater change since the previous inspection. Reason for change may be due to the strong current altering the channel bottom.

The following was noted by the underwater inspectors:

There is scattered timber debris from the previous fender system along the new fender system.

At Bents 4 through 17, the groundline slopes upward up to 4ft. going away from the piling, on one or more sides. Several piling have minimal marine growth on the lower 4in. to 6in. - INCREASE.

CORRECTIVE ACTION TAKEN:

The north channel bulkhead cap has been repaired.

Structur	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.

Structur	478/4	MSE Walls	120	100.	0	.	0	.	0	.	0	.	120 lf.
----------	-------	-----------	-----	------	---	---	---	---	---	---	---	---	---------

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

Total Number of Elements: 19

Inspection Information

Inspection Date: 11.18.2011

Type: Regular NBI

Inspector: KNVOLSE-P - Steve Eorgan

Inspection Notes: Sufficiency Rating Calculation Accepted by KNVOLFA-P at 2011-12-06 13:52:56

LOAD CAPACITY EVALUATION:

The findings of this inspection reveal no reason to warrant a new analysis; therefore, the current load rating dated 8/8/07 results still govern.

Note: Element 298, Pile Jacket Bare, has been added to this report.

Structure Notes

BRIDGE OWNER: LEE COUNTY

TRAFFIC RESTRICTION: Based on the load rating analysis dated 8/8/07, the structure does not require posting. This structure is not posted.

Structure was inventoried from south to north on a west to east leg of a south to north roadway. Direction of stationing is used to describe deficiency locations (left is west).

This structure replaces bascule Bridge No. 124043.

Access to the bridge underside requires a boat with a 60ft. lift or an under bridge inspection vehicle with a lane shift traffic control setup.

Power boat used for groundline measurements and substructure inspection.

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

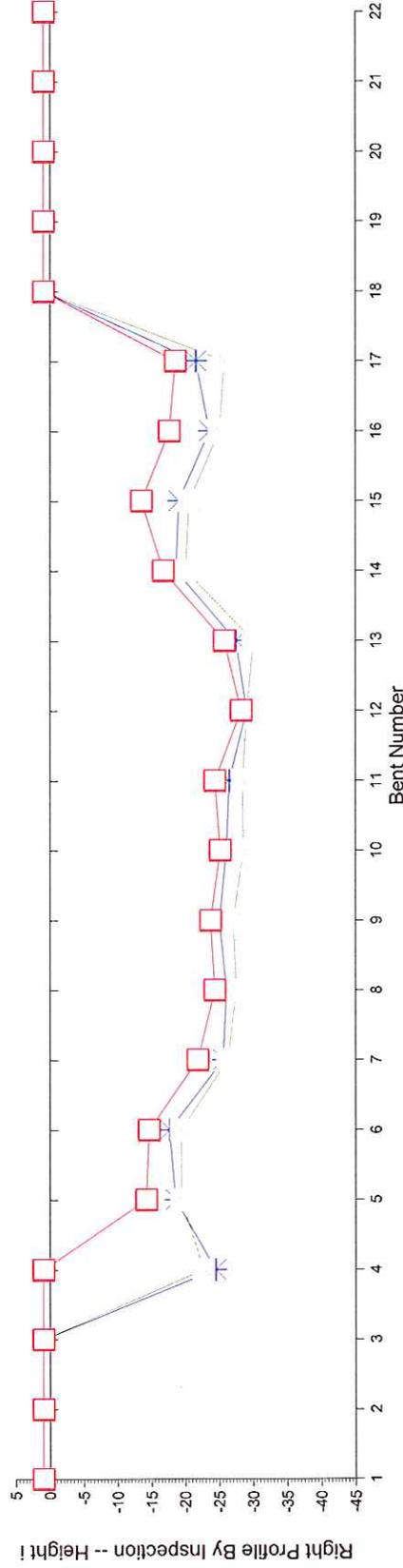
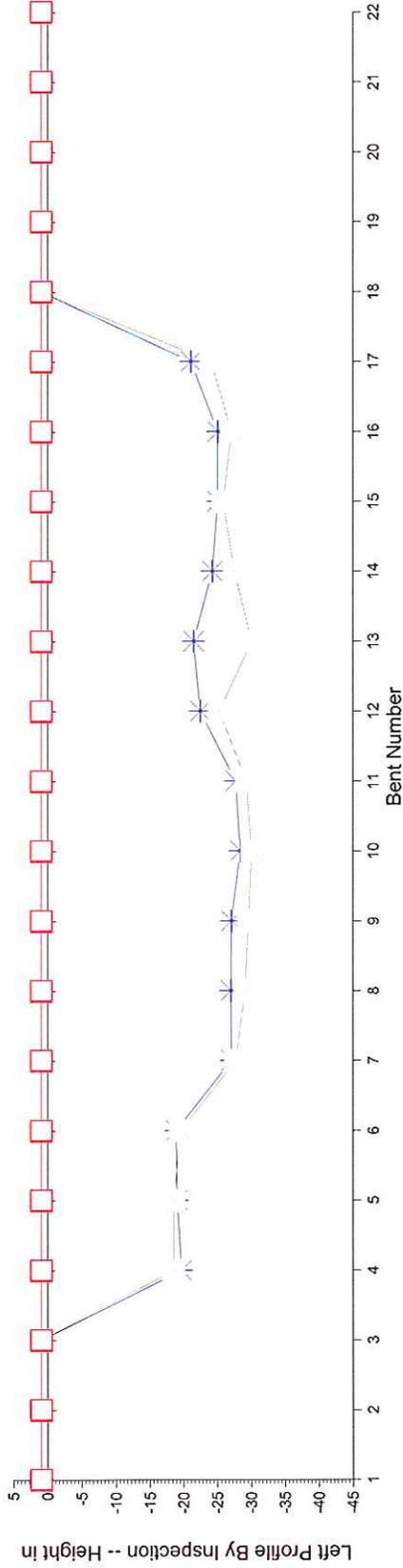
Bridge Profile Report

