

September 2025



Florida Department of Transportation – District One

## Technical Scope and LRE

**Technical Scope, Scope Analysis for Social and Environmental  
Issues, and Long Range Estimate (LRE) for**

**FPID 456234-1-52-01**

**SR 45 (US 41) from S of Shady Rest Lane to Golden Gate  
Parkway**

**Collier County, Florida**



**Candidate Project RRR Scope**

September 11, 2025

To: Lavenia Toole, PE  
 From: Felicia Pannell, PE

**RE: SR 45 (US 41) from S of Shady Rest Lane to Golden Gate Parkway TECHNICAL SCOPE**

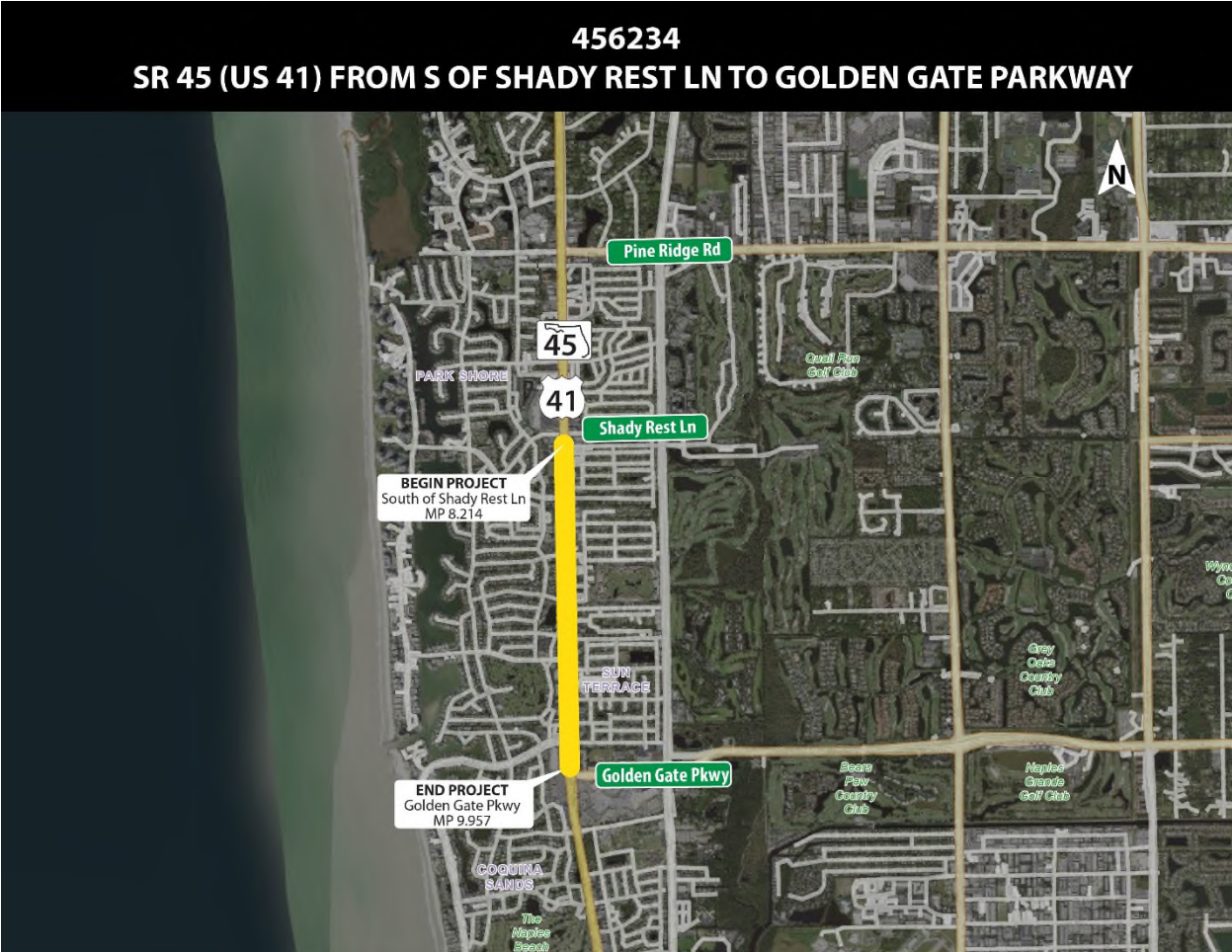
State Road Number: SR 45  
 Section Number: 03010000  
 County: Collier County  
 Project Limits: SR 45 (US 41) from S of Shady Rest Lane to Golden Gate Parkway  
 Begin MP/End MP: 8.214 to 9.957  
 Section Equation: N/A  
 Project Length: 1.743 miles  
 FPID No.: 456234-1  
 Work Mix: 0012 (Resurfacing)  
 Criteria: Current Manuals and Design Standards for 25/26

1. Existing R/W Map Project Numbers:	03010-2504 (1966), 03010-2504 (1966), 03634-2601 (1969), 0355-150 (1952), 03010-2250 (0301-250) (1950)
2. Old Construction Project Numbers:	195396-1 (2003) RRR MP 8.203-9.805
3. Adjacent Projects:	415443-1 (2007) RRR MP 5.910-8.223 437908-1 (CA) Flex Recon MP 9.957-11.488 456236-1 (CA) POP MP 12.064-12.92
4. Proposed projects within the same limits (such as safety, sidewalk or drainage projects):	454326-1 (CA) Planning Study MP 0.000 to MP 9.971
5. Additional R/W Required?	No
6. Level of Community Awareness Plan:	Level 1
7. Are there any bridges within the limits?	No
8. Are there any RR Crossings within the project limits or in the vicinity?	No
9. Are there any Airports within 5-miles?	Yes; Naples Airport
10. Storm Water Management Jurisdiction:	South Florida WMD
11. AADT (ESAL Data):	43,100 AADT (2025); Truck % = 4.7
12. Are there any old houses or buildings adjacent to the project?	No
13. Number of Existing Utilities:	10 Utilities: Amerigas DBA – Gas; Centurylink – Fiber, Telephone; City of Naples – Sewer, Water; Collier County – Fiber, Electric; Comcast – CATV; Crown Castle – Fiber; FP&L – Electric; Summit – Fiber, Telephone; TECO – Electric; Verizon – Fober; FDOT ITS
14. Preliminary MOT Consideration: (Construction Office will supply this)	Construction: Medium level for TTCP. TSM&O: Determined <b>significant</b> based on peak volume and network reliability.

15. Posted/Design/Target Speed Limits	Posted/Target Speed = 40 MPH Design Speed = 40 MPH
16. SIS Facility? / Context Classification:	No/ C4
17. Access Classification:	5 - RESTRICTIVE w/440 ft. Signal Spacing
18. Resilient Modulus:	TBD
19. Smoothness Class (To be included on Typical Section Sheets in Design Plans):	N/A (since speeds less than 55 mph)
20. List Non-ADA Compliant Curb Ramps Identified by Safety: (All ADA items should be evaluated during design when the field review is conducted).	No RSA and no documented issues currently.
21. Safety Top 20:	No
22. State Materials Concurrence for Pav't Design	Yes. Concurrence 7/30/25. (See <b>Pav't Description</b> section for further detail)

The purpose of candidate project scope is to support the development of a long-range estimate (LRE) within the 5-year work program. There are a significant amount of planning assumptions made in order to develop and process the LRE. The district design project manager and engineer are responsible for verifying all items in the scope and shall review the project for conformance with all applicable criteria and standards.

