

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

Structure ID: 70M084

Inspection

DISTRICT: D5 - Deland

INSPECTION DATE: 3/19/2026 JNEN

BY:	Ayres Associates	STRUCTURE NAME:	US-1 (Washington Ave.) at Grace St
OWNER:	1 State Highway Agency	YEAR BUILT:	2011
MAINTAINED BY:	4 City/Municipal Hwy Agy	SECTION NO.:	70 030 000
STRUCTURE TYPE:	3 Steel - Traffic Signal Mast Arm	MP:	3.078
LOCATION:	0.5 Miles South of SR-405	ROUTE:	00001
SERV. TYPE ON:	Traffic Signal Mast Arm	FACILITY CARRIED:	US1-Washington Ave
SERV. TYPE UNDER:	1 Highway	FEATURE INTERSECTED:	Grace 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: 3/19/2026 UNDERWATER: N/A

SUFFICIENCY RATING: -1
HEALTH INDEX: 99.83

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SERV. TYPE UNDER: 1 Highway	FEATURE INTERSECTED: Grace 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: 3/19/2026 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: 7 Good	SUFF. RATING: -1
PERF. RATING: Performance Rating Not applicable or not calculable.	HEALTH INDEX: 99.83

FIELD PERSONNEL / TITLE / NUMBER:

INITIALS

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

TPH

Vieau, Dick - Assistant Bridge Inspector

REVIEWING BRIDGE INSPECTION SUPERVISOR:

Maslyn, Rick - Bridge Inspector (CBI #00271)

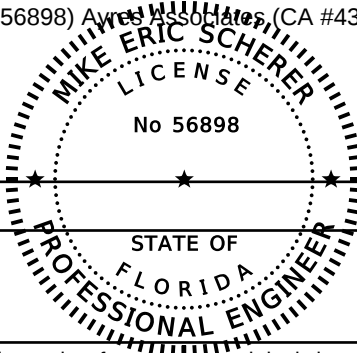
RM

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
 NOT CONSIDERED SIGNED AND SEALED
 AND THE SIGNATURE MUST BE VERIFIED
 ON ANY ELECTRONIC COPIES.

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

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Structure ID: 70M084
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Inspection

INSPECTION DATE: 3/19/2026 JNEN

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	3	100	0	.	0	.	0	.	3 (EA)

Element Inspection Notes:

8480/4 This element consists of 2 foundations.

NOTE: The anchor bolts below the base plate each have a full height & half height nuts installed. The stand-off measurement reflects the un-braced anchor bolt length between the top of the foundation and bottom of the bottom leveling nut.

F2 - No deficiencies noted.

INCIDENTAL:

F1 - The wire screen is slightly damaged on the east side, but is still functional at this time. NO CHANGE.

CORRECTIVE ACTION TAKEN:

F1 & F2 - Heavy dirt & debris was removed from below the base plates and the anchor bolts & leveling nuts were painted by the inspectors during the 2026 Inspection.

PREVIOUS CORRECTIVE ACTION EVALUATION:

F1 - Clean the dirt and debris below the base plate and replace the vermin guard in accordance with FDOT Spec 649-6. No repairs have been performed.

FOUNDATION MEASUREMENTS:

Wire Screens: F1 = Yes; F2 = Yes.

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

Jam Nut Height: F1 = 1 in.; F2 = 1 in.

Washer Thickness (above and below base plates): F1 = 1/4 in., F2 = 1/4 in.

Distance from Bottom of Base Plate to Foundation: F1 = 3 in.; F2 = 2 3/4 in.

Stand-Off Distance (un-braced length): F1 = 1 in.; F2 = 3/4 in.

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	3	100	0	.	0	.	0	.	3 (EA)
UNIT 0	8518 / 4	Galvanized Steel	288	100	0	.	0	.	0	.	288 sq.ft

Element Inspection Notes:

8481/4 This element consists of 3 verticals.

NOTE: All verticals have a properly connected ground wire.

INCIDENTAL:

V1, V2 and V3 - The terminal compartment covers are missing the weatherproof gaskets. NEW. Refer to Photo 3. REPAIR.

