8/9/2023

**452881-1: SR 434 from John Young Parkway to Edgewater Drive – Pavement Only Project**

State Road Numbers: 434

Section Number: 75242000

County: Orange

Project Limits: John Young Parkway to Edgewater Dr.

Begin MP/End MP: 0.000 to 1.242

FM: 452881-1

|  |  |  |
| --- | --- | --- |
| 1. Existing R/W Map Project Numbers: | 75190-75260 (2003)  75190-2503 (1969) | |
| 1. Old Construction Project Numbers: | 239496-2 (2012) MP 5.490 to MP 7.457 (SR 423); New Construction | |
| 1. Additional R/W required? | No | |
| 1. Level of Community Awareness Plan: | CAP Level 2 ,urban resurfacing | |
| 1. Agreements required? | No | Yes |
| Yes, including Local Funds. | |
| 1. Are there any bridges within the limits? | Yes – 750563, 750564 [Over Orange Blossom Trail] | |
| 1. Are there any RR Crossings within the project limits or in the vicinity? | Yes – Crossing No. 621558 | |
| 1. Are there any Airports within 10 nautical miles? | Yes – Orlando Executive Airport | |
| 1. Storm Water Management jurisdiction: | SJRWMD | |
| 1. Is the Project within CCCL *(Coastal Construction Control Line)*? | No | |
| 1. Existing Utilities per Sunshine One Call: | Windstream Communication  ATT/T  City of Orlando Water Reclamation  Charter Communications  City of Winter Park  Zayo Group/(Formerly Lightwave, LLC)  Duke Energy  Knology Broadband of Florida DBA Wide  Lumen  Comcast Cable  MCI  Crown Castle NG  Orange County Public Works  City of Orlando Fiber  Summit Broadband  Orlando Utilities Commission  AT&T/ Distribution  Smart City Telecom  Uniti Fiber LLC | |
| 1. Any special MOT concerns? | Yes – Railroad crossing present within the project limits | |
| 1. Any construction concerns? | No | |

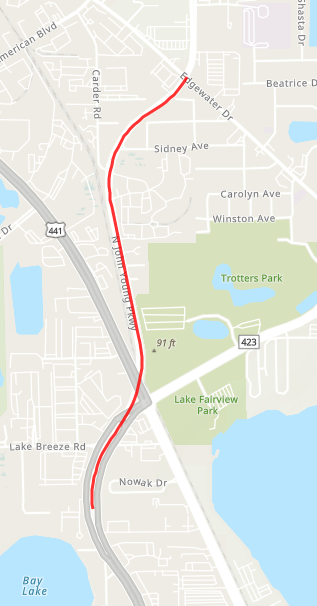
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| --- | --- | --- | --- | --- |
| 1. Posted/Design Speed Limits (mph):   v | MP Range | Design | Posted | Target |
| 0.000 – 1.242 | 45 mph | 45 mph | 45 mph |
| 1. Design Criteria and Highway System:   Source: FDOT RCI Database | SHS, FDM (2023), RRR, SIS | | | |
| Facility | | Context Classification | |
| 0.000 – 1.242 | | C3C | |
| 1. Lump Sum or Pay Item? | Pay Item | | | |
| 1. Proposed Design Schedule: | 18-24 months | | | |

# Agreements Required:

An agreement with Florida Central Railroad is to be acquired for any work within the limits of or interacting with the Railroad.

# Project Location Map:

Icon

Description automatically generated with low confidence

**Project Abstract**

Resurface SR 434 from MP 0.000 to MP 1.242 in Orange County.

BEGIN PROJECT LIMITS

END PROJECT LIMITS

The Consultant 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 Pavement Only Project is to mill and resurface the roadway pavement, rehabilitate the roadway sections that are in distress, and restore the final surface to SR 434 from the northbound exit-ramp for Lee Road to Edgewater Drive.

# Project Description:

* Project is located along SR 434 (known locally as John Young Parkway), beginning approximately at the northbound exit-ramp to Lee Road and terminating at the intersection of Edgewater Drive.
* SR 434 is classified as an Urban Principal Arterial and has Access Classification 03.
* The Tentative Work Program indicates the following efforts may be active within the immediate project vicinity:
  + 239422-1: Widening and Reconstruction of SR 434 (Forest City) from SR 424 to Seminole Co Line
  + 415468-1: Lighting on SR 423 (Lee Road) from Adanson Street to US 441
  + 447104-1: Resurfacing SR 500 from SR 50 to SR 414 ramps

# Typical Sections:

* SR 434 is comprised of two typical sections within the project limits:
  + MP 0.000 – MP 0.611: 6-lane divided urban elevated arterial with 12’ travel lanes, 10-foot outside shoulders and a 22-foot median that includes 10’ paved shoulders divided by median barrier wall. Barrier wall is also present along the outside shoulders. No changes to the typical section.
  + MP 0.611 – MP 1.242: 6-lane divided curbed urban principal arterial with 12’ travel lanes, 5’ outside shoulders, and a 17’ curbed grassed median. The outside shoulders are striped as dedicated bicycle lanes. Sidewalk is present on the east side of the corridor from MP 0.589 to MP 1.242. No changes to the typical section.
* 2023 Traffic Data from FDOT GIS Open Data Hub:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mile Post Limits | AADT | K (%) | D (%) | T (%) |
| 0.000 – 1.242 | 21,500 | 9.0 | 53.2 | 6.8 |