**Project Location Map:**



**Project limits:**

The proposed limits of the project begin on SR 45 (US 41) from south of Shady Rest Lane at MP 8.214 and proceed south to north of Golden Gate Parkway at MP 9.957 for a total of 1.743 miles.

**Project Description:**

- This is a RRR project with milling and resurfacing of the existing roadway mainline and any side street connections. Other improvements include:
  - Drainage repairs - 2 sinking inlets, 2 broken inlet tops, ponding issue at a return, bad gutter grade at one spot.
  - Updating the 2 bus stop locations with boarding and alignment pads,
  - Update 5 signal updates for ADA and FDM requirements
  - Lighting updates for signalized intersections for FDM requirements.
- Please reference Approved Typical Section Package (TSP) for lane configurations.
- The target speed meetings were held on 3/26/25 and the target speed was set at 40 mph.
- The context meeting was held on 3/28/25 and confirmed reduction of the design and posted speeds from 45 mph to 40 mph.

**Roadway Scope Items:**

- This proposed SR 45 RRR project segment was milled and resurfaced in 2004 within the same limits for the existing typical section under FPID 195396-1-52-01. The as-built plans show no horizontal curves and no superelevation within the project limits. The typical section in the as-built plans calls for a cross slope of 0.02 on the inside lanes, 0.03 in the middle lanes, and 0.05 in the outside lanes. Design should re-evaluate cross slopes during the plans preparation period to determine if corrections will be required.
- There will not be any contingency in the LRE budget for any of the concrete items (curb and gutter, sidewalk, separators, etc.). Design will need to evaluate those items (for any repairs or not being ADA compliant) and present the list of items to the District Design Engineer for approval. Once approved, then design will look for funding.

**Pavement Description:**Mainline Milling and Resurfacing:

- For budget purposes, the LRE assumes mainline through lanes, crossovers, and turn lanes throughout the project limits be milled 3 ½" and resurfaced with 2" SP 12.5 (Traffic C, PG 76-22) and 1 ½" FC-12.5 (Traffic C, PG 76-22).
- The State Materials Office reviewed the LRE pavement design on 7/30/25. The Materials Office Noted:
  - Need to consider static mode only for the compaction effort due to the drainage issues along the project. Additionally, a number of drainage structures damaged and patches. Likely needs some areas of reconstruction.
- For drainage repairs, there has been 200-ft of roadway reconstruction (for 12-ft wide area) included in the LRE for budget purposes.

Side Street Milling and Resurfacing:

- There are 19 existing asphalt side streets shown on the Straight-Line Diagram. For budget purposes, the side streets are recommended to be milled 1½" and resurfaced with 1½" SP-12.5 (Traffic C, PG 76-22).
- In accordance with the FDM Chapter 214 and the Standard Plans Index 330-001, it is recommended that all side streets be resurfaced to the back of the furthest return, right of way, or existing pavement joint, whichever is greater.

**Keyhole Widening:**

- The following right turn lanes were noted within the project limits:

Location	Existing keyhole? (Yes or No)	Recommend adding keyhole? (Yes or No)
SB right turn lane at Park Shore Drive	No	No
NB right turn lane at Solana Road	No	No
NB right turn lane at Shady Rest Lane	No	No

Note: A keyhole is required in accordance with the FDM Chapter 223.1, section 223.2.1.3. However, there are no existing bicycle lanes along the roadway, and the existing R/W for this roadway is very constrained. For these reasons, widening for keyhole lanes is not recommended. A design variation will be required for the right turn lanes to remain with no keyhole.

**Hardened Centerlines:**

- Hardened centerline were evaluated but they were removed from the preliminary LRE at the 9/08/25 Technical Review Meeting.

**Horizontal Curves/Superelevation:**

- There are no curves or superelevation within the limits of this project.

**Access Management Scope Items:**

- No access management scope items anticipated.

**Multi-Modal transportation Scope Items:**

- There are no bicycle facilities/keyholes within the project limits. See roadway scope section for keyhole discussion.
- Transit has requested to provide boarding and alighting pads at 2 existing transit stops where they do not exist. For budget purposes, the LRE assumes adding the 2 boarding and alighting pads requested below.

Route 11/Route 25

- Bus Stops:
- NB & SB SR 45 at Park Shore Dr
- NB & SB SR 45 at Anchor Rode Dr
- NB & SB SR 45 at Creech Rd: Provide boarding and alighting pad at NB stop.
- NB SR 45 at 26th Ave N
- NB SR 45 at Diana Ave
- NB SR 45 at Golden Gate Pkwy: Provide boarding and alighting pad.

**Design Variation/Exception:**

- A design variation will be required for:
  - Some of the left turn lengths are less than 185-ft length at 45 mph per Exhibit 212.1 in chapter 212 of the FDM.
  - A lane width less than 11-ft at 45 mph per Table 210.2.1 of the FDM.
  - No bicycle facility/keyhole per Section 223 of the FDM.
- Possible design variations may be needed for cross slope correction if the survey determines that the criteria is not met.
- A possible variation may be needed for not replacing the overhead sign panels due to reflectivity (Small number of small overhead sign panels on mast arms.)

**Drainage Scope Items:**

- There are known drainage issues along the corridor including:
  - Inlet Sinking on the west side of the roadway in front PGA Superstore shopping plaza, approximately 360-ft north of begin project.



- Ponding issue on the west side of the roadway at Mooring Line Drive.



- Pavement patch near curb inlet on east side of roadway at Creech Road.



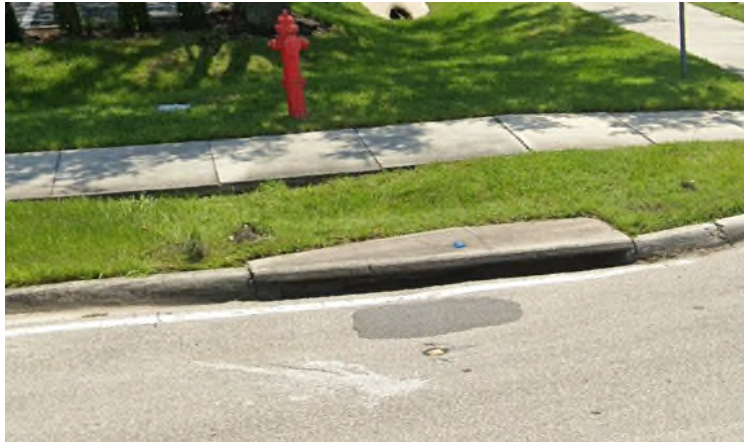
- Poor gutter grade on the west side of the roadway at Rosemary Lane.



- Broken inlet top at the southwest corner of Anchor Rode Drive.



