

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
(TRAFFIC SIGNAL MAST ARM INSPECTION REPORT)

Structure ID: 70M081

Inspection

DISTRICT: D5 - Deland

INSPECTION DATE: 3/18/2026 BTGR

BY:	Ayres Associates	STRUCTURE NAME:	US-1 (Washington Ave.) at Harrison St
OWNER:	1 State Highway Agency	YEAR BUILT:	2003
MAINTAINED BY:	4 City/Municipal Hwy Agy	SECTION NO.:	70 030 000
STRUCTURE TYPE:	3 Steel - Traffic Signal Mast Arm	MP:	1.868
LOCATION:	1.8 Miles North of SR-50	ROUTE:	00001
SERV. TYPE ON:	Traffic Signal Mast Arm	FACILITY CARRIED:	US1-Washington Ave
SERV. TYPE UNDER:	1 Highway	FEATURE INTERSECTED:	Harrison St
MAST ARM CODE:	2	MAST ARM DESCRIPTION:	Mast arm is inside the mast arm boundary area

☐ FUNCTIONALLY OBSOLETE☐ STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 3/18/2026 UNDERWATER: N/A

SUFFICIENCY RATING: -1
HEALTH INDEX: 98.24

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SERV. TYPE ON: Traffic Signal Mast Arm	FACILITY CARRIED: US1-Washington Ave
SERV. TYPE UNDER: 1 Highway	FEATURE INTERSECTED: Harrison St
MAST ARM CODE: 2	MAST ARM DESCRIPTION: Mast arm is inside the mast arm boundary area

- ☐ 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: 3/18/2026 UNDERWATER: N/A

OVERALL NBI RATINGS:

DECK: N N/A (NBI)	CHANNEL: N N/A (NBI)
SUPERSTRUCTURE: 7 Good	CULVERT: N N/A (NBI)
SUBSTRUCTURE: 5 Fair	SUFF. RATING: -1
PERF. RATING: Performance Rating Not applicable or not calculable.	HEALTH INDEX: 98.24

FIELD PERSONNEL / TITLE / NUMBER:

INITIALS

Howell, Tim - Bridge Inspector (CBI #00338) (lead)

Vieau, Dick - Assistant Bridge Inspector

TPH

REVIEWING BRIDGE INSPECTION SUPERVISOR:

Maslyn, Rick - Bridge Inspector (CBI #00271)

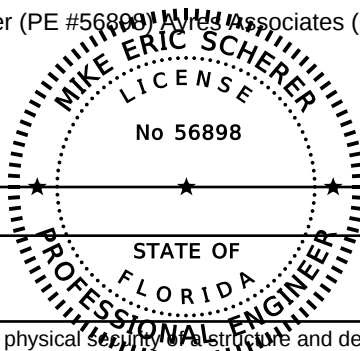
RM

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:

Scherer, Michael - Professional Engineer (PE #56898) Ayres Associates (CA #4356)
 8875 Hidden River Pkwy
 Suite 200
 Tampa FL 33637

SIGNATURE: _____

DATE: _____



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL.

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

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Inspection

INSPECTION DATE: 3/18/2026 BTGR

All Elements

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8480 / 4	Mast Arm Foundation	0	.	0	.	2	100	0	.	2 (EA)
UNIT 0	1000 / 4	Corrosion	0	.	0	.	2	100	0	.	2 (EA)

Element Inspection Notes:

8480/4 This element consists of 2 foundations.

NOTE: The F2 foundation is below sidewalk.

CS3 (1000):

F1 and F2 - The grout rings are hollow sounding and have cracking with moderate to heavy efflorescence built up around the base of the grout pad and the anchor bolt threads, leveling nuts and washers below the base plate have moderate to heavy flaking corrosion and potential section loss viewed with a borescope inserted thru the terminal compartment access (previously no corrosion or efflorescence noted). INCREASE. Refer to Photos 1 and 2. REPAIR. (2 EA)

F2 - The anchor bolt stand-off distance is greater than the diameter of the anchor bolt. Bolt diameter = 1 1/2 in. & average estimated stand-off distance = 2 7/8 in. NO CHANGE. Refer to Photo 3. REPAIR.

INCIDENTAL:

F1 - The grout ring is missing a drain hole. NEW. Refer to Photo 4. REPAIR.

F2 - The grout ring drain hole is installed just below the base plate not allowing proper drainage. NEW. REPAIR.