DATE PRINTED: 12/28/2011

Page 1 of 4

REPORT ID: INVT016

Structure #: 124116



FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM
 Bridge Profile Report

REPORT ID: INVT016
 Structure #: 124116

DATE PRINTED: 12/28/2011
 Page 2 of 4

Profile Data - Numerical Summary

Inspection Date and Key:	Bent #	Left Height	Right Height	(All Heights Are In Feet)
11/18/2011	1	-1	-1	-1
WNFP	2	-1	-1	-1
	3	-1	-1	-1
	4	18.5	22.6	22.6
	5	18.5	19.4	19.4
	6	19.5	19.3	19.3
	7	27.6	26.2	26.2
	8	29	27.5	27.5
	9	29.5	27	27
	10	30	28.5	28.5
	11	29.2	28.4	28.4
	12	25.2	29	29
	13	30	30	30
	14	27.4	20	20
	15	25.8	20.5	20.5
	16	27	25	25
	17	24	25.7	25.7
	18	-1	-1	-1
	19	-1	-1	-1
	20	-1	-1	-1
	21	-1	-1	-1
	22	-1	-1	-1

Air Temp:

Profile Notes:

Measurements referenced from the top of the footing.
 Waterline at top of footing 4 = 4ft.
 Note: Bents 1 to 3 and 18 to 22 are on dry land.

Inspection Date and Key: 11/30/2009 ESCS

1	-1	-1	-1
2	-1	-1	-1
3	-1	-1	-1
4	19.6	24.4	24.4

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM
 Bridge Profile Report

REPORT ID: INVT016
 Structure #: 124116

DATE PRINTED: 12/28/2011
 Page 3 of 4

Profile Data - Numerical Summary

Inspection Date and Key:	Bent #	Left Height	Right Height	(All Heights Are In Feet)
11/30/2009	5	19	18.5	
ESCS	6	18.8	17.6	
	7	27	25.5	
	8	26.9	26	
	9	27	25	
	10	28.3	26	
	11	27.6	26.4	
	12	22.4	29	
	13	21.4	27.4	
	14	24.2	18.6	
	15	25	19	
	16	25	23.5	
	17	21	21.5	
	18	-1	-1	
	19	-1	-1	
	20	-1	-1	
	21	-1	-1	
	22	-1	-1	

Air Temp: 1

Profile Notes:

Measurements referenced from the top of the footers.
 Waterline = 2.5ft.
 Note: A value of -1 indicates that location was out of the water during this inspection.