- Pavement patch near curb inlet on east side of roadway at Frank Whiteman Boulevard.



- Broken inlet top at the southwest corner of Michigan Avenue.



- Inlet sinking at the southeast corner of Trail Terrace Drive.



- Coordination with Maintenance and FPID 437908-1 to assist with determination of included drainage items in the construction plans.
- A field inspection and rainy-day visit to determine if other drainage facilities are functioning correctly and provide positive drainage.

**Permitting:**

- This project is anticipated to be exempt from WMD permitting under FAC 62-330.051 (4)(c), as it is limited to pavement resurfacing and safety modifications. A permit exemption request will be needed.

**SUE Items:**

- SUE is pending structural evaluation of existing signals but will be needed for new lighting foundations.

**Signing Scope Items:**

- There are two existing two-post signs in the project that were installed in 2004. Both are NEXT SIGNAL signs and should be replaced.
- Although there are four traffic signals fully within the project limit plus the approaches to two others, only the above noted advance signal signs plus two others (one on a single-post cantilever and one attached to a street light pole) exist within the project. Consider adding signs for all approaches to the signals.

**Pavement Marking Scope Items:** Standard markings anticipated.

**Object Marker and Delineator Scope Items:** Standard use anticipated.

**Signalization Scope Items:**

Signal scoping items and recommendations are limited to the following:

- Required improvements listed within section 114 of the FDM and RDB 22-01.
- Items specifically recommended by District Safety that advance safety countermeasures.
- Existing support structures should be evaluated for load capacity and signs of distress and replaced if the existing signal structure is found to be deficient.
- Requests from District TSM&O for ITS related improvements or additions.

Existing traffic signal related features outside the project limits will not be included in the scope.

Existing field conditions described in this report represent the conditions present at the time of scoping. All traffic signal related recommendations listed within this scope shall follow the latest design guidelines as outlined in the FDM, Standard Plans, MUTCD, TEM, MUTS and Structures Design Manual.

The following signalized intersections fall within the limits of the begin and end mile posts and or construction limits for this RRR scope:

**Signal Location 1:**

SR 45 (US 41)  
at Cypress Wood Dr (Park Shore Dr)  
MP: 8.538  
Signal ID: 85

**Signal Location 2:**

SR 45 (US 41)  
at Anchor Rode/Ohio Dr  
MP: 8.832  
Signal ID: 86

**Signal Location 3:**

SR 45 (US 41)  
at Harbour Dr  
MP: 9.376  
Signal ID: 87

**Signal Location 4:**

SR 45 (US 41)  
at 26th Ave N  
MP: 9.586  
Signal ID: 88

**Signal Location 5:**

SR 45 (US 41)  
at Mooring Line Dr (22nd Ave N)  
MP: 9.376  
Signal ID: 87

**Maintaining Agency:** City of Naples

**Roadway safety audit impacts:**

To be provided at a future date.

**Signal Location 1:**

SR 45 (US 41)

at Cypress Wood Dr (Park Shore Dr)

**District Safety recommendations:**

- Separate pedestrian push-buttons at SW corner.
- Add Leading Pedestrian Interval (LPI) controls.
- Provide dilemma zone loops at all intersections for each SR 45 approach lane(s).

**District TSM&O recommendations:**

- Upgrade existing ethernet switches.

**Roadway Safety Audit (RSA) impacts:**

- To be provided at a later date.

**Additional scoping items and recommended design considerations:**

**Structural support:**

- The existing support structures should be evaluated for load capacity and signs of distress. Evaluate existing mast arm structures in accordance with FDM 261.8. Replacement shall be considered if the existing signal structure is found to be deficient.

**Controller and cabinet:**

- District TSM&O is requesting that the existing ethernet switch in the traffic signal cabinet be replaced. Confirm and coordinate equipment compatibility with the Maintaining Agency.

**Signal heads:**

- Recommend replacing or adding backplates on existing signal head assemblies that have missing, damaged or backplates without reflectorized borders. Per FDM 232.1.5, provide backplates with retroreflective borders for all overhead signal heads. Should the structure remain and the addition of backplates negatively affect structural load capacity, consideration should be given for the use of flexible backplates (TEM section 3.9).

**Overhead signs:**

- For enhanced pedestrian safety, consider adding overhead mounted R10-15a signs (per TEM 2.44.3) for all approaches.

**Internally illuminated street name signs:**

- No recommendations provided.

**Vehicle detection:**

- Inductive loops will be damaged during milling operations, based on the maintaining agency's preferences, it is recommended to continue using inductive loop detection. Add multiple point detection zone loops or replace as necessary.
- Provide dilemma zone loops in advance of the intersection for SR 45 northbound and southbound.

**Traffic monitoring and associated technologies:**

- No recommendations provided.

**Pedestrian assemblies and detection:**

- Recommend separating pedestrian detector push buttons from shared pedestrian signal detector posts and replacing or relocating pedestrian assemblies that do not meet ADA location

requirements. Replacement or upgrades of the existing pedestrian assemblies and push button locations shall follow ADA, FDOT Standard Plans and MUTCD guidelines.

- Timing modifications have been recommended for this intersection for providing leading pedestrian intervals (LPI). Per MUTCD 4E.06, para. 20, consideration should be given to utilizing accessible pedestrian signal detectors (APS).

**Emergency preemption:**

- No recommendations provided.

**Power source and service type:**

- No recommendations provided.

**Fiber interconnect: ATMS / TMC communications:**

- No recommendations provided.

**Signal Location 2:**

SR 45 (US 41)

at Anchor Rode/Ohio Dr

**District Safety recommendations:**

- Separate pedestrian push-buttons at all crossings.
- Add Leading Pedestrian Interval (LPI) controls.
- Provide dilemma zone loops at all intersections for each SR 45 approach lane(s).

**District TSM&O recommendations:**

- Upgrade existing ethernet switches.

**Roadway Safety Audit (RSA) impacts:**

- To be provided at a later date.

**Additional scoping items and recommended design considerations:**

**Structural support:**

- The existing support structures should be evaluated for load capacity and signs of distress. Evaluate existing mast arm structures in accordance with FDM 261.8. Replacement shall be considered if the existing signal structure is found to be deficient.

**Controller and cabinet:**

- District TSM&O is requesting that the existing ethernet switch in the traffic signal cabinet be replaced. Confirm and coordinate equipment compatibility with the Maintaining Agency.

**Signal heads:**

- Recommend replacing or adding backplates on existing signal head assemblies that have missing, damaged or backplates without reflectorized borders. Per FDM 232.1.5, provide backplates with retroreflective borders for all overhead signal heads. Should the structure remain and the addition of backplates negatively affect structural load capacity, consideration should be given for the use of flexible backplates (TEM section 3.9).

**Overhead signs:**

- For enhanced pedestrian safety, consider adding overhead mounted R10-15a signs (per TEM 2.44.3) for all approaches.

**Internally illuminated street name signs:**

- No recommendations provided.

**Vehicle detection:**

- Inductive loops will be damaged during milling operations, based on the maintaining agency's preferences, it is recommended to continue using inductive loop detection. Add multiple point detection zone loops or replace as necessary.
- Provide dilemma zone loops in advance of the intersection for SR 45 northbound and southbound.

