Florida Department of Transportation

23 CFR Part 667

Periodic Evaluation of Facilities Repeatedly Requiring Repair and Reconstruction Due to Emergency Events

November 23, 2018
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Introduction

Title 23, Code of Federal Regulations (CFR) Part 667 requires the Florida Department of Transportation (Department) to identify and conduct statewide evaluations to determine if there are reasonable alternatives to National Highway System (NHS) roads, highways, and bridges that have required repair and reconstruction activities on two or more occasions due to emergency events.

An emergency event is defined as “a natural disaster or catastrophic failure resulting in an emergency declared by the Governor of the State or an emergency or disaster declared by the President of the United States.” Repair and reconstruction refers to “permanent repairs” that restore NHS roads, highways, and bridges to their pre-disaster conditions.

The evaluation of the NHS roads, highways, and bridges is an analysis that includes:

- Identification and consideration of any alternative that will mitigate, or partially or fully resolve, the root cause of the recurring damage;
- The costs of achieving the solution;
- The duration of the solution; and
- Consideration of recurring damage and cost of future repair under current and future environmental conditions.

All evaluations in this report cover the period January 1, 1997 through December 31, 2017. The evaluations exclude tribally owned and federally owned roads, highways and bridges.

Approach

The first step in this process was to identify all state and national emergency declaration events for the period January 1, 1997 through December 31, 2017. The Department’s Emergency Management Office assisted with this effort; compiling all executive orders for the gubernatorially-declared disasters and Florida’s federally-declared disasters which include major disaster declarations; emergency declarations; fire management assistance declarations; and fire suppression authorizations (see Appendices A and B).

Next, was project identification. Within the Department, the Office of Work Program and Budget (OWPB) is responsible for the development and management of the Adopted Work Program. All projects, including projects due to emergency events, are stored in the Financial Management (FM) Database. Using filters, the OWPB queried the database and extracted all emergency projects on the entire NHS for the period January 1, 1997 through December 31, 2017.

The project data was summarized by district, county, project description, and costs by fiscal year. This information was sent to the Design Engineers and Structures Maintenance Engineers in each of the Department’s seven districts (see Figure 1) to assist with the identification of projects with permanent repairs.
Figure 1: FDOT District Offices

<table>
<thead>
<tr>
<th>DEPARTMENT OFFICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central Office</strong></td>
</tr>
<tr>
<td>Tallahassee</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>
In accordance with the Federal Highway Administration (FHWA) Emergency Relief Manual, permanent repairs usually occur after emergency repairs have been completed. Emergency repairs are “those repairs including temporary traffic operations undertaken during or immediately following the disaster occurrence for the purpose of: 1) minimizing the extent of the damage, 2) protecting remaining facilities, or 3) restoring essential traffic.”

Examples of emergency repairs are:

- Erection and removal of barricades and detour signs
- Flagging and pilot cars during the emergency period
- Construction of temporary roadway connections (detours)
- Erection of temporary detour bridges
- Temporary substitute highway traffic service, including ferry or transit service
- Removal of debris
- Removal of slides
- Removal of drift piling up on bridges
- Placing riprap around piers and bridge abutments to relieve severe on-going scour action
- Placing riprap on the downstream slopes of approach fills to prevent scour from overtopping
- Replacement of washed out embankments and approach fills
- Regrading of roadway surfaces, roadway fills, and embankments
- Restoring final roadway surfaces when needed to restore essential traffic

Permanent repairs typically require the development of plans, specifications and estimates. Permanent repairs also include “…restoring pavement surfaces, reconstructing damaged bridges and culverts, and replacing highway appurtenances.”

When an event causes the failure of a highway appurtenance, it is the policy of the Department to investigate the failure. If the failed appurtenance was not built according to current Department standards, the appurtenance is replaced with a highway appurtenance that meets current Department standards. On the other hand, if the failed appurtenance was built according to Department standards, then the standards are evaluated to determine if they need to be improved. This results in a better performance of the highway infrastructure.

Listed below are the Department’s policies and procedures for various highway appurtenances.

- Overhead Sign Structures - The Department has developed design standards for these structures, these standards are periodically reviewed and updated as appropriate. Currently Overhead Sign Structures are designed for a 700-year recurrence interval. In the event of a failure the structure is evaluated to determine if it was built to earlier standards, the structure will be replaced with a structure that meets current standards. If the failed structure was built according to current design standards, then the current design standards will be evaluated to determine if it is appropriate to update the current design standards.
• High Mast Light Poles – The Department has developed design standards for these structures, these standards are periodically reviewed and updated as appropriate. Currently High Mast Light Poles are designed for a 700-year recurrence interval. In the event of a failure the structure is evaluated to determine if it was built to earlier standards, the structure will be replaced with a structure that meets current standards. If the failed structure was built according to current design standards, then the current design standards will be evaluated to determine if it is appropriate to update the current design standards.

• Standard Light Poles - The Department has developed design standards for these structures, these standards are periodically reviewed and updated as appropriate. Currently standard Light Poles are designed for a 300-year recurrence interval. In the event of a failure the structure is evaluated to determine if it was built to earlier standards, the structure will be replaced with a structure that meets current standards. If the failed structure was built according to current design standards, then the current design standards will be evaluated to determine if it is appropriate to update the current design standards.

• Traffic Signal Mast Arms - The Department has developed design standards for these structures, these standards are periodically reviewed and updated as appropriate. Currently Traffic Signal Mast Arms are designed for a 700-year recurrence interval. Traffic Signal Mast Arms are required in the area near the coast. This area is defined in Traffic Operations Mast Arm Limit Boundary Map. In the event of a failure the structure is evaluated to determine if it was built to earlier standards, the structure will be replaced with a structure that meets current standards. If the failed structure was built according to current design standards, then the current design standards will be evaluated to determine if it is appropriate to update the current design standards.

