

Maintenance Resurfacing Project Technical Scope

February 21, 2024

452908-1: SR 5 from Taylor Ave. to Woodland Ave

State Road Numbers: 5
 Section Number: 79030-000
 County: Volusia
 Project Limits: Taylor Ave. to Woodland Ave
 Begin MP/End MP: 0.788 to 5.868 (Length 5.080 Mi)
 FM: 452908-1

1. Existing R/W Map Project Numbers:	60-A (7903 & 7301) (1938) MP 5.828 to MP 6.337 9903-201 (1947) MP 0.000 to MP 6.409 7903-175 (1955) MP 5.828 to MP 12.803 240992-1G (2006) MP 5.230 to MP 5.798 240992-1M (2012) MP 0.833 to MP 1.579	
2. Old Construction Project Numbers:	411777-3 (2007) MP 1.192 to MP 4.666; Traffic Signals 240992-1 (2010) MP 1.192 to MP 5.509; Intersection Improvements 428689-1 (2013) MP 5.841 to MP 7.166; Resurfacing 439700-1 (2017) MP 5.650 to MP 8.460; Landscaping	
3. Additional R/W required?	No	
4. Level of Community Awareness Plan:	CAP Level 1	
5. Agreements required?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
	<input type="checkbox"/> Yes, including Local Funds.	
6. Are there any bridges within the limits?	790013 MP 2.647 to MP 2.661	
7. Are there any RR Crossings within the project limits or in the vicinity?	No	
8. Are there any Airports within 10 nautical miles?	Ormond Beach Municipal Airport (OMN) Dan Rice Airstrip Daytona Beach International Airport (DAB) Spruce Creek Airport (7FL6)	
9. Storm Water Management jurisdiction:	SJRWMD	
10. Is the Project within CCCL (<i>Coastal Construction Control Line</i>)?	No	
11. Existing Utilities per Sunshine One Call:	City of Daytona Beach City of Holly Hill Lumen - CenturyLink Cogent Communications City of Ormond Beach Charter Communications City of Daytona Beach – Information Systems & Traffic Zayo Group/Formerly Lightwave, LLC Florida Power & Light – Volusia Hotwire Communications MCI Crown Castle NG Teco Peoples Gas – Gas Daytona AT&T/Mobility AT&T/Distribution Uniti Fiber LLC Wire 3, LLC Metro Fibernet LLC	
12. Any special MOT concerns?	Yes, pedestrian detours.	
13. Any construction concerns?	No	

Maintenance Resurfacing Project Technical Scope

14. Posted/Design Speed Limits (mph):	<u>Facility</u>	<u>Design</u>	<u>Posted</u>	<u>Target</u>
	SR 5	40 (0.788–5.868)	35 (0.788-3.228)	35
			40 (3.228-5.868)	40
15. Design Criteria and Highway System:	SHS, FDM, RRR			
	<u>Facility</u>	<u>Context Classification</u>		
	SR 5 (0.788-5.868)	C4		
16. Lump Sum or Pay Item?	Pay Item			
17. Proposed Design Schedule:	18-24 Months			

Agreements Required:

None.

Project Location Map:



The Engineer is responsible for verifying all items in the proposed scope and shall review the project for conformance with all applicable criteria and standards.

Intent and Nature of Project:

The purpose of this project is milling and resurfacing to restore the functional condition of the pavement along SR 5 from Taylor Ave. to Woodland Ave. This maintenance resurfacing project also includes reconstruction curb ramps to be ADA compliant and signing & pavement markings.

Project Description:

- Project is located on SR 5/US 1 (Ridgewood Ave./Younge St.) from the intersection of Taylor Ave. to Woodland Ave. Project limits pass through the City of Daytona Beach, City of Holly Hill, and City of Ormond Beach within Volusia County.
- SR 5 is classified as an urban principal arterial with Access Classification 05 (MP 0.788 to MP 3.162), Access Classification 06 (MP 3.162 to MP 5.864), and Access Classification 03 (MP 5.864 to MP 12.803).

Maintenance Resurfacing Project Technical Scope

- SR 430 (Mason Ave.) at SR 5 is classified as an urban minor arterial with Access Classification 06.
- SR 40 (Granada Blvd.) is classified as an urban principal arterial with Access Classification 05 west of SR 5 and Access Classification 07 east of SR 5.
- Holly Hill Fire Station #96 is located on 10th St. east of SR 5.
- Holly Hill Police Department and City Hall are located on SR 5 approximately 450 feet south of the intersection of SR 5 and LPGA Blvd.
- Ormond Beach Police Department is located east of SR 5 with access from Corbin Ave and Washington St.
- The following active projects has been identified within the vicinity of this project:
 - 438982-1 (Traffic Signal Update on US 1/SR 5 from 6th Street to Flomich St MP 1.567 – MP 3.4 with a letting date of 1/26/2022)
 - 447105-1 (Resurfacing on SR 40 from SR 5 to SR A1A with an anticipated letting date of 10/3/2023)
- The following tentative projects have been identified within the vicinity of this project:
 - 448798-1 (Resurfacing on SR 430 from Clyde Morris Blvd to E of Beach Street with a letting date of 10/30/2024)
 - 450782-1 (Resurfacing on SR 5\US 1 from SR 400 (Beville Rd) to North of Fairview Ave MP 0.000 – MP 0.788 with an anticipated letting date of 03/25/2026)

Typical Sections:

- Per field review and as-built plans, the project includes one (1) typical section. **No changes to the typical section are being proposed.**
 - MP 0.788 to MP 5.868; 4-lane urban divided highway with an 18-foot grass median with Type E curb, two 12-foot travel lanes, 5-foot bicycle lanes, Type F curb, 5-foot utility strip and 5-foot sidewalk at the Right-of-Way in each direction.

