ADVERTISEMENT August 29, 2022

EXHIBIT A

SCOPE OF SERVICES

FOR

DESIGN GROUP 23-11

RESURFACING, REHABILITATION, & RESTORATION

Financial Project ID (FPID): 219722-5-32-01

State Road (SR) 263 (Capital Circle Northwest) from South of SR 10 (US 90) (Tennessee Street) to North of SR 8 (I-10)

LEON COUNTY

and

Financial Project ID (FPID): 417643-2-32-01

SR 8 (I-10) from West of Olson Road to East of SR 10 (US 90) (Mahan Drive)

LEON COUNTY

FDOT District 3

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SCOPE OF SERVICES FOR CONSULTING ENGINEERING SERVICES

HIGHWAY AND BRIDGE/STRUCTURAL DESIGN

This Exhibit forms an integral part of the agreement between the State of Florida Department of Transportation (hereinafter referred to as the DEPARTMENT or FDOT) and *[CONSULTANT Name (Project Specific Data)]* (hereinafter referred to as the CONSULTANT) relative to the transportation facility described as follows:

Financial Project ID: 219722-5-32-01

Project Description: State Road (SR) 263 (Capital Circle Northwest) from South of SR 10 (US 90) (Tennessee Street) to North of SR 8 (I-10)

Roadway: 55002000 Begin milepost: 9.715 End milepost: 11.849

Bridge No(s).: N/A

Context Classification:

- ***C3C- Suburban Commercial- from project begin to CMP 11.389- Mostly non-residential uses with large building footprints and large parking lots within large blocks and a disconnected or sparse roadway network.***
- ***C2- Rural- from CMP 11.389 to project end- Sparsely settled lands; may include agricultural land, grassland, woodland, and wetlands.***

Financial Project ID: 417643-2-32-01

Project Description: SR 8 (I-10) from West of Olson Road to East of SR 10 (US 90) (Mahan Drive)

Roadway:	55320000	Begin milepost:	10.137	End milepost:	15.628
	55320020	Begin milepost:	0.000	End milepost:	0.043
	55320023	Begin milepost:	0.000	End milepost:	0.273
	55320024	Begin milepost:	0.000	End milepost:	0.287
	55320026	Begin milepost:	0.000	End milepost:	0.453
	55320028	Begin milepost:	0.000	End milepost:	0.254
	55320029	Begin milepost:	0.000	End milepost:	0.252
	55320030	Begin milepost:	0.000	End milepost:	0.061
	55320031	Begin milepost:	0.000	End milepost:	0.058

Bridge No(s).: BR550095 – Olson Road over SR 8
BR550096 – CR 151 (Centerville Road) over SR 8
BR550069 & BR550097 – SR 8 over CR 347 (Miccosukee Road)
BR550077 & BR550098 – SR 8 over SR 10 (US 90) (Mahan Drive)

Context Classification:

- ***N/A- Limited Access through entire project limits***

1 PURPOSE

The purpose of this Exhibit is to describe the scope of work and the responsibilities of the CONSULTANT and the DEPARTMENT in connection with the design and preparation of a complete set of construction contract documents and incidental engineering services, as necessary, for improvements to the transportation facility described herein.

- Major work mix includes:
  - ***0012 - RESURFACING***
- Major work groups include:
  - ***3.1 - Minor Highway Design***
- Minor work groups include:
  - ***4.1.1 - Miscellaneous Structures***
  - ***7.1 - Signing, Pavement Marking and Channelization***
  - ***7.3 - Signalization***
  - ***8.1 - Control Surveying***
  - ***8.2 - Design, Right of Way & Construction Surveying***
  - ***9.1 - Soil Exploration***
  - ***9.2 - Geotechnical Classification Laboratory Testing***
  - ***9.4.1: Standard Foundation Studies***

Alternative construction contracting methods have NOT been identified for this project at this time.

The general objective is for the CONSULTANT to prepare a set of contract documents including plans, specifications, supporting engineering analyses, calculations, and other technical documents in accordance with FDOT policy, procedures and requirements. These Contract documents will be used by the CONTRACTOR to build the project and test the project components. These Contract documents will be used by the DEPARTMENT or its Construction Engineering Inspection (CEI) representatives for inspection and final acceptance of the project. The CONSULTANT shall follow a systems engineering process to ensure that all required project components are included in the development of the Contract documents and the project can be built as designed and to specifications.

The Scope of Services establishes which items of work in the FDOT Design Manual and other pertinent manuals are specifically prescribed to accomplish the work included in this contract and also indicate which items of work will be the responsibility of the CONSULTANT and/or the DEPARTMENT.

The CONSULTANT shall be aware that as a project is developed, certain modifications and/or improvements to the original concepts may be required. The CONSULTANT shall incorporate these refinements into the design and consider such refinements to be an anticipated and integral part of the work. This shall not be a basis for any supplemental fee request(s).

The CONSULTANT shall demonstrate good project management practices while working on this project. These include communication with the DEPARTMENT and others as necessary, management of time and resources, and documentation. The CONSULTANT shall set up and maintain throughout the design of the project a contract file in accordance with DEPARTMENT procedures. CONSULTANTs are expected to know the laws and rules governing their professions and are expected to provide services in accordance with current regulations, codes and ordinances and recognized standards applicable to such professional services. The CONSULTANT shall provide qualified technical and professional personnel to perform to DEPARTMENTstandards and procedures, the duties and responsibilities assigned under the terms of this agreement. The CONSULTANT shall minimize to the maximum extent possible the DEPARTMENT's need to apply its own resources to assignments authorized by the DEPARTMENT.

The DEPARTMENT will provide contract administration, management services, and technical reviews of all work associated with the development and preparation of contract documents, including Construction documents. The DEPARTMENT's technical reviews are for high-level conformance and are not meant to be comprehensive reviews. The CONSULTANT shall be fully responsible for all work performed and work products developed under this Scope of Services. The DEPARTMENT may provide job-specific information and/or functions as outlined in this contract, if favorable.

2 PROJECT DESCRIPTION

The CONSULTANT shall investigate the status of these projects and become familiar with concepts and commitments (typical sections, alignments, etc.) developed from prior studies and/or activities.

Financial Project ID: 219722-5-32-01

This 3R project primarily consists of resurfacing SR 263 (Capital Circle Northwest) from South of SR 10 (US 90) (Tennessee Street) to North of SR 8 (I-10). Existing travel lanes, auxiliary lanes, bicycle lanes, median crossovers, turn lanes, bus bays and paved shoulders will be resurfaced.

From the beginning of the project (CMP 9.715) to the eastbound ramp terminals at SR 8 (CMP 11.237), the typical section consists of three 12-foot travel lanes, a 4-foot paved shoulder (bike lane) and an outside 2-foot curb and gutter in each direction. It also includes a 32-foot median that is either vegetated or contains turn lanes and a traffic separator with an inside 2-foot curb and gutter. Between the SR 8 interchange ramp terminals (CMP 11.237 to CMP 11.353) the median is 38-feet wide with a concrete barrier. From the westbound ramp terminals to the end of the project (CMP 11.849), the typical section transitions from a six-lane divided section to a two-lane undivided rural section with 12-foot lanes and 4-foot paved shoulders. The median transitions from 46-feet at CMP 11.353 to 30-feet at CMP 11.542. The northbound outside 2-foot curb and gutter ends at Gearhart Road (CMP 11.542) and the southbound outside 2-foot curb and gutter ends at CMP 11.456.

The lane widths should be reviewed by the CONSULTANT and discussed with the DEPARTMENT's Design Project Manager to determine whether restriping to provide wider

designated bicycle lanes should occur.

Additional improvements will include extending the northbound left turn lane at Tharpe Street and constructing northbound right turn lanes at Brittany Boulevard and at Gearhart Road. The existing northbound bus bay south of Brittany Boulevard will be reconstructed. The CONSULTANT will coordinate with Star Metro to determine the appropriate location.

The right of way varies throughout the project limits. No additional right of way is anticipated.

The CONSULTANT shall take a practical approach to all projects by identifying cost savings on any/all phases of a project (design, right of way acquisition, and construction).

SR 263 has been designated as a "Hurricane Evacuation Route".

SR 263 is a designated Strategic Intermodal System (SIS) Strategic Growth Highway Connector facility. The CONSULTANT shall be responsible for identifying and obtaining any Design Variations needed for deviating from SIS criteria.

Six (6) signalized intersections exist within the project limits. Each is a fully actuated signal.

- ***SR 10/ US-90/ West Tennessee Street (CMP 9.834)- Video Detection will be implemented at this intersection***
- ***CR 158/ West Tharpe Street (CMP 10.139)***
- ***Hartsfield Road/ Northwest Passage (CMP 10.573)***
- ***Commonwealth Boulevard (CMP 11.043)***
- ***SR 8/ I-10 Eastbound Ramp Terminals (CMP 11.237)***
- ***SR 8/ I-10 Westbound Ramp Terminals (CMP 11.353)***

The traffic detector loops on SR 263 that are impacted by the resurfacing operation will be replaced. Other anticipated signal work throughout the project includes reconstructing pedestrian detectors and signal heads to meet Americans with Disabilities Act (ADA) access requirements.

Pedestrian lighting was installed at the signalized intersections on this project in FY 20 & FY21 under FPID 439577-2. Additional pedestrian lighting efforts are not anticipated.

The CONSULTANT shall coordinate with District Planning Office to determine if the traffic detector loops at existing Portable Traffic Monitoring Sites (PTMS) 553046 (CMP 9.948), 553068 (CMP 10.276), 553065 (CMP 10.913) and 553066 (CMP 11.736) are to be reinstalled or if the sites are to be removed.

The CONSULTANT shall identify and protect existing ITS infrastructure. Coordination with the DEPARTMENT's Traffic Operations office and the Leon County ITS office will be required to determine any enhancements or impacts to the ITS system.

Sidewalk exists throughout the project limits along both sides of SR 263. The CONSULTANT shall closely review and provide for sidewalk connectivity along SR 263 where sidewalk exists at sideroad intersections. Existing stamped asphalt pedestrian

crosswalks will be reconstructed as stamped asphalt crosswalks.

Numerous ADA improvements to existing pedestrian features will be included in this project. These improvements will consist of repairing deficient sidewalk, replacing/retrofitting non-compliant curb ramps, meeting clear space requirements, and upgrading pedestrian signal features. There are numerous locations where curb inlet tops are creating tripping hazards. Bus Stop locations shall be assessed for access needs and landings constructed where appropriate. The need to install, upgrade, or remove pedestrian handrail shall be considered throughout. An ADA Survey Report will be required. See Section 4.14.

No bridges exist within the project limits.

Per the FDOT Traffic Operations Office and the Roadway Characteristics Inventory (RCI) Database, the posted (justified) speed limit on SR 263 is 45 mph throughout the project limits. Any contradictions to the posted (justified) speed described above (found posted in the field or proposed by CONSULTANT) will require close coordination with the DEPARTMENT's Design Project Manager and approval from the FDOT Traffic Operations Office on the project's Typical Section Package.

Multiple sideroad turnouts have been identified as having substandard radii and show signs of off-tracking and/or curb inlet damage. These locations shall be reviewed by the CONSULTANT to determine if improvements are feasible. Recommendations for radius reconstruction should be discussed with the DEPARMENT's Design Project Manager.

It is the DEPARTMENT's desire to make every effort to avoid impacts to green planting space, trees, and other vegetation within and adjacent to the project limits. The CONSULTANT shall design the limits of construction and any work activities (including staging, storage of equipment, etc.) to minimize or eliminate a threat to green planting space, existing trees, or their root systems. Any green space or tree impacts perceived to be unavoidable shall be closely reviewed with the DEPARTMENT's Design Project Manager who will in turn review with other DEPARTMENT staff as appropriate. When there is the potential to impact trees, the CONSULTANT shall be prepared to provide and present alternate design scenarios with corresponding cost estimates and implications (drainage, utilities, etc.) when requested.

The CONSULTANT shall provide a 3D design and model to facilitate Automated Machine Guidance in construction. 3D design deliverables shall include the deliverables detailed in Section 5.10.4 of the most current edition of the FDOT CADD Manual.

<u>COORDINATION REQUIREMENTS:</u> This project should be coordinated with all adjacent County, State or private projects, including the following known projects:

1) ***FPID 426937-2-52-01 - FDOT Project - resurfacing of SR 10 (US 90) West Tennessee Street from CR 1581 (Aenon Church Road) to Ocala Road. This project is currently in design and scheduled for construction in FDOT Fiscal Year 2024. The DEPARTMENT's Design Project Manager is Howard Hodge, PE, PECS (850-526-2291).***
2) ***FPID 446433-7-52-01 - FDOT Project - Tallahassee Fiber Upgrades on Capital***

Circle, Orange Avenue & Springhill Road. The project limits on SR 263 extend from Orange Avenue (CMP 0.225) to SR 10 (US 90) (West Tennessee Street) (CMP 9.834). This project is currently in design and scheduled for construction in FDOT Fiscal Year 2024. The DEPARTMENT's Design Project Manager is Russell Allen, PE, Atkins (850-273-7395).

Features installed on FDOT R/W by non-FDOT, private entities should be considered by the CONSULTANT as they relate to potential impacts. Within these project limits, landscaping, irrigation, signs, mailboxes, etc. are expected to be encountered and potentially impacted by construction activities. The construction plans must address the course of action for coordination.

SPECIFIC EXCLUSIONS: ***This project has been discussed with District Three Management and no project specific exclusions have been identified at this time.***

All necessary Geotechnical efforts will be provided by the CONSULTANT.

This project will be let to construction as a Conventional Bid Item project.

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Financial Project ID: 417643-2-32-01

This 3R project primarily consists of resurfacing SR 8 (I-10) from west of Olson Road (CMP 10.137) to east of SR 10 (US 90) (Mahan Drive) (CMP 15.628). There are two sets of parallel eastbound/westbound bridges (4 bridges total) within the project limits that have concrete decks and will be an exception from the resurfacing limits. The only work on the bridges will be guardrail upgrades and continuing pavement marking across the bridge decks. Existing travel lanes and paved shoulders will be resurfaced. The typical section of this four-lane facility consists of two 12-foot travel lanes in each direction separated by a 64-foot grassed median with 4-foot paved inside shoulders and 10-foot paved outside shoulders. From CMP 14.687 to CMP 15.032 the inside right shoulder is an 8-foot paved shoulder.

The right of way varies throughout the project limits. No additional right of way will be required.

There is one interchange within the project limits at SR 10. The off-ramps and on- ramps at this interchange will be resurfaced. SR 10 will NOT be resurfaced within the interchange. Olson Road, CR 151 (Centerville Road) and Miccosukee Road will be resurfaced within the limits of FDOT Limited Access right of way.

The CONSULTANT shall take a practical approach to all projects by identifying cost savings on any/all phases of a project (design, right of way acquisition, and construction).

SR 8 has been designated as a "Hurricane Evacuation Route".

SR 8 is a designated Strategic Intermodal System (SIS) highway facility. The CONSULTANT shall be responsible for identifying and obtaining any Design Variations needed for deviating from SIS criteria.

The CONSULTANT shall coordinate with District Planning Office to determine if the traffic detector loops at existing Portable Traffic Monitoring Sites (PTMS) 552007 (CMP 14.245), 552620, 552623, 552624, 552626, 552628, 552629, 552630 and 552631 are to be reinstalled or if the sites are to be removed.

The existing ITS infrastructure throughout the project limits shall be preserved with all above-ground features appropriately identified in the plans. Coordination with the DEPARTMENT's Traffic Operations office and the Leon County ITS office will be required to determine any enhancements or impacts to the ITS system.

Six (6) bridges exist within the project limits:

- ***BR550095 – Olson Road over SR 8***
- ***BR550096 – CR 151 (Centerville Road) over SR 8***
- ***BR550069 & BR550097 – SR 8 over CR 347 (Miccosukee Road)***
- ***BR550077 & BR550098 – SR 8 over SR 10 (US 90) (Mahan Drive)***

These bridges have concrete decks that require no work other than striping and guardrail upgrades.

Per the FDOT Traffic Operations Office and the Roadway Characteristics Inventory (RCI) Database, the posted (justified) speed limit on SR 8 is 70 mph.

All guardrail (including guardrail end anchorage assemblies and connections to bridge rail) shall be evaluated for conformance to FDOT Standards for type, height, and offset to the travel lanes and hazards. Existing guardrail shall be evaluated to determine if the length of advancement meets FDOT Standards. The guardrail should be extended if required. The District Safety Office recommends consideration of median barrier in the non-wooded sections of median throughout the project to mitigate the median crossover crashes. The CONSULTANT shall review the crash history and make recommendations for median barrier placement.

The CONSULTANT shall be aware that the addition or removal of permanent crossovers will require approval and/or coordination with the DEPARTMENT, the Florida Highway Patrol (FHP), the Federal Highway Administration (FHWA), and Local Emergency Responders. See Section 4.6 (of this scope).

It is the DEPARTMENT's desire to make every effort to avoid impacts to green planting space, trees, and other vegetation within and adjacent to the project limits. The CONSULTANT shall design the limits of construction and any work activities (including staging, storage of equipment, etc.) to minimize or eliminate a threat to green planting space, existing trees, or their root systems. Any green space or tree impacts perceived to be unavoidable shall be closely reviewed with the DEPARTMENT's Design Project Manager who will in turn review with other DEPARTMENT staff as appropriate. When there is the potential to impact trees, the CONSULTANT shall be prepared to provide and present alternate design scenarios with corresponding cost estimates and implications (drainage,utilities, etc.) when requested. Specifically, no vehicles, equipment or materials will be staged within the infield areas of the Interchange. The existing staging area in the

NE quadrant may be used but tree protection delineation will still be required.

COORDINATION REQUIREMENTS: ***This project should be coordinated with all adjacent County, State or private projects, including the following known projects:***

1) ***FPID 406585-3-22-01 - FDOT Project - PD&E Study of SR 8 (I-10) from East of SR 261 (Capital Circle) to SR 59 (Gamble Road). This project is currently under development. Design is not currently funded (FPID's 406585-4 and 406585-5). The DEPARTMENT's PD&E Project Manager is Sherry Alaghemand, PE (850-330-1510).***

2) ***FPID 446433-6-52-01 - FDOT Project - Intelligent Transportation System Project on SR 8 (I-10 from West of SR 10 (US 90) to East of SR 10 (US 90) (Mahan Drive). This project is currently in design and scheduled for construction in FDOT Fiscal Year 2024. The DEPARTMENT's Design Project Manager is Mr. Russell Allen, PE, Atkins (850-273-7395).***

SPECIFIC EXCLUSIONS: ***This project has been discussed with District Three Management and no project specific exclusions have been identified at this time.***

All necessary Geotechnical efforts will be provided by the CONSULTANT.