• Span Wire Mounted Traffic Signals – These structures are used in areas away from the coast that experience lower wind speeds in storm events. The Department believes this is a prudent use of limited resources. If the Department experiences increased failures of these structures in high wind events, the Department will revisit this and determine if it is justified to expand the areas where Traffic Signal Mast Arms are required.

• Ground Mounted Signs – The Department bases its design standards on the AASHTO design standards. AASHTO requires Ground Mounted Signs to be designed for a 10-year recurrence interval. This results in a 90 mile per hour wind loading. However, the Department requires Ground Mounted Signs to be designed for a 110 mile per hour wind loading. This is reasonable since the service life of the sign panels averages 8 to 10 years. If the Department should experience an increase in the number of Ground Mounted Signs that are damaged in Emergency Events, then the Department will revisit its design standards.

Using project files, detailed damage inspection reports (DDIRs), bridge records and by consulting with long time Department team members, the Design Engineers and Structures Maintenance Engineers were able to cross-check the projects extracted from the FM Database and identify the NHS roads, highways, and bridges with permanent repairs. The results of the reviews are provided in the following sections of this report.
Section 1: NHS Roads and Highways
After the permanent projects for the NHS roads and highways were identified, the information was reviewed by the district Design Engineers to determine if there were damages on two or more occasions at the same approximate locations.

The reviews did find projects in District 6 that incurred damages on two or more occasions (see Table 1). Projects with permanent repairs occurring only once were also flagged to assist with future updates to this report. A listing of those projects by district can be found in Appendix C.

<table>
<thead>
<tr>
<th>DISTRICT</th>
<th>COUNTY</th>
<th>ROUTE NAME</th>
<th>EVENT</th>
<th>LANDFALL DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Monroe</td>
<td>SR-5/US-1</td>
<td>Hurricane Wilma</td>
<td>10/24/2005</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
</tr>
</tbody>
</table>

As required by 23 Part 667, an evaluation of the projects was conducted to determine if there were reasonable alternatives to mitigate, or partially or fully resolve, the root cause of the recurring damage. The results are shown below.
## District 6

### Project 1: SR-5/US-1

<table>
<thead>
<tr>
<th>County</th>
<th>Event</th>
<th>Landfall Date</th>
<th>Item No.</th>
<th>Route ID</th>
<th>Location</th>
<th>Damage Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monroe</td>
<td>Hurricane Wilma</td>
<td>10/24/2005</td>
<td>421240-1</td>
<td>90020000</td>
<td>From MM 00.0 to MM 91.0</td>
<td>Washouts on roadsides</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>90030000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>90040000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>90050000</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>90060000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>442816-1</td>
<td>90030000</td>
<td>@MM 35.0</td>
<td>Washouts on roadsides</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>442957-1</td>
<td>90050000</td>
<td>@MM 70.0 Heritage Trail</td>
<td>Washouts on roadsides</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>442961-1</td>
<td>90030000</td>
<td>@MM 34.0 to MM 35.0 between Bahia Honda and Scouts Key Bridge</td>
<td>Washouts on roadsides</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>442964-2</td>
<td>90030000</td>
<td>Between MM 33.0 and MM 34.0</td>
<td>Washouts on roadsides</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>442980-1</td>
<td>90060000</td>
<td>From MM 74.0 to MM 75.0</td>
<td>Washouts and sinkhole</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>442999-1</td>
<td>90030000</td>
<td>From MM 37.0 to MM 37.2</td>
<td>Washouts on roadsides</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>443233-1</td>
<td>90030000</td>
<td>NB between MM 33.82 and MM 34.17</td>
<td>Washouts on roadsides</td>
</tr>
</tbody>
</table>

### Project Location Map

![Project Location Map](image-url)
Alternatives Discussion

Although the entire stretch of SR-5/US-1 (Overseas Highway) in the Florida Keys is susceptible to storm damage, the District has identified the stretch of roadway around mile marker (MM) 75 as the most critical segment for hurricane damage. This area is known as the Sea Oats Beach/The Fills area.

The embankment for the Overseas Highway is built over sandy and organic soft soil with an average resilient modulus (based on FWD testing) of 10,000 psi (this is classified as extremely weak embankment strength).

There is a high-water clearance issue for this state road throughout the Florida Keys (high-water fluctuates with the ocean tides). This is a contributing factor to the recurring damage.

A permanent solution could include a combination of a pavement design that includes a geotechnical component along with the raising of the Overseas Highway. A conservative pavement design with restricted to asphalt base only (B-12.5) would help mitigate the design high water issue, increasing the clearance between the base and the water table, with facilitation of maintenance of traffic and constructability as secondary benefits.

The geotechnical component could consist of soil reinforcement with biaxial geogrid compatible with asphalt base to prevent differential settlements and future roadway washouts in hurricane conditions. Below is a sample pavement design that reflects what is described above:

- Friction Course (FC) – 5 (0.75 in)
- Type Super Pavement structural course TLC (PG 76-22) (3 in)
- Optional Base Group (OBG) 9 (B-12.5 ONLY)
- TYPE B stabilized subgrade Limerock Bearing Rotation (LBR) 40 (12 in)
- Biaxial geogrid compatible with asphalt base

For the pavement design described above with soil reinforcement, estimated construction cost is approximately $ 832,270 /per mile.

Ultimately, the District recognizes the permanent way to address future sea level rise and hurricane damage to the pavement is to raise Overseas Highway. In order to plan for this effort, the District is currently undertaking an evaluation of sea level rise in Monroe County to determine what the future Design High Water (DHW) could be along Overseas Highway. The District has also programmed a project (FM: 443307-2) to address the design of the project to raise the Overseas Highway along MM 75. This project, once construction funds are programmed, could let in early 2026.

In the meantime, a project is currently being designed to add enhanced erosion protection along the Sea Oats Beach/Fills area as an interim improvement until the raising of the road is realized. This project is expected to let in May 2020.
Section 2: NHS Bridges
After the permanent projects for the NHS bridges were identified, the information was reviewed by the district Structures Maintenance Engineers to determine if there were damages on two or more occasions at the same approximate locations. None of Florida’s NHS bridges were found to have incurred permanent repairs on two or more occasions due to an emergency event.