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V1 - The terminal compartment cover has (1) of (4) bolts sheared off, but cover is secure. NEW. Refer to Photo 4.

V1 - There is a heavy accumulation of nesting debris within the vertical at the terminal compartment. NEW. Refer to Photo 5. REPAIR.

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

V1= 0.380 in.

V2= 0.380 in.

V3= 0.380 in.

Length of mast arm vertical members in linear feet.

V1 - 22.0 ft.

V2 - 22.0 ft.

V3 - 22.0 ft.

8518/4 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	515	100	0	.	0	.	0	.	515 sq.ft

Element Inspection Notes:

8484/4 This element consists of 4 horizontals.

CS2 (1020):

V2/H3 - The moment connection has a 1/32 in. gap between the plates at Bolts #2 and #5, but all bolts are tight. NEW. Refer to Photos 6 thru 9. (1 EA)

INCIDENTAL:

V1/H1, V2/H2, V3/H3 & V4/H4 - The horizontal arm interiors have a heavy accumulation of bird nesting material viewed with a borescope thru the arm drain holes. 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 Photo 10. REPAIR.

V2/H2 - There is a bird nest between the moment connection plates. NEW. Refer to Photo 11. REPAIR.

V2/H2, V2/H3 and V3/H4 - The mast arm splice bolts are missing washers and the holes are oversized, therefore the bolts have none or little clamping affect. NEW. Refer to Photos 12 and 13. REPAIR.

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

V1/H1 = 0.320 in.

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V2/H2 = 0.260 in.

V2/H3 = 0.380 in.

V3/H4 = 0.320 in.

Length of mast arm horizontal members in linear feet:

V1/H1 - 47.0 ft.

V2/H2 - 38.0 ft.

V2/H3 - 60.0 ft.

V3/H4 - 45.0 ft.

Minimum Vertical Clearance:

V1/H1 - 18.7 ft. (to east signal)

V2/H2 - 19.0 ft. (to east signal)

V2/H3 - 18.6 ft. (to south signal)

V3/H4 - 18.5 ft. (to west signal)

1020/4 Refer to Parent Element

8518/4 Refer to Parent Element

Total Number of ADE Elements*: 3

*excluding defects/protective systems

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Inspector Recommendations

UNIT: UNIT 0**MISCELLANEOUS****ELEMENT/ENV: 8480 / 4 Mast Arm Foundation****ELEM CATEGORY: Other Elements**

CONDITION STATE			PRIORITY
1	MMS Quantity: 1 mh	Element Estimated Quantity: 1 (EA)	3
WORK ORDER RECOMMENDATION:			
F2 - Replace the 2 missing anchor bolt covers.			
1	MMS Quantity: 1 mh	Element Estimated Quantity: 1 (EA)	3
WORK ORDER RECOMMENDATION:			
F1 - Remove debris and vermin nesting material from below base plate.			

ELEMENT/ENV: 8481 / 4 Metal Mast Arm Vertical**ELEM CATEGORY: Other Elements**

CONDITION STATE			PRIORITY
1	MMS Quantity: 3 mh	Element Estimated Quantity: 3 (EA)	3
WORK ORDER RECOMMENDATION:			
V1 V2 & V3 - Install weatherproof gasket for terminal compartment cover per FDOT Index 649-031.			
1	MMS Quantity: 1 mh	Element Estimated Quantity: 1 (EA)	3
WORK ORDER RECOMMENDATION:			
V1 - Remove vermin nesting material from within column at the terminal compartment.			

ELEMENT/ENV: 8484 / 4 Metal Mast Arm Horizontal**ELEM CATEGORY: Other Elements**

CONDITION STATE			PRIORITY
1 , 2	MMS Quantity: 3 mh	Element Estimated Quantity: 3 (EA)	3
WORK ORDER RECOMMENDATION:			
V2H2 V2H3 and V3H4 - Install flat washers on the mast arm splice bolts.			
1 , 2	MMS Quantity: 3 mh	Element Estimated Quantity: 3 (EA)	3
WORK ORDER RECOMMENDATION:			
Remove bird nests from H2 moment connection plates & install screening at H1 H2 H3 & H4.			