**Traffic monitoring and associated technologies:**

- No recommendations provided.

**Pedestrian assemblies and detection:**

- Recommend separating pedestrian detector push buttons from shared pedestrian signal detector posts and replacing or relocating pedestrian assemblies that do not meet ADA location requirements. Replacement or upgrades of the existing pedestrian assemblies and push button locations shall follow ADA, FDOT Standard Plans and MUTCD guidelines.
- Timing modifications have been recommended for this intersection for providing leading pedestrian intervals (LPI). Per MUTCD 4E.06, para. 20, consideration should be given to utilizing accessible pedestrian signal detectors (APS).

**Emergency preemption:**

- No recommendations provided.

**Power source and service type:**

- No recommendations provided.

**Fiber interconnect: ATMS / TMC communications:**

- No recommendations provided.

**Signal Location 3:**

SR 45 (US 41)

at Harbour Dr

**District Safety recommendations:**

- Add Leading Pedestrian Interval (LPI) controls.
- Provide dilemma zone loops at all intersections for each SR 45 approach lane(s).

**District TSM&O recommendations:**

- Upgrade existing ethernet switches.

**Roadway Safety Audit (RSA) impacts:**

- To be provided at a later date.

**Additional scoping items and recommended design considerations:**

**Structural support:**

- The existing support structures should be evaluated for load capacity and signs of distress. Evaluate existing mast arm structures in accordance with FDM 261.8. Replacement shall be considered if the existing signal structure is found to be deficient.

**Controller and cabinet:**

- District TSM&O is requesting that the existing ethernet switch in the traffic signal cabinet be replaced. Confirm and coordinate equipment compatibility with the Maintaining Agency.

**Signal heads:**

- Recommend replacing or adding backplates on existing signal head assemblies that have missing, damaged or backplates without reflectorized borders. Per FDM 232.1.5, provide backplates with retroreflective borders for all overhead signal heads. Should the structure remain and the addition of backplates negatively affect structural load capacity, consideration should be given for the use of flexible backplates (TEM section 3.9).

**Overhead signs:**

- For enhanced pedestrian safety, consider adding overhead mounted R10-15a signs (per TEM 2.44.3) for all approaches.

**Internally illuminated street name signs:**

- Recommend replacing existing internally illuminated street name signs that are missing or damaged. Follow TEM and FDM guidelines to ensure appropriate letter and sign sizing. Coordinate sign and mounting preferences with the maintaining agency.

**Vehicle detection:**

- Inductive loops will be damaged during milling operations, based on the maintaining agency's preferences, it is recommended to continue using inductive loop detection. Add multiple point detection zone loops or replace as necessary.
- Provide dilemma zone loops in advance of the intersection for SR 45 northbound and southbound.

**Traffic monitoring and associated technologies:**

- No recommendations provided.

**Pedestrian assemblies and detection:**

- Timing modifications have been recommended for this intersection for providing leading pedestrian intervals (LPI). Per MUTCD 4E.06, para. 20, consideration should be given to utilizing accessible pedestrian signal detectors (APS).

**Emergency preemption:**

- No recommendations provided.

**Power source and service type:**

- No recommendations provided.

**Fiber interconnect: ATMS / TMC communications:**

- No recommendations provided.

**Signal Location 4:**

SR 45 (US 41)

at 26th Ave N

**District Safety recommendations:**

- Add Leading Pedestrian Interval (LPI) controls.
- Provide dilemma zone loops at all intersections for each SR 45 approach lane(s).

**District TSM&O recommendations:**

- Upgrade existing ethernet switches.

**Roadway Safety Audit (RSA) impacts:**

- To be provided at a later date.

### **Additional scoping items and recommended design considerations:**

#### **Structural support:**

- The existing support structures should be evaluated for load capacity and signs of distress. Evaluate existing mast arm structures in accordance with FDM 261.8. Replacement shall be considered if the existing signal structure is found to be deficient.

#### **Controller and cabinet:**

- District TSM&O is requesting that the existing ethernet switch in the traffic signal cabinet be replaced. Confirm and coordinate equipment compatibility with the Maintaining Agency.

#### **Signal heads:**

- Recommend replacing or adding backplates on existing signal head assemblies that have missing, damaged or backplates without reflectorized borders. Per FDM 232.1.5, provide backplates with retroreflective borders for all overhead signal heads. Should the structure remain and the addition of backplates negatively affect structural load capacity, consideration should be given for the use of flexible backplates (TEM section 3.9).

#### **Overhead signs:**

- For enhanced pedestrian safety, consider adding overhead mounted R10-15a signs (per TEM 2.44.3) for all approaches.

#### **Internally illuminated street name signs:**

- No recommendations provided.

#### **Vehicle detection:**

- Inductive loops will be damaged during milling operations, based on the maintaining agency's preferences, it is recommended to continue using inductive loop detection. Add multiple point detection zone loops or replace as necessary.
- Provide dilemma zone loops in advance of the intersection for SR 45 northbound and southbound.

#### **Traffic monitoring and associated technologies:**

- No recommendations provided.

#### **Pedestrian assemblies and detection:**

- Timing modifications have been recommended for this intersection for providing leading pedestrian intervals (LPI). Per MUTCD 4E.06, para. 20, consideration should be given to utilizing accessible pedestrian signal detectors (APS).

#### **Emergency preemption:**

- No recommendations provided.

#### **Power source and service type:**

- No recommendations provided.

#### **Fiber interconnect: ATMS / TMC communications:**

- No recommendations provided.

### **Signal Location 5:**

SR 45 (US 41)

at Mooring Line Dr (22nd Ave N)

### **District Safety recommendations:**

- Separate pedestrian push-buttons at NE, SE, and SW corners.
- Add Leading Pedestrian Interval (LPI) controls.
- Provide dilemma zone loops at all intersections for each SR 45 approach lane(s).

**District TSM&O recommendations:**

- Upgrade existing ethernet switches.

**Roadway Safety Audit (RSA) impacts:**

- To be provided at a later date.

**Additional scoping items and recommended design considerations:**

**Structural support:**

- The existing support structures should be evaluated for load capacity and signs of distress. Evaluate existing mast arm structures in accordance with FDM 261.8. Replacement shall be considered if the existing signal structure is found to be deficient.

**Controller and cabinet:**

- District TSM&O is requesting that the existing ethernet switch in the traffic signal cabinet be replaced. Confirm and coordinate equipment compatibility with the Maintaining Agency.

**Signal heads:**

- Recommend replacing or adding backplates on existing signal head assemblies that have missing, damaged or backplates without reflectorized borders. Per FDM 232.1.5, provide backplates with retroreflective borders for all overhead signal heads. Should the structure remain and the addition of backplates negatively affect structural load capacity, consideration should be given for the use of flexible backplates (TEM section 3.9).

**Overhead signs:**

- For enhanced pedestrian safety, consider adding overhead mounted R10-15a signs (per TEM 2.44.3) for all approaches.

**Internally illuminated street name signs:**

- No recommendations provided.