PREVIOUS CORRECTIVE ACTION EVALUATION:

F1 & F2 - Remove grout pad. Clean / paint all corrosion and tighten any loose leveling nuts. Install structural grout pad in accordance with FDOT Spec. 649-7. Grout rings have not been removed since the 2021 inspection.

FOUNDATION MEASUREMENTS:

Grout Pad (non-structural): F1 = Yes; F2 = Yes.

Base Plate Thickness: F1 = 2 in.; F2 = 1 3/4 in.

Bolt Diameter: F1 = 1 1/2 in.; F2 = 1 1/2 in.

Nut Height: F1 = 1 1/2 in.; F2 = 1 1/4 in.

Washer Thickness (above & below base plate): F1 = 1/8 in.; F2 = 1/8 in.

Average Estimate Distance Bottom of Base Plate to Foundation: F1 = 2 1/4 in.; F2 = 4 1/2 in.

Average Estimated Stand-Off Distance: F1 = 5/8 in.; F2 = 2 7/8 in.

1000/4 Refer to Parent Element

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INSPECTION DATE: 3/18/2026 BTGR

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8481 / 4	Metal Mast Arm Vertical	1	50	1	50	0	.	0	.	2 (EA)
UNIT 0	1000 / 4	Corrosion	0	.	1	100	0	.	0	.	1 (EA)
UNIT 0	8518 / 4	Galvanized Steel	119	99.17	0	.	0	.	1	0.83	120 sq.ft
UNIT 0	3440 / 4	Eff (Stl Protect Coat)	0	.	0	.	0	.	1	100	1 sq.ft

Element Inspection Notes:

8481/4 This element consists of 2 verticals.

NOTE: All verticals have a properly connected ground wire.

V1 - No deficiencies.

CS2 (1000):

V2 - The column base plate bottom outside edge has intermittent corrosion and pack rust at the grout pad interface. NEW. Refer to Photo 5. REPAIR. (1 EA)

The following thickness measurements were taken below access hatch and below the moment connection:

V1= 0.190 in.

V2= 0.190 in.

Length of mast arm vertical members in linear feet.

V1 - 22.0 ft.

V2 - 22.0 ft.

1000/4 Refer to Parent Element

8518/4 CS4 (3440):
V2 - Failed, no protection of underlying metal on areas of base plate with corrosion. (1SF)

3440/4 Refer to Parent Element

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8484 / 4	Metal Mast Arm Horizontal	3	75	1	25	0	.	0	.	4 (EA)
UNIT 0	1020 / 4	Connection	0	.	1	100	0	.	0	.	1 (EA)
UNIT 0	8518 / 4	Galvanized Steel	495	100	0	.	0	.	0	.	495 sq.ft

Element Inspection Notes:

8484/4 This element consists of 4 horizontals.

CS2 (1020):

V1/H2 - The moment connection has gap up to a 0.020 in. wide between the plates at Bolt #2, but all bolts are tight. NEW. Refer to Photo 6. (1 EA)

CS1:

V2/H3 - Moment Connection Bolt #6 is not a galvanized A325 structural bolt. It appears to be a grade 9 zinc plated fastener. The previously noted corrosion was cleaned and painted by the inspector during the 2026 Inspection. DECREASE.

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INCIDENTAL:

V1/H1, V2/H2, V3/H3 and V4/H4 - There is a heavy accumulation of bird nesting material inside the horizontal arm interiors at the moment connections viewed with a borescope inserted thru the arm drain holes. No corrosion could be seen thru the nesting material and D-meter readings at 3 in., 12 in. & 24 in. from the moment connection taken at the 5, 6 and 7 o'clock positions did not indicate any reduction in section at this time. NEW. Refer to Photos 7 thru 10.

The following thickness measurements were taken on each horizontal member at the moment connection:

V1/H1 = 0.260 in.

V1/H2 = 0.235 in.

V2/H3 = 0.235 in.

V2/H4 = 0.235 in.

Length of mast arm horizontal members in linear feet:

V1/H1 - 60.0 ft.

V1/H2 - 47.0 ft.

V2/H3 - 45.0 ft.

V2/H4 - 43.0 ft.

Minimum Vertical Clearance:

V1/H1 - 19.3 ft. (to sign)

V1/H2 - 17.7 ft. (to sign)

V2/H3 - 17.9 ft. (to west signal)

V2/H4 - 18.3 ft. (to north signal)

1020/4 Refer to Parent Element

8518/4 **CORRECTIVE ACTION TAKEN:**
V1/H1, V1/H2, V2/H3 & V2/H4 - The previously noted moment connection plate discoloration and early signs of light corrosion was cleaned and painted by the inspector during the 2026 Inspection.

