



Florida Department of
TRANSPORTATION

US 301 Asphalt Test Road Update

Financial Project ID 430352-4-52-01

SR 200 in Clay County

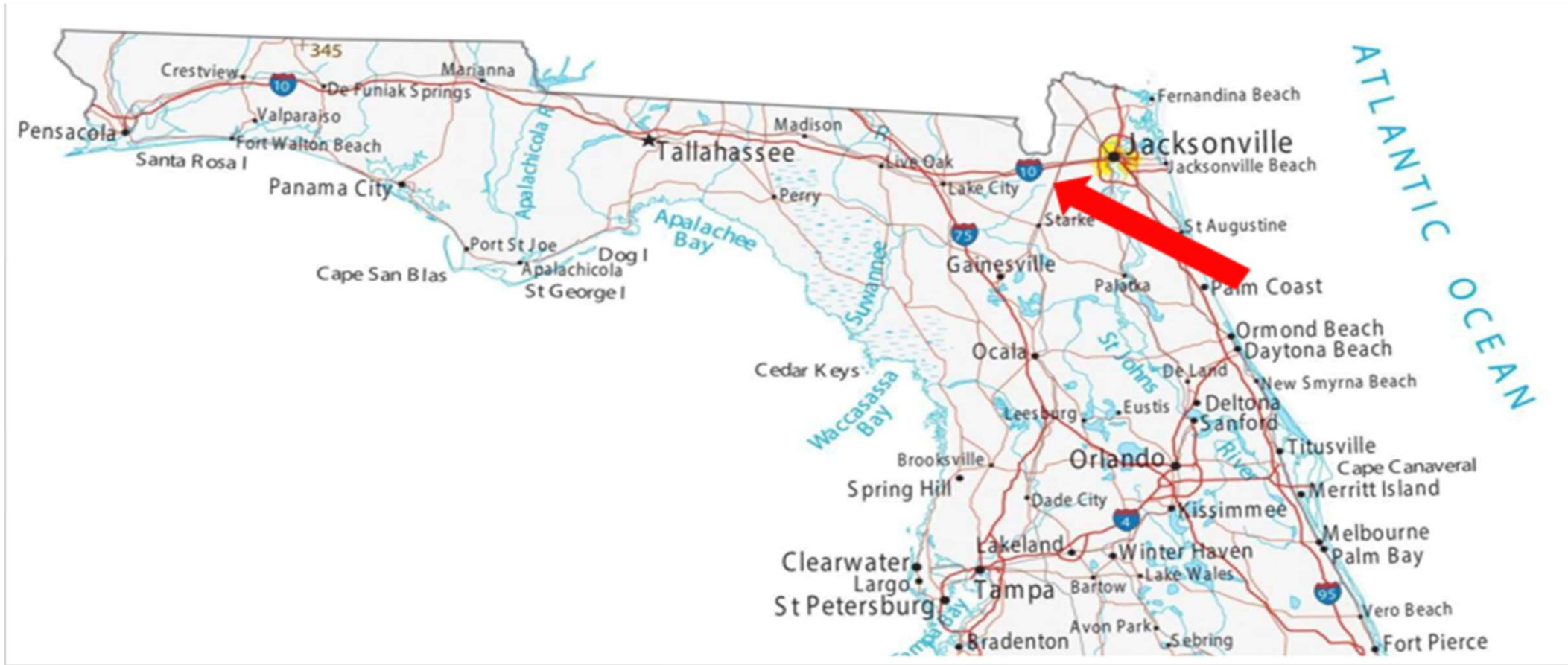
State Materials Office – Asphalt Section

Presented by Ahmad Chami, P.E.