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INSPECTION DATE: 3/19/2026 JNEN

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

Plans are available at the District 5 Structures Maintenance office.

The year built is 2011 and is based on date of final acceptance. Structures were built under Project #418647-1-52-01.

INSPECTION NOTES: **JNEN** **3/19/2026**

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

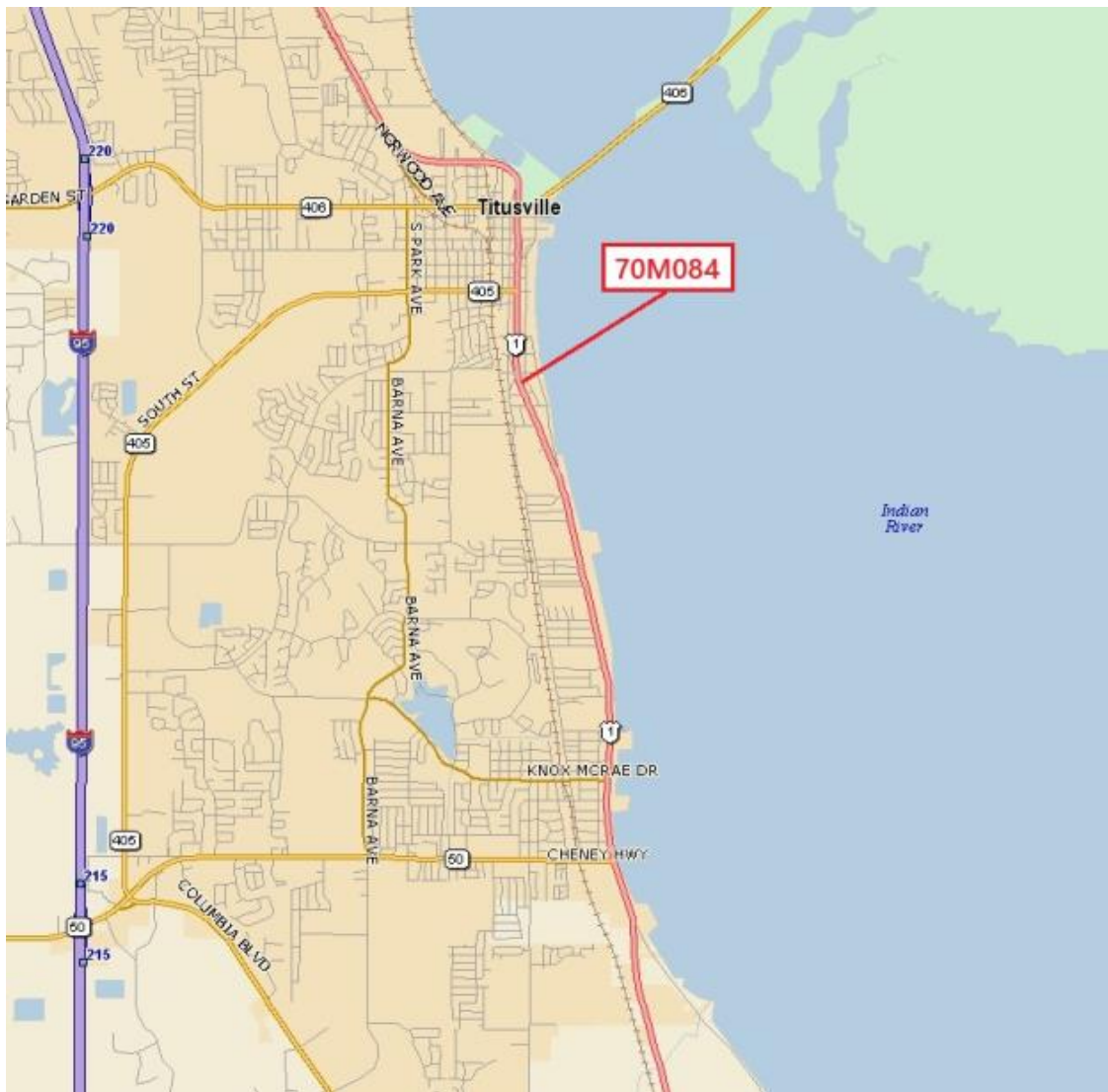
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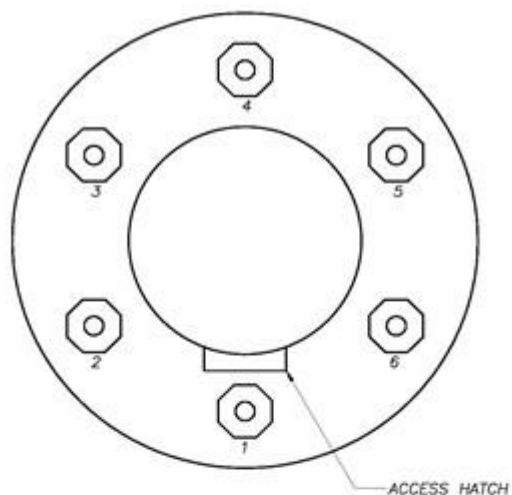
US-1 (Washington Ave.) at Grace St. - 0.5 Miles South of SR-405 (South St.)