However, projects with permanent repairs occurring only once were flagged to assist with future updates to this report. A listing of those projects by district is provided below in Table 2. More detailed project information can be found in Appendix C.

Table 2: Permanent Repairs on NHS Bridges (1-Time Occurrence)

<table>
<thead>
<tr>
<th>DISTRICT</th>
<th>COUNTY</th>
<th>BRIDGE NO.</th>
<th>EVENT</th>
<th>LANDFALL DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Escambia</td>
<td>480213</td>
<td>Hurricane Ivan</td>
<td>09/16/2004</td>
</tr>
<tr>
<td></td>
<td>Escambia</td>
<td>480214</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Santa Rosa</td>
<td>580002</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Santa Rosa</td>
<td>580052</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Santa Rosa</td>
<td>580004</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Santa Rosa</td>
<td>580054</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Santa Rosa</td>
<td>580005</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Santa Rosa</td>
<td>580055</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Santa Rosa</td>
<td>580007</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Santa Rosa</td>
<td>580057</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Santa Rosa</td>
<td>580056</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Santa Rosa</td>
<td>580108</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Brevard</td>
<td>700081</td>
<td>Hurricane Matthew</td>
<td>10/06/2016</td>
</tr>
<tr>
<td></td>
<td>Brevard</td>
<td>700137</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Brevard</td>
<td>700143</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Next Steps**

The evaluation of the NHS roads, highways and bridges will be made available to FHWA upon request.

As required by 23 CFR 515.9(d)(6) the results of the evaluation will be incorporated into the Department’s Transportation Asset Management Plan (TAMP). The Department will also update the evaluations after every emergency event, as well as on a regular 4-year cycle (23 CFR 667.7(a)).

As explained in the regulations, updates after an emergency event are for the purpose of adding newly qualifying NHS roads, highways, or bridges or modifying information on facilities already in the evaluation. In preparation for this, the Department has developed Damage Logs for the NHS facilities in order to track permanent repairs that are due to emergency events. These logs will be used in conjunction with the FM Database to complete these updates. A full review and update of the entire evaluation will be conducted at least every 4 years after the completion of the first evaluation of the NHS. The district Design Engineers and Structures Maintenance Engineers will continue to assist with this effort; using project files, detailed damage inspection reports (DDIRs), bridge records and other resources to cross-check for permanent repairs. If no emergency event (as defined in the rule) occurs during the evaluation period, the Department’s new evaluation will simply state that fact and indicate the new evaluations cover the same roads, highways and bridges as the previous evaluation.

Beginning on November 23, 2020, the Department must prepare an evaluation that conforms to Part 667 for all other roads, highways and bridges (non-NHS) in the state prior to including any project affecting the facility in the Statewide Transportation Improvement Program (STIP). As explained in the regulations, the “evaluations for other roads, highways and bridges are required only when there is some reasonable likelihood work will be performed on those facilities.”

For this effort, the Department will work cooperatively with the state’s 27 Metropolitan Planning Organizations (MPOs) and other owners as necessary to carry out the evaluations. Pursuant to 23 CFR 450.314(h), the groundwork for this process has already been established. Written provisions were developed between the Department and MPOs describing the collaborative process for federal performance measures and the sharing of data. The Department plans to hold meetings and have discussions with the MPOs to establish a plan going forward. The Department is also pursuing discussions internally to determine if any processes or procedures require updates to carry out the requirements of Part 667.

A full accounting of these efforts will be reported in future updates of this report.
Appendix A: Florida Disaster Declarations
### Florida Disaster Declarations (1997–2017)

The following list of executive orders about emergencies was compiled from records at the Florida Department of State Library and Archives. Click a hyperlinked order number to download a PDF copy of that order.

**1997**
- [97-183](#) (Mediterranean fruit fly, 6/20/1997)
- [97-254](#) (Mediterranean fruit fly, 8/19/1997)

**1998**
- [98-57](#) (flooding, tornadoes, 2/24/1998)
- [98-81](#) (extreme weather, 3/26/1998)
- [98-105](#) (extreme weather, 4/29/1998)
- [98-135](#) (state of emergency, weather, 6/1/1998)
- [98-141](#) (Wildfires, 6/7/1998)
- [98-155](#) (Emergency response, 6/16, 1998)
- [98-164](#) (Mediterranean fruit fly, 6/24/1998)
- [98-165](#) (Wildfires, 6/25/1998)
- [98-167](#) (Wildfires, 7/2/1998)
- [98-218](#) (Hurricane Earl, 9/2/1998)
- [98-224](#) (Hurricane Earl, 9/9/1998)
- [98-227](#) (Wildfires, 9/14/1998)
- [98-309](#) (Florida Keys, area of critical concern, 12/30/1998)
- [00-341](#) (Severe flooding, 12/1/2000)

**1999**
- [99-09](#) (Citrus canker, 1/15/1999)
- [99-10](#) (Hurricane Georges, 1/15/1999)
- [99-71](#) (Hurricane Georges, 3/19/1999)
- [99-88](#) (Wildfires, 4/12/1999)
- [99-96](#) (Wildfires, 4/19/1999)
- [99-119](#) (Wildfires, 6/7/1999)
- [99-227](#) (Not sent to State Library)
- [99-282](#) (Not sent to State Library)
- [99-317](#) (Hurricane Irene, 12/10/1999)
- [99-339](#) (Emergency Management, 12/30/1999)

