



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.
SECRETARY

December 21, 2005

Mr. Donald Davis
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 982
Proposed Specification: 9820000.D02

Dear Mr. Davis:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Fertilizer.

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

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or duane.brautigam@dot.state.fl.us.

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Signature on file

Duane F. Brautigam, P.E.
State Specifications Engineer

DFB/jf

Attachment

cc: General Counsel
Florida Transportation Builders' Assoc.
State Construction Engineer

COMMERCIAL FERTILIZER.**(REV 12-21-05)**

SECTION 982 (Page 922) is deleted and the following substituted:

SECTION 982
COMMERCIAL FERTILIZER

982-1 Commercial Fertilizers.

~~Commercial fertilizer~~ fertilizers 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.~~

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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.

FERTILIZER.
(REV 12-21-05)

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