High Friction Surface Treatment (HFST) Inspection and Installation Training for Florida DOT

David K. Merritt, P.E.

Project Director

The Transtec Group, Inc.

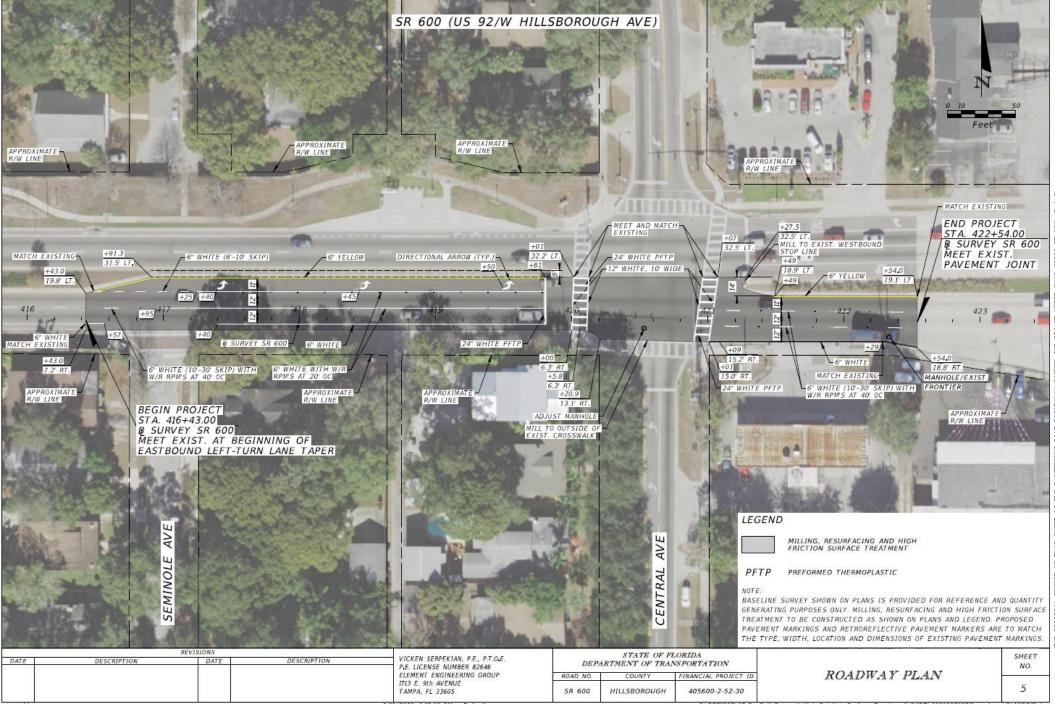
1 July 2020

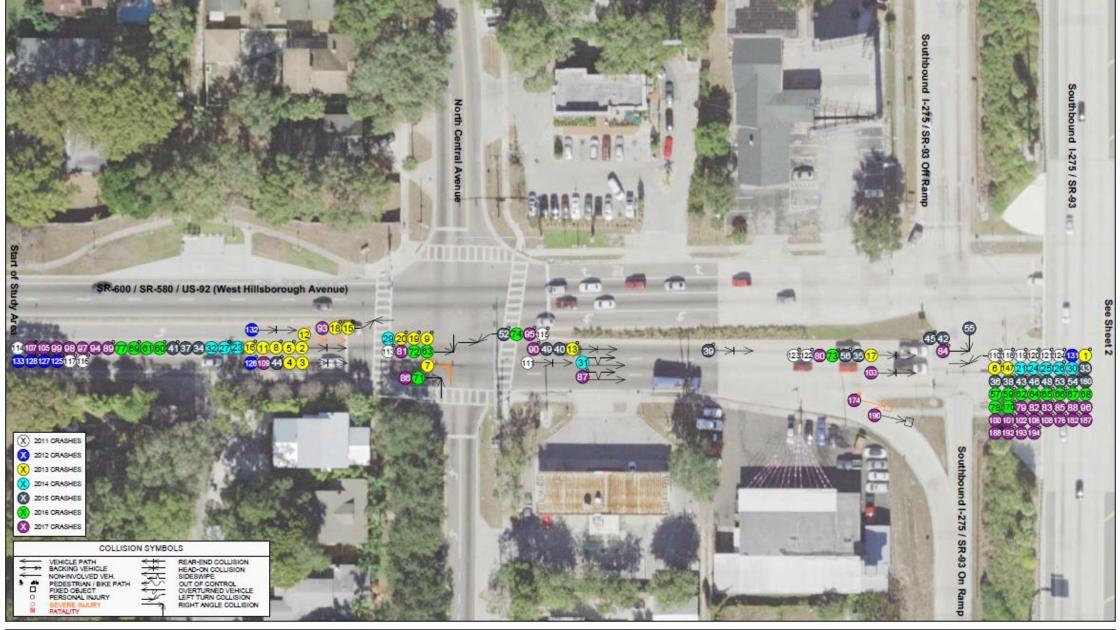


Agenda

- 1. Introductions and Training Overview
- 2. Presentation of FHWA HFST Quick Reference
- 3. Discussion of Key Items for Hillsborough Ave. Project
- 4. Q&A

