

Origination Form

Specifications

Name:	Oliver Chung	Specification Number:	449-1, 449-2
Email:	oliver.chung@dot.state.fl.us	Associated Specs:	None
Date:	2024-06-17T20:39:17Z	Verified:	VERIFIED

Summary:

1. Formatting changes based on APL/BABA program. 2. Administrative update to Standard Specifications for accuracy. Current language references a "QC Managers stamp", which is incorrect. These should read "Production Facility Quality Control Stamp".

Justification:

The current specification refers to QC Managers stamp which is incorrectly worded.

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?

No, these are formatting and administration changes.

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

None

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

None

How does this change improve efficiency or quality?

The stamp affixed to precast elements is the Production Facility Quality Control Stamp, not the QC Manager quality control stamp. This stamp is the indicator that the structure has met all contract requirements before leaving the precast yard.

Which FDOT offices does the change impact?

District Materials and State Materials Offices

What is the impact to districts with this change?

None

Does the change shift risk and to who?

No

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/programmanagement/Specs.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.

**PRECAST CONCRETE DRAINAGE PRODUCTS
(REV 6-17-24)**

ARTICLE 449-1 is deleted and the following substituted:

449-1 Description.

Precast concrete drainage products hereinafter called products, may include but are not limited to, round concrete pipe, elliptical concrete pipe, underdrains, manholes, endwalls, inlets, junction boxes, three-sided precast concrete culverts, and precast concrete box culverts.

Ensure that all precast drainage products are designed and manufactured in accordance with the requirements of the Contract Documents.

Obtain precast concrete pipes, box culverts, and drainage structures from a plant that is currently on the Department's Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105.

At the beginning of each project, submit a notarized certification statement to the Engineer from a company designated representative certifying that the plant will manufacture the products in accordance with the requirements set forth in the Contract Documents and Producer Quality Control (QC) Plan. The ~~Quality Control Manager's stamp~~ Production Facility Quality Control Stamp on each product indicates certification that the product was fabricated in conformance with the Producer QC Plan, the Contract, and this Section. Ensure that each shipment of precast concrete products to the project site is accompanied with a QC signed or stamped delivery ticket providing the description and the list of the products.

When the Producer Quality Control Program is suspended by the Department, accept responsibility of either obtaining products from a plant with an approved Quality Control Program, or await re-approval of the plant. The Engineer will not allow changes in Contract Time or completion dates as a result of the plant's loss of qualification. Accept responsibility for all delay costs or other costs associated with the loss of the plant's qualification.

ARTICLE 449-2 is deleted and the following substituted:

449-2 Materials.

Ensure that the materials used for the construction of the precast drainage products have a certification statement from the source, showing that they meet the applicable requirements of the Specifications with the following modifications:

Reinforcing Bar*	.....	Section 415
Coarse Aggregate*, **	.....	Section 901
Fine Aggregate*, **	.....	Section 902
Portland Cement and blended cement*	.....	Section 921
Water	.....	Section 923
Admixtures*	.....	Section 924
<u>Epoxy, Type F-1*</u>	.....	<u>Section 926</u>
Supplementary Cementitious Materials*	.....	Section 929
Gasket Material*	.....	Section 942

Blended Hydraulic Cements*AASHTO M 240

~~Welded Wire ReinforcementSection 931~~

~~Wire for Site Cage MachinesSection 931~~

~~Liner Repair SystemsSection 948~~

*Use products and producers on the Department's Approved Product List (APL).

*For concrete pipes the gradation requirements of concrete aggregates as set forth in Sections 901 and 902 are not applicable.