FLORIDA DEPARTMENT OF TRANSPORTATION
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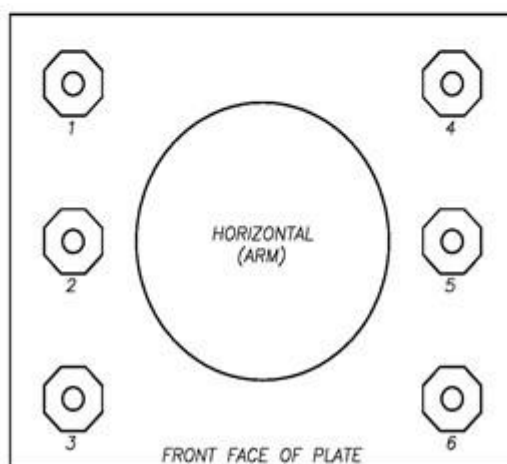
Structure ID: 70M084
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TSM ANCHOR BOLT NUMBERING SCHEME



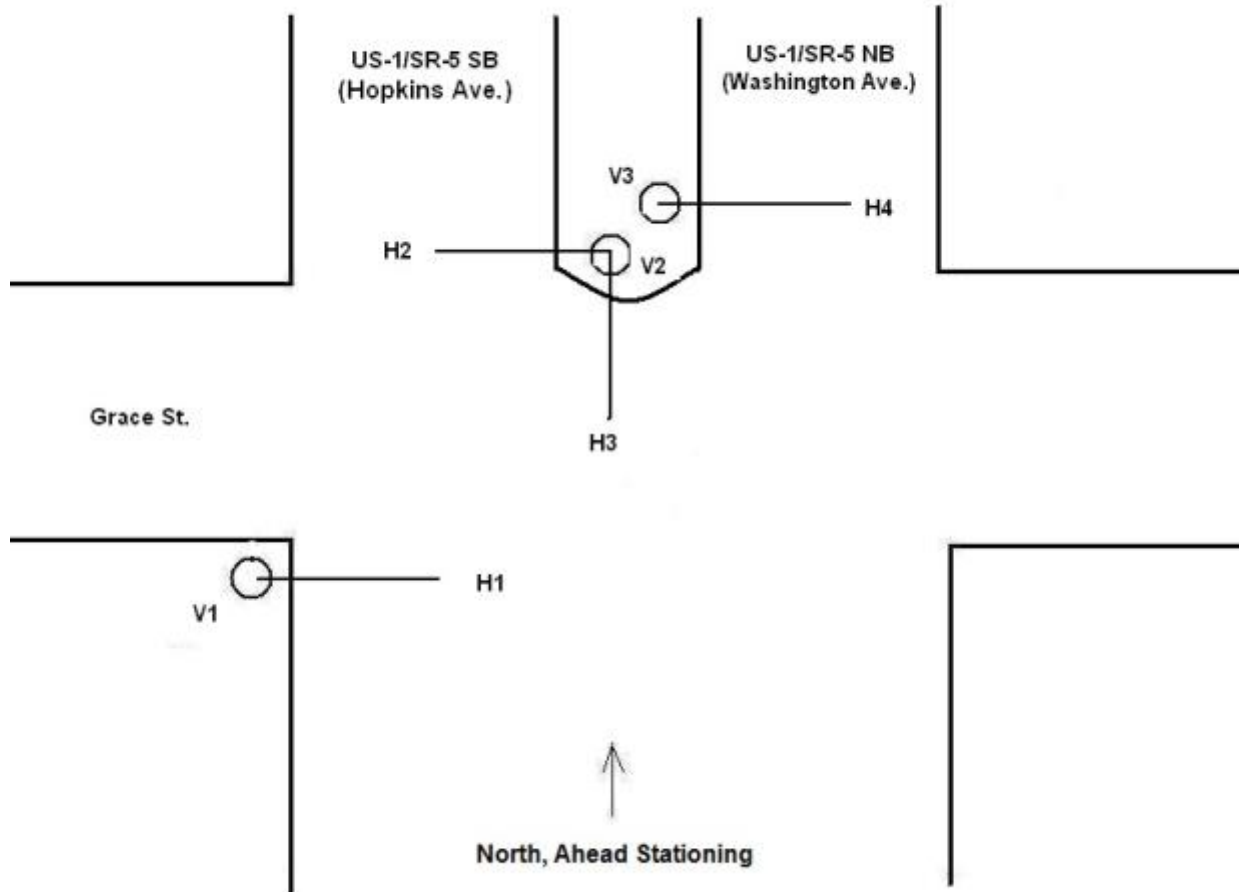
TSM MOMENT CONNECTION BOLT NUMBERING SCHEME

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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 - Debris and vermin nesting material below base plate.

REPAIR RECOMMENDATION:

F1 - Remove debris and vermin nesting material from below base plate.

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Photo 2: Element 8480 / Mast Arm Foundation

F2 - Missing anchor bolt covers (AB #3 & 5).

REPAIR RECOMMENDATION:

F2 - Replace the 2 missing anchor bolt covers.

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Photo 3: Element 8481 / Mast Arm Vertical

V1 V2 & V3 - Typical terminal compartment cover missing the weatherproof gasket.

REPAIR RECOMMENDATION:

V1 V2 & V3 - Install weatherproof gasket for terminal compartment cover per FDOT Index 649-031.

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Photo 4: Element 8481 / Mast Arm Vertical

V1 - Compartment cover with sheared attachment bolt.

REPAIR RECOMMENDATION:
None.

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Photo 5: Element 8481 / Mast Arm Vertical

V1 - Heavy accumulation of vermin nesting material within column at the terminal compartment.

REPAIR RECOMMENDATION:

V1 - Remove vermin nesting material from within column at the terminal compartment.

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Photo 6: Element 8484 / Mast Arm Horizontal

V2/H3 - Overview of slight moment connection gap between plates at Bolt #2.

REPAIR RECOMMENDATION:
None.

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Photo 7: Element 8484 / Mast Arm Horizontal

V2/H3 - Close-up of slight moment connection gap between plates at Bolt #2.

REPAIR RECOMMENDATION:
None.

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Photo 8: Element 8484 / Mast Arm Horizontal

V2/H3 - Overview of slight moment connection gap between plates at Bolt #5.

REPAIR RECOMMENDATION:
None.

FLORIDA DEPARTMENT OF TRANSPORTATION
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Photo 9: Element 8484 / Mast Arm Horizontal

V2/H3 - Close-up of slight moment connection gap between plates at Bolt #5.

REPAIR RECOMMENDATION:
None.

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Photo 10: Element 8484 / Mast Arm Horizontal

V1/H1 V2/H2 V3/H3 and V4/H4 - Typical bird nesting material inside horizontal arm near the moment connection (H3 shown).