- Location: SR-580 (Hillsborough Ave.) from N. Central Ave. to SB On/Off Ramps of I-275/SR-93
- Intersection application of HFST
 - Application to intersection approach
 - 3 lanes (2 thru plus left turn lane) and bike lane

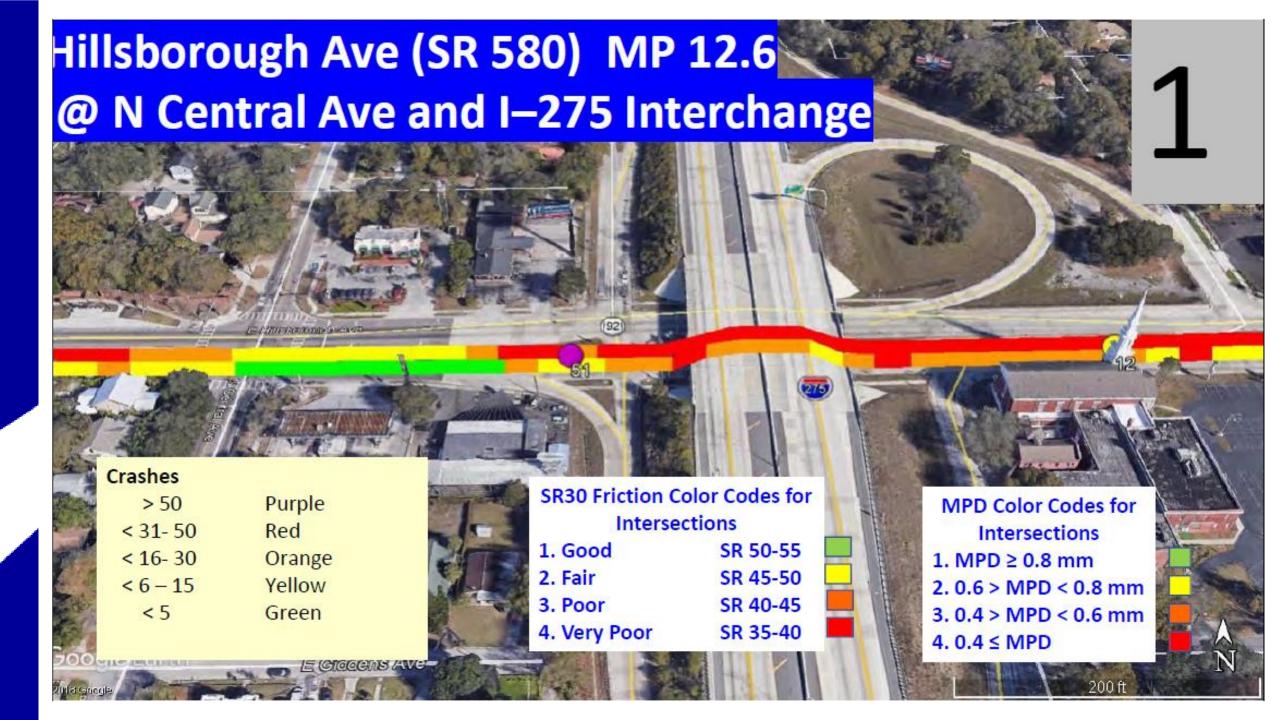








Dry Roadway Conditions (Sheet 1 of 2), Collision Diagram from 2011 to 2017 SR-600 / SR-580 / US-92 (West Hillsborough Avenue) from North Central Avenue to Northbound On and Off Ramps of I-275/SR-93



- Automated Installation
 - Two-part epoxy resin binder (1:1 mix ratio)
- New asphalt pavement
 - 30 day cure
- Nighttime installation
 - Lighting
 - Check for loose aggregate

- Lane-by-lane installation
 - Watch for aggregate migration and shedding on to adjacent (untreated) lanes and shoulder.
- Urban arterial
 - Protection of drainage structures/inlets
 - Replacement of striping

- Warranty Items
 - Surface Cracking
 - Raveling (aggregate loss)
 - Delamination
 - Soft Spots / Bleeding

Agenda

- 1. Introductions and Training Overview
- 2. Presentation of FHWA HFST Quick Reference
- 3. Discussion of Key Items for Hillsborough Ave. Project
- 4. Q&A