**2000**
- [00-06](#) (Hurricane Floyd, 1/11/2000)
- [00-29](#) (Citrus canker, 2/11/2000)
- [00-64](#) (Wildfires, 3/8/2000)
- [00-80](#) (Georgia wildfires, 3/21/2000)
- [00-90](#) (Wildfires, 3/31/2000)
- [00-179](#) (Georgia wildfires, 6/5/2000)
- [00-214](#) (Wildfires, 7/17/2000)
- [00-286](#) (Tropical Storm Gordon, 9/16/2000)
- [00-289](#) (Tropical Storm Helene, 9/21/2000)
- [00-297](#) (Excessive rainfall, flooding, 10/4/2000)
- [01-10](#) (Freeze, 1/1/2001)
- [01-25](#) (Wildfire, 1/25/2001)
- [01-53](#) (Freeze, 2/9/2001)
- [01-125](#) (Wildfire, 4/23/2001)
- [01-201](#) (Wildfire, 7/23/2001)
- [01-207](#) (Hurricane Barry, 8/5/2001)
- [01-262](#) (Terrorism, 9/11/2001) No copy in State Library
- [01-300](#) (Terrorism, 10/11/2001)
- [01-320](#) (Hurricane Michelle, 11/2/2001)
- [01-334](#) (Terrorism, 11/8/2001, ext of 01-262)

**2001**
- [02-01](#) (Extension of 01-334, 1/7/2002)
- [02-70](#) (Freeze, 2/27/2002)
- [02-82](#) (Extension of 02-201, 3/8/2002)
- [02-138](#) (Extension of 02-82, 5/7/2002)
- [02-195](#) (Plane crash, 7/26/2002)
- [02-260](#) (Tropical storm Isidore, 9/25/2002)

**2002**
- [03-11](#) (Freeze, 1/22/2003)
- [03-27](#) (Freeze, 2/14/2003)
- [03-59](#) (Tornadoes, 4/1/2003)
- [03-60](#) (Flooding, 4/2/2003)
- [03-78](#) (Tornadoes, 4/30/2003)
- [03-161](#) (Flooding, 8/22/2003)

**2003**
- [04-70](#) (Wildfires, 4/12/2004)
- [04-122](#) (Wildfires, 6/10/2004)
- [04-182](#) (Tropical storm Bonnie, 8/10/2004)
- [04-186](#) (Hurricane Charley, 8/20/2004)
- [04-188](#) (Hurricane Charley, 8/25/2004)
- [04-192](#) (Hurricane Charley, 9/1/2004)
- [04-197](#) (Hurricanes, 9/7/2004)
- [04-202](#) (Hurricanes, 9/8/2004)
- [04-206](#) (Hurricanes, 9/10/2004)
- [04-207](#) (Hurricanes, 9/12/2004)
- [04-208](#) (Hurricane Ivan, 9/12/2004)
- [04-210](#) (Hurricanes, 9/14/2004)
- [04-215](#) (Hurricane Ivan, 9/17/2004)
- [04-216](#) (Hurricanes, 9/21/2004)
- [04-217](#) (Hurricanes, 9/24/2004)
### 2005

- **05-13** (Hurricanes, 1/21/2005)
- **05-56** (Hurricanes, 3/22/2005)
- **05-103** (Hurricanes, 5/20/2005)
- **05-112** (extension 01-261, 03-114, 04-110)
- **05-121** (Tropical Storm Arlene, 6/10/2005)
- **05-128** (Tropical Storm Arlene, 6/21/2005)
- **05-139** (Tropical Storm Dennis, 7/7/2005)
- **05-140** (Hurricane Dennis, 7/7/2005)
- **05-148** (Hurricane Dennis, 7/19/2005)
- **05-175** (Floodings, 8/24/2005)
- **05-176** (Hurricane Dennis, 8/24/2005)
- **05-177** (Hurricane Katrina, 8/30/2005)
- **05-182** (Hurricane Katrina, etc., 9/16/2005)
- **05-183** (Hurricane Katrina, etc., 9/18/2005)
- **05-219** (Hurricanes, 10/9/2005)
- **05-234** (Hurricanes, 11/4/2005)
- **05-260** (Hurricane Wilma extension, 12/15/2005)

### 2006

- **06-24** (State of Emergency Medicaid & Medicare, 1/26/2006)
- **06-31** (Hurricane Wilma extension, 2/13/2006)
- **06-32** (Freeze, 2/13/2006)
- **06-33** (Emergency management, Medicare, 2/15/2006)
- **06-35** (Freeze, 2/20/2006)
- **06-83** (Hurricane Wilma extension, 4/13/2006)
- **06-108** (Drought, wildfires, 5/8/2006)
- **06-130** (Tropical Storm Alberto, 6/12/2006)
- **06-131** (Roofing repair extension, 6/12/2006)
- **06-140** (Tropical Storm Alberto, 6/16/2006)
- **06-146** (Emergency Management extensions, 6/22/2006)
- **06-151** (wildfires, 6/27/2006)
- **06-158** (developing emergency management, 6/28/2006)
- **06-160** (Emergency management, roofing repair, 8/10/2006)
- **06-200** (Hurricane Ernesto, 8/27/2006)
- **06-202** (Emergency management, elections, 8/29/2006)
- **06-204** (TS Ernesto, 9/1/2006)
- **06-210** (TS Ernesto, 9/11/2006)
- **06-277** (Severe weather/tornado, 12/26/2006)

### 2007

- **07-21** (Hazardous weather, 2/2/2007)
- **07-41** (Hazardous weather, 2/28/2007)
- **07-63** (Emergency management extension, 4/3/2007)
- **07-77** (Campus shooting, 4/30/2007)
- **07-78** (Virginia Tech, 4/30/2007)
- **07-86** (Wildfires, 5/3/2007)
- **07-87** (Wildfires, 5/4/2007)
- **07-115** (National Guard, 6/26/2007)
- **07-117** (Emergency management extension, 6/28/2007)
- **07-118** (Wildfires, extension, 6/29/2007)
- **07-147** (Emergency management extensions, 7/26/2007)
- **07-173** (Emergency management extension, 8/27/2007)
- **07-174** (Emergency management extension, 8/29/2007)