Total Number of ADE Elements*: 3

*excluding defects/protective systems

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Inspection

INSPECTION DATE: 3/18/2026 BTGR

Inspector Recommendations

UNIT: UNIT 0 MISCELLANEOUS

ELEMENT/ENV: 8480 / 4 Mast Arm Foundation

ELEM CATEGORY: Other Elements

CONDITION STATE			PRIORITY
3	MMS Quantity: 2 mh	Element Estimated Quantity: 2 (EA)	3
WORK ORDER RECOMMENDATION:			
F1 & F2 - Remove grout rings, clean & paint bolts & install wire screens per FDOT Spec. 649-8.			

ELEMENT/ENV: 8484 / 4 Metal Mast Arm Horizontal

ELEM CATEGORY: Other Elements

CONDITION STATE			PRIORITY
1 , 2	MMS Quantity: 4 mh	Element Estimated Quantity: 4 (EA)	3
WORK ORDER RECOMMENDATION:			
V1H1 V1H2 V2H3 and V2H4 - Install screening at moment connection plates.			

Structure Notes

Maintaining Agency:

City of Titusville
Kevin Cook, P.E.
Public Works Director
2910 Garden Street
Titusville, FL 32780
321-567-3846
kevin.cook@titusville.com

Joseph M. Arena
Traffic/Electrical Maintenance Supervisor
101 N. Singleton Av.
Titusville Fl, 32796
Ph. 321-567-3820
joey.arena@titusville.com

The year built was input as 2003 based on the fiscal design year 2002 found for FIN Project ID #237703-1-52-01 plus 1 year.

INSPECTION NOTES: BTGR 3/18/2026

A 40 ft. insulated bucket truck was utilized for inspection.

NBI Item (60) Substructure rating is coded a 5 - Fair due to excessive anchor bolt stand-off distance at Foundation F2 and heavy corrosion on the anchor bolts & leveling nuts below the base plate with potential section loss at the F1 & F2 Foundations.

The inspection frequency for this inspection will be increased to 12 months to monitor corrosion until the anchor bolts can adequately be evaluated.