This project will be let to construction as a Conventional Bid Item project.

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The CONSULTANT shall incorporate the following into the design of this facility:

2.1 Project General and Roadway (Activities 3, 4, and 5)

Public Involvement: ***FPID 219722-5 will have a Community Awareness Plan (CAP) Level II with one Hybrid Public Information Meeting/Workshop. The HYBRID meeting will consist of a live, online meeting and an in-person meeting at a facility. The online meeting will include a brief project overview and an opportunity for those online to ask questions via phone or chat-box. The CONSULTANT shall create project specific .shtm files immediately prior to the Public Information Meeting/Workshop and Public Hearing to be posted by the DEPARTMENT to the*** NWFLRoads.com ***website. See Section 3.1.12 (of this scope) for specific requirements.***

FPID 417643-2 will have a CAP Level I.

Other Agency Presentations/Meetings: ***Project updates will be provided to the Local Municipalities and any affected regional MPO/TPO organization for the project as described in Section 3.1.2. A pre-Phase I (30%) coordination meeting shall be held with representatives of the Capital Region Transportation Planning Agency (CRTPA) and City of Tallahassee Planning/Engineering. Coordinate this meeting with the FDOT Urban Liaison.***

Joint Project Agreements: ***There have been NO JPAs identified at this time.***

Lane Closure(s) During Design Phase Approval: ***If a lane closure is anticipated for any purpose during the design phase of a project (i.e., survey, geotechnical investigation, pavement coring, etc.) the CONSULTANT shall provide the DEPARTMENT's Design Project Manager with all the necessary project/task related information in a memo form to pursue approval from the District Design Office. Needed information includes 1) the location of the lane closure, 2) the scope of work at the location, 3) the duration of closure, 4) when (date/time) that the work is requested to be performed, 5) Google Earth *.kmz file(s) of the location(s), and 6) Temporary Traffic Control Plans. The approval must be received before the specified work can commence.***

Specifications Package Preparation: ***To be negotiated and completed during the Plans Update phase. See the requirements described in Sections 3.3 & 3.7.***

Estimated Quantities Report Preparation: ***The CONSULTANT shall develop accurate quantities and the supporting documentation, including construction days when required. Quantities shall be included in an Estimated Quantities Report per FDM 902.***

The CONSULTANT shall be responsible for inputting pay items and quantities into the DEPARTMENT's Project Preconstruction (PrP) System through the use of the DEPARTMENT's Designer Interface.
Phase I - The project shall be established in PrP by Phase I (30%). The District Preliminary Estimates Office will create the project(s) in the system upon receiving a copy of the Notice to Proceed for the design contract.

Phase II - A Summary of Pay Items sheet shall be prepared with Phase II and subsequent plans submittals. The Phase II (60%) submittal shall have all pay items identified with or without quantities. If quantities have not been determined at this point, the CONSULTANT shall load a quantity of "1.0".

Phase III & Phase IV - At Phase III (90%) the CONSULTANT shall have all quantities loaded into PrP, with only minor change anticipated at subsequent submittals. Within PrP, the CONSULTANT shall run a Project Edit Report for the project at Phases III and Phase IV (should the percentage of completion be clarified here?) just prior to submitting the plans to the DEPARTMENT for review. This program outputs invalid pay items that may be erroneously loaded for a project. The above shall be provided for each component set of plans (i.e., Roadway, Bridge, Signing and Marking, etc.).

Value Engineering: ***N/A***

Risk Assessment Workshop: ***N/A***

Plan Type: ***The CONSULTANT shall provide only the roadway and/or structures plans and miscellaneous details necessary to construct these projects. The DEPARTMENT's intent is to minimize the design and survey effort where possible. The CONSULTANT shall develop and sign and seal the plans electronically in accordance with Sections 3.9 & 37.5.***

Typical Sections: ***For FPID 219722-5, the existing typical section consists of three 12-foot travel lanes, a 4-foot paved shoulder (bike lane) and an outside 2-foot curb and***

gutter in each direction. It also includes a 32-foot median with an inside 2-foot curb and gutter. The typical section transitions from a six-lane divided section to a two-lane undivided rural section with 12-foot lanes and 4-foot paved shoulders. The lane widths should be reviewed to determine whether restriping to provide wider designated bicycle lanes should occur.

For FPID 417643-2, the typical section consists of two 12-foot travel lanes in each direction separated by a 64-foot grassed median with 4-foot paved inside shoulders and 10-foot paved outside shoulders. Interchange ramps consist of one 15-foot travel lane with a 2-foot paved inside shoulder and a 4-foot paved outside shoulder.

Resurfacing Limits: ***For FPID 219722-5, SR 263 will be resurfaced from the pavement change south of SR 10 (CMP 9.715) to the pavement change north of SR 8 (CMP 11.849).***

For FPID 417643-2, SR 8 will be resurfaced from the pavement change west of Olson Road (CMP 10.137) to the pavement change east of SR 10 (CMP 15.628). Special care should be given at the end of the project to prevent a "dip" in the roadway. Transition details should be provided in the plans as necessary. All interchange ramps at SR 10 will be resurfaced however SR 10 will NOT be resurfaced within the interchange. Olson Road, CR 151 (Centerville Road) and Miccosukee Road will be resurfaced within the limits of FDOT Limited Access right of way.

Right of way: ***Right of way (R/W) acquisition will not be required for these projects. Existing R/W lines, including stations and offset distances at breaks, will be shown on plan sheets.***

For FPID 219722-5, License Agreements may be appropriate and used for the purpose of harmonizing driveways and slopes where new sidewalk is to be constructed. The CONSULTANT will be required to assist in defining and presenting the requirements at each location.

Pavement Designs: ***The DEPARTMENT will provide the Pavement Designs for these projects. For FPID 219722-5, the CONSULTANT may have to provide milling/paving details if necessary to prevent build-up of asphalt in the gutters.***

For FPID 417643-2, pavement designs will also be required for the interchange ramps and any new median crossovers.

At this time, all excess milled asphalt not used by the Contractor in the resurfacing mix is to become the property of the Contractor.

Pavement Type Selection Report(s): ***N/A***

Cross slope Correction: ***There have been no cross-slope deficiencies identified in this project at this time. As early as possible, the collected survey data along this project shall be analyzed by the CONSULTANT to determine if minimum and maximum cross slope requirements are met throughout the project limits. Once the determination is made that cross-slope correction will be implemented, the CONSULTANT must determine if any***

additional survey is required to provide an adequate design and accurate quantities. The CONSULTANT will hold a coordination meeting with the DEPARTMENT's Design Project Manager, the District Design Office, the District Materials Office, and the District Survey Office to determine how much additional survey is required and what is the most economical method of obtaining the additional data. The CONSULTANT shall then review the cross sections with the District Construction Office and the District Bituminous Engineer to determine the method of correction (variable depth milling or overbuild) and the details/tables required. A proposed design for cross slope correction must be included in the Phase II Plans.

Access Management Classification: ***FPID 219722-5 has an Access Management Classification of 5. FPID 417643-2 has an Access Management Classification of 1.***

For 219722-5, the only Access Management improvements identified at this time consist of potential driveway closures or modifications to improve pedestrian or vehicular access and safety based on crash history. Abandoned driveway closures and modifications should be considered if the closure will improve pedestrian access and ADA compliancy. No specific locations have been identified to focus this effort; however, the CONSULTANT will be responsible for reviewing the available crash history and coordinating with the DEPARTMENT and local government contacts to identify any locations that may warrant further study or improvements. The CONSULTANT is to be aware that only a minimal amount of access management work (if any) will be considered for this 3R project.

All recommendations for access management improvements are to be closely coordinated with the DEPARTMENT's Design Project Manager. The CONSULTANT shall be aware that certain proposed deviations from access management and median opening spacing standards must be presented to the District Access Management Review Committee (AMRC) (see also Sections 3.1.4 and 4.6 (of this scope)). At a minimum, non-typical access management, driveway, and median opening issues that cannot be resolved by standard review processes at the District Design Office level, as well as proposed full movement median openings not meeting the spacing standards in Rule Chapter 14-97, F.A.C by a threshold of 10% or more shall be taken to the AMRC for review.

Transit Route Features: ***StarMetro routes exist within the project limits for FPID 219722-5. Coordination with StarMetro will be required for relocation of the existing bus bay at Brittany Boulevard under this project.***

Major Intersections and Interchanges: ***Six (6) signalized intersections exist within the project limits for FPID 219722-5. Each is a fully actuated signal. The traffic signal loops will have to be replaced where impacted by the milling and resurfacing operations.***

- ***SR 10/ US-90/ West Tennessee Street (CMP 9.834)- Video Detection will be implemented at this intersection***
- ***CR 158/ West Tharpe Street (CMP 10.139)***
- ***Hartsfield Road/ Northwest Passage (CMP 10.573)***

- ***Commonwealth Boulevard (CMP 11.043)***
- ***SR 8/ I-10 Eastbound Ramp Terminals (CMP 11.237)***
- ***SR 8/ I-10 Westbound Ramp Terminals (CMP 11.353)***

For FPID 417643-2, SR 8 (I-10) is a Limited Access Highway. There is one (1) interchange within the project limits.

- ***SR 10 (US 90) (CMP 14.687 to CMP 15.355) ~ clover leaf type***

Roadway Alternative Analysis: ***N/A***

Level of Temporary Traffic Control Plan (TTCP): ***For FPID 219722-5, the CONSULTANT shall provide a TTCP Level II. For FPID 417643-2, the CONSULTANT shall provide a TTCP Level I.***

Temporary Traffic Control Plans (TTCP) will be required for this project. The FDOT Standard Plans, 102 series, should be utilized for all work being performed on or adjacent to existing roadways. A reduction in the number of lanes will require that a lane closure analysis be performed by the CONSULTANT. See Section 4.10 (of this scope) for further guidance. SR 263 and SR 8 have been designated as a "Hurricane Evacuation Routes". All lanes must be open for traffic within 12 hours of a hurricane evacuation notice and shall remain open for the duration of the event as directed by the Project Administrator.

For projects with TTCP Levels of II or III, the CONSULTANT shall be prepared to provide materials for and participate in a Temporary Traffic Control Plans (TTCP) Workshop. The DEPARTMENT will submit the project's Temporary Traffic Control Plans for an external peer review at Phase II. Following this review, the DEPARTMENT's Design Project Manager will schedule the TTCP Workshop. The efforts associated with the TTCP review and TTCP Workshop are described in Section 4.10 and 4.22 (of this scope).

Consideration must also be given to the movement and safety of pedestrian and bicycle traffic during construction.

The TTCP must also address any efforts needed in conjunction with the StarMetro bus routes and stops.

Temporary Lighting: ***N/A***

Temporary Signals: ***Temporary signals may be needed to maintain traffic during construction.***

Temporary Drainage: ***Temporary drainage shall be designed as needed to provide positive drainage during construction.***

Design Variations: ***The CONSULTANT should review all existing features within the project limits for a functional design that will meet FDOT design standards and make a determination whether a Design Variation or Exception is appropriate.***

Conditions may be identified during design that may warrant design variations or exceptions. The CONSULTANT is to submit the requests for Variations and Exceptions to the DEPARTMENT as early as possible for approval in order to minimize potential schedule delays. The CONSULTANT is to be aware that omitting certain work items may require approval at the District Director level. The CONSULTANT will coordinate with the DEPARTMENT's Project Manager to obtain this approval.

Back of Sidewalk Profiles: ***For FPID 219722-5, the CONSULTANT shall provide back of sidewalk profiles where needed.***

Selective Clearing and Grubbing: ***N/A***

3D Modeling: ***The CONSULTANT shall provide a 3D design for any project that requires earthwork or cross sections, such as capacity projects, bridges, turn lanes, etc. (FPID 219722-5). See Section 2.18 and Section 36.***

2.2 Drainage (Activities 6a and 6b)

Drainage System Type: ***FPID 219722-5 has a closed/urban drainage system throughout the project limits and FPID 417643-2 has an open drainage throughout the project limits.***

Minimal drainage improvements are anticipated including constructing mitered end sections and repairing inlets. The CONSULTANT shall anticipate that all stormsewer manholes located within areas of resurfacing will require adjustment and the plans and estimates shall be prepared accordingly.

Sidedrains may have broken mitered end sections. These locations should be reviewed with the Area Maintenance Office and any broken mitered end that is creating a safety hazard should be reconstructed.

The CONSULTANT should review all locations for a functional design that will meet FDOT clearzone criteria. A Design Exception will be required if any drainage structure creates a hazard in the clear zone, and is to remain.

All existing drainage structures within the limits of construction shall be shown on the construction plans. The CONSULTANT shall inspect all drainage structures for function, scour, erosion, structural integrity, accumulation of sediments, and design as it pertains to pedestrian and vehicular safety. Prior to submitting staff hours, the CONSULTANT shall clearly communicate the drainage survey needs to the SURVEYOR and shall minimize the survey effort where possible. Drainage design treatments should be discussed with the DEPARTMENT's Design Project Manager and the District Drainage Office before being added to the construction plans.

For FPID 417643-2, the CONSULTANT shall inspect the condition and performance of the existing edge drain system and coordinate with the Resident Maintenance Engineer and District Drainage Office regarding proposed improvements (if any).

Number of cross drains: ***For FPID 219722-5, there are four (4) cross drains located***

within the project limits. For FPID 417643-2, there are twenty-six (26) cross drains located within the project limits.

2.3 Utilities Coordination (Activity 7)

The DEPARTMENT will be responsible for utility coordination associated with this project.

The Surveyor of Record (SOR) shall communicate with the Engineer of Record (EOR) early/prior to staff hour negotiations to determine the specific survey needs required for locating utilities based on the anticipated limits of construction and the proposed scope of work.

The CONSULTANT will identify which utilities exist within the corridor during the survey phase by calling Sunshine 811. A copy of the Sunshine 811 "design" ticket listing all utility owners within the project limits shall be provided to the FDOT Area Utility Manager within 10 business days of the Notice to Proceed (NTP) in order to obtain the current/correct utility contacts.

The CONSULTANT will be responsible for identifying showing areas that may be affected by construction. The CONSULTANT will evaluate utilities for potential impacts and prepare a Utility Conflict Matrix as directed by Section 7.7 of this document. The CONSULTANT will contact the Area Utility Manager to obtain the most current Utility Conflict Matrix boilerplate and direction. The matrix will be required with the Phase II submittal and will be updated and submitted with every phase thereafter.

Above-ground utility installations that have been struck three times within the latest 5-year period shall be assessed for relocation options. For installations with a crash history WITHOUT viable options for relocation within the R/W, the CONSULTANT will be responsible for pursuing and obtaining Design Alternatives Exceptions. Above-ground utility installations with a crash history WITH available R/W for relocation shall be relocated or the Utility Agency Owner (UAO) will be responsible for pursuing and obtaining a Design Alternatives.

The CONSULTANT is to review the UAO marked up plans and the Utility Work Schedules as they are received and assure that they are compatible with the proposed design features in the plans. The CONSULTANT shall review the specific details of the markups and schedules with the Area Utility Manager as required to finalize the status of each potential conflict, specifically as noted on the Utility Conflict Matrix. The CONSULTANT shall also verify that the schedules conform to the construction phasing and TTCP sequences.

2.4 Environmental Permits and Environmental Clearances (Activity 8)

The DEPARTMENT will provide compensatory wetland mitigation in accordance with Section 373.4137, Florida Statutes. ***The CONSULTANT shall coordinate with the District Permit Coordinator if wetland mitigation is anticipated.***

The CONSULTANT shall coordinate with <u>appropriate</u> agencies for all necessary

permits. Potential agencies requiring coordination include but are not limited to: Northwest Florida Water Management District, Florida Department of Environmental Protection, and US Army Corps of Engineers.

The CONSULTANT shall be responsible for the identification, coordination, and applications for all permits necessary to construct this project. All application and processing fees, including fees for any public notice required by the permit, shall be paid for by the CONSULTANT.

2.5 Structures (Activities 9 - 18)

Bridge: ***Six (6) bridges exist within the project limits of FPID 417643-2:***

- ***BR550095 – Olson Road over SR 8***
- ***BR550096 – CR 151 (Centerville Road) over SR 8***
- ***BR550069 & BR550097 – SR 8 over CR 347 (Miccosukee Road)***
- ***BR550077 & BR550098 – SR 8 over SR 10 (US 90) (Mahan Drive)***

These bridges have concrete decks that require no work other than striping and guardrail upgrades.

Miscellaneous Structures: ***The CONSULTANT shall evaluate the structural design of all existing multi-post signs and overhead cantilever signs and supports based on current FDOT Design Standards and the FDOT Multi-Post Sign Program. Any multi-post or overhead sign replacement recommendations will be discussed with the DEPARTMENT's Project Manager and the District Design Engineer prior to being implemented in the design plans.***

The District Safety Office recommends consideration of median barrier in the non-wooded sections of median throughout the project to mitigate the median crossover crashes. The CONSULTANT shall review the crash history and make recommendations for median barrier placement.

2.6 Signing and Pavement Markings (Activities 19 & 20)

The CONSULTANT shall be responsible for the design, details, and quantities associated with signing and pavement markings for this project. The CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager and the District Roadway Design Engineer to determine the most appropriate type of edge line for this application. For FPID 417643-2 refer to FDM 230.3.1.2. The CONSULTANT shall evaluate the existing signage to determine the need for additional signs, correcting redundant or conflicting signage, and the replacement of damaged signs.

The CONSULTANT shall evaluate and design all signs to meet current Design Standards and the FDOT Multi-Post Sign Program.

Regarding pavement markings, the SOR shall communicate with the EOR early/prior to staff hour negotiations to determine the specific survey needs required for locating pavement markings based on the anticipated needs of the project and the proposed scope

of work.

The lane widths within FPID 219722-5 should be reviewed by the CONSULTANT and discussed with the DEPARTMENT's Design Project Manager to determine whether restriping to provide wider designated bicycle lanes should occur.

For FPID 219722-5, advance street name signs shall be provided at Tennessee Street, Hartsfield Road and Commonwealth Boulevard. No U-Turn signs shall be provided at Commonwealth Boulevard.

For FPID 417643-2, the necessary mile marker pavement messages shall be provided on the shoulder in advance of interchanges as described in the FDOT Design Manual (FDM).

A No Passing Zone Study will NOT be required for either project.

