

September 6, 2024

## 452910-2: SR 15/600 (US 17/92) Pedestrian Crosswalk Improvements at E. Packwood Ave and Greenwood Drive Intersections

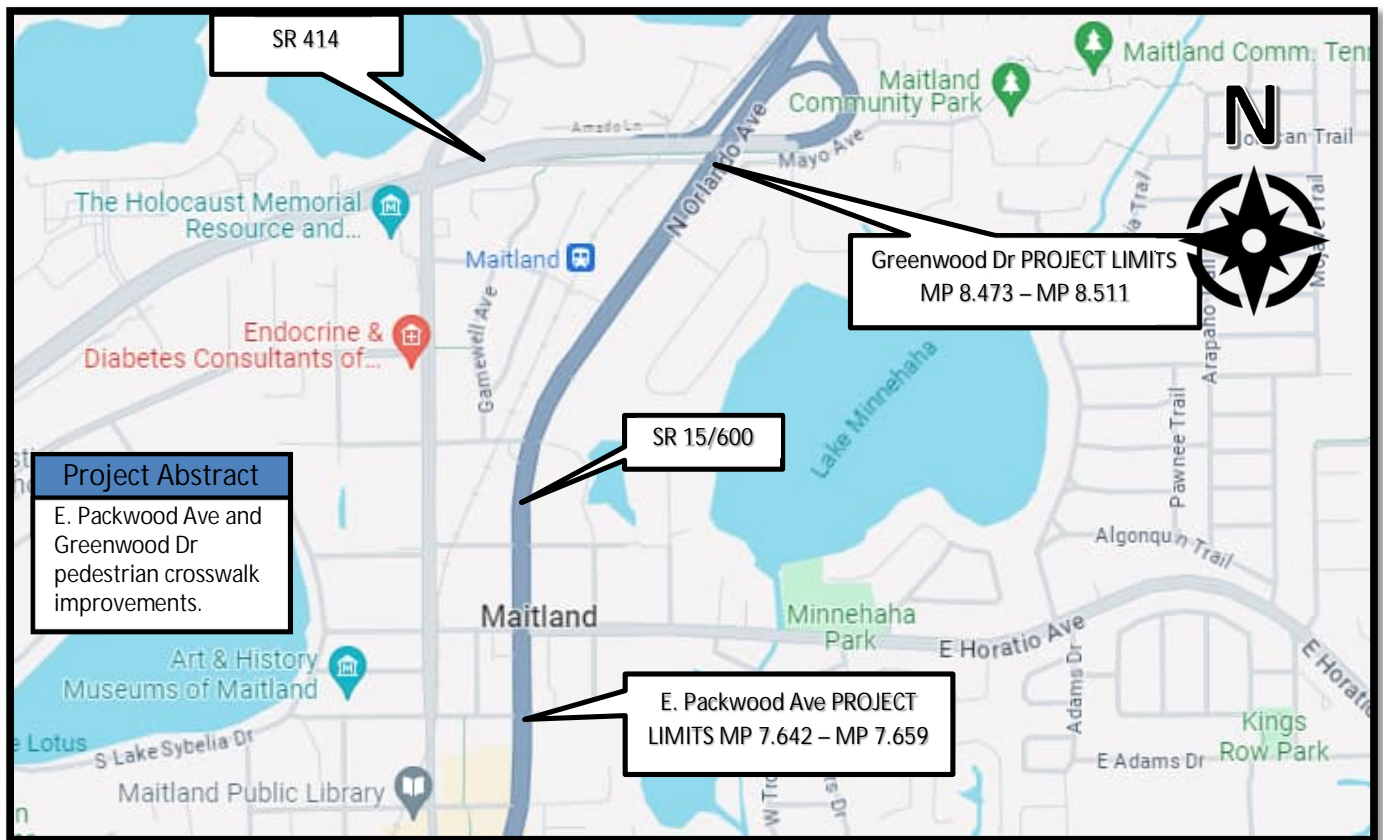
State Road Numbers: 15/600  
 Section Number: 7503000  
 County: Orange  
 Project Limits: E. Packwood Avenue and Greenwood Drive Intersections  
 Begin MP/End MP: E. Packwood Avenue = 7.642 to 7.659 (Length 0.017 Mi), Greenwood Drive = 8.473 to 8.511 (Length 0.038 Mi), Total Project Length = 0.055 Mi  
 FM: 452910-2