Roadway Scope Items:

- A Pavement Condition Assessment will be completed by FDOT prior to design. One (1) pavement design has been assumed for estimating purposes: 1) Mill and resurfacing existing roadway.
 - Special pavement details may be required for asphalt overlays for the following bridge and approach slabs:
 - 790013 MP 2.647 to MP 2.661

Drainage Scope Items:

- No work proposed.

Utility Scope Items:

- Utility coordination will be required to determine if any necessary adjustments are required to avoid conflicts with the proposed construction.
- Adjust all valve covers, utility pull boxes, and utility manholes to be flush with proposed ramps and roadway pavement as necessary to complete the proposed improvements.

Multimodal Scope Items:

- A traffic control plan should be provided to maintain connectivity within the corridor in the event of lane closures/detours during milling and resurfacing operations for Transit, Bicycle, and Pedestrian facilities.

Transit:

- There are 7 Votran bus routes (routes 1N, 1S, 3A, 3B, 3C, 3N, and 3S) that operate within the project limits and 6 Votran bus routes (routes 5, 11A, 11B, 11N, 18, and 19) intersection within the project limits. Coordinate with Elizabeth Suchsland (386) 756-7496 Ext. 4127; esuchsland@volusia.org to avoid disruptions during construction.

Maintenance Resurfacing Project Technical Scope

Bicycle facilities:

- Marked bicycle lanes exist within the project limits between MP 0.668 to MP 5.868 Woodland Ave and are to be maintained.

Pedestrian facilities:

- Reconstruct curb ramps in place that do not comply with ADA criteria and ensure all ramps have DWS.

Permitting Scope Items:

- Coordinate with FDOT, submitting a permit determination letter to the Environmental Permits Office, Attention District Five Permits Coordinator, for review and concurrence during the design process, considering the below descriptions of work and conditions.
 - This project is anticipated to exceed one acre of soil disturbing activities and will require NPDES coverage under the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities.

Environmental Scope Items:

- Complete an environmental assessment by a qualified environmental professional:
 - A protected species assessment is required for the project. The level of assessment should be commensurate with the scope of work. The assessment should focus on species applicable to the project area with consideration given to consultation areas, habitats, and known occurrence data.
 - Forested wetlands occur immediately adjacent to both sides of the Right of Way intermittently throughout the project corridor and the project also crosses the Tomoka River and associated estuarine wetlands. None of these resources are to be impacted.
 - A contamination assessment is required for the project. The level of documentation required will be dependent on the contamination sites in the area, scope of work proposed, and previous assessments conducted. Coordinate with the District Contamination Impact Coordinator to determine project needs.
- A Cultural Resources Assessment is required and is to be conducted by Cultural Resources Professionals as outlined in 36 CFR Part 61 and set forth in the Professional Qualifications Standards section of the Secretary of the Interior's Standard and Guidelines for Archaeology and Historic Preservation.

Structural Scope Items:

- No work proposed.

Traffic Operations (Includes Signing, Signals, ITS) Scope Items:

Signing and Pavement Markings

- Signing and Pavement Marking shall be completed for the proposed improvements. The Engineer will prepare the Inventory all signing within the project limits including evaluation for compliance with FDOT Specifications, FDM, Standard Plans, MUTCD, FHWA, etc. criteria and shall coordinate with the District Design Office for any changes to existing signs. Any existing signs or pavement markings that conflict with the proposed signs or pavement markings or non-compliant signs or pavement markings shall be addressed in the plans.

Signals (ITS)

- Replace existing traffic signal detection disturbed by milling and resurfacing operations.
- Replace existing traffic detection loops affected by milling operations for the existing Traffic Monitoring Sites at MP 0.871 and remove Traffic Monitoring Sites at MP 3.221 and MP 5.255.

Intelligent Transportation Systems (ITS)

- All projects that involve ITS or Signalization, need to go through the FDOT Procedure 750-040-003 Systems Engineering Risk Assessment Checklist to determine if it is a high-risk project, as per 23 CFR 940. If the project is deemed high risk, the Engineer is to develop the Systems Engineering documents that will be

Maintenance Resurfacing Project Technical Scope

needed for the project. The Engineer is responsible to produce all regulatory Systems Engineering (SE) analysis items in 23 CFR 940.11.

- Engineer to complete the ITS Certification.
- The additional past ITS scoping considerations reference document can be found here:
[https://www.cflsmartroads.com/projects/technical_docs.html#\(Designers\)](https://www.cflsmartroads.com/projects/technical_docs.html#(Designers))

Lighting Scope Items:

- No work proposed.

Landscaping Scope Items:

- No work proposed.

Survey Scope Items:

- Obtain Design Survey, collecting data for the areas and locations required to complete the design. Total survey area will be determined by the engineer based on the limits of disturbance and any adjustment required due to the proposed improvements.
 - Locate utilities as Quality Level C "QL C" and surface features including valve covers, meter boxes, manholes, etc. within the project limits.
 - Include items identified by the environmental assessment.
 - Develop a survey exhibit of all existing curb ramps to be modified to serve as a maintenance record in the project documentation.

Right of Way and Mapping Scope Items:

- No work proposed.

Geotechnical Scope Items:

- FDOT to perform Pavement Coring Report and provide ESAL calculation and Resilient Modulus values.

Design Documentation:

- None.