REPAIR RECOMMENDATION:
None.

**FLORIDA DEPARTMENT OF TRANSPORTATION
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(TRAFFIC SIGNAL MAST ARM INSPECTION REPORT)**

Structure ID: 70M084
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INSPECTION DATE: 3/19/2026 JNEN



Photo 11: Element 8484 / Mast Arm Horizontal

V2/H2 - Bird nest between moment connection plates.

REPAIR RECOMMENDATION:

Remove bird nests from H2 moment connection plates & install screening at H1 H2 H3 & H4.

**FLORIDA DEPARTMENT OF TRANSPORTATION
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Photo 12: Element 8484 / Mast Arm Horizontal

V2H2 V2H3 and V3H4 - Overview of typical mast arm splice bolt missing the washer and oversized hole.

REPAIR RECOMMENDATION:

V2H2 V2H3 and V3H4 - Install flat washers on the mast arm splice bolts.

FLORIDA DEPARTMENT OF TRANSPORTATION
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Inspection

INSPECTION DATE: 3/19/2026 JNEN



Photo 13: Element 8484 / Mast Arm Horizontal

V2H2 V2H3 and V3H4 - Close-up of typical mast arm splice bolt missing the washer and oversized hole.

REPAIR RECOMMENDATION:

V2H2 V2H3 and V3H4 - Install flat washers on the mast arm splice bolts.

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M084

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 4/27/2026

Description

Structure Unit Identification

Bridge/Unit Key: 70M084 1
 Structure Name: US-1 (Washington Ave.) at Grace St
 Description: TSMA
 Type: M - Main

Structure Identification

Admin Area: Space Coast
 District (2): D5 - Deland
 County (3): (70) Brevard
 Location (9): 0.5 Miles South of SR-405
 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): 2011
 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): 7 Good

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: 03/19/2026
 Inspector: KNAAATH - Tim Howell
 Bridge Group: CAT71
 Alt. Bridge Group:
 Primary Type: Regular NBI
 Review Required: ☒

Next Inspection Date Scheduled

NBI: 03/19/2031
 Element: 03/19/2031
 Other/Special:
 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	☐	mos		Crew Hours:	2
NBI		60 mos (91)	03/19/2026 (90)	Flagger Hours:	0
				Helper Hours:	0
				Snooper Hours:	0

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M084

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 4/27/2026

Elements

Inspection Date: 03/19/2026 JNEN

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	3	100	0	.	0	.	0	.	3 (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	3	100	0	.	0	.	0	.	3 (EA)
UNIT 0	8518 / 4	Galvanized Steel	288	100	0	.	0	.	0	.	288 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	515	100	0	.	0	.	0	.	515 sq.ft

Total Number of ADE Elements*: 3

*excluding defects/protective systems

Inspection Information**Inspection Date:** 03/19/2026**Type:** Regular NBI**Inspector:** KNAAATH - Tim Howell**Inspection Notes:** A 40 ft. insulated bucket truck was utilized for inspection.**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

Plans are available at the District 5 Structures Maintenance office.

The year built is 2011 and is based on date of final acceptance. Structures were built under Project #418647-1-52-01.

Schedule Notes

FLORIDA DEPARTMENT OF TRANSPORTATION BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005

Structure ID: 70M084

Inspection/CIDR Report TRAFFIC SIGNAL MAST ARM

DATE PRINTED: 4/27/2026

Under Route Information

Roadway Identification

NBI Structure No (8): 70M084
 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): Grace St.
 Roadway Name: US-1 (Washington Ave)
 Mile Point (11): 3.078
 Latitude (16): 028d36'02.5" Long (17): 080d48'28.8"

Roadway Traffic and Accidents

Lanes (28): 4 Medians: 1 Speed: 40 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: 70M084

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

DATE PRINTED: 4/27/2026

Under Route Information**Roadway Identification**

NBI Structure No (8): 70M084
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): Grace St.
Roadway Name: Grace St
Mile Point (11): 0.000
Latitude (16): 028d36'02.5" Long (17): 080d48'28.8"

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)