

Origination Form

Specifications

Submittal Information			
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Email:	rodrigo.herrera@dot.state.fl.us	Special Provision:	SP1050813DB
Date:	2026-06-09T12:35:46Z	Associated Specs:	Updates to Section 105 were uploaded separately.

Summary:

Clarification on the hierarchy of personnel used for monitoring pile driving operations.

Justification:

For consistency with the conventional Specification.

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
Traffic Engineering 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 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 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 Districts in implementing pile driving operations in an efficient manner.

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.

CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS.
(REV 6-2-25)

ARTICLE 105-8 is expanded by the following:

105-8.13 Geotechnical Foundation Services Personnel For Design Build Projects:

105-8.13.1 General: Provide qualified personnel to design foundations and provide geotechnical analyses and recommendations for the design of roadways and structures for the project. Provide qualified and trained personnel to perform foundation testing and oversight of the foundation construction operations. Ensure the personnel provided meet the registration and qualification requirements specified herein and these requirements are maintained throughout the duration of the design and construction of the project elements where these personnel are required to work.

Submit qualification statements for the geotechnical, dynamic testing, load testing and non-destructive testing personnel to be used on the project for acceptance by the Engineer. The Department will review these qualification statements, provide comments or request additional information within 15 working days, excluding weekends and Department observed holidays. Do not begin Design or Construction until the qualifications of supervisory personnel have been accepted by the Engineer. Acceptance of the Design-Build Firm's personnel does not relieve the Design-Build Firm of the responsibility for obtaining the required results in the completed work.

105-8.13.2 Geotechnical Foundation Design Engineer of Record (GFDEOR):

Provide a Geotechnical Foundation Design Engineer of Record in responsible charge of the geotechnical exploration, analysis, design and recommendations for the roadways and structures on the project. The GFDEOR shall also supervise and certify the constructed foundations. The GFDEOR must be a Professional Engineer registered in the state of Florida and must have a minimum of five years of design experience with the type of foundation proposed for the project. For bridges founded on piles and drilled shafts, the GFDEOR must possess verifiable responsible charge experience in the interpretation and utilization of data from the types of load tests (dynamic, static, Osterberg Cell and/or Statnamic load tests) used on the project on at least three Department bridge projects.

105-8.13.3 Dynamic Testing Engineer (DTE):

Provide a Dynamic Testing Engineer in responsible charge of the performance of the dynamic load testing of driven piles, evaluation, signal matching and analysis of the dynamic load test data, the establishment of the production pile lengths (when these are to be determined based on test pile information) and driving criteria. Production pile lengths and driving criteria shall be developed by the same engineering firm, and under the same DTE analyzing the dynamic pile testing data in conjunction with the GFDEOR. The DTE must be a Professional Engineer registered in the state of Florida with responsible charge experience of geotechnical foundation construction engineering and dynamic testing of driven piles for a period of not less than three years including at least three Department bridge projects. This "responsible charge" experience shall include verifiable experience using the test methods that will be utilized on the project. The DTE must have a rank of Intermediate or higher in the PDCA/PDI Dynamic Measurement and Analysis Proficiency Test.

105-8.13.4 Dynamic Testing Operator (DTO):

Provide a Dynamic Testing Operator (DTO) to perform the dynamic load testing of instrumented piles and test piles in the

field. The DTO must have a rank of Intermediate or higher in the PDCA/PDI Dynamic Measurement and Analysis Proficiency Test. When the Embedded Data Collector (EDC) system will be used to monitor piles and/or test piles, EDC monitoring shall be performed by an operator who has passed EDC Monitoring Certification as evidenced by a Smart Structures valid Certification Card and ID. The operator must have experience in geotechnical foundation construction and dynamic testing of driven piles for a period of not less than two years including at least three Department bridge projects. The experience may have been obtained while working under the supervision of another qualified operator. The Dynamic Testing Operator shall work under the direct supervision of the DTE.

105-8.13.5 Dynamic Testing Technician (DTT): When remote monitoring, a Dynamic Testing Technician (DTT) that is knowledgeable in pile installation and dynamic load tests may be provided in lieu of a DTO or DTE to assist in monitoring the installation of dynamically load tested piles. The DTT will be responsible for the following, but not limited to, setting up equipment, support in the installation of required gauges, setting up remote access to equipment for the DTO or DTE, operating equipment during dynamic load testing data collection, and any other activities required for data acquisition and transmission. The DTT cannot work independently of the DTO or DTE to collect dynamic load testing data.

The DTT shall work under the supervision of the DTE and be a CTQP qualified Pile Driving Inspector. In addition, the DTT shall have been trained in the field during pile installation by the DTO or DTE for a minimum of 15 piles. A signed qualification statement by the DTO or DTE shall be provided in the Pile Installation Plan.

105-8.13.6 Foundation Inspectors: Provide qualified foundation inspectors, working under the supervision of the GFDEOR, to monitor and record the construction of foundations. Pile Driving inspectors must possess CTQP Pile Driving Inspector qualification. Drilled Shaft inspectors must possess CTQP Drilled Shaft Inspector qualification. Inspectors assigned to monitor Auger Cast Piles (ACP) for bridges must possess CTQP ACP Inspector qualification. Inspectors assigned to monitor the construction of ACP for non-bridge structures must either possess CTQP ACP Inspector qualification, or have completed and passed the Computer based training class for auger cast piles.

105-8.13.7 Pile Driving Superintendents: Use pile driving superintendents or foremen in responsible charge of pile driving operations, with experience in installing driven piles of the type, size and depth proposed for the project and for a period of not less than two years.

105-8.13.8 Drilled Shaft Superintendents: Use drilled shaft superintendents or foremen in responsible charge of drilling operations with experience in installing drilled shafts of the size and depth proposed and for the project for a period of not less than three years.

105-8.13.9 Auger Cast Pile Superintendents: Use auger cast pile superintendents or foremen in responsible charge of auger cast pile installation operations with experience in installing auger cast piles of the size and depth proposed for the project and for a period of not less than one year.