Inspection Date and Key: 11/15/2007 GPFO

1	-1	-1
2	-1	-1
3	-1	-1
4	-1	-1
5	-1	14.2
6	-1	14.6
7	-1	21.8
8	-1	24.3

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM
 Bridge Profile Report

REPORT ID: INVT016
 Structure #: 124116

DATE PRINTED: 12/28/2011
 Page 4 of 4

Profile Data - Numerical Summary

Inspection Date and Key:	Bent #	Left Height	Right Height	(All Heights Are In Feet)
11/15/2007 GPFO	9	-1	23.7	
	10	-1	25.1	
	11	-1	24.3	
	12	-1	28.2	
	13	-1	25.7	
	14	-1	16.7	
	15	-1	13.5	
	16	-1	17.6	
	17	-1	18.5	
	18	-1	-1	
	19	-1	-1	
	20	-1	-1	
	21	-1	-1	
	22	-1	-1	

Air Temp:

Profile Notes:

Measurements referenced to top of pier 4 footer.
 Waterline: 3.0ft

No left side measurements taken due to ongoing demolition.
 Bents 1 - 4 and 18 - 22 are on dryland.



**Routine Underwater Bridge Inspection Report
for
VOLKERT, INC.**

NBI Structure No. (8): 124116 (Structure A / Sanibel)

Underwater Date (93): 10/24/11

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: 18.0
 Max. Depth: 28ft.
 Type of Dive Insp.: SCUBA
 Type of Boat Used: 21ft.
 Water Type/Marine Growth: Salt-Tidal / Barnacles - Oysters

Previous Inspection:

Lead Diver: Hays, Stephen F. C.B.I. No.: 00438 Inspection Date: 10/07/2009

Inspection Personnel:

Field Personnel:	Title	C.B.I. No.:	Duty:	Signature:
Hoogland, Keith S.	C.B.I. Diver-Inspector	00341/Lead	Dive	
Tumaniszwilli, Alex P.	Diver-Inspector		Dive	
Young, Ryan C.	Diver-Inspector		Tend	

PILING/COLUMNS

ELEMENT: 207 HLW CORE 291: ea.

NOTE: Pile quantity was incorrect on the previous topside report, quantity was field verified.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	287	Do Nothing

Condition State:	QTY:	Recommended Feasible Action:
CS-2	4	Do Nothing

Pile 4-1: Northeast corner 5ft. below footing, spall, no exposed steel, 16in. H x 6in. W x 2in. D.
 Pile 10-13: Northeast corner 11ft. below footing, intermittent spall, no exposed steel, 7ft. 6in. H x 18in. W x 2in. D – NEW.
 Pile 11-17: Northwest corner below footing, spall, no exposed steel, 5ft. 6in. H x 10in. W x 2in. D.
 Pile 17-10: Northwest corner 24in. below footing, intermittent spall, no exposed steel, 13ft. H x 12in. W x 3in. D (entire pile length).

NOTE: Piles 6-1, 6-8, 6-15, 7-1, 7-2, 7-15, 11-7, 11-14, 11-20, 11-21, 13-7, 13-21, 14-5, 14-6, 14-7, 14-10, 14-11, 14-12, 14-17 through 21, 15-3, 15-4, 15-8 through 15-11 and all deficiencies were cleaned.

SUBMERGED FOOTING

ELEMENT: 220 R/CONCRETE 14: ea.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	8	Do Nothing

There are several corner scrapes up to 6in. H x 5ft. W x 3/4in. D.

The footing have concrete formed sides that have vertical cracks with no corrosion bleedout up to 1/16in. wide x full height. Several cracks have efflorescence.

Condition State:	QTY:	Recommended Feasible Action:
CS-2	6	Do Nothing

Footing	Location	Type	Comment	Size
5	Southeast corner 18in. below top of footing	Spall	No exposed steel	9in. H x 9in. W x 2in. D - NEW
8	Southeast corner 10in. below top of footing	Spall	No exposed steel	12in. H x 6in. W x 2in. D - NEW
10	Northeast corner at top of footing	Intermittent Spall	No exposed steel	28in. H x 9in. W x 2in. D - NEW
12	Southwest corner 20in. below top of footing	Spall	No exposed steel	6in. H x 8in. W x 2 1/2in. D.
13	Southeast corner 15in. below top of footing	Spall	No exposed steel	12in. H x 6in. W x 1in. D.
17	Northeast and southeast corners 20in. below top of footing	Spall	No exposed steel	12in. H x 12in. W x 2in. D

NOTE: Footing 4 and 6 and all deficiencies were cleaned.

