

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

Modify Specification _____982_____

Section/File number

New Section _____.

Section number

Subject: Commercial Fertilizer

Origination date: June 20, 2005

Originator: David Sadler, Office of Construction

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Userid: CN982DA

Problem statement: All grassing operations are being combined under one specification. The Design Standards will need to be updated to reflect these changes.

Information source: David Sadler, Office of Construction; David Sumner, Maintenance; Jeff Caster, Environmental Management Office, Frances Thomas, Specifications and the consulting firm of Hatch Mott MacDonald.

Background data: To combine and update like specifications and pay items and to clarify the work involved

Recommended

Usage Note: All Jobs

**Desired
implementation**

date: Beginning with the July 2006 letting.



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.
SECRETARY

MEMORANDUM

DATE: September 12, 2005
TO: Specification Review Distribution List
FROM: Duane F. Brautigam, P.E., State Specifications Engineer
SUBJECT: Proposed Specifications Change: 9820000.D01 - Fertilizer

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Fertilizer.

This change was proposed by David Sadler of the State Construction Office to update this Section to reflect current fertilizer requirements.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DB or duane.brautigam@dot.state.fl.us. Comments received after October 10, 2005 may not be considered. Your input is encouraged.

DFB/jf

Attachment

COMMENTS:

Submitted by:

Phone #:

COMMERCIAL FERTILIZER.**(REV 9-7-05)**

SECTION 570 (Pages 665-668) is deleted and the following substituted:

SECTION 982
COMMERCIAL FERTILIZER

982-1 Commercial Fertilizers.

~~Commercial fertilizer~~ shall comply with the State fertilizer laws.

The numerical designations for fertilizer indicate the minimum percentages (respectively) of (1) total nitrogen, (2) available phosphoric acid, and (3) water-soluble potash, contained in the fertilizer.

~~————The chemical designation of the fertilizer shall be 16-4-8. At least 50% of the nitrogen shall be from a slow-release source. At least 50% of the phosphoric acid shall be from normal super phosphate or an equivalent source which will provide a minimum of two units of sulfur. The amount of sulfur shall be indicated on the quantitative analysis card attached to each bag or other container.~~

982-2 Certification.

The Contractor shall provide the Engineer a certified test report from the manufacturer of the commercial fertilizer confirming that the requirements of this Section are met. The certified test report shall conform to the requirements of Section 6 and include test results for total nitrogen, available phosphoric acid, water-soluble potash, and sulfur. Each certification shall cover one batch per type for dry type fertilizer.

~~982-3 Fertilizer Rates.~~

~~————Soil laboratory fertilization recommendations are based on the amount (lbs) of nutrients (N, P₂O₅, K₂O) to apply per given area (usually 1000 sq. ft.). From this recommendation it is necessary to select an appropriate fertilizer grade and then determine how much of this fertilizer to apply to the area.~~

~~————If a complete fertilizer (containing all three primary nutrients) is not available in the ratio of N-P-K necessary to match the ratio required in the fertilizer recommendation, mixed grade or single nutrient fertilizers should be used to satisfy each nutrient requirement.~~

~~————To calculate fertilizer rates:~~

~~Measure the area to be fertilized in square feet.~~

~~Select fertilizer(s) to be used based on the soil testing laboratory recommendations by matching the ratio of nutrients recommended to the fertilizer grades available.~~

~~Determine the amount of fertilizer to apply to a given area (1000 sq. ft.) by dividing the recommended amount of nutrient by the percentage of the nutrient (on a decimal basis) in the fertilizer.~~

~~Adjust the amount of fertilizer to the project area.~~

982-3 Fertilizer Rates.

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If a complete fertilizer (containing all three primary nutrients) is not available in the ratio of N-P-K necessary to match the ratio required in the fertilizer recommendation, mixed-grade or single-nutrient fertilizers should be used to satisfy each nutrient requirement.

To calculate fertilizer rates:

- 1. Measure the area to be fertilized in square feet.*
- 2. Select fertilizer(s) to be used based on the soil testing laboratory recommendations by matching the ratio of nutrients recommended to the fertilizer grades available.*
- 3. Determine the amount of fertilizer to apply to a given area (1000 sq. ft.) by dividing the recommended amount of nutrient by the percentage of the nutrient (on a decimal basis) in the fertilizer.*
- 4. Adjust the amount of fertilizer to the project area.*