1. Existing R/W Map Project Numbers:	75030-2205_75030-2502 (1958) MP 6.15 to MP 8.74 7503-107 (1955) MP 8.02 to MP 8.77 7503-543(167) (1943) MP 7.10 to MP 7.66			
2. Old Construction Project Numbers:	432064-1 (2015) MP 6.787 to MP 7.65; Traffic Signal Update 435402-1 (2015) MP 5.977 to MP 8.705; Bridge Rehabilitation 413578-1 (2004) MP 6.201 to MP 8.705; Resurfacing 244827-1 & 244824-1 (2000) MP 0.00 to MP 8.705; Landscaping 239229-1 (1991) MP 6.626 to MP 8.741; Skid Hazard Overlay 239092-1 (1984); Lighting			
3. Additional R/W required?	No			
4. Level of Community Awareness Plan:	CAP Level 1			
5. Agreements required?	<input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes, including Local Funds.			
6. Are there any bridges within the limits?	Yes #750295 – SR 414 Over SR 15/600 #759006 – Pedestrian Overpass over SR 15/600			
7. Are there any RR Crossings within the project limits or in the vicinity?	Yes – SunRail railroad crossing is located 620-ft west of SR 15/600 on E. Packwood Ave. SunRail railroad crossing is located 430-ft west of SR 15/600 on Greenwood Dr.			
8. Are there any Airports within 10 nautical miles?	Orlando Executive Airport (ORL)			
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:	AT&T (Distribution) Centurylink Charter Communications City of Altamonte Springs (Greenwood Dr only) City of Casselberry (Greenwood Dr only) City of Maitland Duke Energy Embarq (E. Packwood Ave only) GigaPower, LLC Lumen (Greenwood Dr only) MCI Seminole County (Greenwood Dr only) TECO Peoples Gas (E. Packwood Ave only) Uniti Fiber LLC (Greenwood Dr only) Zayo Group / Formerly Lightwave, LLC			
12. Any special MOT concerns?	Yes, temporary traffic control signals & pedestrian detours. Corridor is a designated evacuation route.			
13. Any construction concerns?	Yes, some improvements may impact existing underground utilities			
14. Posted/Design Speed Limits (mph):	<u>Facility</u> SR 15/600	<u>Design</u> 45	<u>Posted</u> 40 (7.642-8.015) 45 (8.015-8.511)	<u>Target</u> 40

15. Design Criteria and Highway System:	SHS, FDM (2024)	
	<u>Facility</u>	<u>Context Classification</u>
	7.642-8.015	C4
	8.015—8.511	C3C
16. Lump Sum or Pay Item?	Pay Item	
17. Proposed Design Schedule:	18 Months	

**Agreements Required:**

The Engineer should coordinate to obtain an agreement with Orange County/City of Maitland (per Orange County Master Agreement) for any maintenance related to proposed improvements. Sections of the proposed improvements will occur outside FDOT's existing right-of-way at the northeast corner of the E. Packwood Avenue intersection, and the southeast and northeast corners of the Greenwood Drive intersection, the Engineer should coordinate with the City of Maitland for an encroachment/temporary construction easement for the completion of this work.

**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 to: 1) add a new pedestrian crosswalk on the northern side of the SR 15/600 (US 17/92)/E. Packwood Avenue existing signalized intersection, and 2) add new pedestrian crosswalks on the southern and northern sides of the SR 15/600 (US 17/92)/Greenwood Drive existing signalized intersection and modify the existing crosswalk on the western side by adding a variable width concrete island.