2.7 Signalization (Activities 21 & 22)

Intersections: ***Six (6) signalized intersections exist within the project limits for FPID 219722-5 at the following locations:***

1) ***SR 10/ US-90/ West Tennessee Street (CMP 9.834) - mast arms***
2) ***CR 158/ West Tharpe Street (CMP 10.139) - mast arms***
3) ***Hartsfield Road/ Northwest Passage (CMP 10.573) - mast arms***
4) ***Commonwealth Boulevard (CMP 11.043) - mast arms***
5) ***SR 8/ I-10 Eastbound Ramp Terminals (CMP 11.237) - mast arms***
6) ***SR 8/ I-10 Westbound Ramp Terminals (CMP 11.353) - mast arms***

Video detection will be installed at the SR 10 intersection.

Other anticipated signal work throughout the project includes reconstructing pedestrian detectors and signal heads to meet Americans with Disabilities Act (ADA) access requirements. Potentially, some of the signal heads will have LED indications and some will have incandescent heads. At this time, upgrades to LED indications is NOT included in this project.

Traffic Data Collection: ***N/A***

Traffic Studies: ***N/A***

Traffic Monitoring Sites: ***The CONSULTANT shall be responsible for loading all quantities for the installation or removal of traffic monitoring site(s) and showing the location of the site(s) on the Key Sheet and Plan Sheets. The DEPARTMENT shall be responsible for providing the location and quantities to the CONSULTANT.***

Portable Traffic Monitoring Sites within the project limits will require removal during this milling and resurfacing project. Coordinate with the FDOT District 3 Planning Department for information regarding the removal. For FPID 219722-5, there are currently four (4) Portable Traffic Monitoring Sites (PTMS) 553046 (CMP 9.948), 553068 (CMP 10.276), 553065 (CMP 10.913) and 553066 (CMP 11.736) within the

project limits. For FPID 417643-2, there are currently nine (9) PTMS within the project limits: 552007 (CMP 14.245), 552620, 552623, 552624, 552626, 552628, 552629, 552630 and 552631.

2.8 Lighting (Activities 23 & 24) (Not applicable to these projects)

2.9 Landscape (Activities 25 & 26) (Not applicable to these projects)

2.10 Survey (Activity 27)

Design Survey: ***The Primary and Secondary Horizontal and Vertical control will be provided by the CONSULTANT. Other design survey requirements will be conducted by the CONSULTANT in accordance with Section 27.0 of this document.***

Pre-Production Survey Meeting: ***The CONSULTANT shall provide a basic graphic depiction and/or description of areas needed for topographical survey, DTM, cross sections, utilities, drainage structures, pavement markings, and wetland lines. Aerial imagery is recommended. The effort for the survey work defined in this meeting will be reflected in the staff hours and included in the Basic Services of work.***

The DEPARTMENT encourages the CONSULTANT and SURVEYOR to consider alternate surveying methods for these projects such as photogrammetry/lidar and/or the use of existing aerial photography. Alternate survey methods being considered will be presented by the CONSULTANT at the Pre-Production Survey Meeting and will require approval from the District Surveyor prior to implementation.

Production Survey Meeting: ***Following the Phase I submittal, the CONSULTANT, SURVEYOR, the District Surveyor, and the DEPARTMENT's Design Project Manager shall meet if it is determined that additional survey is required in order to provide an adequate design and accurate quantities. The CONSULTANT shall provide any necessary graphic depictions and/or descriptions of areas needing additional survey. Compensation for the additional survey work defined in this meeting will be made available through a Supplemental Amendment.***

Subsurface Utility Exploration: ***There have been no needs identified at this time. Should locations be identified prior to negotiations and contract execution, then the CONSULTANT shall submit staff hours and plan to provide these services.***

Right of Way Survey: ***N/A***

Vegetation Survey: ***N/A***

2.11 Photogrammetry (Activity 28) (Not applicable to these projects)

2.12 Mapping (Activity 29) (Not applicable to these projects)

2.13 Terrestrial Mobile LiDAR (Activity 30)

Services related to Terrestrial Mobile LiDar via the use of conventional mobile LiDAR, low altitude LiDAR or low altitude Photogrammetry will be required as determined and

directed by the District Surveyor. CONSULTANT requirements are found in Activity 30 of this document.

2.14 Architecture (Activity 31) (Not applicable to these projects)

2.15 Noise Barriers (Activity 32) (Not applicable to these projects)

2.16 Intelligent Transportation Systems (Activities 33 & 34) (Not applicable to these projects)

The CONSULTANT shall identify and protect existing ITS infrastructure. Coordination with the DEPARTMENT's Traffic Operations office and Leon County ITS office will be required to determine any enhancements or impacts to the ITS system.

2.17 Geotechnical (Activity 35)

The Pavement Condition Survey (including coring, testing, and preparing the report) will be provided by the CONSULTANT as directed in Section 35.22 of this Scope of Services. The DEPARTMENT will be responsible for the Pavement Design.

The CONSULTANT shall be responsible for all necessary geotechnical activities associated with this project. The CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager and the DEPARTMENT's Geotechnical Project Manager regarding information needed.

2.18 3D Modeling (Activity 36)

For FPID 219722-5, the CONSULTANT shall prepare a 3D model limited only to locations requiring cross sections. The model(s) shall be prepared using the latest FDOT software in accordance with the FDOT CADD Manual.

2.19 Project Schedule

Within ten (10) days after the Notice-To-Proceed, and prior to the CONSULTANT beginning work, the CONSULTANT shall provide a detailed project activity/event schedule for DEPARTMENT and CONSULTANT scheduled activities required to meet the current DEPARTMENT Production Date. The schedule shall be based upon the ***Critical Path Method (CPM).*** The current production date is ***December 13, 2024 for FPID 219722-5*** and ***November 8, 2024 for FPID 417643-2***. ***The project schedule shall include the following: project FPID and project description, FDOT PSM standard activity codes and description for all activities, original duration, activity start date, activity finish date, activity percent complete, activity predecessor(s) and successor(s). The schedule shall be based upon the durations and schedule negotiated during the project staff hour negotiations process.*** For the purpose of scheduling, the CONSULTANT shall allow for a ***three (3) week*** review time for each phase submittal and any other submittals as appropriate.

The schedule shall indicate, at a minimum, proposed dates for Phase I, II, III, and IV plans and all other appropriate milestones and required submittals.

All fees and price proposals are to be based on the negotiated schedule of [*Number*] months for final construction contract documents. However, the contract deadline is [*Number*] months from the Notice to Proceed.

Periodically, throughout the life of the contract, the project schedule and payout and fiscal progress curves shall be reviewed and, with the approval of the DEPARTMENT, adjusted as necessary to incorporate changes in the Scope of Services and progress to date.

The approved monthly updated project schedule and schedule status report shall be submitted with the monthly progress report to the DEPARTMENT's Design Project Manager. The CONSULTANT will also be required to make monthly schedule updates for tasks assigned to the CONSULTANT in FDOT Project Suite Enterprise Edition (PSEE). Schedule updates are due the last Friday of each month.

Initial and revised schedules shall be submitted electronically in *.pdf, Word, or Excel format.

Additional information, the PSEE link, and schedule update training can be found at: http://www.fdot.gov/designsupport/Districts/D3/default.shtm

2.20 Submittals

The CONSULTANT shall furnish construction contract documents as required by the DEPARTMENT to adequately control, coordinate, and approve the work concepts. The CONSULTANT shall distribute submittals as directed by the DEPARTMENT. The DEPARTMENT will determine the specific number of copies required prior to each submittal.

The DEPARTMENT's Electronic Review and Comment (ERC) system will be used for project reviews. Upon Notice to Proceed, the DEPARTMENT's Design Project Manager will coordinate with the CONSULTANT to provide the required access into the ERC system.

Phase Submittal Delivery: ***The delivery will include ONLY the submittal components (not the entire project directory and files). The delivery will be transmitted to the DEPARTMENT's Design Project Manager via ftp site, FTA, or other electronic file storage media and will include all construction plans components (roadway, signing & pavement marking, signalization, etc.) in *.pdf format, as well as the other submittal components described below for each submittal. The CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager to determine whether hard copy sets of plans or CDs/DVDs are required at any or all phase submittals. The CONSULTANT shall provide a *.kmz file of the project with each submittal. The *.kmz file needs to include the layers necessary to compare proposed construction features with the existing utilities as well as the limits of construction (LOC) and right of way (R/W).***

PRIOR TO PHASE I SUBMITTAL:

Quality Assurance/ Quality Control (QA/QC) Plan: ***The CONSULTANT shall submit their QA/QC Plan that will be used during the design of this project to the***

DEPARTMENT's Design Project Manager for reference within 20 (twenty) calendar days of the written Notice to Proceed. As a minimum, the QA/QC Plan shall include the details of all plan review processes to be utilized and sufficient file documentation to show that the QA/QC plan has been followed. See Section 3.0 (Project Common Tasks).

Alignment Submittals: Centerline/Baseline of Survey alignment submittals shall be submitted to the District Survey Office for approval and copies shall be submitted to the DEPARTMENT's Design Project Manager, D3 R/W Mapping Office, and the Prime CONSULTANT.

The Prime CONSULTANT shall wait for approval from the District Survey Office before utilizing the alignment for design purposes.

Survey Submittals: The Survey Subconsultant shall transmit their submittals to the District 3 Survey Office as well as the Prime CONSULTANT. The Survey Subconsultant shall copy the DEPARTMENT's Design Project Manager on all submittal correspondence. These survey submittals are to be made prior to the phase I, II, III, and IV plans submittals.

UAO Identification / Sunshine 811 "Design" Ticket: A copy of the Sunshine 811 "design" ticket listing all utility owners within the project limits shall be transmitted to the Design Project Manager and the Area Utility Manager at the onset of the design survey effort. The ticket shall be included with all phase submittals. See Section 7.2 (of this scope) for additional information regarding this requirement.

Miscellaneous Design/ Production Document Submittals: The CONSULTANT shall submit to the DEPARTMENT for review, and receive concurrence for, the Initial Project Schedule, the Community Awareness Plan, the Typical Section Package, Pavement Design, Design Variations and/or Exceptions (if applicable), and other documents as required by the FDOT Design Manual (FDM) and the Scope of Services.

PHASE I:

The CONSULTANT shall submit to the DEPARTMENT's Design Project Manager for distribution:

- ***One (1) electronic copy of the Plans,***
- ***One (1) electronic copy of the QC Marked-up Plans***

The submittal shall, at a minimum, include *.pdf files of the components listed above, as well as the Project-DOCUMENTATION.zip folder (see FDM 111.7), *.kmz file of the project, ADA Survey Report, and Sunshine 811 "design" ticket.

Along with the Phase I plans submittal, the CONSULTANT shall submit the construction cost estimate using the DEPARTMENT's Long Range Estimating System (L.R.E.). The District Preliminary Estimates Office will provide the CONSULTANT with a version of the L.R.E. in the system for their use.

Following the PHASE I review and prior to the PHASE II submittal, the District Survey

Office requests that the prime CONSULTANTS provide the Survey Subconsultants with the plans and allow time for a review to check the survey/ construction layout, alignments, control information (including R/W control if applicable), curve data, layout information, etc.

PHASE II:

The CONSULTANT shall submit to the DEPARTMENT's Design Project Manager for distribution:

- ***One (1) electronic copy of the Plans,***
- ***One (1) electronic copy of the QC Marked-up Plans,***
- ***One (1) electronic copy of any Technical Special Provision (if applicable)***

The submittal shall, at a minimum, include *.pdf files of the components listed above, as well as the Project-DOCUMENTATION.zip folder (see FDM 111.7), *.kmz file of the project, Sunshine 811 "design" ticket, Utility Conflict Matrix, ADA Survey Report, and a scanned copy of the Constructability Phase Review Checklist (per the Construction Project Administration Manual (CPAM)).

Along with the Phase II plans submittal, the CONSULTANT shall submit the construction cost estimate using the DEPARTMENT's Long Range Estimating System (L.R.E.). The District Preliminary Estimates Office will provide the CONSULTANT with a version of the L.R.E. in the system for their use.

The CONSULTANT shall submit plans to each of the affected local government(s) designated contact for a three-week review. See Section 3.1.2 of this document for details regarding Local Government Involvement.

FPID 219722-5 has a Temporary Traffic Control Plan Level II; therefore, the CONSULTANT shall be prepared to provide materials for and participate in a Temporary Traffic Control Plan (TTCP) Workshop. The DEPARTMENT will submit the project's Temporary Traffic Control Plans for an external peer review at Phase II. Following this review, the DEPARTMENT's Design Project Manager will schedule the TTCP Workshop. See Sections 4.10 and 4.22 (of this scope).

PHASE III:

The CONSULTANT shall submit to the DEPARTMENT's Design Project Manager for distribution:

- ***One (1) electronic copy of the Plans,***
- ***One (1) electronic copy of the QC Marked-up Plans,***
- ***One (1) electronic copy of any Technical Special Provision (if applicable),***
- ***One (1) electronic copy of the CONSULTANT's Construction Cost Estimate,***
- ***One (1) electronic copy of the CONSULTANT's Contract Time Estimate,***
- ***One (1) electronic copy of the Geotechnical Report***

The submittal shall, at a minimum, include *.pdf files of the components listed above, as

well as the Project-DOCUMENTATION.zip folder (see FDM 111.7), *.kmz file of the project, Sunshine 811 "design" ticket, Utility Conflict Matrix, ADA Survey Report, and a scanned copy of the Constructability Phase Review Checklist (per the Construction Project Administration Manual (CPAM)).

The CONSULTANT shall submit plans to each of the affected local government(s) designated contact for a three-week review. See Section 3.1.2 of this document for details regarding Local Government Involvement.

PHASE IV

The CONSULTANT shall submit to the DEPARTMENT's Design Project Manager for distribution:

- ***One (1) electronic copy of the Plans,***
- ***One (1) electronic copy of the QC Marked-up Plans,***
- ***One (1) electronic copy of the CONSULTANT's Construction Cost Estimate,***
- ***One (1) electronic copy of the CONSULTANT's Contract Time Estimate,***
- ***One (1) electronic copy of the Geotechnical Report***

The submittal shall, at a minimum, include *.pdf files of the components listed above, as well as the Project-DOCUMENTATION.zip folder (see FDM 111.7), *.kmz file of the project, Sunshine 811 "design" ticket, Utility Conflict Matrix, BHR, BDR, ADA Survey Report, and a scanned copy of the Constructability Phase Review Checklist (per the Construction Project Administration Manual (CPAM)).

SUBMITTAL FOR "THE SHELF":

The CONSULTANT must submit a District 3 Change Memo to the District Preliminary Estimates Office to have Project Preconstruction (PrP) unlocked if changes are made following the PHASE IV submittal that affect the pay-items or quantities in PrP. A copy of the District 3 Change Memo can be obtained from the DEPARTMENT's Design Project Manager or the District Preliminary Estimates Office.

Upon addressing the PHASE IV review comments, the CONSULTANT shall submit to the DEPARTMENT's Design Project Manager the following in an electronic format via ftp site, FTA, or other electronic file storage media:

- ***PHASE IV Plans,***
- ***PHASE IV QC Marked-up Plans,***
- ***Project-DOCUMENTATION.zip folder,***
- ***Engineer's Construction Cost Estimate,***
- ***CONSULTANT's Contract Time Estimate,***
- ****.kmz file of the project,***
- ***Sunshine 811 "design" ticket,***
- ***Utility Conflict Matrix,***
- ***Utility Schedule Report,***
- ***Geotechnical Reports,***

- ***ADA Survey Report,***
- ***Constructability Phase Review Checklist***

The CONSULTANT shall transmit the applicable electronic project files to the DEPARTMENT's Area Utility Manager.

PHASE IV RE-SUBMITTAL:

If the project spends one (1) year or more "on the shelf" and/or substantial changes have been made during Plans Update to the plans, pay items, or quantities after the Phase IV review, the CONSULTANT shall prepare a second Phase IV submittal. This submittal will include the requirements listed for Phase IV. This submittal will be made well in advance of the Final Submittal to the DEPARTMENT's Plans Processing Group. This will allow time to address comments in advance of the Final Submittal.

The DEPARTMENT's Design Project Manager will determine whether the Phase IV re-submittal will include a distribution to the local governments. See Section 3.1.2 of this document for details regarding Local Government Involvement.

The CONSULTANT must submit a District 3 Change Memo to the District Preliminary Estimates Office to have PrP unlocked if changes are made during Plans Update that affect the pay-items or quantities in PrP. A copy of the District 3 Change Memo can be obtained from the DEPARTMENT's Design Project Manager or the District Preliminary Estimates Office.

The CONSULTANT must submit an electronic copy of the Plans Update Memo to describe in general terms the changes made to each sheet since the project was "shelved". A copy of the Plans Update Memo can be obtained from the DEPARTMENT's Design Project Manager.

Any design changes affecting utilities that occur after the PHASE IV or PHASE IV Resubmittal must be coordinated with the DEPARTMENT's Design Project Manager and submitted to the DEPARTMENT's Area Utility Manager so that Utility Work Schedules can be updated.

The effort for preparing a PHASE IV Re-Submittal will be negotiated as a part of the Plans Update Services. See Section 3.7 (of this scope) for more information regarding Plans Update.

FINAL PLANS SUBMITTAL TO PLANS PROCESSING:

This submittal will occur upon addressing PHASE IV (or PHASE IV RE-SUBMITTAL) comments or following the Plans Update phase and less than one (1) year spent "on the shelf".

If changes are made to the plans after the PHASE IV review that affect the pay-items or quantities in PrP, the CONSULTANT must submit a District 3 Change Memo to the District Preliminary Estimates Office to have PrP unlocked. A copy of the District 3 Change Memo can be obtained from the DEPARTMENT's Design Project Manager or

the District Preliminary Estimates Office.

The CONSULTANT must submit an electronic copy of the Plans Update Memo to describe in general terms the changes made to each sheet since the project was "shelved". A copy of the Plans Update Memo can be obtained from the DEPARTMENT's Design Project Manager.