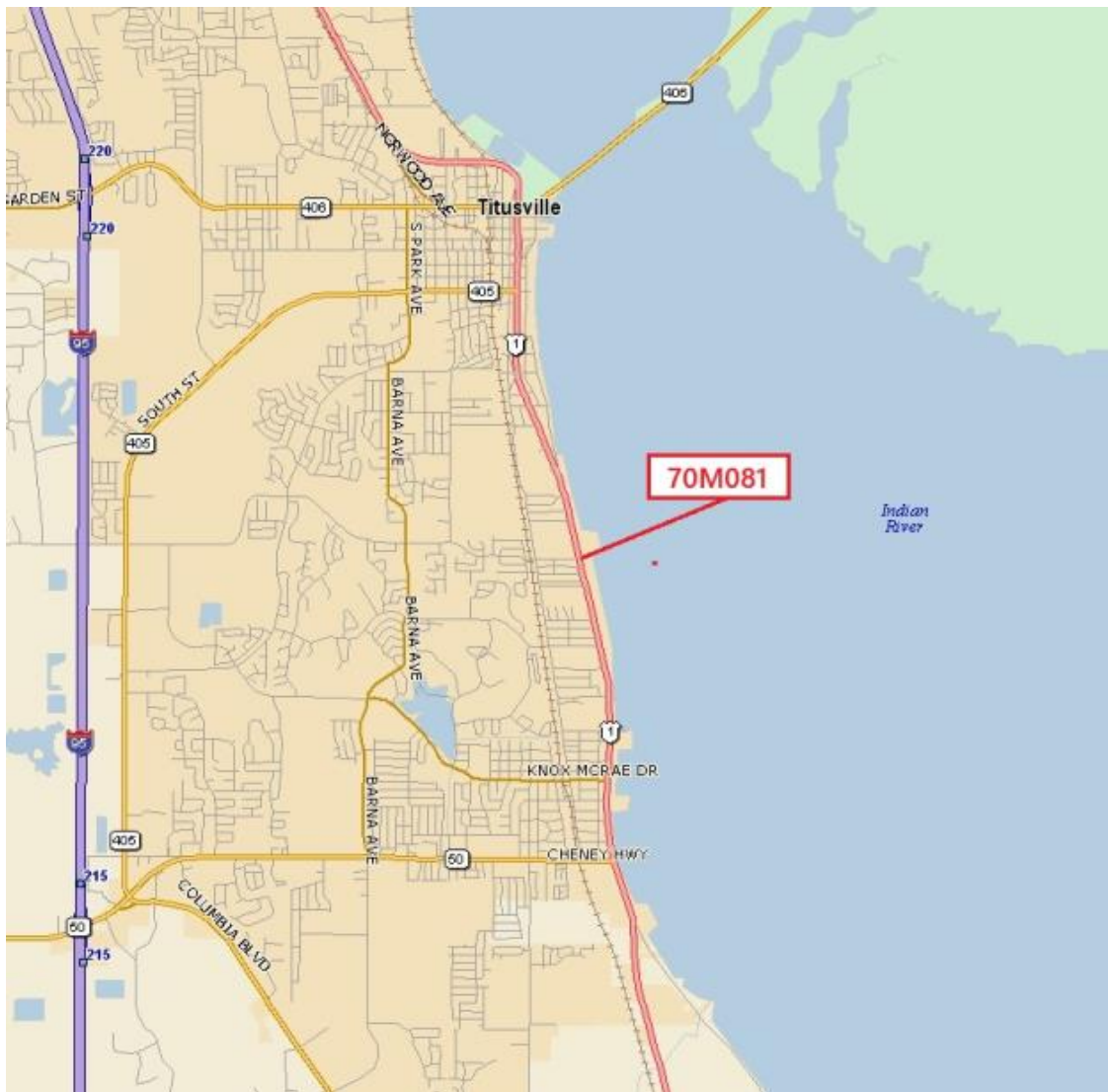
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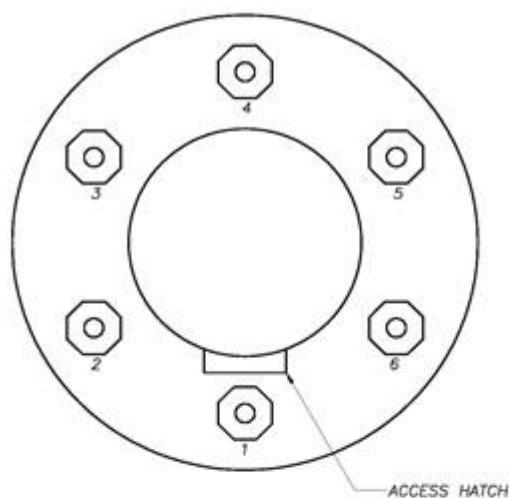
US-1 (Washington Ave.) at Harrison St. - 1.8 Miles North of SR-50 (Cheney Hwy.)

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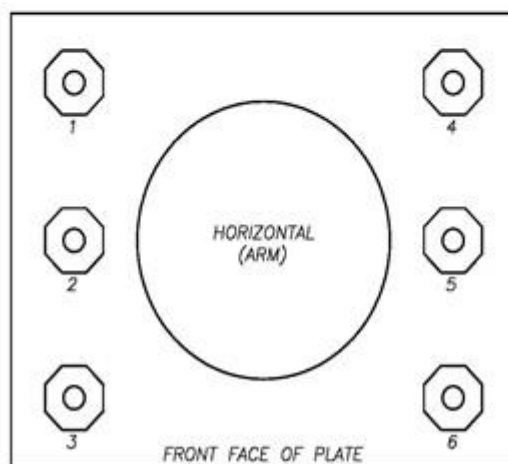
Structure ID: 70M081
 DISTRICT: D5 - Deland

Inspection

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TSMA ANCHOR BOLT NUMBERING SCHEME