Project Description:

- This project is located on SR 15/600 (US 17/92) in the City of Maitland, Florida within Orange County.
- SR 15/600 is classified as an urban principal arterial with Access Classification 05.
- No active projects have been identified within the vicinity of this project.
- The following tentative projects have been identified within the vicinity of this project:
  - FPN 962200-1: Maitland Areawide Study from MP 7.292 to MP 8.744; proposed 30 mph Target Speed with raised intersections and raised crosswalks.
  - FPN 452910-1: SR-15 / US 17/92 from Lee Rd. to Seminole County Line (MP 6.201 to MP 8.744); Pavement Only Resurfacing (POP) Project

Roadway Scope Items:

- No Pavement Condition Assessment is anticipated to be completed by FDOT prior to design. Two (2) pavement designs have been assumed for estimating purposes: 1) full depth pavement construction due to removal of a section of existing 6-ft wide median concrete traffic separator at E. Packwood Avenue, and 2) Mill and resurface Greenwood Drive. The pavement design for milling and resurfacing the SR 15/600 travel lanes at both intersections will be obtained from the FPN-452910-1 POP project. Existing pavement was observed to be in good to fair condition.
- SR 15/600 (US 17/92)/ E. Packwood Avenue (MP 7.642 to MP 7.659):
  - On the northern side remove a section of the existing 6-ft wide median concrete traffic separator to accommodate a new pedestrian crosswalk and construct full depth pavement where the concrete traffic separator was removed.
  - Construct two (2) new curb ramps in the northeast and northwest corners of SR 15/600 (US 17/92) for the new pedestrian crosswalk.
  - Mill and resurface approximately 90-ft of the existing pavement through the intersection.
  - Replace existing detectable warning surfaces in the southeast and northeast corners of the intersection.
- SR 15/600 (US 17/92)/ Greenwood Drive (MP 8.473 to MP 8.511):
  - On the western side of the intersection construct a new variable width concrete island with detectable warnings between the dual eastbound right-turn lanes and the eastbound thru and left-turn lane for the new pedestrian crosswalk across the northbound approach and the existing crosswalk across the eastbound approach of the intersection.
  - Coordinate with FPN 452910-1 POP for the required SR 15/600 (US 17/92) for milling and resurfacing of the existing pavement through the intersection.
  - On the western side of the intersection mill and resurface approximately 90-ft of the existing pavement.
  - Construct two (2) new curb ramps with detectable warning surfaces, Type F curb and gutter and 6-ft concrete sidewalk on the northwest corner of the intersection, to facilitate a new pedestrian crosswalk on the northern side of the intersection and the existing crosswalk across the western side of the intersection.
- Temporary Traffic Control Plans shall be provided for any project elements that deviate from Standard Plans Index 102-600.

Drainage Scope Items:

- The primary goal for improvements at both intersections is to utilize the exiting drainage system where feasible.

Utility Scope Items:

- Underground utility impacts are anticipated at locations where new pedestrian signals and light poles are being provided. Overhead utility impacts are not anticipated.

- Adjust all valve covers, utility pull boxes, fire hydrants, and utility manholes to be flush with proposed sidewalk, curb ramps, roadside, 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:

- LYNX has 5 bus stops within the vicinity of the two intersections to be improved. Coordinate with Jennifer Hall (407) 254-6110; [jhall@golynx.com](mailto:jhall@golynx.com) to avoid disruptions during construction.
- There is 1 LYNX bus route (route 102) that operates within the project limits. Coordinate with Jeff Pearsall (407) 254-6108; [jpearsall@golynx.com](mailto:jpearsall@golynx.com) to avoid disruptions during construction.

Bicycle facilities:

- There are no bicycle facilities within the project limits.