Final Project Submittal to ERC: The CONSULTANT shall submit the following to the DEPARTMENT's Design Project Manager via ftp site, FTA, or other electronic file storage media to post to ERC for the District's Plans Processing Group's review:

- ***electronic *.pdf copy of each component of the final plans. The plans must be electronically sealed using the Digital Delivery method for the second and subsequent submittals. Not the first.***
- ***A complete Specifications Package including any Technical Special Provisions and/or incentive/disincentive cost analyses and backup documentation (when necessary)***
- ***The Project-DOCUMENTATION.zip folder***
- ***The Project-CADD.zip folder with all project design files***
- ***The Compliance Certification Checklist Report. This report shall be signed by the Engineer of Record to certify that all electronic deliverables are complete, in the proper format, and all plans and specifications are signed and sealed with the same program.***

Any design changes since the previous submittal affecting utilities must be coordinated with the DEPARTMENT's Design Project Manager and submitted to the DEPARTMENT's Area Utility Manager so that Utility Work Schedules can be updated.

The CONSULTANT will expeditiously address the comments received in ERC and be prepared to resubmit the final plans package once the review period in ERC is complete. A minimum of two (2) complete reviews using the ERC system will occur at this juncture, followed by subsequent Final Project CD/DVD submittals as necessary.

Final Project Submittal: The CONSULTANT shall submit the following to the DEPARTMENT's Design Project Manager via ftp site, FTA, or other electronic file storage media for the District's Plans Processing Group's review once the ERC reviews are complete:

- ***Final plans electronically sealed using the Digital Delivery method***
- ***A complete Specifications Package including any Technical Special Provisions and/or incentive/disincentive cost analyses and backup documentation (when necessary)***
- ***The Project-DOCUMENTATION.zip folder***
- ***The Project-CADD.zip folder with all project design files***
- ***The Compliance Certification Checklist Report. This report shall be signed by the Engineer of Record to certify that all electronic deliverables are complete, in the proper format, and all plans and specifications are signed and sealed with the same program.***

- ***All project data and its location noted in the project journal.***
- ***Electronic copy of any modeling software utilized for drainage design***

Upon addressing all comments received during the Final Plans Processing review, the CONSULTANT shall transmit electronic project files to the DEPARTMENT's Area Utility Manager as described in the requirements above.

Once all electronic project files have been finalized, the DEPARTMENT's Design Project Manager shall upload the Project-DOCUMENTATION.zip folder to Electronic Document Management System (EDMS) or Project Suite Enterprise Edition (PSEE). See FDM 111.7 for guidance on the organization and delivery of Project Documentation.

Original survey field books will be submitted to the District Survey Office as well as all other applicable deliverables required by the District's Survey CONSULTANT Checklist.

2.21 Provisions for Work

All work shall be prepared with English units in accordance with the latest editions of standards and requirements utilized by the DEPARTMENT which include, but are not limited to, publications such as:

General:

- ***Florida Administrative Codes (F.A.C.)***
- ***Rule Chapter 62-257, F.A.C., Asbestos Program***
- ***FDOT Handbook for Preparation of Specifications Package***
- ***FDOT Flexible Pavement Design Manual***
- ***FHWA Roadway Construction Noise Model (RCNM) and Guideline Handbook***
- ***FDOT Procurement Procedure 001-375-030, Compensation for CONSULTANT Travel Time on Professional Services Agreements***
- ***FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways ("Florida Greenbook")***
- ***FDOT Basis of Estimates Manual***
- ***FDOT Public Involvement Handbook***
- ***FDOT Materials Manual***
- ***Code of Federal Regulations (C.F.R.)***
- ***Title 29, Part 1910, Standard 1910.1001, Code of Federal Regulations (29 C.F.R. 1910.1001) - Asbestos Standard for Industry, U.S. Occupational Safety and Health Administration (OSHA)***
- ***AASHTO - Roadside Design Guide***
- ***FDOT Utility Accommodation Manual***
- ***FDOT Rigid Pavement Design Manual***
- ***Rule Chapter 62-302, F.A.C., Surface Water Quality Standards***
- ***FDOT Design Manual***
- ***Manual on Speed Zoning for Highways, Roads, and Streets in Florida***
- ***FDOT Pavement Type Selection Manual***
- ***40 C.F.R. 763, Subpart G - Asbestos Worker Protection, EPA***

- ***FDOT Computer Aided Design and Drafting (CADD) Manual***
- ***Florida Fish and Wildlife Conservation Commission - Standard Manatee Construction Conditions 2011***
- ***Florida Statutes (F.S.)***
- ***Chapters 20, 120, 215, 455, Florida Statutes (F.S.) - Florida Department of Business & Professional Regulations Rules***
- ***Florida's Level of Service Standards and Guidelines Manual for Planning***
- ***FDOT Standard Plans Instructions***
- ***Model Guide Specifications - Asbestos Abatement and Management in Buildings, National Institute for Building Sciences (NIBS)***
- ***Any special instructions from the DEPARTMENT***
- ***Rule Chapter 5J-17, Florida Administrative Code (F.A.C.), Standards of Practice for Professional Surveyors and Mappers***
- ***AASHTO - A Policy on Design Standards Interstate System***
- ***FDOT Project Development and Environment Manual***
- ***AASHTO - Highway Safety Manual***
- ***40 C.F.R. 61, Subpart M - National Emission Standard for Hazardous Air Pollutants (NESHAP), Environmental Protection Agency (EPA)***
- ***FDOT Project Traffic Forecasting Handbook***
- ***AASHTO - Roadway Lighting Design Guide***
- ***Quality Assurance Guidelines***
- ***40 C.F.R. 763, Subpart E - Asbestos-Containing Materials in Schools, EPA***
- ***Americans with Disabilities Act (ADA) Standards for Accessible Design***
- ***AASHTO - A Policy for Geometric Design of Highways and Streets***
- ***FDOT - Florida Roundabout Guide***
- ***FHWA - National Cooperative Highway Research Program (NCHRP) Report 672, Roundabouts: An Informational Guide***
- ***Safety Standards***
- ***Federal Highway Administration (FHWA) - Manual on Uniform Traffic Control Devices (MUTCD)***
- ***29 C.F.R. 1926.1101 - Asbestos Standard for Construction, OSHA***
- ***FDOT Standard Specifications for Road and Bridge Construction***
- ***FDOT Standard Plans***
- ***Chapter 469, Florida Statutes (F.S.) - Asbestos Abatement***
- ***Florida Department of Environmental Protection Rules***
- ***FDOT Procedures and Policies***
- ***FDOT Soils and Foundation Handbook***

Roadway:

- ***Florida's Level of Service Standards and Highway Capacity Analysis for the SHS***
- ***FDOT - Quality/Level of Service Handbook***
- ***Transportation Research Board (TRB) - Highway Capacity Manual***
- ***FDOT - Project Traffic Forecasting Handbook***
- ***FDOT - Florida Intersection Design Guide***

Permits:

- ***Chapter 373, F.S. - Water Resources***
- ***Building Permit***
- ***Florida Fish and Wildlife Conservation Commission Protected Wildlife Permits***
- ***US Fish and Wildlife Service Endangered Species Programs***

Drainage:

- ***FDOT Bridge Scour Manual***
- ***FDOT Drainage Connection Permit Handbook***
- ***FDOT Drainage Manual***
- ***FDOT Drainage Design Guide***

Survey and Mapping:

- ***Applicable Rules, Guidelines Codes and authorities of other Municipal, County, State and Federal Agencies.***
- ***FDOT Aerial Surveying Standards for Transportation Projects Topic 550-020-002***
- ***Florida Department of Transportation Surveying Handbook***
- ***Florida Department of Transportation Right of Way Procedures Manual***
- ***FDOT Surveying Procedure Topic 550-030-101***
- ***All applicable Florida Statutes and Administrative Codes***
- ***Right of Way Mapping Procedure 550-030-015***
- ***FDOT Right of Way Mapping Handbook***

Traffic Engineering and Operations and ITS:

- ***AASHTO - Guide for Development of Bicycle Facilities***
- ***FDOT Manual on Uniform Traffic Studies (MUTS)***
- ***AASHTO - An Information Guide for Highway Lighting***
- ***National Electric Safety Code***
- ***FHWA Standard Highway Signs Manual***
- ***FDOT Median Handbook***
- ***National Electrical Code***
- ***FDOT Traffic Engineering Manual***

Traffic Monitoring:

- ***FHWA Traffic Detector Handbook***
- ***FDOT General Interest Roadway Data Procedure***
- ***AASHTO AWS D1.1/ANSI Structural Welding Code - Steel***
- ***AASHTO D1.5/AWS D1.5 Bridge Welding Code***
- ***American Institute of Steel Construction (AISC) Manual of Steel Construction, referred to as "AISC Specifications"***
- ***FHWA Traffic Monitoring Guide***
- ***American National Standards Institute (ANSI) RP-8-00 Recommended Practice for Roadway Lighting***
- ***FDOT's Traffic/Polling Equipment Procedures***

Structures:

- ***Manual of Florida Sampling and Testing Methods***
- ***AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, and Interims***
- ***FDOT Bridge Load Rating Manual***
- ***AASHTO/-AWS-D1. 5M/D1.5: An American National Standard Bridge Welding Code***
- ***AASHTO LRFD Movable Highway Bridge Design Specifications and Interims***
- ***FHWA Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Specifications***
- ***FDOT Structures Design Bulletins (available on FDOT Structures website only)***
- ***AASHTO Manual for Condition Evaluation and Load and Resistance Factor Rating (LRFR) of Highway Bridges***
- ***AASHTO Guide Specifications for Structural Design of Sound Barriers***
- ***AASHTO Load and Resistance Factor Design (LRFD) Bridge Design Specifications and Interims***
- ***FDOT Structures Manual***

2.22 Services to be Performed by the DEPARTMENT

When appropriate or available, the DEPARTMENT will provide project data including:

- ***Access for the CONSULTANT to utilize the DEPARTMENT's Information Technology Resources***
- ***Any necessary title searches***
- ***Existing cross slope data for all RRR projects***
- ***All certifications necessary for project letting***
- ***Building Construction Permit Coordination (Turnpike)***
- ***Design Reports***
- ***Letters of authorization designating the CONSULTANT as an agent of the DEPARTMENT in accordance with F.S. 337.274***
- ***Available traffic and planning data***
- ***All information that may come to the DEPARTMENT pertaining to future improvements***
- ***All approved utility relocations***
- ***Regarding Environmental Permitting Services:***
- ***Landscape Opportunity Plan(s)***
- ***Engineering standards review services***
- ***Previously constructed Highway Beautification or Landscape Construction Plans***
- ***Existing right of way maps***
- ***All future information that may come to the DEPARTMENT during the term of the CONSULTANT's Agreement, which in the opinion of the DEPARTMENT is necessary for the prosecution of the work***
- ***Project utility certification to the DEPARTMENT's Central Office***
- ***All available information in the possession of the DEPARTMENT pertaining to utility companies whose facilities may be affected by the proposed construction***

- ***Phase reviews of plans and engineering documents***
- ***Systems traffic for Projected Design Year, with K, D, and T factors***
- ***Numbers for field books***
- ***All future information that may come to the DEPARTMENT pertaining to subdivision plans so that the CONSULTANT may take advantage of additional areas that can be utilized as part of the existing right of way***
- ***Preliminary Horizontal Network Control***
- ***All DEPARTMENT agreements with Utility Agency Owner (UAO)***
- ***PD&E Documents***
- ***Existing pavement evaluation report for all RRR projects***
    - ***Approval of all contacts with environmental agencies***
    - ***General philosophies and guidelines of the DEPARTMENT to be used in the fulfillment of this contract. Objectives, constraints, budgetary limitations, and time constraints will be completely defined by the Project Manager.***
    - ***Approved Permit Document when available***
    - ***Appropriate signatures on application forms***

3 PROJECT COMMON AND PROJECT GENERAL TASKS

Project Common Tasks

Project Common Tasks, as listed below, are work efforts that are applicable to many project activities, 4 (Roadway Analysis) through 36 (3D Modeling). These tasks are to be included in the project scope in each applicable activity when the described work is to be performed by the CONSULTANT.

Cost Estimates: The CONSULTANT is responsible for producing a construction cost estimate and reviewing and updating the cost estimate when scope changes occur and/or at milestones of the project. Prior to Phase II plans or completion of quantities, the DEPARTMENT's Long-Range Estimate (LRE) system will be used to produce a conceptual estimate, according to District policy. Once the quantities have been developed (beginning at Phase II plans and no later than Phase III plans) the CONSULTANT shall be responsible for inputting the category information, pay items and quantities into AASHTOWare Project Preconstruction through the use of the DEPARTMENT's Designer Interface.

Phase I - The project shall be established in PrP by Phase I (30%). The District Preliminary Estimates Office will create the project(s) in the system upon receiving a copy of the Notice to Proceed for the design contract. The District Preliminary Estimates Office will also create a version in the L.R.E. System for the CONSULTANT's use at Phase I. The CONSULTANT can request access to the assigned L.R.E. through the DEPARTMENT's Design Project Manager. For the Phase I (30%) submittal, the CONSULTANT shall submit the cost estimate using the DEPARTMENT's Long Range Estimating (L.R.E.) system. This estimate will be reviewed by the District Preliminary Estimates Office within the L.R.E. System. The Phase I (30%) L.R.E. shall be complete and ready for review at the time of the plans submittal.

Phase II - A Project Summary of Pay Items sheet shall be prepared with Phase II and

subsequent plans submittals. The Phase II (60%) submittal shall have all pay items identified with or without quantities. If quantities have not been determined at this point, the CONSULTANT shall load a quantity of "1.0". For the Phase II (60%) submittal, the CONSULTANT shall submit the cost estimate using the DEPARTMENT's Long Range Estimating (L.R.E.) system. This estimate will be reviewed by the District Preliminary Estimates Office within the L.R.E. System. The Phase II (60%) L.R.E. shall be complete and ready for review at the time of the plans submittal.

Phase III & Phase IV - At Phase III (90%) the CONSULTANT shall have all quantities loaded into PrP, with only minor changes anticipated at subsequent submittals. Within PrP, the CONSULTANT shall run a Project Edit Report for the project at Phase III and Phase IV just prior to submitting the plans to the DEPARTMENT for review. The "Project Edit Report" lists all pay items loaded in the project (by category) and identifies obsolete pay items in PrP. The complete submittal package, including the CONSULTANT's construction cost estimate, will be provided to the District Preliminary Estimates Office at Phase III (90%) and Phase IV (100%). The above shall be provided for each component set of plans (i.e., Roadway, Bridge, Signing and Marking, etc.).

Technical Special Provisions: The CONSULTANT shall provide Technical Special Provisions for all items of work not covered by the Standard Specifications for Road and Bridge Construction and the workbook of implemented modifications.

A Technical Special Provision shall not modify the Standard Specifications and implemented modifications in any way.

The Technical Special Provisions shall provide a description of work, materials, equipment and specific requirements, method of measurement and basis of payment. Proposed Technical Special Provisions will be submitted to the District Specifications Office for initial review at the time of the Phase III plans review submission to the DEPARTMENT's Project Manager. This timing will allow for adequate processing time prior to final submittal. The Technical Special Provisions will be reviewed for suitability in accordance with the Handbook for Preparation of Specification Packages. The District Specifications Office will forward the Technical Special Provisions to the District Legal Office for their review and comment. All comments will be returned to the CONSULTANT for correction and resolution. Final Technical Special Provisions shall be digitally signed and sealed in accordance with applicable Florida Statutes.

The CONSULTANT shall contact the appropriate District Specifications Office for details of the current format to be used before starting preparations of Technical Special Provisions.

Modified Special Provisions: The CONSULTANT shall provide Modified Special Provisions as required by the project. Modified Special Provisions are defined in the Specifications Handbook.

A Modified Special Provision shall not modify the first nine sections of the Standard Specifications and implemented modifications in any way. All modifications to other sections must be justified to the appropriate District and Central Specifications Offices to be included in the project's specifications package.

Field Reviews: The CONSULTANT shall make as many trips to the project site as required to obtain necessary data for all elements of the project.

Technical Meetings: The CONSULTANT shall attend all technical meetings necessary to execute the Scope of Services of this contract. This includes meetings with DEPARTMENT and/or Agency staff, between disciplines and subconsultants, such as access management meetings, pavement design meetings, local governments, railroads, airports, progress review meetings (phase review), and miscellaneous meetings. The CONSULTANT shall prepare, and submit to the DEPARTMENT's Project Manager for review, the meeting minutes for all meetings attended by them. The meeting minutes are due within five (5) working days of attending the meeting.

Quality Assurance/Quality Control: It is the intention of the DEPARTMENT that design CONSULTANTS, including their subconsultant(s), are held responsible for their work, including plans review. The purpose of CONSULTANT plan reviews is to ensure that CONSULTANT plans follow the plan preparation procedures outlined in the FDOT Design Manual, that state and federal design criteria are followed with the DEPARTMENT concept, and that the CONSULTANT submittals are complete. All subconsultant document submittals shall be submitted by the subconsultant directly to the CONSULTANT for their independent Quality Assurance/Quality Control review and subsequent submittal to the DEPARTMENT.

It is the CONSULTANT'S responsibility to independently and continually QC their plans and other deliverables. The CONSULTANT should regularly communicate with the DEPARTMENT's Design Project Manager to discuss and resolve issues or solicit opinions from those within designated areas of expertise.

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of all surveys, designs, drawings, specifications and other services furnished by the CONSULTANT and their subconsultant(s) under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all maps, design drawings, specifications, and other documentation prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan shall be one specifically designed for this project. The CONSULTANT shall submit a Quality Control Plan for approval within twenty (20) business days of the written Notice to Proceed and it shall be signed by the CONSULTANT's Project Manager and the CONSULTANT QC Manager. The Quality Control Plan shall include the names of the CONSULTANT's staff that will perform the quality control reviews. The Quality Control reviewer shall be a Florida Licensed Professional Engineer fully prequalified under F.A.C. 14-75 in the work type being reviewed. A marked up set of prints from a Quality Control Review indicating the reviewers for each component (structures, roadway, drainage, signals, geotechnical, signing and marking, lighting, landscape, surveys, etc.) and a written resolution of comments on a point-by-point basis will be required, if requested by the DEPARTMENT, with each phase submittal. The responsible Professional Engineer, Landscape Architect, or Professional Surveyor & Mapper that performed the Quality Control review will sign a statement certifying that the review was conducted and found to meet required specifications.

The CONSULTANT shall, without additional compensation, correct all errors or deficiencies in the designs, maps, drawings, specifications and/or other products and services.

Independent Peer Review: ***N/A***

Supervision: The CONSULTANT shall supervise all technical design activities.

Coordination: The CONSULTANT shall coordinate with all disciplines of the project to produce a final set of construction documents.

Project General Tasks

Project General Tasks, described in Sections 3.1 through 3.7 below, represent work efforts that are applicable to the project as a whole and not to any one or more specific project activity. The work described in these tasks shall be performed by the CONSULTANT when included in the project scope.

