Graphical user interface, text, application, Word

Description automatically generated

**General Roadway Information**

|  |  |
| --- | --- |
| **FIN#:** 454218-1 | **FDOT Project Manager:** N/A |
| **State Road Number (Local Name):**  SR 524 | **Roadway ID:** 70070000 |
| **Project Limits:** From SR 520 to SR 528 | **MP:** 0.000 to **MP:** 5.200 |
| **County:** Brevard | **City/Town:** Cocoa (0.710-4.762) |
| **PROPOSED TARGET SPEED:** | **Project Type (Description):** Resurfacing |
| **EXISTING TYPICAL SECTION** | |
| 1-5 lanes divided, undivided, and one-way with 12-ft to 16-ft lane widths.  2’-13’ partial paved outside shoulder with partial curb and gutter (2’ to 25’ total shoulder).  Medians are a combination of vegetation, paved, and raised curbs. | |

**Step 1: Identify Need**

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| --- | --- |
| **SAFETY CONCERNS:** | 189 total crashes (3 fatalities)  0 pedestrian crashes (0 fatalities)  0 bicycle crash (0 fatalities) |
| **LOCAL INPUT:** |  |
| **OTHER:** | 437983-1 PD&E overlaps with target speed |

**Step 2: Determine FDM Consistency**

|  |  |
| --- | --- |
| **CONTEXT CLASSIFICATION:** | C2 – Rural (0.000-1.514)  C3C – Suburban Commercial (1.514-1.836, 4.305-4.759)  C3R – Suburban Residential (1.836-4.305)  LA – Limited Access (4.759-5.200) |
| **STRATEGIC INTERMODAL SYSTEM (SIS):** | No |
| **POSTED SPEED (CURRENT):** | 45 mph (0.000-0.200, 1.366-2.006, 4.166-4.749)  55 mph (0.200-1.366, 2.006-4.166, 4.749-5.200) |
| **DESIGN SPEED:** | N/A (0.000-0.181)  45 mph (0.181-1.977)  55 mph (1.977-5.200) |

**OPTIONAL: Speed Study Information**

|  |  |
| --- | --- |
| **Allowable range of design speeds:**  (per FDM table 201.5.1) | C2: 55-70 mph  C3: 35-55 mph |

**Step 3: Identify Important Roadway Features**

|  |  |
| --- | --- |
| **THROUGH LANES & LANE WIDTHS:** | 2 lanes divided (1 each direction)  Left – 16’ width (0.000-0.086)  12’ widths (1.069-1.977, 2.287-2.716, 2.750-3.080,  3.173-3.886, 4.043-4.649)  Right – 14’ width (0.000-0.086)  12’ widths (1.069-1.977, 2.287-2.716, 2.750-3.080,  3.173-3.886, 4.043-4.649)  2 lanes undivided (1 each direction)  Composite – 12’ widths (0.086-1.069, 1.977-2.287, 2.716-2.750,  3.080-3.173, 3.886-4.043)  4 lanes divided (1 left, 3 right)  Left – 12’ width (4.649-4.690)  Right – 12’ width (4.649-4.690)  5 lanes divided (2 left, 3 right)  Left – 12’ width (4.690-4.762)  Right – 12’ width (4.690-4.762)  1 lane (one-way)  Composite – 15’ width (4.762-5.200) |
| **TRANSIT:** | N/A |
| **BICYCLISTS / PEDESTRIANS FACILITY CONDITIONS:** | Partial sidewalk coverage.  Left – 5’ widths (1.089-1.309, 4.309-4.504, 4.519-4.644)  8’ widths (2.939-4.309)  Right – 5’ width (4.430-4.656)  Partial bicycle lane coverage with keyhole lanes.  Left – (0.431-0.519, 2.916-3.024, 3.283-3.364, 3.497-3.574,  3.714-3.804, 4.194-4.294, 4.315-4.423, 4.450-4.502)  Right – (1.722-1.827, 2.420-2.511) |
| **ACCESS MANAGEMENT:** | Class 4 (0.000-1.514, 1.836-4.649)  Class 3 (1.514-1.836, 4.649-5.200) |
| **CURRENT ANNUAL AVERAGE DAILY TRAFFIC (AADT):** | 6,600 (0.000-1.670)  13,800 (1.670-4.649)  25,000 (4.649-4.762)  700 (4.762-5.200) |
| **% TRUCK USAGE:** | 5% |

**Step 4: Potential Countermeasures**

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| --- | --- |
| **POTENTIAL COUNTERMEASURES to help Achieve the Target Speed (Refer to Spreadsheet):**  *Other countermeasures may be considered. {It is understood that the project team will make every effort to implement the proposed countermeasures. However, due to limits in budget or time (R/W, etc.) not all may be implemented in this project.}* |  |
| **Other Improvements within or outside of the Right-of-Way (R/W):** |  |

**Step 5: Determine Target Speed**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CONCLUSIONS AND RECOMMENDATION** | | |  | |
|  | **Posted Speed** | **Design Speed** | **Target Speed** | **Ultimate Target Speed (If Applicable)** |
| **Current:** | 45 mph (0.000-0.200)  55 mph (0.200-1.366)  45 mph (1.366-2.006)  55 mph (2.006-4.166)  45 mph (4.166-4.749)  55 mph (4.749-5.200) | 45, 55 mph |  |  |
| **Recommended** |  |  | 45 mph (0.000-0.200)  55 mph (0.200-1.366)  45 mph (1.366-1.510)  35 mph (1.510- 1.724)  45 mph (2.006-4.749)  50 mph (4.749-5.200) |  |

**TARGET SPEED MEETINGS:**

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| --- | --- | --- |
| **Target Speed (TS) Request Received:** | |  |
| **TS Determination Date:** | | **2/12/2024** |
|  | **Initial District TS Concurrence:** | **2/14/2024** |
|  | **TS Local Agency Concurrence:** |  |
|  | **Final TS District Approval:** |  |
|  | **TS Report Submitted to PM:** |  |