Pedestrian facilities:

- Provide a new pedestrian crossing on the north side of the SR 15/600 (US 17/92)/E. Packwood Avenue intersection with two (2) new curb ramps. Replace the existing detectable warning surfaces in the southeast and northeast corners.
- Provide new pedestrian crossings on the southern and northern sides of the SR 15/600 (US 17/92)/Greenwood Avenue intersection with a new concrete island for pedestrian refuge along the western side and two (2) new curb ramps connected by 6-ft concrete sidewalk in the northwest corner of this intersection.

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.

Environmental Scope Items:

- Environmental assessments by a qualified environmental professional will be performed under the FM-452910-1 POP project.

Structural Scope Items:

- No structural improvements are anticipated for this project.

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

Signing and Pavement Markings

- Signing and Pavement Markings shall be completed for the proposed improvements. Any non-compliant signs or pavement markings shall be addressed in the plans.
  - Replace pavement markings disturbed by milling activities at both intersections.

Signals

- Project limits include two (2) existing signalized intersections. See intersection work outlined below:
  - SR 15/600 (US 17/92)/E. Packwood Avenue intersection (MP 7.650):
    - Provide new ped poles with ped signals and push buttons on the north side for proposed crosswalk.
  - SR 15/600 (US 17/92)/Greenwood Drive intersection (MP 8.492):

- Provide new ped poles with ped signals and push buttons on the southern and northern sides for proposed crosswalks.
  - Replace traffic detection loops that are disturbed by milling and resurfacing on the SR 15/600 approaches.
- For the new pedestrian signals:
  - Provide plan sheets that include:
    - Stop bar detection for all lanes impacted with signal work of the intersection.
    - Upgrade pavement loop detection for all lanes impacted with signal work at the Greenwood Dr intersection (including turn lanes).
  - Provide detector channel designation details within the plans.
- Proprietary Product Certification process shall be used.
- Coordinate any signalization requirements including for lane closures/detours with Orange County/City of Maitland Traffic Ops.

#### Intelligent Transportation Systems (ITS)

- No ITS improvements are anticipated for this project.

#### Lighting Scope Items:

- Provide lighting improvements at E. Packwood Avenue and Greenwood Drive existing signalized intersections as required per FDM.
- Designer should coordinate with local utility company and City of Maitland for all proposed fixtures.

#### Landscaping Scope Items:

- No landscaping work is anticipated for this project.

#### Survey Scope Items:

- No survey work is anticipated for this project.
- The SR 15/600 survey will be completed under the FM-452910-1 POP project.

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

- Establish the existing Rights of Way along Greenwood Drive by existing Maps or Record Subdivision Plats and the field monumentation, within the survey areas that overlap the Right of Way identified on the Concept only. Right of Way depicted on the Concept Plans is an approximation based on record maps or plats best fit to the aerial, no survey has been performed.
- The SR 15/600 existing right of way will be established under the FM-452910-1 POP project.
- As part of the agreement with the City of Maitland, a FDOT Easement will need to be obtained for the proposed improvements to be located outside the existing right of way at the E. Packwood Avenue and Greenwood Drive intersections.

#### Geotechnical Scope Items:

- No Geotechnical work is anticipated for this project.

#### Design Documentation:

- The design documentation items noted below are necessary to implement the proposed improvements. The Engineer is responsible for verifying all items in the proposed Scope and design conform with all applicable criteria and standards, including the identification of any required Memoranda, Variations and Exceptions.
- Design Variation Memorandum
  - Turn Lane Length -Per FDM Exhibit 212-1 and FDM 212.14.2, the minimum total turn lane length for a roadway with 45 mph design speed and with C3C and C4 context classifications should be

#### Candidate RRR with Safety Improvements Project Technical Scope

285-feet and the existing and proposed northbound and southbound left turn lanes at both intersections ranges from 180-ft to 282-ft, thus not meeting this criterion and are to remain.

- Design Variation
  - None.
- Design Exception
  - None

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

- None