**Vehicle detection:**

- Inductive loops will be damaged during milling operations, based on the maintaining agency's preferences, it is recommended to continue using inductive loop detection. Add multiple point detection zone loops or replace as necessary.
- Provide dilemma zone loops in advance of the intersection for SR 45 northbound and southbound.

**Traffic monitoring and associated technologies:**

- No recommendations provided.

**Pedestrian assemblies and detection:**

- Recommend separating pedestrian detector push buttons from shared pedestrian signal detector posts and replacing or relocating pedestrian assemblies that do not meet ADA location requirements. Replacement or upgrades of the existing pedestrian assemblies and push button locations shall follow ADA, FDOT Standard Plans and MUTCD guidelines.
- Timing modifications have been recommended for this intersection for providing leading pedestrian intervals (LPI). Per MUTCD 4E.06, para. 20, consideration should be given to utilizing accessible pedestrian signal detectors (APS).

**Emergency preemption:**

- No recommendations provided.

**Power source and service type:**

- No recommendations provided.

**Fiber interconnect: ATMS / TMC communications:**

- No recommendations provided.

**Lighting Scope Items:**

Lighting scoping items and recommendations are limited to the following criteria:

- Items specifically recommended by District Safety that advance safety countermeasures.
- Ensure lighting at indicated intersections meets FDM 231 guidelines for the intersection, pedestrian crosswalks, and side street approaches.

The locations listed below have been identified as meeting this criterion:

**Intersection Location 1:**

SR 45 (US 41)  
at Cypress Wood Dr (Park Shore Dr)  
MP: 8.538

**Intersection Location 2:**

SR 45 (US 41)  
at Anchor Rode/Ohio Dr  
MP: 8.832

**Intersection Location 3:**

SR 45 (US 41)  
at Harbour Dr  
MP: 9.376

**Intersection Location 4:**

SR 45 (US 41)  
at 26th Ave N  
MP: 9.586

**Intersection Location 5:**

SR 45 (US 41)  
at Mooring Line Dr (22nd Ave N)  
MP: 9.376

**District Safety recommendations:**

District One Safety Department has identified the intersections listed above as locations where existing lighting features may be insufficient for pedestrian safety and nighttime visibility. Review and analyze the existing lighting features and consider the following recommended countermeasures:

- Update existing lighting infrastructure at the intersections and for each approach leg to current FDOT FDM standards.

**Roadway Safety Audit (RSA) impacts:**

To be provided at a future date.

**Additional scoping items and recommended design considerations:**

The following guidance and recommendations apply for rebuilt intersections as well as areas identified as needing lighting upgrades or retrofit by D1 Safety:

- At locations where lighting improvements are recommended, the existing and proposed intersection lighting should be assessed with a complete lighting analysis to ensure minimum vertical and horizontal illumination values are met. Utilize lighting design criteria based on the latest FDOT FDM, Standard Specifications and Standard Plans for Road and Bridge Construction. Per RDM 16-02 and Standard Spec 992, LED light fixtures shall be used.
- Lighting on each approach leg beyond the intersection limits shall be evaluated and upgraded to meet FDOT FDM standards.
- Existing light poles and/or mast arm-mounted luminaires that are not in optimal locations to adequately illuminate pedestrian crosswalks should be evaluated for potential relocation, removal, or replacement.

- Existing light poles and foundations to remain shall be evaluated for signs of distress in accordance with FDM 261. If found deficient, replacement shall be considered.
- Coordinate luminaire types with the Maintaining Agency. Only light fixtures listed on the Department's Approved Product List are permitted.
- Replace any existing high pressure sodium (HPS) luminaires with new LED luminaires.
- Replace any traditional luminaires retrofitted with LED lamps with new LED luminaires.
- The luminaire housing color for all new and replacement installations shall match the color of the pole on which they are mounted.
- During the design phase, assess whether new luminaire locations can be powered by extending existing lighting circuits instead of installing a new service point.
- Coordinate any new power source locations and requirements with UAO.
- Coordinate any new lighting locations around existing utilities and with UAO.
- Coordinate with the traffic signal design team regarding any potential shared facilities, such as directional bores, luminaire support structures, and power service poles.
- Coordinate lighting maintenance agreement with the District Maintenance Office and the Maintaining Agency.

**Structural Scope Items: N/A**

## Scope Analysis for Social and Environmental Issues

<b>FPID No:</b>	456234-1	<b>County:</b>	Collier	<b>City:</b>	Naples
<b>Project Limits:</b>	<b>SR 45 (US 41) from south of Shady Rest Lane to Golden Gate Parkway</b>				
<b>Section:</b>	03010-000	<b>Length of Project:</b>	1.743 mi		
<b>Begin Milepost:</b>	8.214	<b>End Milepost:</b>	9.957		
<b>Scope:</b>	Resurfacing, Restoration, and Rehabilitation (RRR) project with drainage repairs				
<b>Review Date:</b>	5/2/2025 – B. Feagle	<b>Anticipated NEPA COA:</b>	Type 1 CE / NMSA		

### Potential Cost or Schedule Impacts

**Social:** 6% of the population is designated as limited English proficiency (LEP); therefore, translation services must be provided through verbal interpretation and written translation of vital documents.

**Florida bonneted bat:** The implementation of Best Management Practices (BMPs) is anticipated.

**Gopher tortoise:** Design-phase field review and coordination must be completed to verify if a permit is required to relocate tortoises. If it is determined that active burrows will remain within the area, the location must be noted in the plans and silt fence must be installed to protect the burrow from destruction during ground-disturbing activities. Special Provision SP0070104-3 (gopher tortoise) should be added to the Standard Specifications.

**Wood stork:** If the project has wetland impacts greater than 0.5-acre or if wood storks are observed onsite, impacts must be compensated at a wetland mitigation bank or created and restored onsite.

### Social and Economic Resources

**Social:** The minority population accounts for 15% of the population of the area with 8% of the population residing below poverty level.

**Land Use Changes:** The current land use consists of residential, educational, institutional, commercial, and open areas; the future land use is designated as urban residential in the Collier County and City of Naples Future Land Use Maps. The project is not expected to result in land use changes.

**Mobility:** The project contains two bus transit routes. Additional traffic capacity, change in traffic volume, or change in average vehicle speed are not expected.

**Community Cohesion:** Community facilities within the project buffer include the Greater Naples Chamber of Commerce, Naples Fire Department and Rescue Station, and Naples Mobile Home Park. The project is not expected to affect community services or cohesion.

**Relocation Potential:** The project area contains a mixture of high-rise, low-rise, fixed single-family units, and mobile home units. No right-of-way acquisition or relocations are expected for this project.

**Farmlands:** No prime farmland soils are located in the project vicinity.

## Cultural Resources

**Archaeological and Historical Resources:** A preliminary review of the Florida Master Site File (FMSF) records revealed one site (CR00092), an archaeological site that has not been evaluated for listing on the National Register of Historic Places (NRHP); 25 buildings in the vicinity were built prior to 1970.