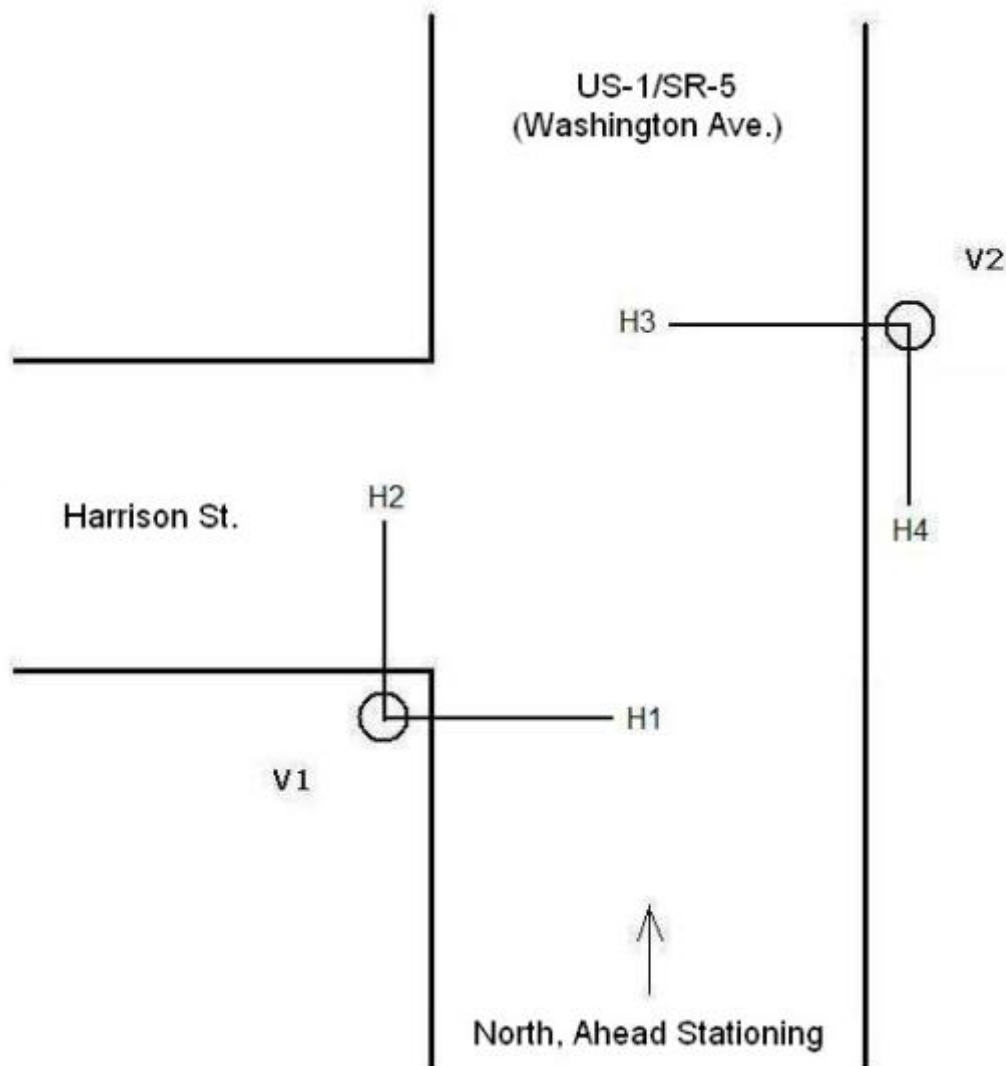
TSMA MOMENT CONNECTION BOLT NUMBERING SCHEME

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Intersection Layout

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Intersection Overview (Looking North)

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Photo 1: Element 8480 / Mast Arm Foundation

F1 - Typical heavy anchor bolt leveling nut and washer corrosion below base plate.

REPAIR RECOMMENDATION:

F1 & F2 - Remove grout rings, clean & paint bolts & install wire screens per FDOT Spec. 649-8.

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Photo 2: Element 8480 / Mast Arm Foundation

F2 - Typical moderate to heavy anchor bolt thread, leveling nut and washer corrosion below base plate.

REPAIR RECOMMENDATION:

F1 & F2 - Remove grout rings, clean & paint bolts & install wire screens per FDOT Spec. 649-8.

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Photo 3: Element 8480 / Mast Arm Foundation

F2 - Excess anchor bolt stand-off distance.

REPAIR RECOMMENDATION:

F1 & F2 - Remove grout rings, clean & paint bolts & install wire screens per FDOT Spec. 649-8.

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INSPECTION DATE: 3/18/2026 BTGR



Photo 4: Element 8480 / Mast Arm Foundation

F1 - Grout ring missing the drain hole.

REPAIR RECOMMENDATION:

F1 & F2 - Remove grout rings, clean & paint bolts & install wire screens per FDOT Spec. 649-8.

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Photo 5: Element 8481 / Mast Arm Vertical

V2 - Typical corrosion around column base plate bottom outside edge at the grout pad interface.