# Roadway Scope Items:

* The existing roadway surface was newly constructed in 2014 with 3” of Type SP structural course and 1.5” FC 12-5 friction course. The shoulder pavement also included 1.5” FC-12.5 friction course.
* Mill and resurface existing asphalt pavement along SR 434, rehabilitate the roadway sections that are in distress, and restore the final surface.
* MPSV data was collected April 19, 2022 and analyzed for cross slope correction. However, cross slope and superelevation correction are not to be included as components of this project.
* Temporary Traffic Control Plans are to be provided for any details not covered in the Standard Plans.

# Drainage Scope Items:

The primary goal for improvements along this corridor is to utilize the existing drainage system where feasible. Based on field observations, the existing drainage system appears to be functioning adequately.

# Utility Scope Items:

* Adjust all valve covers, utility pull boxes, fire hydrants, utility manholes, etc. to be flush with proposed sidewalk, ramps, roadside, and roadway pavement as necessary to complete the proposed improvements.
* The Engineer is to confirm that utility poles are shown in the plans.
* Quality Level C “QL C” utility information is anticipated.

# Multimodal Scope Items:

## Transit:

* There are no bus stops or bus routes along SR 434 within the corridor limits.

## Bicycle facilities:

* Existing Bicycle lanes are provided as 5-foot outside shoulders on both sides of the roadway beginning at MP 0.611, and the 10-foot outside shoulder from MP 0.000 to MP 0.611 is also utilized as a bicycle lane.

Pedestrian facilities:

* Several existing curb ramps and detectable warning surfaces are not properly aligned to the existing crosswalks at the SR 434/Edgewater Drive intersection.
  + Reconstruct existing curb ramps that do not comply with minimum ADA criteria and ensure all ramps have detectable warning surfaces (DWS).

Railroad Facilities:

* A Railroad crossing (#621558) is present at MP 0.796 within the project corridor. Coordinate with Florida Central Railroad for all potential impacts.
* Traffic Control within the Railroad right-of-way and its influence area is to be coordinated through the District Rail Coordinator.
* Verify Railroad Dynamic Envelope (RDE) pavement markings are installed and/or restored in accordance with the FDM and Standard Plans.

# 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 not anticipated to exceed one acre of soil disturbing activities and will not require NPDES coverage under the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities.
* Wetlands were noted adjacent to the right-of-way and are not to be impacted. Any apparent wetlands lines shown in the concept plans are for informational purposes only.

**Environmental Scope Items**

* Complete an environmental assessment:
  + 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.
  + There are floodplains adjacent to the project limits. The current scope of work is not anticipated to impact the floodplains, however if there are any changes this will need to be coordinated with the FDOT Environmental Permits Office for evaluation to determine if additional documentation must be provided.
  + There are two contamination sites identified within the project limits. If work requiring excavation, dewatering, etc., a Contamination Assessment must be completed and should be coordinated with the FDOT Contamination Impact Coordinator.
    - Exxon Mobil R/S #41052, 400 N Orange Blossom Trail, Facility ID 9102028
    - Florida Industrial Sales, 4907 Carder Road, Facility ID 8943610
* 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.

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

## Signing and Pavement Markings

* Signing and Pavement Marking shall be completed for the proposed improvements. The Consultant will prepare the Inventory all signing within the project limits including evaluation for compliance with FDOT Specifications, FDM, Standard Plans, MUTCD, FHWA, etc. criteria. 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)

* Signals at intersection of SR 434 and Edgewater Dr are covered in the scope for FPID 452911-1
* Traffic Monitoring Sites within the project limits have been reviewed and the following recommendations coordinated with the Data Collection Manager:

|  |  |  |
| --- | --- | --- |
| MP | TMS Site No. & Type | Recommendation |
| 1.098 | 750311; PTMS | Restore detection, reconstruct cabinet with pedestal mount |

# Survey Scope Items:

* Obtain Design Survey for the areas and locations of identified and proposed improvements shown on the Concept. Total survey area will be determined by the Engineer based on the limits of disturbance.
  + Utility designates at a minimum in the areas of anticipated design.
  + Include items identified by the environmental assessment.

**Right of Way and Mapping Scope Items:**

* No work.

**Geotechnical Scope Items:**

* Pavement Coring Report and Resilient Modulus values are to be provided by FDOT District Materials Office.

# Design Documentation:

* POP projects are exempt from Design Variation and Exception documentation other than for ADA curb ramp requirements. If compliance with ADA curb ramp requirements is determined to be technically infeasible within the POP limitations, a Design Variation will be required.
* Design Variation Memorandum
  + None.
* Design Variation
  + None, pending ADA evaluation.
* Design Exception
  + None.

# Candidate Project Development Considerations (items not to be included in final design):

* None