The project will be reviewed during the Design Phase; it is expected to meet the conditions set forth in Stipulation VI – Minor Project Considered Unlikely to Affect Historic Properties of the Statewide Section 106 Programmatic Agreement.

**Recreational and Protected Lands:** No recreational lands are identified within the project vicinity.

**Section 4(f):** No potential Section 4(f) are identified within the project vicinity.

## Natural Resources

**Wetlands and Other Surface Waters:** Minimal wetlands and surface waters appear to be present in the project area.

**Essential Fish Habitat:** The project is located in one Essential Fish Habitat (EFH). No in-water work is expected; therefore, the project will not affect EFH.

**Floodplains:** The majority of the project area is located outside of the 100-year floodplain.

**Sole Source Aquifer:** The project area is not associated with a sole source aquifer.

**Wild and Scenic Rivers:** No Wild and Scenic Rivers are identified within the project area.

**Coastal Barrier Resources:** No Coastal Barrier Resource Act (CBRA) areas are within the project area.

**Protected Species and Habitat:** The project area was reviewed for potential impacts to wildlife and habitat resources, including federal and state protected species in accordance with Section 7 of the Endangered Species Act (ESA, 1973), as amended, and Chapter 68A-27 Florida Administrative Code (FAC).

The anticipated determinations of effects utilized applicable species keys and the 2024 FDOT *Programmatic Approach for Minor Transportation Activities* for Activities B1, B3, B7, B12, B14, C1, and C5.

Species survey, elevated review, coordination, or consultation is expected for the following species:

**Florida bonneted bat:** Per the 2024 USFWS *Florida Bonneted Bat Consultation Key*, the project appears to be located within or in close proximity to a Florida Bonneted Bat Assumed Presence Polygon; however, suitable roosting habitat does not appear within the project area. The project is expected to result in a *may affect, not likely to adversely affect* and must incorporate the appropriate BMPs.

**Gopher tortoise:** Gopher tortoises have been documented in the project area.

**Wood stork:** The project is located within the 18.6-mile core foraging area of one wood stork colony. The project is expected to include drainage improvements, modification of slopes, vegetation management, widening of pavement, and sidewalk or multi-use path construction; therefore, the project is expected to result in a *may affect, not likely to adversely affect* determination for the wood stork. If the project has wetland impacts greater than 0.5-acre or if

wood storks are observed onsite, impacts must be compensated at a wetland mitigation bank or created and restored onsite.

**Protected plants:** Scrub stylisma, a state-endangered plant has been documented in the project vicinity. With limited scope of the project and no work anticipated outside of the existing right-of-way, natural habitat is not expected to be disturbed and the project is expected to have *no effect* on listed plants.

Due to the lack of suitable habitat and prior occurrences, the project is expected to result in a determination of *no effect/no adverse effect* and no further coordination is expected for the following species:

#### Federal Species

- American crocodile
- Crested caracara
- Eastern black rail
- Eastern indigo snake
- Everglade snail kite
- Florida panther
- Florida scrub-jay
- Gulf Sturgeon
- Piping plover
- Red-cockaded woodpecker
- Rufa red knot
- Sea turtles (green and hawksbill)
- West Indian manatee

#### State or Non-Listed Species

- Big Cypress fox squirrel
- Black skimmer
- Florida burrowing owl
- Florida sandhill crane
- Least tern
- Sherman's short-tailed shrew
- Snowy plover
- Wading birds (reddish egret, little blue heron, roseate spoonbill, tricolored heron)
- Bald eagle
- Florida black bear

### Physical Resources

**Noise:** The project meets the criteria for a Type III project established in 23 CFR 772; therefore, analysis of highway traffic noise is not required.

**Air Quality:** As this project will not impact traffic volumes, no changes to air quality are anticipated.

**Contamination:** The project buffer area includes hazardous waste facilities, petroleum contamination monitoring sites, storage tank contamination monitoring sites, biomedical waste sites, and off-site contamination notice facilities. The project will be reviewed for contamination during the Design Phase; it is anticipated a Contamination Technical Memorandum will be prepared and Level 2 testing may be required.

**Utilities and Railroads:** The project area does not include any visible utilities or railroads.

**Navigation:** The project does not include any bridges or waterways.

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# FDOT Long Range Estimating System - Production

## R3: Project Details by Sequence Report

**Project:** 456234-1-52-01

**Letting Date:** 07/2028

**Description:** SR 45 (US 41) FROM S OF SHADY REST LANE TO GOLDEN GATE PARKWAY

**District:** 01      **County:** 03 COLLIER      **Market Area:** 10      **Units:** English  
**Contract Class:** 1   **Lump Sum Project:** N      **Design/Build:** N      **Project Length:** 1.743 MI

**Project Manager:** NEM-LAT-4P

**Version 3-P Project Grand Total** **\$9,421,512.82**

**Description:** Copy V1 - TRM removed seq 3 Hardened Centerlines - no other changes - 9/8/25

**Sequence:** 1 RSD - Resurfacing, Divided      **Net Length:** 1.743 MI  
9,203 LF

**Description:** POP items (pavement, signal loops and pavement markings)

### ROADWAY COMPONENT

**User Input Data**

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	32.50 / 32.50
Structural Spread Rate	220
Friction Course Spread Rate	165

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-2	MILLING EXIST ASPH PAVT,3 1/2" AVG DEPTH	66,466.40	SY	\$4.66	\$309,733.42
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	7,311.30	TN	\$235.73	\$1,723,492.75
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	5,483.48	TN	\$194.55	\$1,066,811.03

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-2	MILLING EXIST ASPH PAVT,3 1/2" AVG DEPTH <b>Comment:</b> mainline/aux	16,105.32	SY	\$4.66	\$75,050.79
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH <b>Comment:</b> side streets/driveways with RW	9,277.78	SY	\$5.26	\$48,801.12
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22 <b>Comment:</b> mainline/aux/side streets/driveways within RW	2,537.01	TN	\$235.73	\$598,049.37
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 <b>Comment:</b> mainline/aux	1,328.69	TN	\$194.55	\$258,496.64
527-2	DETECTABLE WARNINGS	960.00	SF	\$36.92	\$35,443.20
706-1-3	RAISED PAVMT MARK, TYPE B	2,700.00	EA	\$4.53	\$12,231.00
710-12-290	PAINTED PAVT MARK,DUR,YELLOW,ISLAND NOSE	1,700.00	SF	\$5.21	\$8,857.00
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	1.00	LS	\$41,441.17	\$41,441.17

711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	3,800.00 LF	\$4.12	\$15,656.00
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	1,100.00 LF	\$5.66	\$6,226.00
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	1,000.00 LF	\$7.90	\$7,900.00
711-11-141	THERMOPLASTIC, STD, WHITE, DOT GUIDE, 6"	0.18 GM	\$3,038.58	\$546.94
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	4.00 EA	\$205.20	\$820.80
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW	185.00 EA	\$92.49	\$17,110.65
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	100.00 LF	\$5.67	\$567.00
711-11-241	THERMOPLASTIC, STD, YELLOW, DOT / GUIDE, 6"	0.56 GM	\$2,903.52	\$1,625.97
711-14-125	THERMOPLASTIC, PREFORM, WHITE, SOLID, 24"	2,900.00 LF	\$20.34	\$58,986.00
711-16-102	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 8"	0.51 GM	\$7,196.45	\$3,670.19
711-16-201	THERMOPLASTIC, STD-OTH, YELLOW, SOLID, 6"	3.50 GM	\$5,661.11	\$19,813.89