### 2008

- **08-01** (Freeze, 1/10/2008)
- **08-48** (Tornado, 3/13/2008)
- **08-83** (Wildfires, 5/12/2008)
- **08-170** (Tropical Storm Fay, 8/16/2008)
- **08-171** (Tropical Storm Fay, 8/17/2008)
- **08-181** (Hurricane Gustav, 8/31/2008)
- **08-182** (Hurricane Hanna, 9/2/2008)
- **08-187** (Hurricane Ike, 9/5/2008)
- **08-213** (Tropical Storm Fay extension, 10/15/2008)
- **08-225** (Hurricane Ike, 11/3/2008)

### 2009

- **09-04** (Freeze, 1/14/2009)
- **09-19** (Freeze, 1/27/2009)
- **09-20** (Freeze, 2/4/2009)
- **09-81** (Severe weather, 4/1/2009)
- **09-114** (Wildfire, 5/14/2009)
- **09-132** (Wildfire, 6/2/2009)
- **09-243** (Hurricane Ida, 11/9/2009)

### 2010

- **10-01** (Freeze, 1/5/2010)
- **10-06** (Haiti earthquake, 1/15/2010)
- **10-07** (Freeze, 1/19/2010)
- **10-20** (Emergency management nursing, 1/25/2010)
- **10-21** (Freeze, 1/25/2010)
- **10-40** (Emergency Management Haiti, 02/12/2010)
- **10-99** (Emergency management, Deepwater Horizon, 4/30/2010)
- **10-100** (Emergency management, Deepwater...
Horizon, 5/3/2010
- 10-101 (Gulf oil spill, 5/11/2010)
- 10-106 (Deepwater horizon, 5/20/2010)
- 10-115 (Oil spill, 5/27/2010)
- 10-131 (Oil spill, Deepwater Horizon, 6/18, 2010)
- 10-132 (Deepwater Horizon, 6/18/2010)
- 10-169 (Deepwater Horizon, 7/21/2010)
- 10-262 (Freeze, 12/10/2010)
- 10-275 (Freeze, 12/16/2010)

2011
- 11-06 (Freeze, 1/7/2011)
- 11-128 (Wildfires, 6/13/2011)
- 11-172 (Wildfires extension, 8/5/2011)
- 11-202 (Wildfires extension, 10/4/2011)

2012
- 12-140 (Tropical Storm Debby, 6/25/2012)
- 12-192 (TS Debby extension, 8/20/2012)
- 12-199 (Tropical Storm Isaac, 8/25/2012)
- 12-217 (Tropical storm extension, 9/19/2012)
- 12-240 (Hurricane Isaac extension, 10/22/2012)

2013
- 13-282 (Tropical Storm Karen, 10/3/2013)
- 13-283 (Tropical Storm Karen, terminate, 10/8/2013)

2014
- 14-144 (Severe weather, flash flooding, 4/30/2014)
- 14-200 (Severe weather extension, 6/25/2014)
- 14-280 (Ebola protocol, 10/25/2014)

2015
- 15-158 (Severe weather, flooding, 8/6/2015)
- 15-173 (Tropical Storm Erika, 8/28/2015)

2016
- 16-29 (Zika virus, 2/3/2016)
- 16-30 (Heavy rain, 2/3/2016)
- 16-43 (Weather extension, 2/18/2016)
- 16-54 (Tornado, 2/22/2016)
- 16-56 (Tornado extension, 2/24/2016)
- 16-59 (Severe weather, Lake Okeechobee, 2/26/2016)
- 16-64 (Emergency management extension, 3/4/2016)
- 16-142 (Pulse, 6/12/2016)
- 16-149 (Zika virus, 6/23/2016)
- 16-155 (Lake Okeechobee discharge, 6/29/2016)

2017
- 17-16 (Emergency management extension, 1/26/2017)
- 17-43 (Zika virus amended, 2/10/2017)
- 17-67 (Emergency management extensions, 3/24/2017)
- 17-115 (Zika virus amended, 4/10/2017)
- 17-146 (Opioids, 5/3/2017)
- 17-166 (Zika virus, amended, 6/8/2017)
- 17-174 (Wildfires, 6/9/2017)
- 17-177 (Opioids, 6/29/2017)
- 17-178 (Opioids extension, 6/29/2017)
- 17-204 (Tropical Storm Emily, 7/31/2017)
- 17-211 (Zika virus, 8/4/2017)
- 17-220 (Tropical Storm Emily, termination, 8/15/2017)
- 17-230 (Opioids, 8/28/2017)
- 17-235 (Hurricane Irma, 9/4/2017)
- 17-236 (Hurricane Irma, 9/6/2017)
- 17-244 (Hurricane Irma, 9/15/2017)
- 17-259 (Hurricane Maria, 10/2/2017)
- 17-260 (Zika virus, 10/3/2017)
- 17-262 (Tropical Storm Nate, 10/5/2017)
- 17-264 (Alachua County, State of Emergency coordination, 10/16/2017)
- 17-274 (Termination of order 17-264, 10/20/2017)
- 17-285 (Opioids, 10/27/2017)
- 17-287 (Hurricane Irma extension, 11/2/2017)
- 17-304 (Hurricane Maria extension, 11/28/2017)
- 17-329 (Opioids, 12/22/2017)
- 17-330 (Hurricane Irma extension, 12/29/2017)
Appendix B : Federal Disaster Declarations
Federal Disaster Declarations
(January 1, 1997 to December 31, 2017)

Florida Hurricane Nate (EM-3395)
Incident period: October 07, 2017 to October 11, 2017
Emergency Declaration declared on October 08, 2017

Seminole Tribe of Florida Hurricane Irma - Seminole Tribe Of Florida (DR-4341)
Incident period: September 04, 2017 to October 04, 2017
Major Disaster Declaration declared on September 27, 2017

Florida Hurricane Irma (DR-4337)
Incident period: September 04, 2017 to October 18, 2017
Major Disaster Declaration declared on September 10, 2017

Seminole Tribe of Florida Hurricane Irma (EM-3388)
Incident period: September 04, 2017 to October 04, 2017
Emergency Declaration declared on September 08, 2017

