



NicNevol

Engineering Services



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SR 5 (US 1) – Mill & Resurface

Location: From Flagler County Line to SR 206, St. Johns County, FL

Owner: FDOT District Two

Contractor: Preferred Materials, Inc.

Markets: Transportation (State Highways)

Services: Construction Engineering & Inspection (CEI), QA Support.

Project Description

NicNevol provided support for FDOT District Two in the rehabilitation of SR 5 (US 1), a vital north-south corridor in St. Johns County. The project limits extended from the Flagler County Line to SR 206, covering approximately 7.4 miles of roadway.

The work included milling existing asphalt at depths ranging from $\frac{3}{4}$ in. to 5 $\frac{1}{4}$ in., followed by placement of new asphalt layers consisting of Superpave structural courses (PG 76-22) and an FC-5 friction course for improved skid resistance and durability. A stress-absorbing membrane (SAM) layer was applied in designated areas to enhance pavement performance and reduce reflective cracking.

Additional scope included base work and stabilization, shoulder treatment, driveway reconstruction, guardrail upgrades, drainage improvements with new culverts and mitered end sections, and rehabilitation of bridge deck expansion joints. Highway signing and a complete pavement marking refresh were also implemented.

The project required careful MOT planning with changeable message boards, radar speed display units, and business signage to maintain safe mobility through construction. Upon completion, the corridor now offers improved ride quality, enhanced safety features, and a stronger pavement structure designed for long-term service.

NicNevol Responsibilities

- Reviewing and documenting construction activities.
- Verification material testing and MAC entry.
- Oversight of contractor quality control efforts.
- Reviewing erosion control measures and MOT.
- Assisting in the preparation of monthly and final estimates.
- Coordinating daily with contractor representatives and inspection staff.
- Responding to RFIs, resolving construction issues, and negotiating extra work/cost with the contractor.



Project Highlights

- Length: ~7.4 miles of roadway
- Milling depths: $\frac{3}{4}$ in. – 5 $\frac{1}{4}$ in. (variable)
- Asphalt overlay: Superpave structural courses (PG 76-22) + FC-5 friction course
- SAM layer applied in designated areas to reduce reflective cracking
- Guardrail upgrades, culverts, drainage, and bridge deck rehabilitation
- Contract duration: ~300 days



Delivering engineering expertise that supports safer, stronger infrastructure.