Florida Department of Transportation

Project Location



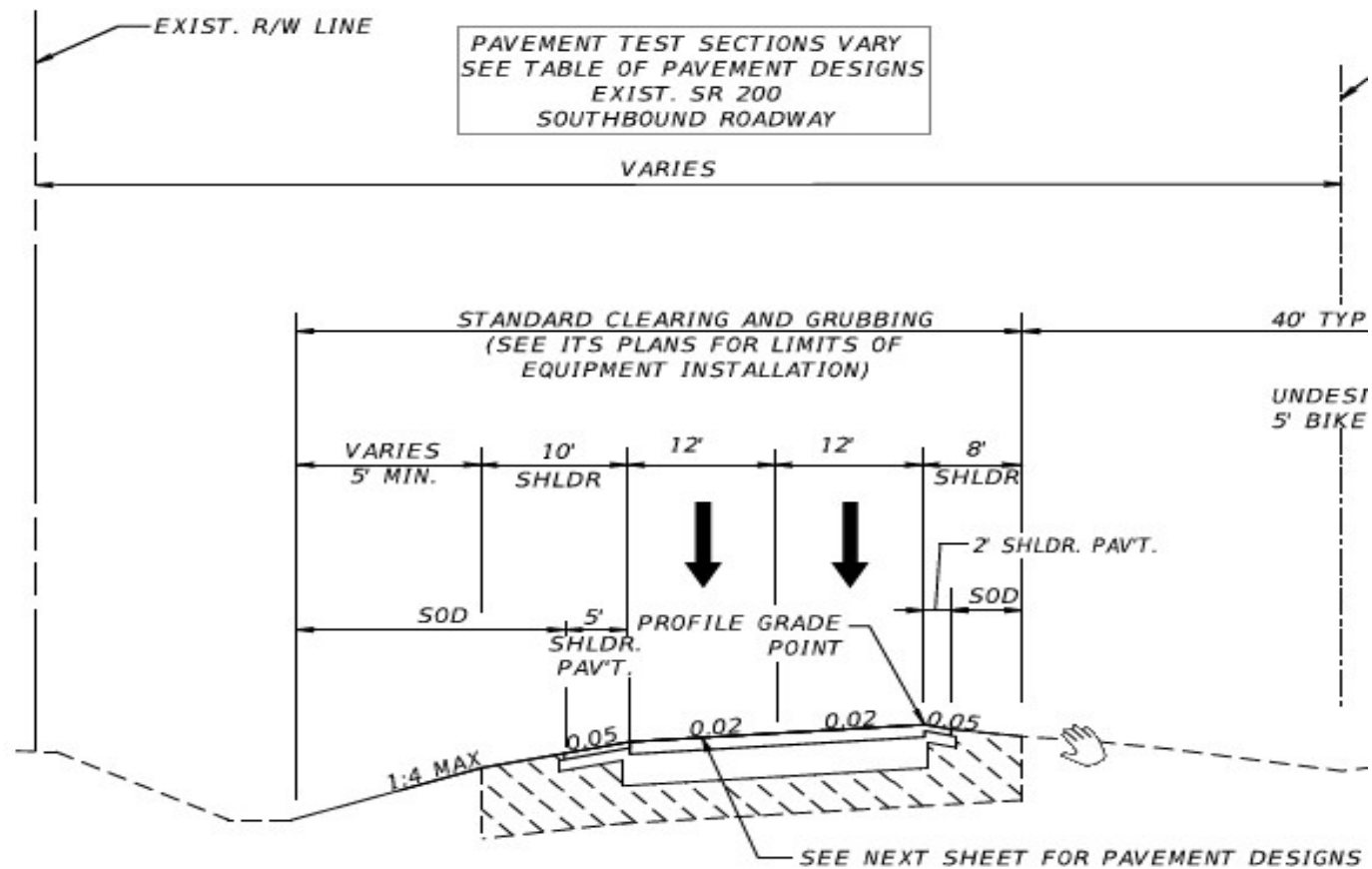
Top View US 301 Test Sections



Asphalt Test Sections

- Southbound direction only.
- Construction operations from October 2023 to current.
- Paving twelve sections with six different mix designs.
- Each test section 1,000 ft.
- The first seven sections a total of 6.75 in. were milled. Also, the 12-in. limerock base was replaced with various base materials.

Southbound Typical Section



Sections 1 Through 7

1	2	3	4	5	6	7
Control	Unstabilized RAP Base	CCPR RAP Base	Emulsion Stabilized RAP Base Mixed in Place	Limerock/RAP Base (50/50)	Limerock/RAP Base (75/25)	Full-Depth Reclamation
0.75" FC-5	0.75" FC-5	0.75" FC-5	0.75" FC-5	0.75" FC-5	0.75" FC-5	0.75" FC-5
2" Type SP, PG 76-22, TL-D	2" Type SP, PG 76-22, TL-D	2" Type SP, PG 76-22, TL-D	2" Type SP, PG 76-22, TL-D	2" Type SP, PG 76-22, TL-D	2" Type SP, PG 76-22, TL-D	2" Type SP, PG 76-22, TL-D
4" Type SP, TL-D	4" Type SP, TL-D	4" Type SP, TL-D	4" Type SP, TL-D	4" Type SP, TL-D	4" Type SP, TL-D	4" Type SP, TL-D
12" Limerock	12" Un-stabilized RAP Base	12" CCPR RAP Base	12" Emulsion Stabilized Rap Base	12" Limerock RAP Base (50/50)	12" Limerock RAP Base (75/25)	12" FDR (Mill 6.75")



Sections 8 Through 12

8A	8B	9	10A	10B	11	12
Reflective Cracking	Reflective Cracking	Superpave 5	Deep Lift (HP)	Deep Lift (76-22)	FC-5 Only	FC-Q Only
0.75" FC-5	0.75" FC-5	0.75" FC-5	0.75" FC-5	0.75" FC-5	1.0" FC-5	1.0" FC-Q
1.75" Type SP, PG 76-22, TL-D	3.0" Type SP, PG 76-22, TL-D	3.0" Type SP5, PG 76-22, TL-E	1.5" Type SP, HP, TL-D	1.5" Type SP, PG 76-22, TL-D	Existing Asphalt	Existing Asphalt
1.25" CRM			6.0" Type SP, HP, TL-D	6.0" Type SP, PG 76-22, TL-D		
Existing Asphalt	Existing Asphalt	Existing Asphalt	Existing Base	Existing Base	Existing Base	Existing Base
Existing Base	Existing Base	Existing Base				



Testing Plan OGFC (FC-5 & FC-Q)

- Binder Content
- Gradation
- Cantabro Test
- Lab Permeability
- Field Permeability
- Field compacted air voids by cores
- Cores (thickness)

Testing Plan Dense-Graded Mixtures and Performance Testing

- Type SP, CRM, and Superpave 5:
 - Binder Content
 - Gradation
 - Volumetrics
- Performance Testing:
 - HWTT Hamburg Wheel Tracking Test
 - APA Asphalt Pavement Analyzer
 - Hot IDT Indirect Tensile Test
 - IDEAL-CT Ideal cracking tolerance



Thank You

Questions?