REPAIR RECOMMENDATION:

F1 & F2 - Remove grout rings, clean & paint bolts & install wire screens per FDOT Spec. 649-8.

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Photo 6: Element 8484 / Mast Arm Horizontal

V1/H2 - Moment connection gap between plates at Bolt #2.

REPAIR RECOMMENDATION:
None.

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Photo 7: Element 8484 / Mast Arm Horizontal

V1/H1 - Heavy bird nesting material inside horizontal arm near the moment connection.

REPAIR RECOMMENDATION:

V1H1 V1H2 V2H3 and V2H4 - Install screening at moment connection plates.

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Photo 8: Element 8484 / Mast Arm Horizontal

V2/H2 - Heavy bird nesting material inside horizontal arm near the moment connection.

REPAIR RECOMMENDATION:

V1H1 V1H2 V2H3 and V2H4 - Install screening at moment connection plates.

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Photo 9: Element 8484 / Mast Arm Horizontal

V3/H3 - Heavy bird nesting material inside horizontal arm near the moment connection.

REPAIR RECOMMENDATION:

V1H1 V1H2 V2H3 and V2H4 - Install screening at moment connection plates.

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Inspection

INSPECTION DATE: 3/18/2026 BTGR



Photo 10: Element 8484 / Mast Arm Horizontal

V4/H4 - Heavy bird nesting material inside horizontal arm near the moment connection.

REPAIR RECOMMENDATION:

V1H1 V1H2 V2H3 and V2H4 - Install screening at moment connection plates.

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M081

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 4/27/2026

Description

Structure Unit Identification

Bridge/Unit Key: 70M081 1
 Structure Name: US-1 (Washington Ave.) at Harrison St
 Description: TSMA
 Type: M - Main

Structure Identification

Admin Area: Space Coast
 District (2): D5 - Deland
 County (3): (70) Brevard
 Location (9): 1.8 Miles North of SR-50
 FIPS State/Region (1): 12 Florida Region 4-Atlanta
 NBIS Bridge Len (112): N - Does not meet NBI Length
 Maint. Resp. (21): 4 City/Municipal Hwy Agcy
 Owner (22): 1 State Highway Agency
 Previous Structure:
 2nd Previous Structure:
 Replacement Structure:

Age and Service

Year Built (27): 2003
 Year Reconstructed (106): 0
 Type of Service On (42a): Traffic Signal Mast Arm
 Under (42b): 1 Highway

Structure Type and Material

Main Span Material (43A): 3 Steel
 Main Span Design (43B): Traffic Signal Mast Arm

NBI Rating

Superstructure (59): 7 Good
 Substructure (60): 5 Fair

General Structure Information

Electrical Devices: Traffic control sys only
 Maintenance Yard: 590-Cocoa (590)

Mast Arm Managing Agency ID:
 Mast Arm Code: 2
 Mast Arm Description: Mast arm is inside the mast arm boundary area

Appraisal

Minimum Vertical Clearance

Over Structure (53): 99.99 ft
 Under (reference) (54a): H Hwy beneath struct
 Under (54b): 0 ft

Minimum Lateral Underclearance

Reference (55a): H Hwy beneath struct
 Right Side (55b): 0 ft
 Left Side (56): 0 ft

Schedule

Current Inspection

Inspection Date: 03/18/2026
 Inspector: KNAAATH - Tim Howell
 Bridge Group: CAT71
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required: ☒

Next Inspection Date Scheduled

NBI: 03/18/2031
 Element: 03/18/2027
 Other/Special: 03/18/2027
 Inventory Photo Update Due: 03/31/2031

Inspection Types Performed

NBI ☒ Element ☒ Other Special ☒

Inspection Intervals Required (92) Frequency (92) Last Date (93) Inspection Resources

Other Special ☒	12 mos	03/18/2026	Crew Hours: 2
NBI	60 mos (91)	03/18/2026 (90)	Flagger Hours: 0
			Helper Hours: 0
			Snooper Hours: 0

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M081

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 4/27/2026

Elements

Inspection Date: 03/18/2026 BTGR

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8480 / 4	Mast Arm Foundation	0	.	0	.	2	100	0	.	2 (EA)
UNIT 0	1000 / 4	Corrosion	0	.	0	.	2	100	0	.	2 (EA)

