



Hillsborough County Florida

ENGINEERING & OPERATIONS DEPARTMENT

PO Box 1110, Tampa, FL 33601-1110
813-635-5400 | Fax: (813) 272-5811

TRANSPORTATION DESIGN BULLETIN 21-10

DATE: January 11, 2021

TO: County Director of Capital Programs Department,
County Manager of Construction Services,
Division Director of Transportation Maintenance,
County Project Managers and Project Engineers of Record

FROM: County Engineer,
County Director of Engineering & Operations Department,
County Director of Technical Services Division,
County Manager of Transportation Services Section

COPIES: County Director of Geospatial & Land Acquisition Services Department

SUBJECT: **FRICION COURSE LAYER THICKNESS POLICY**

This bulletin establishes a minimum Friction Course layer thickness of 1.5 inches for all Hillsborough County Arterial and Collector Roadways requiring friction course.

REQUIREMENTS

The final Friction Course (FC) layer for all Hillsborough County Arterial and Collector Roadways must be FC-12.5 and 1.5 inches thick for roads requiring friction course.

BACKGROUND

In the past, some friction course layer thicknesses on County roads have been designed and constructed as FC-9.5 at a 1 inch thickness. While the design may meet criteria for structural integrity, it has been observed that some roads with a friction course layer of 1 inch began to shove/slip or ravel where vehicles slow and brake. This is due to the smaller aggregate having less interlocking capability. Also, the 1 inch thickness provides about one half inch of uniform thickness over the entire milled surface. Requiring a standard FC-12.5 minimum 1.5 inch thickness will provide approximately a full 1 inch uniform thickness over the entire milled surface minimizing slippage.

IMPLEMENTATION

Effective Immediately.

BOARD OF COUNTY COMMISSIONERS

Harry Cohen
Ken Hagan
Pat Kemp
Gwendolyn "Gwen" Myers
Kimberly Overman
Mariella Smith
Stacy R. White

COUNTY

ADMINISTRATOR

Bonnie M. Wise

COUNTY ATTORNEY

Christine M. Beck

INTERNAL AUDITOR

Peggy Caskey

PUBLIC WORKS

ADMINISTRATOR

John W. Lyons

CONTACT

Please use the email link below to address any questions or comments in reference to this Design Bulletin:

[PW-Standards_Inquiry](#)

Recommended / Date:

Approved / Effective Date:

Leland Dicus, Professional Engineer
Technical Services Division Director

Michael J. Williams, Professional Engineer
County Engineer