3.1 Public Involvement

Public involvement includes communicating to all interested persons, groups, and government organizations information regarding the development of the project. The CONSULTANT shall provide to the DEPARTMENT drafts of all Public Involvement documents (e.g., newsletters, property owner letters, advertisements, etc.) associated with the following tasks for review and approval at least ***ten (10)*** business days prior to printing and / or distribution.

FPID 219722-5 has been determined to be a Community Awareness Plan (CAP) Level 2 project with a Hybrid Public Meeting/Workshop. This type of project has general public acceptance, moderate impacts to access and a noticeable degree of traffic disruption. Examples are urban resurfacing, residential resurfacing, enhancement projects, bridge replacements, minor roadway widening, permanent access management changes, and other construction activities that require road closures.

FPID 417643-2 has been determined to be a Community Awareness Plan (CAP) Level 1 project. For CAP Level 1 projects, a brief plan must be developed for documentation purposes (see Section 3.1.1 (of this scope)). Public Information Meetings/Workshops are not required for CAP Level 1 projects.

Prior to negotiations, the CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager and Public Information Director to discuss the specific public involvement activities anticipated for these projects.

3.1.1 Community Awareness Plan

Prepare a Community Awareness Plan (CAP) for review and approval by the DEPARTMENT within 30 calendar days after receiving Notice to Proceed. The objective of the plan is to notify local governments, affected property owners, tenants, and the public of the DEPARTMENT'S proposed construction and the anticipated impact of that construction. The CAP shall address timeframes for each review and shall include tentative dates for each public involvement requirement for the project.

The CAP will also document all public involvement activities conducted throughout the project's duration. In addition to the benefits of advance notification, the process should allow the DEPARTMENT to resolve controversial issues during the design phase. This item shall be reviewed and updated periodically as directed by the DEPARTMENT throughout the life of the project.

3.1.2 Notifications

In addition to public involvement data collection, the CONSULTANT shall assist the DEPARTMENT or prepare notifications, flyers, and/or letters to elected officials and other public officials, private property owners, and tenants at intervals during plans production as identified by the DEPARTMENT. All letters and notices shall be reviewed by the ***CONSULTANT*** to ensure that they are addressed to the correct and current public officials.

The CONSULTANT shall prepare an email notification and a distribution list for plans at Phase II, Phase III, and any subsequent Phase IV re-submittal to the office(s) designated by the local government(s) and applicable regional authorities for a three-week review. The email notifications and plans will be distributed by the DEPARTMENT. The need to re-submit Phase IV Plans will depend on the duration of time spent "on the shelf" and the number of changes that have occurred since the last submittal to the Local Governments at Phase III. See Section 2.20 (of this scope) regarding Phase IV re-submittals. The Phase IV re-submittal to the Local Governments should take place well in advance of the Final Submittal to the District for Plans Processing to allow time to address comments received from the Local Governments.

Each comment or request provided by the local government shall be evaluated by the CONSULTANT and discussed with the DEPARTMENT's Design Project Manager. Responses will be prepared by the CONSULTANT for the District Consultant Project Management Engineer's signature.

All notification/invitation letters intended for physical mail-out shall be on DEPARTMENT letterhead. The CONSULTANT shall pay postage for the mail-out to property owners and will be responsible for the physical mail-out effort (printing, envelope stuffing, stamping, etc.).

The CONSULTANT must review all notices, letters, and attachments for accuracy and spelling and ensure that notices are sent to the person currently holding the public official positions. The CONSULTANT must attempt to affirm the validity of all email addresses submitted for each notification.

Examples of any of this correspondence can be made available upon request to the DEPARTMENT's Design Project Manager.

3.1.3 Preparing Mailing Lists

At the beginning of the project, The CONSULTANT shall identify all impacted property owners and tenants (within a minimum of 300 feet of the project corridor) The

CONSULTANT shall prepare a mailing list of all such entities and shall update the mailing list as needed during the life of the project.

PHASE SUBMITTAL NOTIFICATIONS:

The distribution list for the phase submittal notifications described in Section 3.1.2 will be submitted to the DEPARTMENT's Design Project Manager at Phase II, Phase III, and any subsequent Phase IV re-submittal. The distribution list shall be an MS Excel file and shall include the name, title, and email address of each intended recipient.

Mail-out to Public Officials:

- ***Public Officials who are to receive notification of projects shall include, (but not be limited to):***

County

- ***County Manager***
- ***County Public Information Director***
- ***County Commissioners***
- ***County Public Works Director***
- ***County Engineer***

City

- ***City Commission***
- ***Mayor***
- ***City Manager***
- ***Engineer / Public Work Director***

Regional

- ***Regional Planning Council/ MPO/ TPO/ TPA***

PROJECT NOTIFICATIONS (FPID 219722-5):

Project Notifications shall be prepared by the CONSULTANT in accordance with the guidance and timeframes described in Section 3.1.2.

The mailing list shall be prepared by the CONSULTANT to include all affected parties. Media in the project area will also be identified and placed on the mailing list to be used for news releases, advertisements or any concerns. The mailing list will be submitted along with the notifications/invitations to the DEPARTMENT's Design Project Manager for review and approval.

Email Notifications/Invitations to Public Officials:

- ***Public Officials who are to receive notification of projects and public meetings/workshops/hearings shall include, (but not be limited to):***

Federal/State

- ***Legislative Delegation/Congress (Federal & State)***
- ***Water Management Districts***
- ***US Post Master***
- ***Florida Highway Patrol (Major & Commander)***
- ****especially if Troop Headquarters is located in municipality***
- ***Military Installations (if within project's proximity)***

County

- ***County Manager***
- ***County Public Information Director***
- ***County Commissioners***
- ***County Public Works Director***
- ***County Engineer***
- ***County Emergency Management Director***
- ***Sheriff's Department***
- ***Sheriff's Department Public Information / Public Affairs***
- ***County Airport Director***
- ***County Seaport Director***
- ***County Public Transit System***
- ***County Schools Superintendent***
- ***Transportation Director***
- ***Fire & Rescue Departments***

City

- ***City Commission***
- ***Mayor***
- ***City Manager***
- ***Engineer / Public Work Director***
- ***City Police Chief***

Regional

- ***Merchants Association***
- ***Chamber of Commerce***
- ***Convention & Visitors Bureau***
- ***Tourist Development Regional Planning Council/ MPO/ TPO/ TPA***
- ***Local Americans with Disabilities Act (ADA)/ Pedestrian Advocacy Groups***
- ***Local Hospitals***
- ***Seaport Authority***
- ***Airport Authority***
- ***Local Colleges/Universities (if within project's proximity)***

Mail-out to Property Owners:

- ***A notification/invitation will be written and sent to all property owners, tenants, and business operators whose property, home, or business lies in whole or in part within a minimum of 300 feet of the centerline of the project. In addition, the CONSULTANT must include any businesses or neighborhoods located down side roads that may be impacted by the project. The CONSULTANT shall utilize Direct Mail Services, Tax Collector Office and/or any other source to identify and obtain the address of property owners and business operators along the project.***
- ***A notification letter will be prepared and sent to property owners, tenants, and business operators where existing, privately owned landscaping/ hardscaping/ signs/ brick pavers/ mailboxes/ etc. are expected to be impacted by construction activities. This notification shall be mailed by the CONSULTANT following the Phase II distribution.***

Mail-out to Media Outlets: To be conducted by the DEPARTMENT.

3.1.4 Median Modification Letters (Not applicable to these projects)

3.1.5 Driveway Modification Letters

The CONSULTANT shall prepare a driveway modification letter to be sent to property owners along the corridor ***where driveway modifications are proposed***. In addition, the CONSULTANT shall prepare a sketch of each proposed driveway modification for inclusion in the letter. The letters will be sent on DEPARTMENT letterhead. ***Driveway modifications will be closely coordinated with and approved by the DEPARTMENT's Design Project Manager. The letters will be on DEPARTMENT letterhead and signed by the District Design Engineer.***

The CONSULTANT shall be aware that certain proposed deviations from access management and median opening spacing standards must be presented to the District Access Management Review Committee (AMRC)(see also Sections 2.1 and 4.6).

The CONSULTANT shall pay postage for these letters and will be responsible for the physical mail-out effort (printing, envelope stuffing, stamping, etc.).

3.1.6 Newsletters (Not applicable to these projects)

3.1.7 Renderings and FlyThroughs (Not applicable to these projects)

3.1.8 PowerPoint Presentations

The CONSULTANT shall prepare PowerPoint presentations (with voiceover if requested by the DEPARTMENT's Public Information Office) for use in public meetings/hearings.

3.1.9 Public Meeting Preparations

Following the Phase II plans submittal, and typically in advance of the Phase III submittal, the CONSULTANT shall assist the DEPARTMENT in scheduling the

Hybrid Meeting for FPID 219722-5.

Tuesday and Thursday evenings are preferred. The CONSULTANT shall be aware of and avoid other scheduled FDOT Public Meetings or Hearings. The CONSULTANT shall assist the DEPARTMENT in determining when local government meetings are scheduled (MPO/TPO, County Commission, and/or City Council Meetings) and shall avoid scheduling the FDOT meeting to conflict with the local government meetings.

The CONSULTANT will investigate potential meeting sites to advise the DEPARTMENT on their suitability. The CONSULTANT will pay all costs for meeting site rentals and insurance. No DEPARTMENT meetings will be held on public school system properties. In addition, churches and religious facilities are to be considered if no other secular or municipal buildings are available. In accordance with Section 4 of Executive Order 07-126, any hotel or conference center used for hosting an FDOT Public Information Meeting/Workshop must be designated under the FDEP's Green Lodging Program. Prospective sites for the meeting shall be convenient to residents along the corridor and shall be inspected for suitability. Consideration shall be given to capacity, lighting, and other physical characteristics that may influence the selection of the site. The site shall meet ADA standards and the CONSULTANT shall provide signs to indicate the location of the available handicapped accesses.

Room size will be based on the number of mailouts. The proposed meeting site shall be presented to the DEPARTMENT for approval prior to the CONSULTANT negotiating use of the site.

In preparation for the FDOT Hybrid Meeting, the CONSULTANT shall provide:

- ***Project Information/Fact Sheets***
- ***Script or Agenda for any planned presentation (if applicable)***
- ***All necessary graphics and displays (see requirements below)***
- ***Meeting equipment set-up and teardown***
- ***Legal and/or display advertisements***

The CONSULTANT shall prepare all materials, displays, and/or wall graphics for use during the meeting. These include but are not limited to the following:

- ***Self-addressed comment forms to allow attendees to provide written comments within 10 days after the FDOT Public Information Meeting/Workshop. The DEPARTMENT's Design Project Manager shall be listed as the contact for all comments.***
- ***Sign-in sheets***
- ***At least two (2) foam boards (36"X24") (or a display similar in nature) displaying a typical section. The drawing shall be in color with computer images of automobiles, bicycles, and pedestrians occupying the designated travel areas.***
- ***At least two foam boards (36"X24") (or a display similar in nature) displaying a computer enhance photograph utilizing an existing conditions photo to reflect***

proposed conditions. For intersection projects, 2 computer-enhanced photographs showing the existing conditions and proposed improvements will be required. "Before and After" depictions of select work elements are encouraged for 3R projects as well to help demonstrate proposed changes to the public.

- ***Two (2) copies of the project in plan view. The project plan view shall be on (36"X24") foam boards or rollouts (or a display similar in nature). For projects of substantial length, projects can be rolled out on tables or placed on the wall. The photo or roll-outs shall be 1"=50', 1"=100" (or a legible scale) raster drawings, to scale aerial photos, or colored CADD drawings with the following information:***
    - ***existing right of way lines***
    - ***proposed right of way lines***
    - ***proposed pavement markings (pavement should be black or gray with the correct color of pavement markings (white or yellow)***
    - ***existing structures adjacent to the roadway (homes, businesses, etc.)***
    - ***proposed driveway and median openings***
    - ***proposed ponds designated as wet or dry***
    - ***designation of proposed signalized intersections.***

Displays and other materials prepared for Hybrid Meeting shall NOT depict the CONSULTANT's logo. Displays and materials shall only depict the DEPARTMENT's logo/seal.

<u>Mail-out Materials:</u> The CONSULTANT shall be aware that along with the mail-outs described in Section 3.1.3 (of this scope), all the above deliverables intended for mail-out must be submitted to the DEPARTMENT's Design Project Manager well in advance of the mail-out and meeting/workshop to allow time for review, approval, and signatures if necessary.

<u>Display Materials:</u> The CONSULTANT shall be aware that all the above deliverables and materials proposed to be online for the Hybrid Meeting must be presented to DEPARTMENT staff at a pre-meeting workshop for review and approval in advance of the Hybrid Meeting.

3.1.10 Public Meeting Attendance and Follow-up

The CONSULTANT shall attend public meeting(s), assist with meeting setup and take down. The CONSULTANT shall also prepare a summary of the public meeting that includes all copies of all materials shown or provided at the public meeting. The summary shall also include a listing of all written comments made during or after the meeting and responses to those written comments.

It is estimated for this project there will be ***one (1)*** Public meetings during the design.

The purpose of the FDOT Hybrid Public Information Meeting/Workshop is to present to the public the results of the detailed design for the project and receive comments on the proposed design.

The CONSULTANT shall provide all support necessary for the DEPARTMENT to hold a Hybrid Public Information Meeting/Workshop. The CONSULTANT is expected to actively participate in all portions of the meeting. Conducting the meeting will take knowledgeable CONSULTANT staff and will require enough staff members to handle the crowd anticipated for the meeting.

The CONSULTANT shall also provide office support personnel to ensure attendees register (CONSULTANT must provide a sign-in sheet with space available for the person's name, address, and telephone number).

Briefing of the DEPARTMENT Design staff by the CONSULTANT (who will be on hand during the meeting) will be done twice. The first time is to be at least seven days prior to the meeting and the second time will be just before the meeting to make sure the staff is up to date on the project and understands the project well enough to discuss it with the public and to answer questions. The CONSULTANT shall assist the DEPARTMENT's Design Project Manager with ensuring that the appropriate DEPARTMENT staff are invited and included in the pre-Public Information Meeting/Workshop briefings. This will include (at a minimum) representatives from the Public Information Office and the Design Office. In addition, the DEPARTMENT's Transportation Planning Area's Urban Liaisons shall be notified of any briefings and public meetings. If the project includes a right of way acquisition phase, the Right of way Acquisition Administrator shall also be notified of the briefing.

FDOT Public Information Meetings/Workshops are held between the 60% - 90% plans stage. Depending on the amount of time spent "on-the-shelf", an additional meeting may be required six (6) months prior to letting, however, staff hours for this effort will be negotiated at the appropriate time.

The meeting format will be informal allowing the public to come and go. The meeting will be scheduled for one (1) hour in length. Although the meeting is scheduled for a one (1) hour period, the CONSULTANT staff will be available for some time before and/or after those set hours in order to maintain public contact, etc.

Proper signage using display boards no smaller than 2'X2' will be displayed near and on the site directing participants to the meeting place. In addition, the site must meet ADA standards and the CONSULTANT shall provide signs to indicate the location of the available handicapped accesses. A "Title VI" board will be required at the meeting site. The CONSULTANT shall coordinate with the DEPARTMENT to attain "Title VI" board requirements.

If issues are identified by participants at the meeting, their significance will be determined by the CONSULTANT and the DEPARTMENT; i.e., are the issues valid enough for further consideration or do they have elements which may require further consideration.

Addressing the issues and responding to them is also an integral part of the meeting

process. This is to be accomplished by the CONSULTANT. The CONSULTANT shall prepare responses to the issues on DEPARTMENT letterhead to be signed by the District Consultant Project Management Engineer. The CONSULTANT shall pay for the postage. The DEPARTMENT shall review and approve all response letters prior to mailing. Elected Public Officials require a 48-hour response time and will require signature by the District Secretary.

3.1.11 Other Agency Meetings

In addition to scheduled public meetings the CONSULTANT may be required to participate in meetings with the local governing authorities and/or Metropolitan Planning Organization (MPO). It is estimated for these projects there will be at least one (1) meeting with local governing authorities and/or MPOs during the design. DEPARTMENT staff will conduct all meetings and presentations made for Local Governments and MPOs/TPOs. The CONSULTANT shall prepare the needed presentation materials as directed by the DEPARTMENT's Design Project Manager. The CONSULTANT shall be responsible for participating in the meetings, as well as note taking and the preparation of meeting summaries/minutes.

3.1.12 Website

The CONSULTANT shall create project specific .shtm files for each Public Information Meeting/Workshop and Public Hearing to be posted by the DEPARTMENT to the NWFLRoads.com ***website. Templates and instructions can be obtained through the DEPARTMENT's Design Project Manager.***

These web files shall be submitted in draft form to the DEPARTMENT's Design Project Manager at the time of the pre-meeting workshop with DEPARTMENT staff that is referenced in Section 3.1.9 (of this scope). Once all materials to be displayed at the Public Meeting/Workshop or Public Hearing have been approved by the DEPARTMENT, the web files shall be updated if necessary and resubmitted at least seven days prior to the Public Meeting/Workshop or Public Hearing.

3.2 Joint Project Agreements (Not applicable to these projects)

There have been no Joint Project Agreements (JPA's) identified at this time.

Should the need for a JPA become a requirement, a supplemental amendment will be negotiated for these services. The CONSULTANT services may include all coordination, meetings, etc. required to include JPA plans (prepared by others) in contract plans package including all necessary revisions/modifications to contract documents to ensure plans compatibility.

3.3 Specifications & Estimates

3.3.1 Specifications Package Preparation (*To be prepared during plans update)*

The CONSULTANT shall prepare and provide a specifications package in accordance with the DEPARTMENT'S Procedure Topic No. 630-010-005 Specifications Package

Preparation and the Specifications Handbook. The CONSULTANT shall provide the DEPARTMENT names of at least two team members who have successfully completed the Specifications Package Preparation Training and will be responsible for preparing the Specifications Package for the project. The Specifications Package shall be prepared using the DEPARTMENT's Specs on the Web application. The CONSULTANT shall be able to document that the procedure defined in the Handbook for the Preparation of Specifications Packages is followed, which includes the quality assurance/quality control procedures. The specifications package shall address all items and areas of work and include any Mandatory Specifications, Modified Special Provisions, and Technical Special Provisions.