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8481 / 4	Metal Mast Arm Vertical	1	50	1	50	0	.	0	.	2 (EA)
UNIT 0	1000 / 4	Corrosion	0	.	1	100	0	.	0	.	1 (EA)
UNIT 0	8518 / 4	Galvanized Steel	119	99.17	0	.	0	.	1	0.83	120 sq.ft
UNIT 0	3440 / 4	Eff (Stl Protect Coat)	0	.	0	.	0	.	1	100	1 sq.ft

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
UNIT 0	8484 / 4	Metal Mast Arm Horizontal	3	75	1	25	0	.	0	.	4 (EA)
UNIT 0	1020 / 4	Connection	0	.	1	100	0	.	0	.	1 (EA)
UNIT 0	8518 / 4	Galvanized Steel	495	100	0	.	0	.	0	.	495 sq.ft

Total Number of ADE Elements*: 3

*excluding defects/protective systems

Inspection Information**Inspection Date:** 03/18/2026**Type:** Regular NBI**Inspector:** KNAAATH - Tim Howell**Inspection Notes:** A 40 ft. insulated bucket truck was utilized for inspection.

NBI Item (60) Substructure rating is coded a 5 - Fair due to excessive anchor bolt stand-off distance at Foundation F2 and heavy corrosion on the anchor bolts & leveling nuts below the base plate with potential section loss at the F1 & F2 Foundations.

The inspection frequency for this inspection will be increased to 12 months to monitor corrosion until the anchor bolts can adequately be evaluated.

Structure Notes

Maintaining Agency:

City of Titusville
Kevin Cook, P.E.
Public Works Director
2910 Garden Street
Titusville, FL 32780
321-567-3846
kevin.cook@titusville.com

Joseph M. Arena
Traffic/Electrical Maintenance Supervisor
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The year built was input as 2003 based on the fiscal design year 2002 found for FIN Project ID #237703-1-52-01 plus 1 year.

Schedule Notes

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M081

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 4/27/2026

Under Route Information

Roadway Identification

NBI Structure No (8): 70M081
 Position/Prefix (5): A - 1st Route Under
 Kind Hwy (Rte Prefix): 2 U.S. Numbered Hwy
 Design Level of Service: 1 Mainline
 Route Number/Suffix: 00001 / 0 N/A (NBI)
 District (2): D5 - Deland
 County (3): (70) Brevard
 Place Code (4): Titusville
 Feature Intersect (6): Harrison St
 Roadway Name: US-1 (Washington Ave)
 Mile Point (11): 1.868
 Latitude (16): 028d35'03.1" Long (17): 080d48'05.4"

Roadway Traffic and Accidents

Lanes (28): 4 Medians: 1 Speed: 45 mph

Roadway Classification

Nat. Hwy Sys (104): 1 On the NHS
 National base Net (12): 1 - On Base Network
 LRS Inventory Rte (13a): 70 030 000 Sub Rte (13b): 00
 Functional Class (26): 14 Urban Other Princ
 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): 0 ft
 Horiz. (47): 0 ft Roadway (51): 0 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)

**FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM**

REPORT ID: INSP005

Structure ID: 70M081

**Inspection/CIDR Report
TRAFFIC SIGNAL MAST ARM**

DATE PRINTED: 4/27/2026

Under Route Information**Roadway Identification**

NBI Structure No (8): 70M081
Position/Prefix (5): B - 2nd Route Under
Kind Hwy (Rte Prefix): 5 City Street
Design Level of Service: 1 Mainline
Route Number/Suffix: 00000 / 0 N/A (NBI)
District (2): D5 - Deland
County (3): (70) Brevard
Place Code (4): Titusville
Feature Intersect (6): Harrison St
Roadway Name: Harrison St
Mile Point (11): 0.000
Latitude (16): 028d35'03.1" Long (17): 080d48'05.4"

Roadway Traffic and Accidents

Lanes (28): 2 Medians: 0 Speed: 25 mph

Roadway Classification

Nat. Hwy Sys (104): 0 Not on NHS
National base Net (12): 0 - Not on Base Network
LRS Inventory Rte (13a): 70 000 000 Sub Rte (13b): 00
Functional Class (26): 19 Urban Local
Federal Aid System: OFF
Defense Hwy (100): 0 Not a STRAHNET hwy
Direction of Traffic (102): 2 2-way traffic
Emergency: ☐

Roadway Clearances

Vertical (10): 0 ft
Horiz. (47): 0 ft Roadway (51): 0 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)