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.

BOLT UNDERWATER SERVICES, INC.

Bridge ID: 124116
District: 01 South

Inspection Date: 10/24/11

CHANNEL

ELEMENT: 290 1: ea.

NOTE: The bulkheads were evaluated under this element as channel bank protection.

Condition State:	QTY:	Recommended Feasible Action:
CS-2	1	Do Nothing

There is scattered timber debris from the previous fender system along the new fender system.

On Bents 4 through 17, the groundline slopes upward going away from the piling up to 4ft. high on one or more sides. Several piling had minimal marine growth on the bottom 4in. to 6in. – *INCREASE*.

North Seawall: 1st panel west of the angle break on the west joint, 7ft. below the cap, spall with no steel, 6ft. H x 8in. W x 4in. D (extends to the groundline) – *NEW*.

JACKETS

ELEMENT: 298 PILE JACKET BARE 2: ea.

NOTE: Piles 11-8 and 11-15 have Jackets from the footing to the groundline approximately 5ft. in diameter due to damage during old bridge removal.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	2	Do Nothing

FENDER SYSTEM

ELEMENT: 387 P/S CONCRETE 588 lf.

NOTE: Quantity includes three rectangular dolphins at the southeast corner of the fender and three rectangular dolphins at the northwest corner of the fender. The lower wales are composite.

Condition State:	QTY:	Recommended Feasible Action:
CS-1	533	Do Nothing

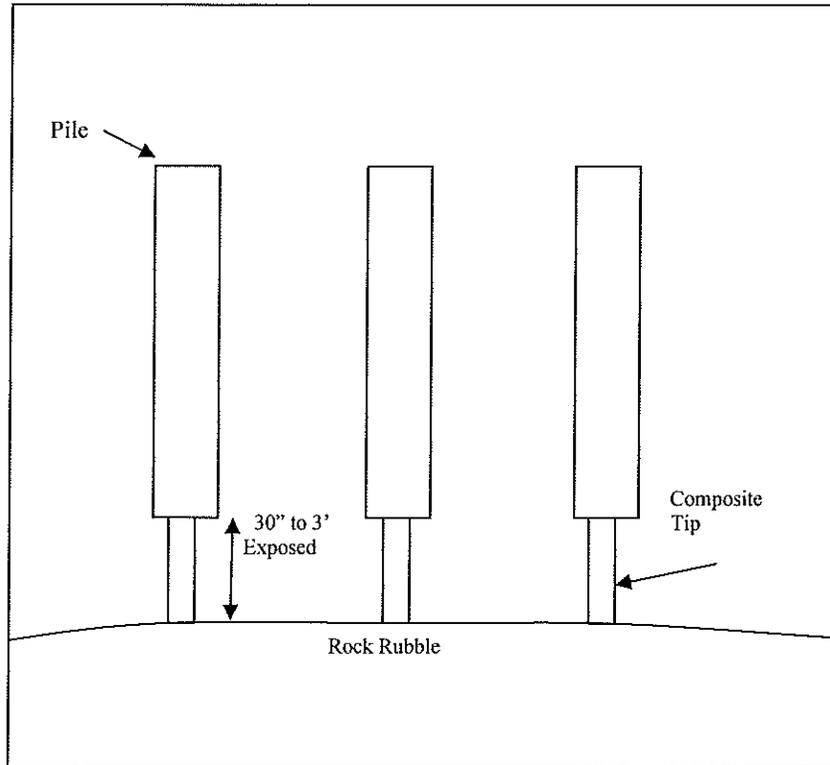
CS-3	55	REPAIR
------	----	--------

The south fender starting at the 1st single plumb pile (12th cluster) from the west, for the next 13 piles (55ft. long), the steel driving tips are exposed up to 30in. to 3ft. high – *NEW*.

INSPECTION NOTES: Divers inspected two hundred ninety-one 30in. piling in Bents 5 through 17, eighteen 30in. concrete piling in Bent 4, Jackets, Footing, Fender System and Channel.

STRUCTURE NOTES: Structure inventoried south to north

Fender Pile Sketch



Not to Scale