

Origination Form

Specifications

Submittal Information			
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Date:	2026-06-09T12:46:50Z	Associated Specs:	108-2.1.5

Summary:

Clarification on the need to monitor the substructure when surveying existing bridges.

Justification:

To ensure the substructure is monitored when surveying existing bridges during construction, and capture any distress caused by foundation settlement as soon as it is initiated.

Do the changes affect other types of specifications?

Neither

List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans		No
Florida Design Manual		No
Structures Manual		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No
Materials Manual		No

Are changes in line with promoting and making progress on improving safety, enhancing mobility, inspiring innovation, and fostering talent; explain how?

Yes. The updates were made with the Mission of the Department in mind, and in an effort to provide clarity on the requirements for field personnel responsible for dynamic load testing.

What financial impact does the change have; project costs, pay item structure, or consultant fees?

The updates made to the Specification should not have any significant financial impact on project cost, pay item structure or consultant fees.

What impact does the change have on production or construction schedules?

The updates made to the Specification should not have any significant impact on construction schedule.

How does this change improve efficiency or quality?

The updates are intended to clarify the Department's requirements and should result in improved efficiency during construction operations.

Which FDOT offices does the change impact?

Construction

What is the impact to districts with this change?

The updates should assist the Contractor and the CEI with the implementation of settlement monitoring of existing bridges.

Does the change shift risk and to who?

No, the risk model remains unchanged.

Provide summary and resolution of any outstanding comments from the districts or industry.

Comments and Responses are available on the Track the Status of Revisions hyperlink located on the Specifications landing page: <https://www.fdot.gov/specifications/default.shtm>

What is the communication plan?

Through the established specification revision process (e.g., Internal and Industry Review)

What is the schedule for implementation?

The Standard Specifications eBook and Workbook are effective July 1st every year.

MONITOR EXISTING STRUCTURES (REV 6-9-26)

ARTICLE 108-1 is deleted and the following substituted:

108-1 Description.

Provide settlement, vibration, and groundwater monitoring in accordance with the requirements of this Section. The work required under this Section does not modify the requirements or responsibilities for preservation of existing property from damage in accordance with 7-11.1.

Evaluate the need for, design of, and provide any necessary precautionary features to protect existing structures from damage. Employ construction methods that will not produce damaging vibrations, soil movement, soil loss, settlement, or instability of existing structures.

SUBARTICLE 108-2.1.5 is deleted and the following substituted:

108-2.1.5 Settlement Surveying and Monitoring Requirements: When monitoring existing bridges, obtain a baseline elevation of the superstructure and the substructure prior to initiating construction operations. As a minimum, monitor the substructure during construction operations. Obtain the Engineer's approval for the number and location of monitoring points. Survey and monitor the settlement of structures, providing +/-0.005 foot accuracy, recording elevations to 0.001 foot:

1. before beginning construction
2. daily, during the driving of any casings, piling, or sheeting,
3. daily, during compaction
4. daily, during foundation drilling
5. weekly, for two weeks after stopping pile driving
6. during excavation
7. during blasting
8. or, as directed by the Engineer

Upon either detecting movement of 0.010 feet or damage to the structure, immediately stop the construction operations affecting the structure, backfill any open excavations, notify the Engineer and submit a corrective action plan for acceptance by the Engineer. Submit settlement monitoring records to the Engineer on a weekly basis.