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	4

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	1,177.00	EA	\$4.53	\$5,331.81
710-11-101	PAINTED PAVT MARK, STD, WHITE, SOLID, 6"	6.97	GM	\$1,549.34	\$10,798.90
710-11-131	PAINTED PAVT MARK, STD, WHITE, SKIP, 6"	6.97	GM	\$548.67	\$3,824.23
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	6.97	GM	\$6,108.33	\$42,575.06
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	6.97	GM	\$1,541.95	\$10,747.39

**Roadway Component Total** \$4,384,608.32

**SHOULDER COMPONENT**

**User Input Data**

Description	Value
Total Outside Shoulder Width L/R	2.67 / 2.67
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	5,460.47	SY	\$4.97	\$27,138.54

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
527-2	DETECTABLE WARNINGS	960.00	SF	\$36.92	\$35,443.20
<b>Comment:</b> detectable warning replacement					

**Erosion Control**

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	18,406.08	LF	\$2.50	\$46,015.20
104-18	INLET PROTECTION SYSTEM	74.00	EA	\$189.34	\$14,011.16
107-1	LITTER REMOVAL	37.61	AC	\$57.50	\$2,162.58
107-2	MOWING	32.96	AC	\$72.34	\$2,384.33

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-15	SOIL TRACKING PREVENTION DEVICE	2.00	EA	\$4,286.00	\$8,572.00

**Shoulder Component Total** \$135,727.01

**SIGNALIZATIONS COMPONENT**

**Signalization 1**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	Cypress Wood Dr Loops

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	6.00	AS	\$1,412.31	\$8,473.86
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	14.00	AS	\$2,041.78	\$28,584.92

**Signalization 2**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	Anchor Rode-Ohio Dr Loops

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	6.00	AS	\$1,412.31	\$8,473.86
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	11.00	AS	\$2,041.78	\$22,459.58

**Signalization 3**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	Harbour Dr Loops

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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660-2-102	LOOP ASSEMBLY, F&I, TYPE B	6.00 AS	\$1,412.31	\$8,473.86
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	9.00 AS	\$2,041.78	\$18,376.02

**Signalization 4**

<b>Description</b>	<b>Value</b>
Type	Miscellaneous
Multiplier	1
Description	26th Ave N Loops

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	6.00 AS	\$1,412.31	\$8,473.86
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	9.00 AS	\$2,041.78	\$18,376.02

**Signalization 5**

<b>Description</b>	<b>Value</b>
Type	Miscellaneous
Multiplier	1
Description	Mooring Line Dr

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	6.00 AS	\$1,412.31	\$8,473.86
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	13.00 AS	\$2,041.78	\$26,543.14

**Signalizations Component Total** \$156,708.98

**Sequence 1 Total** \$4,677,044.31

**Sequence:** 2 MIS - Miscellaneous Construction

**Net Length:** 1.743 MI  
9,203 LF

**Description:** RRR items not included in POP Seq 1 - drainage, signing, transit, rdwy recon for drainage repair

**ROADWAY COMPONENT**

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC <b>Comment:</b> Pavement reconstruction to support drainage repairs and Curb ramp reconstruction	90.00	SY	\$109.18	\$9,826.20
160-4	TYPE B STABILIZATION <b>Comment:</b> Pavement reconstruction to support drainage repairs	244.44	SY	\$13.31	\$3,253.50
285-708	OPTIONAL BASE,BASE GROUP 08 <b>Comment:</b> Pavement reconstruction to support drainage repairs	244.44	SY	\$114.62	\$28,017.71
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22 <b>Comment:</b> Pavement reconstruction to support drainage repairs	47.10	TN	\$235.73	\$11,102.88
520-1-10	CONCRETE CURB & GUTTER, TYPE F <b>Comment:</b> 110 LF For ponding areas, 252 LF for curb ramp reconstruction	362.00	LF	\$45.62	\$16,514.44
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" <b>Comment:</b> Curb ramp reconstruction, boarding and alighting pads	188.89	SY	\$111.60	\$21,080.12
<b>Roadway Component Total</b>					<b>\$89,794.85</b>

**SIGNING COMPONENT**

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	248.00	EA	\$528.87	\$131,159.76
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	54.00	EA	\$2,182.87	\$117,874.98
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	200.00	EA	\$55.10	\$11,020.00
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00	EA	\$11,310.68	\$22,621.36
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	2.00	EA	\$2,014.55	\$4,029.10
700-3-602	SIGN PANEL, REMOVE, 12-20 SF	1.00	EA	\$121.03	\$121.03

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-913	SNGL GRND SIGN AS, F&I CANTI GM, 20.1-30	2.00	EA	\$3,769.99	\$7,539.98
700-1-914	SNGL GRND SIGN AS, F&I CANTILE GM, 30.1+	2.00	EA	\$4,345.14	\$8,690.28
700-3-602	SIGN PANEL, REMOVE, 12-20 SF	1.00	EA	\$121.03	\$121.03
700-13-15	RETROREFLECTIVE SIGN STRIP-F&I, 5' <b>Comment:</b> WRONG WAY SIGN POST, F&I, 5'	110.00	EA	\$125.50	\$13,805.00
705-10-1	OBJECT MARKER, TYPE 1	9.00	EA	\$300.00	\$2,700.00

705-10-2	OBJECT MARKER, TYPE 2	10.00 EA	\$121.46	\$1,214.60
705-11-1	DELINEATOR, FLEXIBLE TUBULAR	38.00 EA	\$122.98	\$4,673.24
<b>Signing Component Total</b>				<b>\$325,570.36</b>

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**MISCELLANEOUS COMPONENT****X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-351	INLETS, CURB, TYPE P-5, <10'	2.00	EA	\$10,723.59	\$21,447.18
425-1-355	INLETS, CURB, TYPE P-5, PARTIAL	2.00	EA	\$14,959.33	\$29,918.66
425-1-361	INLETS, CURB, TYPE P-6, <10'	2.00	EA	\$20,549.35	\$41,098.70
425-1-365	INLETS, CURB, TYPE P-6, PARTIAL	2.00	EA	\$7,974.01	\$15,948.02
<b>Miscellaneous Component Total</b>					<b>\$108,412.56</b>

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**Sequence 2 Total** **\$523,777.77**

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**Sequence:** 4 MIS - Miscellaneous Construction

**Net Length:** 1.743 MI  
9,203 LF

**Description:** Signal Updates - all 5 signals

**SIGNING COMPONENT**

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-5-22	INTERNAL ILLUM SIGN, F&I OM, 12-18 SF	1.00	EA	\$3,851.83	\$3,851.83
700-5-60	INTERNAL ILLUM SIGN, REMOVE	1.00	EA	\$387.82	\$387.82
<b>Signing Component Total</b>					<b>\$4,239.65</b>