The specifications package must be submitted for review to the District Specifications Office at least 30 days prior to the contract package to Tallahassee or District due date, or sooner if required by the District Specifications Office. This submittal does not require signing and sealing and shall be coordinated through the District's Project Manager. The CONSULTANT shall coordinate with the DEPARTMENT on the submittal requirements, but at a minimum shall consist of (1) the complete specifications package, (2) a copy of the marked-up workbook used to prepare the package, and (3) a copy of the final project plans.

Final submittal of the specifications package must occur at least 10 working days prior to the contract package to Tallahassee due date. This submittal shall be digitally signed, dated, and sealed in accordance with applicable Florida Statutes.

3.3.2 Estimated Quantities Report Preparation

The CONSULTANT shall prepare an Estimated Quantities (EQ) Report in accordance with FDM 902. Includes loading category information, pay items, and quantities into Designer Interface for AASHTOWare Project Preconstruction (PrP), QA/QC efforts associated with AASHTOWare PrP and the EQ Report.

Quantities shall be included in an Estimated Quantities Report per FDM 902.

The CONSULTANT shall be responsible for inputting pay items and quantities into the DEPARTMENT's Project Preconstruction (PrP) System through the use of the DEPARTMENT's Designer Interface.

Phase I - The project shall be established in PrP by Phase I (30%). The District Preliminary Estimates Office will create the project(s) in the system upon receiving a copy of the Notice to Proceed for the design contract.

Phase II - A Summary of Pay Items sheet shall be prepared with Phase II and subsequent plans submittals. The Phase II (60%) submittal shall have all pay items identified with or without quantities. If quantities have not been determined at this point, the CONSULTANT shall load a quantity of "1.0".

Phase III & Phase IV - At Phase III (90%) the CONSULTANT shall have all quantities loaded into PrP, with only minor change anticipated at subsequent submittals. Within PrP, the CONSULTANT shall run a Project Edit Report for the

project at Phase III and Phase IV just prior to submitting the plans to the DEPARTMENT for review. This program outputs invalid pay items that may be erroneously loaded for a project. The above shall be provided for each component set of plans (i.e., Roadway, Bridge, Signing and Marking, etc.).

3.4 Contract Maintenance and Project Documentation

Contract maintenance includes project management effort for complete setup and maintenance of files, electronic folders and documents, developing technical monthly progress reports and schedule updates. Project documentation includes the compilation and delivery of final documents, reports or calculations that support the development of the contract plans; includes uploading files to Electronic Document Management System (EDMS) or Project Suite Enterprise Edition (PSEE).

3.5 Value Engineering (Multi-Discipline Team) Review (Not applicable to these projects)

3.6 Prime Consultant Project Manager Meetings

Includes only the Prime Consultant Project Manager's time for travel and attendance at Activity Technical Meetings and other meetings listed in the meeting summary for Task 3.6 on tab 3 Project General Task of the staff hour forms. Staff hours for other personnel attending Activity Technical Meetings are included in the meeting task for that specific Activity.

3.7 Plans Update

The effort needed for Plans Update services will vary from project to project, depending on size and complexity of the project, as well as the duration of time spent "on the shelf".

Specific services will be negotiated as necessary as a contract amendment.

Staff hours negotiated for this task during the initial staff hour and fee submittal will include efforts necessary to kick-off Plans Update Services due to an accelerated schedule. It is recommended that the CONSULTANT coordinate with the DEPARTMENT's Contract Manager to differentiate the staff hours for the Plans Update effort in the Automated Fee Proposal (AFP) from the Basic Services effort. Staff hours for the remainder of the anticipated Plans Update Services will be negotiated following Basic Services and at the time that the plans come "off the shelf".

The CONSULTANT shall perform engineering analyses and/or make revisions to original plans and documents, as requested by the DEPARTMENT, to reflect additions, deletions and/or modifications prior to and subsequent to letting. The CONSULTANT shall be aware that minor modifications and/or updates to the original plans are to be expected. These minor refinements shall not be a basis for any payment under the Plans Update supplemental amendment.

3.8 Post-Design Services

Post-Design Services may include, but not limited to, meetings, construction assistance,

plans revisions, shop drawing review, survey services, as-built drawings, and load ratings. Specific services will be negotiated as necessary as a contract amendment.

Post-Design Services are not intended for instances of CONSULTANT errors or omissions.

Staff hours and fees for Post Design Services will be submitted and negotiated post-letting and in advance of the Pre-Construction Conference. All Phase 32 funds (Basic Services and Plans Update Services) shall be expended or released prior to initiating Post Design Services (Phase 62).

Identifying the effort needed for Post Design Services will vary significantly from project to project depending on size and complexity of the project. The approach described herein assists the DEPARTMENT in determining an initial estimate of the work effort needed for the Engineer of Record (EOR) to support the DEPARTMENT in the construction of a project.

Post Design Services include Construction Assistance and Review of Shop Drawings as noted below. In addition, these services are included for the CONSULTANT to attend and provide information at the Pre-Construction Conference. Subsequent construction field meetings are to be attended as required. The frequency of meetings shall be based on the complexity of the project and as directed by the DEPARTMENT's Design Project Manager.

The EOR will be required to respond to any request from the CONTRACTOR within 24 hours. This does not mean that the issue will be resolved; it simply means that the EOR has received the request, states an immediate course of action, and begins the communication process.

The activities associated with Post Design Services can be characterized as the following:

<u>Meetings</u>: The EOR is expected to attend all pre-construction meetings as well as those regularly scheduled meetings throughout the construction phase when deemed necessary by the DEPARTMENT's Construction Project Manager.

<u>Construction Assistance</u>: This includes responses to Requests for Information (RFI), interpretation of construction plans and documents, and engineering solutions to changed conditions encountered in the field. Site visits shall be made by the EOR CONSULTANT when agreed upon with the DEPARTMENT's Construction Project Manager. The CONSULTANT shall provide to the DEPARTMENT qualified representation during the construction phase to address issues concerning the intent and interpretation of the construction contract plans and documents prepared in the work. From time to time during construction the CONSULTANT may be requested by the DEPARTMENT or its designated representative to review CONTRACTOR proposed field changes or to respond with a recommended solution to remedy particular field situations not covered by the plans and specifications

<u>Plan Revisions</u>: This includes effort required to provide revised plan sheets reflecting any changes made during the Right of Way Acquisition or Construction phases of a

project. During Right of way or Construction phases, the CONSULTANT may be requested by the DEPARTMENT to review proposed field changes or to respond with a recommended solution to remedy particular field situations not covered by the plans and specifications.

Shop Drawing Review: This includes review of shop drawings and erection plans for all components supplied by the CONTRACTOR and required by the bid documents. For all independently supported sign structures of which the CONTRACTOR is responsible, the CONSULTANT will review and check all the foundation, sign structure design, and shop drawings submitted by the CONTRACTOR. Shop drawing reviews shall be performed by the CONSULTANT in accordance with the Standard Specifications for Road and Bridge Construction.

Load Ratings: Projects involving bridges typically have the load rating done during the design phase work. If the as-built bridge complies with the bid documents, the EOR should be willing to certify the load rating performed during design is adequate for the as-built condition of the bridge. However, if the as-built bridge was built in a modified or altered condition from the bid documents, an updated load rating may be required. Therefore, during construction, the EOR may be asked to perform an updated load rating based on the as-built condition of the bridge. As an aid in the negotiations the Structures Design Office has established guidelines for the development of staff-hours for load rating various bridge types.

Post design services may also include:

- ***Reestablishment of the original survey control just prior to construction (Refer to Section 5-7.1 of the Standard Specifications for Road and Bridge Construction).***
- ***Flagging R/W for acquisition***
- ***Monumentation of the R/W after construction is complete for projects with right of way acquisition***
- ***Comprehensive utility coordination and conflict resolution during construction.***

Note: All services will be agreed upon by the DEPARTMENT's Construction Project Manager and approved by the DEPARTMENT's Design Project Manager.

The CONSULTANT shall submit a "Post Design Services Status Report" in *.xlsx format with every invoice during this phase. A blank example of this report can be provided by the DEPARTMENT's Design Project Manager.

3.9 Digital Delivery

The CONSULTANT shall deliver final contract plans and documents in digital format. The final contract plans and documents shall be digitally signed and sealed files delivered to the DEPARTMENT on acceptable electronic media, as determined by the DEPARTMENT.

3.10 Risk Assessment Workshop (Not applicable to these projects)

3.11 Railroad, Transit and/or Airport Coordination

For FPID 219722-5, coordination with StarMetro will be required for bus routes and stops and for relocation of the existing bus bay at Brittany Boulevard.

3.11.1 Aeronautical Evaluation (Not applicable to these projects)

3.12 Landscape and Existing Vegetation Coordination (Not applicable to these projects)

3.13 Other Project General Tasks (Not applicable to these projects)

4 ROADWAY ANALYSIS

The CONSULTANT shall analyze and document Roadway Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

4.1 Typical Section Package

The CONSULTANT shall prepare a Typical Section Package.

The CONSULTANT shall provide an approved signed and sealed Typical Section Package to be submitted to the DEPARTMENT for review and concurrence prior to the Phase I plans submittal date. This package shall include the following:

Transmittal Letter, Location Map(s), Typical Section(s), Project Control Sheet(s)

4.2 Pavement Type Selection Report (Not applicable to these projects)

4.3 Pavement Design Package

The Pavement Condition Survey (including coring, testing, and preparing the report) will be provided by the CONSULTANT as directed in Section 35.22 of this Scope of Services.

The DEPARTMENT will be responsible for the Pavement Design.

4.4 Cross Slope Correction

Includes the effort necessary to review the existing cross slopes and the need for overbuild with the District Construction Office and the District Bituminous Engineer and to prepare needed overbuild details, notes, and tables.

<u>As early as possible</u>, the collected survey data along this project shall be analyzed by the CONSULTANT to determine if minimum and maximum cross slope requirements are met throughout the project limits. Once the determination is made that cross slope correction will be implemented, the CONSULTANT must determine if any additional survey is required to provide an adequate design and accurate quantities. The CONSULTANT will hold a coordination meeting with the DEPARTMENT's Design Project Manager, the District Design Office, the District Materials Office, and the District Survey Office to determine how much additional survey is required and what is

the most economical method of obtaining the additional data. The CONSULTANT shall then review the cross sections with the District Construction Office and the District Bituminous Engineer to determine the method of correction (variable depth milling or overbuild) and the details/tables required. A proposed design for cross slope correction must be included in the Phase II Plans.

4.5 Horizontal/Vertical Master Design Files

The CONSULTANT shall design the geometrics using the Standard Plans that are most appropriate with proper consideration given to the design traffic volumes, design speed, capacity and levels of service, functional classification, adjacent land use, design consistency and driver expectancy, aesthetics, existing vegetation to be preserved, pedestrian and bicycle concerns, ADA requirements, Safe Mobility For Life Program, access management, PD&E documents and scope of work. The CONSULTANT shall also develop utility conflict information to be provided to project Utility Coordinator in the format requested by the DEPARTMENT.

4.6 Access Management

The CONSULTANT shall incorporate access management standards for each project in coordination with DEPARTMENT staff. The CONSULTANT shall review adopted access management standards and the existing access conditions (interchange spacing, signalized intersection spacing, median opening spacing, and connection spacing). Median openings that will be closed, relocated, or substantially altered shall be shown on plan sheets and submitted with supporting documentation for review with the first plans submittal.

The degree of application shall be determined by the CONSULTANT in agreement with the DEPARTMENT's Design Project Manager after taking into consideration the effort of work as well as whether the project is located on an FIHS (or SIS) corridor. Access management standards shall be implemented on all new construction or widening projects located on the FIHS (or SIS) corridor. Along non-FIHS corridors (or SIS), access management standards shall be applied on all multi-lane reconstruction projects or projects affecting the roadway classification. However, the degree of implementation shall be carefully considered for RRR projects. For those types of projects, access management standards should be more location/site specific. Access Management considerations should be developed after review of historic crash data for specific locations along the roadway. When access management criteria are applied, the CONSULTANT shall review adopted access management standards and the existing access conditions (interchange spacing, signalized intersection spacing, median opening spacing, and connection spacing). Median openings proposed to be closed, relocated, or substantially altered shall be shown on plan sheets and submitted with supporting documentation at the DEPARTMENT's first review (Phase I or Phase II) of the plans submittal.

The CONSULTANT shall be aware that certain proposed deviations from access management and median opening spacing standards must be presented to the District Access Management Review Committee (AMRC) (see also Sections 2.1 and 3.1.4). At a minimum, access management, driveway, and median opening issues not resolved in the

District's staff level process, as well as proposed full movement median openings not meeting the spacing standards in Rule Chapter 14-97, F.A.C by a threshold of 10% or more shall be taken to the AMRC for review.

Unused/nonfunctional driveways may need to be replaced with curb and gutter when future use of the driveway is not feasible. The CONSULTANT will be responsible for notifying property owners in writing prior to altering or removing driveways. The CONSULTANT shall coordinate this activity with the DEPARTMENT's Design Project Manager prior to notifying the property owners. The CONSULTANT's notification will be via a prepared letter, on FDOT letterhead, requesting permission to alter or remove any driveways as appropriate. The DEPARTMENT's Design Project Manager or District Consultant Project Management Engineer will review and approve/reject the proposed closures and will ultimately sign any closure letter(s) to be sent to property owners. Driveway widths should be evaluated to determine if improvements are warranted to provide better refuge for pedestrians on the sidewalk or to improve safety at intersections. The design should comply with Rule 14-96, Connection Permit Applications, and Rule 14-97, Access Management.

For FPID 417643-2, the CONSULTANT shall evaluate the need and location of permanent, official use crossovers.

The addition of permanent crossovers will require approval and/or coordination with the DEPARTMENT, the Florida Highway Patrol (FHP), and the Federal Highway Administration (FHWA). The design and location of crossovers will be included in the plans set and will be according to the FDOT Design Standards. Once the CONSULTANT has identified the proposed locations for the crossovers, a meeting will be held with the District Consultant Project Management Engineer for review. Once locations have been reviewed and approved at the District level, the CONSULTANT shall first review the plan with FHP (and document coordination efforts) before submitting to FHWA for approval.

The removal of permanent crossovers will follow the same process described above with the addition of a review by the Local Emergency Responders prior to the transmittal to FHWA.

Temporary crossovers (for use during construction) shall be coordinated with and approved by the DEPARTMENT but do not require coordination with other agencies.

4.7 Roundabout Final Design Analysis (Not applicable to these projects)

4.8 Cross Section Design Files (Not applicable to these projects)

See Section 36, 3D Modeling.

4.9 Temporary Traffic Control Plan (TTCP) Analysis

The CONSULTANT shall design a safe and effective TTCP to move vehicular and pedestrian traffic during all phases of construction. The design shall include construction phasing of roadways ingress and egress to existing property owners and businesses,

routing, signing and pavement markings, and detour quantity tabulations, roadway pavement, drainage structures, ditches, front slopes, back slopes, drop offs within clear zone, transit stops, and traffic monitoring sites. Special consideration shall be given to the construction of the drainage system when developing the construction phases. Positive drainage must be maintained at all times. The design shall include construction phasing of roadways to accommodate the construction or relocation of utilities when the contract includes Joint Project Agreements (JPAs).

The CONSULTANT shall investigate the need for temporary traffic signals, temporary highway lighting, detours, diversions, lane shifts, and the use of materials such as sheet piling in the analysis. The Traffic Control Plan shall be prepared by a certified designer who has completed training as required by the DEPARTMENT. Before proceeding with the TTCP, the CONSULTANT shall meet with the appropriate DEPARTMENT personnel. The purpose of this meeting is to provide information to the CONSULTANT that will better coordinate the Preliminary and Final TTCP efforts.

The CONSULTANT shall consider the local impact of any lane closures or alternate routes. When the need to close a road is identified during this analysis, the CONSULTANT shall notify the DEPARTMENT's Project Manager as soon as possible. Proposed road closings must be reviewed and approved by the DEPARTMENT. Diligence shall be used to minimize negative impacts by appropriate specifications, recommendations or plans development. Local impacts to consider will be local events, holidays, peak seasons, detour route deterioration and other eventualities. CONSULTANT shall be responsible to obtain local authorities permission for use of detour routes not on state highways. ***The Temporary Traffic Control Plan shall be prepared by a certified designer who has completed training as required by the DEPARTMENT. Before proceeding with the TTCP, the CONSULTANT shall meet with the appropriate DEPARTMENT personnel. The purpose of this meeting is to provide information to the CONSULTANT that will better coordinate the Preliminary and Final TTCP efforts.***

For projects with TTCP Levels of II or III, the CONSULTANT shall be prepared to provide materials for and participate in a Temporary Traffic Control Plans (TTCP) Workshop. The DEPARTMENT will submit the project's Temporary Traffic Control Plans for an external peer review at Phase II. Following this review, the DEPARTMENT's Design Project Manager will schedule the TTCP Workshop.

Materials to be provided by the CONSULTANT to facilitate the TTCP Workshop shall include, but not be limited to the following (in no particular order):

- ***Plan view aerial roll plot of each traffic control phase involving a lane shift with side streets and businesses labeled***
- ***Traffic control typical sections***
- ***The most recent set of construction plans***

The effort associated with attending this workshop shall be included in Section 4.22 of this scope.

The CONSULTANT shall conduct a Lane Closure Analysis to determine work

conditions when no lane closures will be allowed.

The CONSULTANT shall consider the local impact of any lane closures or alternate routes. When the need to close a road is identified during this analysis, the CONSULTANT shall notify the DEPARTMENT's Project Manager as soon as possible. Proposed road closings must be reviewed and approved by the DEPARTMENT. Diligence shall be used to minimize negative impacts by appropriate specifications, recommendations or plans development. Local impacts to consider will be local events, holidays, peak seasons, detour route deterioration and other eventualities. The CONSULTANT shall be responsible for obtaining local authorities permission for use of detour routes not on state highways.

4.10 Master TTCP Design Files

The CONSULTANT shall develop master TTCP files showing each phase of the TTCP. This includes all work necessary for designing lane configurations, diversions, lane shifts, signing and pavement markings, temporary traffic control devices, and temporary pedestrian ways.

4.11 Selective Clearing and Grubbing (Not applicable to these projects)

4.12 Tree Disposition Plans (Not applicable to these projects)

4.13 Design Variations and Exceptions

The CONSULTANT shall prepare the documentation necessary to gain DEPARTMENT approval of all appropriate Design Variation Memorandums, Formal Design Variations and/or Design Exceptions.

A Project Design Variation Memorandum (FDM Form 122-B) shall be prepared to document all non-controlling design elements for a project that do not meet DEPARTMENT criteria. Those elements requiring a more detailed analysis, as per FDM Section 122.2, shall be submitted as Formal Design Variations or Design Exceptions.