Florida Hurricane Irma (EM-3385)
Incident period: September 04, 2017 to October 18, 2017
Emergency Declaration declared on September 05, 2017

Florida Tropical Storm Mitch (DR-1259)
Incident period: November 04, 1998 to November 05, 1998
Major Disaster Declaration declared on November 06, 1998

Florida Hurricane Earl (DR-1241)
Incident period: September 03, 1998
Major Disaster Declaration declared on September 04, 1998

Florida Hurricane Georges (DR-1249)
Incident period: September 25, 1998 to October 07, 1998
Major Disaster Declaration declared on September 28, 1998

Florida Hurricane Matthew (DR-4283)
Incident period: October 03, 2016 to October 19, 2016
Major Disaster Declaration declared on October 08, 2016

Florida Hurricane Matthew (EM-3377)
Incident period: October 03, 2016 to October 19, 2016
Emergency Declaration declared on October 06, 2016

Florida Hurricane Hermine (DR-4280)
Incident period: August 31, 2016 to September 11, 2016
Major Disaster Declaration declared on September 28, 2016

Florida Severe Storms, Tornadoes, Straight-line Winds, and Flooding (DR-4177)
Incident period: April 28, 2014 to May 06, 2014
Major Disaster Declaration declared on May 06, 2014

Florida Severe Storms and Flooding (DR-4138)
Incident period: July 02, 2013 to July 07, 2013
Major Disaster Declaration declared on August 02, 2013

Florida Hurricane Isaac (DR-4084)
Incident period: August 27, 2012 to August 29, 2012
Major Disaster Declaration declared on October 18, 2012

Florida Tropical Storm Debby (DR-4068)
Incident period: June 23, 2012 to July 26, 2012
Major Disaster Declaration declared on July 03, 2012

Florida Slope Fire (FM-2902)
Incident period: April 26, 2011 to May 31, 2011
Fire Management Assistance Declaration declared on April 27, 2011

Florida Severe Storms, Flooding, Tornadoes, and Straight-line Winds (DR-1840)
Incident period: May 17, 2009 to May 28, 2009
Major Disaster Declaration declared on May 27, 2009

Florida Severe Storms, Flooding, Tornadoes, and Straight-line Winds (DR-1831)
Incident period: March 26, 2009 to May 05, 2009
Major Disaster Declaration declared on April 21, 2009

Florida Hurricane Gustav (DR-1806)
Incident period: August 31, 2008 to September 07, 2008
Major Disaster Declaration declared on October 27, 2008

Florida Hurricane Ike (EM-3293)
Incident period: September 05, 2008 to September 12, 2008
Emergency Declaration declared on September 07, 2008

Florida Tropical Storm Fay (DR-1785)
Incident period: August 18, 2008 to September 12, 2008
Major Disaster Declaration declared on August 24, 2008

Florida Tropical Storm Fay (EM-3288)
Incident period: August 18, 2008 to September 12, 2008
Emergency Declaration declared on August 21, 2008

Florida 53 Big Pine Fire (FM-2684)
Incident period: March 25, 2007 to March 28, 2007
Fire Management Assistance Declaration declared on March 26, 2007
Florida Severe Storms, Tornadoes, and Flooding (DR-1680)
Incident period: December 25, 2006
Major Disaster Declaration declared on February 08, 2007

Florida Severe Storms and Tornadoes (DR-1679)
Incident period: February 01, 2007 to February 02, 2007
Major Disaster Declaration declared on February 03, 2007

Florida Volusia Fire Complex (FM-2638)
Incident period: May 15, 2006 to June 26, 2006
Fire Management Assistance Declaration declared on May 15, 2006

Florida Hurricane Georges (EM-3131)
Incident period: September 25, 1998 to October 02, 1998
Emergency Declaration declared on September 25, 1998

Florida Hurricane Wilma (DR-1609)
Incident period: October 23, 2005 to November 18, 2005
Major Disaster Declaration declared on October 24, 2005

Florida Tropical Storm Rita (EM-3259)
Incident period: September 18, 2005 to October 23, 2005
Emergency Declaration declared on September 20, 2005

Florida Hurricane Katrina Evacuation (EM-3220)
Incident period: August 29, 2005 to October 01, 2005
Emergency Declaration declared on September 05, 2005

Florida Hurricane Katrina (DR-1602)
Incident period: August 24, 2005 to September 06, 2005
Major Disaster Declaration declared on August 28, 2005

Florida Hurricane Dennis (DR-1595)
Incident period: July 07, 2005 to July 20, 2005
Major Disaster Declaration declared on July 10, 2005

Florida Bunnelle Fire Complex (FM-2208)
Incident period: June 20, 1998
Fire Management Assistance Declaration declared on June 20, 1998

Florida Suwanee Fire Complex (FM-2209)
Incident period: June 20, 1998
Fire Management Assistance Declaration declared on June 20, 1998

Florida Race Track - Waldo Fire (FM-2204)
Incident period: June 19, 1998
Fire Management Assistance Declaration declared on June 19, 1998

Florida Depot Creek Fire (FM-2211)
Incident period: June 21, 1998
Fire Management Assistance Declaration declared on June 21, 1998

Florida Waldo Southeast Fire (FM-2205)
Incident period: June 19, 1998
Fire Management Assistance Declaration declared on June 19, 1998

Florida Calooshatchee Fire Complex (FM-2212)
Incident period: June 21, 1998
Fire Management Assistance Declaration declared on June 21, 1998

Florida San Pedro Day Fire (FM-2206)
Incident period: June 19, 1998
Fire Management Assistance Declaration declared on June 19, 1998

Florida Withlacootchee Fire Complex (FM-2214)
Incident period: June 27, 1998
Fire Management Assistance Declaration declared on June 27, 1998

Florida Laccase Fire Complex (FM-2207)
Incident period: June 19, 1998
Fire Management Assistance Declaration declared on June 19, 1998