**SIGNALIZATIONS COMPONENT**

**Signalization 1**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	Cypress Wood Dr

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
611-1-1	ITSFM SUBSURFACE DOCUMENTATION- PROJ LEN	1.74	MI	\$2,920.35	\$5,081.41
611-2-1	ITSFM LOCATION DOCUMENTATION- INTERS	1.00	EA	\$2,719.09	\$2,719.09
630-2-11	CONDUIT, F& I, OPEN TRENCH	640.00	LF	\$23.84	\$15,257.60
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	460.00	LF	\$35.71	\$16,426.60
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$13,088.16	\$13,088.16
635-2-19	PULL & SPLICE BOX,F&I,DIMENSIONS PER UAO	6.00	EA	\$1,176.81	\$7,060.86
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	2.00	EA	\$3,001.10	\$6,002.20
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	1.00	EA	\$409.01	\$409.01
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	2.00	AS	\$1,092.25	\$2,184.50
653-1-60	PEDESTRIAN SIGNAL, REMOVE	2.00	AS	\$186.97	\$373.94
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	2.00	EA	\$528.80	\$1,057.60
665-1-60	PEDESTRIAN DETECTOR, REMOVE	2.00	EA	\$42.66	\$85.32

**Signalization 2**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	Anchor Rode-Ohio Dr

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	710.00	LF	\$23.84	\$16,926.40
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	390.00	LF	\$35.71	\$13,926.90

632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$13,088.16	\$13,088.16
635-2-19	PULL & SPLICE BOX,F&I,DIMENSIONS PER UAO	6.00 EA	\$1,176.81	\$7,060.86
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	4.00 EA	\$3,001.10	\$12,004.40
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	2.00 EA	\$409.01	\$818.02
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,092.25	\$8,738.00
653-1-60	PEDESTRIAN SIGNAL, REMOVE	8.00 AS	\$186.97	\$1,495.76
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$528.80	\$4,230.40
665-1-60	PEDESTRIAN DETECTOR, REMOVE	8.00 EA	\$42.66	\$341.28

**Signalization 3**

<b>Description</b>	<b>Value</b>
Type	Miscellaneous
Multiplier	1
Description	Harbour Dr

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	660.00	LF	\$23.84	\$15,734.40
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	340.00	LF	\$35.71	\$12,141.40
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$13,088.16	\$13,088.16
635-2-19	PULL & SPLICE BOX,F&I,DIMENSIONS PER UAO	6.00	EA	\$1,176.81	\$7,060.86

**Signalization 4**

<b>Description</b>	<b>Value</b>
Type	Miscellaneous
Multiplier	1
Description	26th Ave N

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	680.00	LF	\$23.84	\$16,211.20
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	340.00	LF	\$35.71	\$12,141.40
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$13,088.16	\$13,088.16
635-2-19	PULL & SPLICE BOX,F&I,DIMENSIONS PER UAO	6.00	EA	\$1,176.81	\$7,060.86

**Signalization 5**

<b>Description</b>	<b>Value</b>
Type	Miscellaneous
Multiplier	1
Description	Mooring Line Dr

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	710.00	LF	\$23.84	\$16,926.40

630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	420.00 LF	\$35.71	\$14,998.20
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$13,088.16	\$13,088.16
635-2-19	PULL & SPLICE BOX,F&I,DIMENSIONS PER UAO	6.00 EA	\$1,176.81	\$7,060.86
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	5.00 EA	\$3,001.10	\$15,005.50
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	1.00 EA	\$409.01	\$409.01
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	5.00 AS	\$1,092.25	\$5,461.25
653-1-60	PEDESTRIAN SIGNAL, REMOVE	5.00 AS	\$186.97	\$934.85
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	5.00 EA	\$528.80	\$2,644.00
665-1-60	PEDESTRIAN DETECTOR, REMOVE	5.00 EA	\$42.66	\$213.30
<b>Signalizations Component Total</b>				<b>\$321,644.44</b>
<b>Sequence 4 Total</b>				<b>\$325,884.09</b>

**Sequence:** 6 MIS - Miscellaneous Construction

**Net Length:** 1.743 MI  
9,203 LF

**Description:** Lighting updates

**LIGHTING COMPONENT**

**Conventional Lighting Subcomponent**

<b>Description</b>	<b>Value</b>
Spacing	MAX

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	5,310.00	LF	\$23.84	\$126,590.40
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	2,030.00	LF	\$35.71	\$72,491.30
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	27.00	EA	\$1,417.71	\$38,278.17
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	22,020.00	LF	\$2.48	\$54,609.60
715-11-211	LUMINAIRE ,F&I-REP EXIST, RDWY, COBRA H	25.00	EA	\$1,667.15	\$41,678.75
715-62-242	LIGHT POLE CMPLT,SPL,F&I, 35'MH,12'ARM L	31.00	EA	\$16,245.02	\$503,595.62
715-69-000	LIGHT POLE COMPLETE, REMV POLE AND FND	13.00	EA	\$895.88	\$11,646.44

<b>Lighting Component Total</b>	<b>\$848,890.28</b>
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<b>Sequence 6 Total</b>	<b>\$848,890.28</b>
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**Sequence:** 7 MIS - Miscellaneous Construction

**Net Length:** 1.743 MI  
9,203 LF

**Description:** TSM&O - all intersections - 5 managed field ethernet switches

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**INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT**

**Description of Work**

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	5.00	EA	\$7,332.06	\$36,660.30
<b>Intelligent Traffic System (ITS) Component Total</b>					<b>\$36,660.30</b>

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**Sequence 7 Total** **\$36,660.30**

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# FDOT Long Range Estimating System - Production

## R3: Project Details by Sequence Report

**Project:** 456234-1-52-01

**Letting Date:** 07/2028

**Description:** SR 45 (US 41) FROM S OF SHADY REST LANE TO GOLDEN GATE PARKWAY

**District:** 01      **County:** 03 COLLIER      **Market Area:** 10      **Units:** English

**Contract Class:** 1   **Lump Sum Project:** N      **Design/Build:** N      **Project Length:** 1.743 MI

**Project Manager:** NEM-LAT-4P

**Version 3-P Project Grand Total** **\$9,421,512.82**

**Description:** Copy V1 - TRM removed seq 3 Hardened Centerlines - no other changes - 9/8/25

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<b>Resurfacing Lane Mile Cost</b>	<b>\$900,718.24</b>
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<b>Project Sequences Subtotal</b>	<b>\$6,412,256.75</b>
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102-1	Maintenance of Traffic	15.00 %	\$961,838.51
101-1	Mobilization	10.00 %	\$737,409.53

<b>Project Sequences Total</b>	<b>\$8,111,504.79</b>
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Project Unknowns	15.00 %	\$1,216,725.72
Design/Build	0.00 %	\$0.00

**Non-Bid Components:**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)		LS	\$93,282.31	\$93,282.31

<b>Project Non-Bid Subtotal</b>	<b>\$93,282.31</b>
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<b>Version 3-P Project Grand Total</b>	<b>\$9,421,512.82</b>
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