4.14 Design Report

The CONSULTANT shall prepare all applicable report(s) as listed in the Project Description section of this scope, including the ADA Survey Report. Reports are to be delivered as a signed and sealed pdf file.

ADA Survey Report: This task shall include the effort to prepare the ADA Survey Report for FPID 219722-5. This report will provide photographic and tabular documentation of the existing pedestrian features (sidewalk, curb ramps, bus stops, pedestrian signal/detectors, etc.). In addition, the CONSULTANT shall review all legs of all sideroad intersections (signalized and unsignalized) to determine if pedestrian signals and/or crosswalks are needed. The report shall identify the deficiencies and make recommendations for improvement. The CONSULTANT will be responsible for contacting the District Bike/Ped Coordinator, ADA Coordinator, Area Maintenance Office and the District Traffic Operations Office to determine if any project specific pedestrian access or safety related complaints have been received. The ADA Survey

Report will be required with the Phase I submittal.

4.15 Quantities for EQ Report

The CONSULTANT shall develop accurate pay items, quantities and the supporting documentation, including construction days when required. Quantities shall be included in an Estimated Quantities Report per Section 3.3.2.

4.16 Cost Estimate

The CONSULTANT shall be responsible for producing a construction cost estimate and reviewing and updating the cost estimate when scope changes occur and/or at milestones of the project.

Phase I - For the Phase I (30%) submittal, the CONSULTANT shall submit the cost estimate using the DEPARTMENT's Long Range Estimating (L.R.E.) system.

Phase II - For the Phase II (60%) submittal, the CONSULTANT shall submit the cost estimate using the DEPARTMENT's Long Range Estimating (L.R.E.) System.

Phases III & IV - The complete submittal package, including the CONSULTANT's construction cost estimate, will be provided to the District Preliminary Estimates Office at phases III (90%) and IV (100%). The above shall be provided for each component set of plans (i.e., Roadway, Bridge, Signing and Marking, etc.).

4.17 Technical Special Provisions and Modified Special Provisions (Not applicable to these projects)

4.18 Other Roadway Analyses

For FPID 219722-5, the CONSULTANT shall evaluate the relocation of the StarMetro bus bay south of Brittany Boulevard to provide a northbound right turn lane.

4.19 Field Reviews

4.20 Monitor Existing Structures (For FPID 219722-5 only)

The CONSULTANT shall perform field observations to visually identify existing structures within the project limits which may require settlement, vibration or groundwater monitoring by the CONTRACTOR during construction in accordance with FDM Chapter 307. The CONSULTANT shall identify the necessary pay items to be included in the bid documents to monitor existing structures.

Optional Services (may be negotiated at a later date if needed): The CONSULTANT shall coordinate with and assist the geotechnical engineer and/or structural engineer to develop mitigation strategies (when applicable).

4.21 Technical Meetings

This task includes effort for (but is not limited to) the following meetings:

***Production Survey Meeting**: This task includes the effort for the CONSULTANT to attend the Production Survey Meeting as described in Section 2.10.*

***Cross Slope Correction Meeting**: This task includes efforts associated with the Cross Slope Correction Meeting referenced in Section 2.1 and Section 4.4. The CONSULTANT will coordinate the scheduling, format and materials necessary with the DEPARTMENT's Design Project Manager.*

***Pre Phase I (30%) Review Workshop:** This workshop will be held with DEPARTMENT personnel for presenting the CONSULTANT's intended approach to the projects. Specifically, recommended lane width modifications, turn lane lengths, relocation of the bus bay and any other improvements being proposed. The CONSULTANT will be expected to document names/titles of those in attendance as well as all pertinent discussions and decisions from the meeting. Upon DEPARTMENT approval of the recommendations, the project will progress to the Design Phase.*

***Phase I (30%) Estimate Review Workshop**: This workshop will be held with DEPARTMENT personnel to discuss the Phase I construction estimate and plans. The CONSULTANT should be prepared to discuss items of work that could significantly impact the construction estimate and answer questions related to the Phase I construction estimate. The CONSULTANT will coordinate the scheduling, format, and materials necessary with the DEPARTMENT's District Estimates Manager.*

***Post Phase II (60%) Review Workshop:** These workshops are typically held with DEPARTMENT Area Operations personnel in conjunction with the Utility Design Meeting (see section 7.9). The workshops take place at a location appropriate for the project that will allow for a same-day project site visit. The workshops may consist of a Project Briefing, Project Design Review Workshop, and a Field Review; however, the format and need for the meeting will depend on the project's complexity and the CONSULTANT's familiarity with the District's policies and procedures. The workshop will be co-chaired by the CONSULTANT and the DEPARTMENT's Design Project Manager. The DEPARTMENT's Area Utility Manager will chair and take minutes of the utility coordination segment of the workshop.*

***TTCP Workshop:** For FPID 219722-5, the CONSULTANT shall attend an TTCP Workshop to present the Temporary Traffic Control Plans to the DEPARTMENT. This workshop will be scheduled by the DEPARTMENT's Design Project Manager to occur at some point following the Phase II plans review. The effort to prepare necessary workshop materials shall be included in Section 4.10.*

4.22 Quality Assurance/Quality Control

4.23 Independent Peer Review (Not applicable to these projects)

4.24 Supervision

4.25 Coordination

5 ROADWAY PLANS

The CONSULTANT shall prepare Roadway, TTCP, Utility Adjustment Sheets, plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction.

On some projects, traffic monitoring sites may have to be included. The CONSULTANT shall be responsible for loading all quantities for the installation and/or removal of a traffic monitoring site(s) and showing the location of the site(s) on the Key Sheet and plan sheets (as applicable). The DEPARTMENT shall be responsible for providing the location to the CONSULTANT.

Contamination - All underground fuel tanks and monitoring wells within the proposed right of way are to be located and shown/tabulated in the plans. All piping and pumps in association with the tanks shall also be located and identified by the survey. The CONSULTANT shall relay to the DEPARTMENT any findings of contaminated soil, monitoring wells, or any features (particularly springs or sinks) relating to contamination or hazardous material.

5.1 Key Sheet

5.2 Typical Section Sheets

5.2.1 Typical Sections

5.2.2 Typical Section Details

5.3 General Notes/Pay Item Notes

5.4 Project Layout

5.5 Plan/Profile Sheet (Not applicable to these projects)

5.6 Profile Sheet (Not applicable to these projects)

5.7 Plan Sheet

5.8 Special Profile

5.9 Back-of-Sidewalk Profile Sheet

5.10 Interchange Layout Sheet

5.11 Ramp Terminal Details (Plan View)

5.12 Intersection Layout Details

5.13 Special Details (Not applicable to these projects)

5.14 Cross-Section Pattern Sheets (Not applicable to these projects)

5.15 Roadway Soil Survey Sheets

5.16 Cross Sections

5.17 Temporary Traffic Control Plan Sheets

5.18 Temporary Traffic Control Cross Section Sheets (Not applicable to these projects)

5.19 Temporary Traffic Control Detail Sheets

5.20 Utility Adjustment Sheets

5.21 Selective Clearing and Grubbing Sheets(Not applicable to these projects)

5.22 Tree Disposition Plan Sheets (Not applicable to these projects)

5.23 Project Control Sheets

The Engineer of Record will create the Project Control sheet from data extracted from the project survey and sign and seal the Project Control sheet.

5.24 Environmental Detail Sheets (Not applicable to these projects)

5.25 Utility Verification Sheets (SUE Data)

5.26 Quality Assurance/Quality Control

5.27 Supervision

6a DRAINAGE ANALYSIS

The CONSULTANT shall analyze and document Drainage Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

The CONSULTANT shall field inspect the project for the structural condition of all side drains, cross drains, and drainage under the roadway area and make recommendations concerning repairs, extensions, replacement/upgrade, or removal of such facilities. Drainage structures shall be assessed and designed to meet clear zone requirements within existing right of way or a Design Variation or Exception must be obtained. Culverts that warrant replacement shall be itemized and detailed as appropriate in the construction plans. The CONSULTANT shall contact and document discussions with the DEPARTMENT's local Maintenance Office (or the local maintaining agency for off-system projects) regarding historical drainage problems in the project areas.

The CONSULTANT shall develop a drainage map based upon available information and field reviews. The available information should consist of old Florida Department of Transportation Plans, USGS Quadrangles, USGS Studies, NWFWMD Studies, FEMA Studies, Local Government Agency Studies or Contours, etc. The drainage map should be included in the Hydraulic Design Study. The Hydrology should be by regional or local regression equations, or by the rational method. An assumed velocity should not be used. The CONSULTANT shall document the Drainage Design in the Drainage Design

Study (23CFR650A). The Design Study should show that the design requirements of the DEPARTMENT and FHWA have been met.

The CONSULTANT will consider alternate culvert materials in accordance with the DEPARTMENT's Drainage Manual.

Prior to Phase II (60%) plans submittal, the CONSULTANT shall meet with the District Drainage Engineer. The purpose of this meeting is to provide information to the CONSULTANT that will better coordinate the Preliminary and Final Drainage Design efforts.

The CONSULTANT shall provide the DEPARTMENT's District Drainage Engineer a signed and sealed Drainage Design Study. The study shall include a narrative description of existing and proposed drainage structures, conditions, and facilities, and a listing of environmental regulatory permits required. All hydrologic and hydraulic drainage computations for the design presented in the plans shall be included along with supporting design information such as drainage maps, geotechnical data (such as soil borings and permeability tests), and correspondence that directly affected design decisions.

The CONSULTANT shall coordinate fully with the appropriate permitting agencies and the DEPARTMENT's staff. All activities and submittals should be coordinated through the DEPARTMENT's Project Manager. The work will include the engineering analyses for any or all of the following:

6a.1 Drainage Map Hydrology

Create a (pre- and/or post-condition) working drainage basin map to be used in defining the system hydrology. This map shall incorporate drainage basin boundaries, existing survey and/or LiDAR and field observations, as necessary, to define the system. Basin delineations shall also include any existing collection systems in a logical manner to aid in the development of the hydraulic model. Include coordination hours needed to convey drainage hydrologic features onto produced drainage maps.

6a.2 Base Clearance Calculations (Not applicable to these projects)

6a.3 Pond Siting Analysis and Report (Not applicable to these projects)

6a.4 Design of Cross Drains

Analyze the hydraulic design and performance of cross drains. Check existing cross drains to determine if they are structurally sound and can be extended. Document the design as required. Determine and provide flood data as required.

6a.5 Design of Ditches

Design roadway conveyance and outfall ditches. This task includes capacity calculations, longitudinal grade adjustments, flow changes, additional adjustments for ditch convergences, selection of suitable channel lining, design of side drain pipes, and documentation. (Design of linear stormwater management facilities in separate task.)

6a.6 Design of Stormwater Management Facility (Offsite or Infield Pond) (Not applicable to these projects)

6a.7 Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds) (Not applicable to these projects)

6a.8 Design of Floodplain Compensation (Not applicable to these projects)

6a.9 Design of Storm Drains

Delineate contributing drainage areas, determine runoff, inlet locations, and spread. Calculate hydraulic losses (friction, utility conflict and, if necessary, minor losses). Determine design tailwater and, if necessary, outlet scour protection.

6a.10 Optional Culvert Material

Determine acceptable options for pipe materials using the Culvert Service Life Estimator.

6a.11 French Drain Systems (Not applicable to these projects)

6a.12 Drainage Wells (Not applicable to these projects)

6a.13 Drainage Design Documentation Report

Compile drainage design documentation into report format. Include documentation for all the drainage design tasks and associated meetings and decisions, except for stand-alone reports, such as the Pond Siting Analysis Report and Bridge Hydraulics Report.

6a.14 Bridge Hydraulic Report (Not applicable to these projects)

6a.15 Temporary Drainage Analysis (Not applicable to these projects)

6a.16 Quantities for EQ Report

The CONSULTANT shall determine pay items and quantities and the supporting documentation.

6a.17 Cost Estimate

Prepare cost estimates for the drainage components, except bridges and earthwork for stormwater management and flood compensation sites.

6a.18 Technical Special Provisions / Modified Special Provisions (Not applicable to these projects)

6a.19 Hydroplaning Analysis (Not applicable to these projects)

6a.20 Existing Permit Analysis (Not applicable to these projects)

6a.21 Other Drainage Analysis (Not applicable to these projects)

6a.22 Noise Barrier Evaluation(Not applicable to these projects)

6a.23 Erosion Control Plan

Includes analysis and design of the Erosion Control Plan. Includes creating the design file.

6a.24 Field Reviews

6a.25 Technical Meetings

Meetings with DEPARTMENT staff, regulatory agencies, local governments such as meetings with District Drainage Engineer, the Water Management District, FDEP, etc.

6a.26 Environmental Look-Around Meetings (Not applicable to these projects)

6a.27 Quality Assurance/Quality Control

6a.28 Independent Peer Review (Not applicable to these projects)

6a.29 Supervision

6a.30 Coordination

6b DRAINAGE PLANS

The CONSULTANT shall prepare Drainage plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction.

6b.1 Drainage Map (Including Interchanges)

6b.2 Bridge Hydraulics Recommendation Sheets (Not applicable to these projects)

6b.3 Drainage Structures

6b.4 Lateral Ditch Plan/Profile & Cross Sections (Not applicable to these projects)

6b.5 Retention/Detention/Floodplain Compensation Pond Details & Cross Sections (Not applicable to these projects)

6b.6 Erosion Control Plan

6b.7 SWPPP

6b.8 Quality Assurance/Quality Control

6b.9 Supervision

7 UTILITIES

All Utility Coordination activities will be performed by the DEPARTMENT. The CONSULTANT will coordinate with FDOT Area Utility Manager regarding information needed.

7.1 Utility Kickoff Meeting

Before any contact with the UAO(s), the CONSULTANT shall meet or teleconference with the DEPARTMENT's Area Utility Manager to receive guidance, as may be required, to assure that all necessary coordination will be accomplished in accordance with DEPARTMENT procedures. CONSULTANT shall bring a copy of the design project work schedule reflecting utility activities.

7.2 Identify Existing Utility Agency Owner(s)

The CONSULTANT will identify all utilities in the corridor during the survey phase by calling Sunshine 811. As-built documentation shall be requested from each UAO for verification of complete designation, and a review will be made to ensure that field designated data is included on the Phase I plans. Proper identification of design coordination contact information shall be made during this activity. A copy of the Sunshine 811 "design" ticket listing all utility owners within the project limits shall be provided within 10 business days of the Notice to Proceed (NTP) as part of all subsequent phase submittals.

The DEPARTMENT will assist in identifying all utilities in the corridor.

7.3 Make Utility Contacts

The DEPARTMENT's Area Utility Manager will make contact and distribute plans to the applicable UAO's. A memo requesting that the UAO's verify/mark all existing facilities will be sent along with the plans.

7.4 Design Alternative Processing

For above-ground utility installations that are to remain within the horizontal clearance area WITHOUT viable options for relocation within the R/W, the CONSULTANT shall refer to Section 3.14.5 of the UAM regarding practical considerations and Section 6 of the UAM for Design Alternative processing. For above-ground utility installations that are to remain within the horizontal clearance area WITH available R/W and options for relocation, the UAO will be responsible for submitting a Design Alternative approval request as described in Section 6 of the UAM. The DEPARTMENT will coordinate all necessary Design Alternatives.

7.5 Preliminary Utility Meeting

The CONSULTANT shall schedule (time and place), notify participants, and conduct a preliminary utility meeting with all UAO(s) having facilities located within the project limits for the purpose of presenting the project, review the current design schedule, evaluate the utility information collected, provide follow-up information on compensable property rights from the FDOT Legal Office, discuss the utility work by highway contractor option with each utility, and discuss any future design issues that may impact utilities. ***This is also***

an opportunity for the UAO(s) to present proposed facility relocations with the CONSULTANT and other UAOs. The CONSULTANT shall keep accurate minutes and distribute a copy to all attendees.

7.6 Individual/Field Meetings

The CONSULTANT shall meet with each UAO as necessary, separately or together, throughout the project design duration to provide guidance in the interpretation of plans, review changes to the plans and schedules, standard or selective clearing and grubbing work, and assist in the development of the UAO(s) plans and work schedules. The CONSULTANT is responsible for motivating the UAO to complete and return the necessary documents after each Utility Contact or Meeting. ***Field reviews shall be coordinated with the DEPARTMENT's Area Utility Manager.***

7.7 Collect and Review Plans and Data from UAO(s)

The CONSULTANT shall review utility marked plans and data individually as they are received for content. Ensure information from the UAO (utility type, material and size) is sent to the designer for inclusion in the plans. Forward all requests for utility reimbursement and supporting documentation to the DUO.

The CONSULTANT will be responsible for reviewing and implementing identified utility locations into the plans as well as producing a Potential Utility Conflict Matrix. The Matrix will include location (station, offset, depth) of existing facilities in relation to proposed construction features, and will be submitted with the Phase II submittal. Subsequent phase submittals will require that the Utility Conflict Matrix be updated and submitted reflecting any design changes or new information. Marked plans provided from UAOs may need to be acquired through the Department's Project Suite Enterprise Edition (PSEE) system.

7.8 Subordination of Easements Coordination

The CONSULTANT, if requested by the DEPARTMENT, shall transmit to and secure from the UAO the executed subordination agreements prepared by the appropriate DEPARTMENT office. ***The CONSULTANT shall obtain information as required from the UAO(s) for the programming of the necessary work program funds to compensate the UAO for reimbursable expenses.***

7.9 Utility Design Meeting

The DEPARTMENT's Area Utility Manager shall coordinate with the DEPARTMENT's Design Project Manager and schedule (time and place), notify participants, and conduct a Utility Design Meeting with all affected UAO(s). This meeting may be held in conjunction with the Post 60% Workshop described in Section 4.22. The CONSULTANT shall schedule (time and place), notify participants, and conduct a Utility meeting with all affected UAO(s). The CONSULTANT shall be prepared to discuss impacts to existing trees/vegetation and proposed landscape,

drainage, traffic signalization, temporary traffic control plan (TTCP) (construction phasing), review the current design schedule and letting date, evaluate the utility information collected, provide follow-up information on compensable property rights from FDOT Legal Office, discuss with each UAO the utility work by highway contractor option, discuss any future design issues that may impact utilities, etc., to the extent that they may have an effect on existing or proposed utility facilities with particular emphasis on drainage and TTCP with each UAO. The intent of this meeting shall be to assist the UAOs in identifying and resolving conflicts between utilities and proposed construction before completion of the plans, including utility adjustment details. Also, to work with the UAOs to recommend potential resolution between known utility conflicts with proposed construction plans as may be deemed practical by the UAO. The CONSULTANT shall keep accurate minutes of all meetings and distribute a copy to all attendees within 3 days. See Task 4.5 (Horizontal/Vertical Master Design File) and Task 4.8 (Cross Section Design Files) for utility conflict location identification and adjustments.