Florida Orlando Fire Complex (FM-2215)
Incident period: June 28, 1998
Fire Management Assistance Declaration declared on June 28, 1998

Florida Hurricane Jeanne (DR-1561)
Incident period: September 24, 2004 to November 17, 2004
Major Disaster Declaration declared on September 26, 2004

Florida Hurricane Ivan (DR-1551)
Incident period: September 13, 2004 to November 17, 2004
Major Disaster Declaration declared on September 26, 2004

Florida Hurricane Frances (DR-1545)
Incident period: September 03, 2004 to October 08, 2004
Major Disaster Declaration declared on September 04, 2004

Florida Hurricane Charley and Tropical Storm Bonnie (DR-1539)
Incident period: August 11, 2004 to August 30, 2004
Major Disaster Declaration declared on August 13, 2004

Florida Hurricane Ivan (DR-1551)
Incident period: September 13, 2004 to November 17, 2004
Major Disaster Declaration declared on September 26, 2004

Florida Hurricane Frances (DR-1545)
Incident period: September 03, 2004 to October 08, 2004
Major Disaster Declaration declared on September 04, 2004

Florida Hurricane Charley and Tropical Storm Bonnie (DR-1539)
Incident period: August 11, 2004 to August 30, 2004
Major Disaster Declaration declared on August 13, 2004

Florida Severe Storms and Flooding (DR-1481)
Incident period: June 13, 2003 to August 22, 2003
Major Disaster Declaration declared on July 29, 2003

Florida Tornado (DR-1460)
Incident period: March 27, 2003
Major Disaster Declaration declared on April 25, 2003
Florida Tropical Storm Gabrielle (DR-1393)
Incident period: September 13, 2001 to September 21, 2001
Major Disaster Declaration declared on September 28, 2001

Florida Tropical Storm Allison (DR-1381)
Incident period: June 11, 2001 to June 15, 2001
Major Disaster Declaration declared on June 17, 2001

Florida Chipola River Fire Complex (FM-2360)
Incident period: May 14, 2001
Fire Management Assistance Declaration declared on May 15, 2001

Florida Severe Freeze (DR-1359)
Incident period: December 01, 2000 to January 25, 2001
Major Disaster Declaration declared on February 05, 2001

Florida Heavy Rains And Flooding (DR-1345)
Incident period: October 03, 2000 to October 11, 2000
Major Disaster Declaration declared on October 04, 2000

Florida Tropical Storm (DR-1344)
Incident period: September 21, 2000 to October 04, 2000
Major Disaster Declaration declared on October 03, 2000

Florida Hurricane Irene (DR-1306)
Incident period: October 14, 1999 to October 24, 1999
Major Disaster Declaration declared on October 20, 1999

Florida Hurricane Irene (EM-3150)
Incident period: October 14, 1999 to October 19, 1999
Emergency Declaration declared on October 15, 1999

Florida Hurricane Floyd (DR-1300)
Incident period: September 13, 1999 to September 25, 1999
Major Disaster Declaration declared on September 22, 1999

Florida Hurricane Floyd (EM-3143)
Incident period: September 14, 1999 to September 16, 1999
Emergency Declaration declared on September 14, 1999

Florida Fire Hazard (EM-3139)
Incident period: April 15, 1999 to May 25, 1999

Florida County Line Fire (FM-2203)
Incident period: June 18, 1998
Fire Management Assistance Declaration declared on June 18, 1998

Florida Florida Extreme Fire Hazard (DR-1223)
Incident period: May 25, 1998 to July 22, 1998
Major Disaster Declaration declared on June 18, 1998

Florida Jacksonville Complex Fire (FM-2201)
Incident period: June 16, 1998
Fire Management Assistance Declaration declared on June 16, 1998

Florida Pine Coast 98 Fire (FM-2200)
Incident period: June 06, 1998
Fire Management Assistance Declaration declared on June 08, 1998

Florida Severe Thunderstorms, Tornadoes and Flooding (DR-1204)
Incident period: February 02, 1998 to February 04, 1998
Major Disaster Declaration declared on February 12, 1998

Florida Tornadoes (DR-1195)
Incident period: December 25, 1997 to April 24, 1998
Major Disaster Declaration declared on January 06, 1998
Appendix C: NHS Roads, Highways and Bridges (1-Time Permanent Repair)
### NHS Roads and Highways

<table>
<thead>
<tr>
<th>DISTRICT</th>
<th>COUNTY</th>
<th>ITEM NO.</th>
<th>ROUTE ID</th>
<th>ROUTE NAME</th>
<th>LOCATION</th>
<th>EVENT</th>
<th>LANDFALL DATE</th>
<th>DAMAGE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Charlotte</td>
<td>193812-2</td>
<td>01010000</td>
<td>SR-45/US-41</td>
<td>N of SR-776 to Sarasota C/L</td>
<td>Hurricane Charley</td>
<td>08/13/2004</td>
<td>Active construction project; paved shoulders and resurfacing</td>
</tr>
<tr>
<td>1</td>
<td>Charlotte</td>
<td>193814-2</td>
<td>01040000</td>
<td>SR-35/US-17</td>
<td>N of CR-764 to Desoto C/L</td>
<td>Hurricane Charley</td>
<td>08/13/2004</td>
<td>Active construction project; erosion control</td>
</tr>
<tr>
<td>1</td>
<td>Hardee</td>
<td>194093-2</td>
<td>06010000</td>
<td>SR-35/US-17</td>
<td>N of Peace River to Tropicana Rd</td>
<td>Hurricane Charley</td>
<td>08/13/2004</td>
<td>Active construction project; roadway washout</td>
</tr>
<tr>
<td>1</td>
<td>Highlands</td>
<td>443850-1</td>
<td>09060000</td>
<td>SR-70</td>
<td>E of CR-721</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Roadway washout</td>
</tr>
<tr>
<td>1</td>
<td>Polk</td>
<td>443851-1</td>
<td>16110000</td>
<td>SR-60</td>
<td>W of SR-37</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Roadway washout</td>
</tr>
<tr>
<td>2</td>
<td>Baker</td>
<td>442153-3</td>
<td></td>
<td>CR-122</td>
<td>.2-miles W of CR-127</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Culvert washout</td>
</tr>
<tr>
<td>2</td>
<td>Baker</td>
<td>442153-3</td>
<td></td>
<td>CR-23A</td>
<td>Between Ben Rowe Circle and Dupree Rd</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Culvert washout</td>
</tr>
<tr>
<td>2</td>
<td>Clay</td>
<td>434774-2</td>
<td></td>
<td>CR-218</td>
<td>@Jacaconda</td>
<td>Tropical Storm Debby</td>
<td>06/25/2012</td>
<td>Roadway washout</td>
</tr>
<tr>
<td>2</td>
<td>Duval</td>
<td>432834-1</td>
<td>72001000</td>
<td>SR-9A/I-295</td>
<td>@I-95 interchange</td>
<td>Tropical Storm Debby</td>
<td>06/25/2012</td>
<td>Severe erosion</td>
</tr>
<tr>
<td>2</td>
<td>Duval</td>
<td>432835-1</td>
<td>72280000</td>
<td>SR-9/I-95</td>
<td>@Greenland Rd ramp to SR-9A NB</td>
<td>Tropical Storm Debby</td>
<td>06/25/2012</td>
<td>Severe washout of spillway</td>
</tr>
<tr>
<td>2</td>
<td>St. Johns</td>
<td>442171-1</td>
<td></td>
<td>SR-13</td>
<td>1-mile N of the roundabout</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Roadway washout and culvert</td>
</tr>
<tr>
<td>3</td>
<td>Franklin</td>
<td>419487-2</td>
<td>49010000</td>
<td>SR-30/US-98</td>
<td>From MM 8.879 to MM 27.510</td>
<td>Hurricane Dennis</td>
<td>07/09/2005</td>
<td>Roadway washout</td>
</tr>
<tr>
<td>5</td>
<td>Brevard</td>
<td>442595-1</td>
<td></td>
<td>SR-50</td>
<td>From Mt Vernon Ave to Washington</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Drainage damage</td>
</tr>
<tr>
<td>5</td>
<td>Marion</td>
<td>442612-1</td>
<td></td>
<td>US-441</td>
<td>@NW 148th Street</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Sinkhole</td>
</tr>
<tr>
<td>5</td>
<td>Seminole</td>
<td>425574-2</td>
<td>77010000</td>
<td>US-17/92</td>
<td>Between US-17/92 and Lake Monroe Seawall</td>
<td>Tropical Storm Fay</td>
<td>08/18/2008</td>
<td>Roadway washout</td>
</tr>
<tr>
<td>7</td>
<td>Hillsborough</td>
<td>433392-1</td>
<td>10190000</td>
<td>SR-93/I-275</td>
<td>@MM 33.1 to MM 34.5 and MM 36.8 to MM 37.7</td>
<td>Tropical Storm Debby</td>
<td>06/25/2012</td>
<td>Water intrusion to ITS power system</td>
</tr>
<tr>
<td>7</td>
<td>Hillsborough</td>
<td>442600-1</td>
<td>10075000</td>
<td>SR-93A/I-75</td>
<td>Between NB and SB I-75 bridges @Bruce B Downs</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Slope washout and deterioration</td>
</tr>
<tr>
<td>7</td>
<td>Hillsborough</td>
<td>442601-1</td>
<td>10075326</td>
<td>SR-93A/I-75</td>
<td>I-75 SB on-ramp from Selmon Expressway</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Slope washout and deterioration</td>
</tr>
<tr>
<td>7</td>
<td>Hillsborough</td>
<td>442696-1</td>
<td>10075327</td>
<td>SR-93A/I-75</td>
<td>I-75 NB on-ramp from Selmon Expressway</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Slope washout and deterioration</td>
</tr>
<tr>
<td>7</td>
<td>Hillsborough</td>
<td>442751-1</td>
<td>10190000</td>
<td>SR-93/I-275</td>
<td>I-275 SB @MM 0.729</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Light pole severely damaged</td>
</tr>
<tr>
<td>7</td>
<td>Pasco</td>
<td>442697-1</td>
<td>14140000</td>
<td>SR-93/I-75</td>
<td>@SR-56</td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Slope washout and deterioration</td>
</tr>
<tr>
<td>COUNTY</td>
<td>ITEM NO.</td>
<td>ROUTE ID</td>
<td>ROUTE NAME</td>
<td>LOCATION</td>
<td>EVENT</td>
<td>LANDFALL DATE</td>
<td>DAMAGE DESCRIPTION</td>
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<tr>
<td>Pinellas</td>
<td>432719-1</td>
<td>15190000</td>
<td>SR-93/I-275</td>
<td>@MM 10.429 to MM 10.552</td>
<td>Tropical Storm Debby</td>
<td>06/25/2012</td>
<td>Slope washout and deterioration</td>
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</tr>
<tr>
<td>Pinellas</td>
<td>440306-1</td>
<td>15040000</td>
<td>SR-60</td>
<td>@MM 8.142 to MM 9.000</td>
<td>Hurricane Hermine</td>
<td>08/31/2016</td>
<td>Roadway washout/erosion and seawall damage</td>
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<td>Pinellas</td>
<td>442693-1</td>
<td>15045000</td>
<td>SR-60</td>
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<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Light poles severely damaged</td>
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<tr>
<td>Pinellas</td>
<td>442752-1</td>
<td>15190000</td>
<td>SR-93/I-275</td>
<td></td>
<td>Hurricane Irma</td>
<td>09/09/2017</td>
<td>Light poles severely damaged</td>
<td></td>
</tr>
</tbody>
</table>
### NHS Bridges

<table>
<thead>
<tr>
<th>DISTRICT</th>
<th>COUNTY</th>
<th>BRIDGE NO.</th>
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