7.10 Review Utility Markups & Work Schedules and Processing of Schedules & Agreements

The CONSULTANT shall review utility marked up plans and work schedules as they are received for content and coordinate review with the designer. Send color markups and schedules to the appropriate DEPARTMENT office(s) such as survey, geotechnical, drainage, structures, lighting, roadway, signals, utilities, landscape architecture, municipalities, maintaining agency, and District Traffic Operations for review and comment if required by the District. Coordinate with the District for execution. Distribute Executed Final Documents. Prepare Work Order for UAO(s). The CONSULTANT shall coordinate with the DUO the programming of necessary Work Program funds.

Any design changes affecting utilities that occur after the Phase IV Resubmittal must be submitted to the DEPARTMENT's Area Utility Manager so that Utility Work Schedules can be updated.

7.11 Utility Coordination/Follow-up

Utility Coordination and Follow-up activities will be performed by the DEPARTMENT and the CONSULTANT if requested by the DEPARTMENT.

This includes follow-up, interpreting plans, and assisting with coordination ofthe completion of the UAO(s) work schedule and agreements. Includes phone calls, face-to-face meetings, etc., to motivate and ensure the UAO(s) complete and return the required documents in accordance with the project schedule. Ensure the resolution of all known conflicts. This task can be applied to all phases of the project.

7.12 Utility Constructability Review

Utility Constructability Review activities will be performed by the CONSULTANT. The

CONSULTANT shall review utility schedules against construction contract time, and phasing for compatibility. Coordinate with and obtain concurrence from the construction office. See Task 4.5 (Horizontal/Vertical Master Design File) and Task 4.9 (Cross Section Design Files) for utility conflict identification and adjustments.

7.13 Additional Utility Services

The CONSULTANT will provide any subsurface utility excavations (SUE) that are required for the projects. This effort will be negotiated in Section 27.10.

The CONSULTANT may be required to provide additional utility services. Additional services will be determined when the services are required and requested. This item is not usually included in the scope at the time of negotiation. It is normally added as a supplemental amendment when the need is identified.

7.14 Processing Utility Work by Highway Contractor (UWHC)

Processing of any Utility Work by the Highway Contractor will be performed by the DEPARTMENT.

As directed by the DEPARTMENT, the CONSULTANT shall assist with the determination of the DEPARTMENT's cost participation, attend additional coordination meetings, prepare and process UWHC agreements, review tabulation of quantities prepared by the UAO(s), perform UWHC constructability and biddability reviews, review pay items and cost estimates, and review and incorporate Technical Special Provisions (TSPs) or Modified Special Provisions (MSP) prepared by the UAO. This item is not usually included in the scope at the time of negotiation. It is normally added as a supplemental amendment when the need is identified. Effort for the EOR is not included in this task, see Roadway Analysis Task Group 4.

7.15 Contract Plans to UAO(s)

The CONSULTANT will be responsible for providing the necessary electronic files to the DEPARTMENT's Design Project Manager for submittal to the Area Utility Manager at each Phase Submittal.

7.16 Certification/Close-Out

Utility Certification will be performed after all Utility Work Schedules have been executed and the coordination of construction related issues has been completed by the DEPARTMENT.

Utility Coordination Close-Out will include archiving all project documents and files in an orderly fashion consistent with the DEPARTMENT's EDMS archiving process.

7.17 Other Utilities

The CONSULTANT shall provide other utility services. This includes all efforts for a

utility task not covered by an existing defined task. Required work will be defined in the scope and negotiated on a case-by-case basis.

8 ENVIRONMENTAL PERMITS and ENVIRONMENTAL CLEARANCES

The CONSULTANT shall notify the DEPARTMENT Project Manager, Environmental Permit Coordinator, and other appropriate DEPARTMENT personnel in advance of all scheduled meetings with the regulatory agencies to allow a DEPARTMENT representative to attend. The CONSULTANT shall copy in the Project Manager and the Environmental Permit Coordinator on all permit related correspondence and meetings. The CONSULTANT shall use current regulatory guidelines and policies for all permits required as identified in Section 2.4 (of this scope).

8.1 Preliminary Project Research

The CONSULTANT shall perform preliminary project research and shall be responsible for regulatory agency coordination to assure that design efforts are properly directed toward permit requirements.

The CONSULTANT shall research any existing easements or other restrictions that may exist both within or adjacent to the proposed project boundary. Project research may include but should not be limited to review of available: District Right of Way files and databases; federal, state, and local permit files and databases; and local government information including county and property appraiser data. The CONSULTANT shall determine if any Sovereign Submerged Lands easements need to be modified or acquired. Any applicable information will be shown on the plans as appropriate.

8.2 Field Work

8.2.1 Pond Site Alternatives: (Not applicable to these projects)

8.2.2 Establish Wetland Jurisdictional Lines and Assessments:

The CONSULTANT shall be responsible for, but not limited to, the following activities:

- Determine landward extent of wetlands and other surface waters as detailed in Rule Chapter 62-340, F.A.C., as ratified in Section 373.4211, F.S..; United States Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1); Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (ERD/EL TR-10-20).
- Collect all data and information necessary to determine the jurisdictional boundaries of wetlands and other surface waters as defined by the rules or regulations of each permitting agency processing a DEPARTMENT permit application for the project.
- Set seasonal high-water levels in adjacent wetlands with biological indicators
- Obtain a jurisdictional determination as defined by the rules or regulations of each permitting agency processing a DEPARTMENT permit application for the project.
- Prepare aerial maps showing the jurisdictional boundaries of wetlands and other surface waters. Aerial maps shall be reproducible, of a scale of 1"=400'or more

detailed and be recent photography. The maps shall show the jurisdictional boundaries of each agency. Photocopies of aerials are not acceptable. When necessary, a wetland specific survey will be prepared by a registered surveyor and mapper. All surveyed jurisdictional boundaries are to be tied to the project's baseline of survey.

- Prepare a written assessment of the current condition and functional value of the wetlands and other surface waters. Prepare data in tabular form which includes the ID number for each wetland (and other surface water, if necessary) impacted, size of wetland to be impacted, type of impact, and identify any wetland (by ID number and size) within the project limits that will not be impacted by the project.
- Prepare appropriate agency forms to obtain required permits. Forms may include but are not limited to the USACE "Wetland Determination Data Form - Atlantic and Gulf Coastal Plain Region"; the USACE "Request for Corps Jurisdictional Determination"; Uniform Mitigation Assessment Method forms and/or project specific data forms.

8.2.3 Species Surveys: (to be completed by the DEPARTMENT)

8.3 Agency Verification of Wetland Data

The CONSULTANT shall be responsible for verification of wetland and other surface water data identified in Section 8.2 and coordinating regulatory agency field reviews, including finalization of assessments and jurisdictional determinations with applicable agencies.

The jurisdictional lines will be verified during the permit submittal and review by the State or Federal agency. A formal jurisdictional determination will not be obtained prior to permit submittal except for new roadway alignments, or if a questionable determination is anticipated.

8.4 Complete and Submit All Required Permit Applications

The CONSULTANT shall collect the data and information necessary to prepare the permit applications and obtain the environmental permits required to construct the project as identified in the Project Description and as described in 8.4.1, 8.4.2, and 8.15 (Other Environmental Permits). The CONSULTANT shall prepare each permit application in accordance with the rules and/or regulations of the regulatory agency responsible for issuing a specific permit and/or authorization to perform work. The permit application packages must be approved by the DEPARTMENT prior to submittal to regulatory agencies.

The CONSULTANT will submit all permit applications, as directed by the DEPARTMENT, and be responsible for payment of all permit and public noticing fees, unless directed otherwise by the DEPARTMENT.

A Pre-Application meeting with the permitting agencies can be anticipated for projects that require an Individual ERP from the State of Florida or an Individual Permit from the Army Corps of Engineers. As a project develops, other project specific conditions may be identified that will warrant a Pre-Application meeting to clarify the permitting

requirements. The DEPARTMENT's Design Project Manager, District Drainage Engineer, and District Permit Coordinator will be invited to the Pre-Application meeting (when required) and will be forwarded all correspondence and meeting minutes.

The CONSULTANT will file any public notices required by the permits, in a publication selected by the DEPARTMENT, and will be responsible for payment of all fees associated with the filing the public notice.

The CONSULTANT shall be responsible for responding to Requests for Additional Information by the reviewing agency.

8.4.1 Complete and Submit all Required Wetland Permit Applications:

The CONSULTANT shall prepare, complete, and submit required wetland permit (i.e., ERP, Section 404) application packages to the appropriate regulatory agencies. This includes, but is not limited to, applications submitted to WMDs and/or DEP, and USACE. The application package may include but is not limited to attachments (e.g. project location map, aerials, affidavit of ownership, pictures, additional technical analysis, etc.), a cover letter with project description as well as completion of applicable agency forms. The CONSULTANT shall prepare and respond to agency Requests for Additional Information (RAIs), including necessary revisions to the application package. All responses and completed application packages must be approved by the District Permit Coordinator prior to submittal to the regulatory agencies. Geotechnical permitting should also be prepared, submitted, and obtained.

For projects that do not have a wetland assessment (Unified Mitigation Assessment Method, or UMAM), and the permit requires this information to be issued, the CONSULTANT will prepare a UMAM to be submitted with the permit application.

8.4.2 Complete and Submit all Required Species Permit Applications: (to be completed by the DEPARTMENT)

8.5 Coordinate and Review Dredge and Fill Sketches

The CONSULTANT shall review Dredge and Fill Detail sheets to ensure information on the sketch(es) meet the requirements of the regulatory agencies and are appropriate for environmental permit application submittal and acquisition. The CONSULTANT will also provide environmental data/information as needed to support the preparation of the Dredge and Fill sketches.

8.6 Prepare USCG Permit Application (Not applicable to these projects)

8.7 Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application (Not applicable to these projects)

8.8 Prepare Coastal Construction Control Line (CCCL) Permit Application (Not applicable to these projects)

8.9 Prepare USACE Section 408 Application to Alter a Civil Works Project (Not applicable to these projects)

8.10 Compensatory Mitigation Plan (Not applicable to these projects)

8.11 Mitigation Coordination and Meetings (Not applicable to these projects)

8.12 Other Environmental Permits (Not applicable to these projects)

8.13 Technical Support to the DEPARTMENT for Environmental Clearances and Re-evaluations

The CONSULTANT shall provide engineering and environmental support for the DEPARTMENT to obtain environmental clearances resulting from any changes to the project after the initial environmental phase has been completed.

8.14 Preparation of Environmental Clearances and Re-evaluations

TO BE PROVIDED BY THE DEPARTMENT

8.15 Other Environmental Permits

8.16 Contamination Impact Analysis (not applicable to these projects)

8.17 Asbestos Survey (not applicable to these projects)

8.18 Technical Meetings

8.19 Quality Assurance/Quality Control

8.20 Supervision

8.21 Coordination

9 STRUCTURES - SUMMARY AND MISCELLANEOUS TASKS AND DRAWINGS

The CONSULTANT shall analyze, design, and develop contract documents for all structures in accordance with applicable provisions as defined in Section 2.19, Provisions for Work. Individual tasks identified in Sections 9 through 18 are defined in the Staff Hour Estimation Handbook and within the provision defined in Section 2. 20, Provisions for Work. Contract documents shall display economical solutions for the given conditions.

The CONSULTANT shall provide Design Documentation to the DEPARTMENT with each submittal consisting of structural design calculations and other supporting documentation developed during the development of the plans. The design calculations submitted shall adequately address the complete design of all structural elements. These calculations shall be neatly and logically presented on digital media or, at the DEPARTMENT's request, on 8 ½"x11" paper and all sheets shall be numbered. The final design calculations shall be signed and sealed by a Florida-licensed professional engineer. A cover sheet indexing the contents of the calculations shall be included and the engineer shall sign and seal that sheet. All computer programs and parameters used in the design calculations shall include sufficient backup information to facilitate the review

task.

9.1 Key Sheet and Index of Drawings (Not applicable to these projects)

9.2 Project Layout (Not applicable to these projects)

9.3 General Notes and Bid Item Notes (Not applicable to these projects)

9.4 Miscellaneous Common Details (Not applicable to these projects)

9.5 Incorporate Report of Core Borings (Not applicable to these projects)

9.6 Standard Plans- Bridges (Not applicable to these projects)

9.7 Existing Bridge Plans (Not applicable to these projects)

9.8 Quantities for EQ Report (Not applicable to these projects)

9.9 Cost Estimate (Not applicable to these projects)

9.10 Technical Special Provisions and Modified Special Provisions (Not applicable to these projects)

9.11 Field Reviews

9.12 Technical Meetings

9.13 Quality Assurance/Quality Control

9.14 Independent Peer Review (Not applicable to these projects)

9.15 Supervision

9.16 Coordination

10 STRUCTURES - BRIDGE DEVELOPMENT REPORT (Not applicable to these projects)

11 STRUCTURES - TEMPORARY BRIDGE (Not applicable to these projects)

12 STRUCTURES - SHORT SPAN CONCRETE BRIDGE (Not applicable to these projects)

13 STRUCTURES - MEDIUM SPAN CONCRETE BRIDGE (Not applicable to these projects)

14 STRUCTURES - STRUCTURAL STEEL BRIDGE (Not applicable to these projects)

15 STRUCTURES - SEGMENTAL CONCRETE BRIDGE (Not applicable to these projects)

16 STRUCTURES - MOVABLE SPAN (Not applicable to these projects)

17 STRUCTURES - RETAINING WALLS (Not applicable to these projects)

18 STRUCTURES - MISCELLANEOUS

The CONSULTANT shall prepare plans for Miscellaneous Structure(s) as specified in Section 2.5.

Concrete Box Culverts (Tasks 18.1 to 18.4 are not applicable to these projects)

Strain Poles (Tasks 18.5 to 18.8 are not applicable to these projects)

Mast Arms (Tasks 18.9 to 18.11 are not applicable to these projects)

Overhead/Cantilever Sign Structure (Tasks 18.12 to 18.18 are not applicable to these projects)

High Mast Lighting (Tasks 18.19 to 18.20 are not applicable to these projects)

Noise Barrier Walls (Ground Mount) (Tasks 18.21 to 18.27 are not applicable to these projects)

Special Structures

18.28 Fender System (Not applicable to these projects)

18.29 Fender System Access (Not applicable to these projects)

18.30 Special Structures

18.31 Other Structures (Not applicable to these projects)

18.32 Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles

18.33 Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles (No As built or Design Plans Available)

18.34 Analytical Evaluation of Signal and Sign Structures, and High Mast Light Poles (Not applicable to these projects)

18.35 Ancillary Structures Report (Not applicable to these projects)

19 SIGNING AND PAVEMENT MARKING ANALYSIS

The CONSULTANT shall analyze and document Signing and Pavement Markings Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

19.1 Traffic Data Analysis

The CONSULTANT shall evaluate the existing signage to determine the need for additional signs, correcting redundant or conflicting signage, and the replacement of damaged signs. It is NOT the DEPARTMENT's intent to replace signs based solely on age or installation date. Existing signage problems/issues that are discovered during the design phase should be communicated to the maintaining agency to be addressed as

appropriate.

The CONSULTANT shall prepare a detailed summary of additional or modified traffic regulations affected by this project. The summary shall include affected regulatory signs (No U, No Left, No Parking etc.), signals (including school zones, pedestrian devices, intersection control beacons, post-mounted warning devices) or pavement markings. This information is to be forwarded to the District Traffic Operations Engineer for use in fulfilling Florida Statute 335.10(1). The CONSULTANT may refer to Traffic Engineering Topic Number 750-010-011: Traffic Regulation Approval Process, and the Roadway Characteristic Inventory (RCI) database for additional information.

19.2 No Passing Zone Study (Not applicable to these projects)

19.3 Signing and Pavement Marking Master Design File

The CONSULTANT shall prepare the Signing & Marking Design file to include all necessary design elements and all associated reference files.

19.4 Multi-Post Sign Support Calculations

The CONSULTANT shall determine the appropriate column size from the DEPARTMENT's Multi-Post Sign Program(s).

19.5 Sign Panel Design Analysis

Establish sign layout, letter size and series for non-standard signs.

19.6 Sign Lighting/Electrical Calculations (Not applicable to these projects)

19.7 Quantities for EQ Report

The CONSULTANT shall determine pay items and quantities and the supporting documentation.

Quantities shall be included in an Estimated Quantities Report per Section 3.3.2

19.8 Cost Estimate

19.9 Technical Special Provisions and Modified Special Provisions (Not applicable to these projects)

19.10 Other Signing and Pavement Marking Analysis (Not applicable to these projects)

19.11 Field Reviews

19.12 Technical Meetings

19.13 Quality Assurance/Quality Control

19.14 Independent Peer Review (Not applicable to these projects)

19.15 Supervision

19.16 Coordination

20 SIGNING AND PAVEMENT MARKING PLANS

The CONSULTANT shall prepare a set of Signing and Pavement Marking Plans in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums that includes the following. The plans shall include only those sheets, of the following list of sheets, necessary to convey the intent and scope of the project for construction.

20.1 Key Sheet

20.2 General Notes/Pay Item Notes

20.3 Project Layout

20.4 Plan Sheet

20.5 Typical Details (Not applicable to these projects)

20.6 Guide Sign Work Sheets

20.7 Traffic Monitoring Site

20.8 Cross Sections (Not applicable to these projects)

20.9 Special Service Point Details (Not applicable to these projects)

20.10 Special Details

20.11 Interim Standards (Not applicable to these projects)

20.12 Quality Assurance/Quality Control

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project.

20.13 Supervision

21 SIGNALIZATION ANALYSIS (For FPID 219722-5)

The CONSULTANT shall analyze and document Signalization Analysis Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design

memorandums.

21.1 Traffic Data Collection (Not applicable to these projects)

21.2 Traffic Data Analysis (Not applicable to these projects)

21.3 Signal Warrant Study (Not applicable to these projects)

21.4 Systems Timings (Not applicable to these projects)

21.5 Reference and Master Signalization Design File

The CONSULTANT shall prepare the Signalization Design file to include all necessary design elements and all associated reference files.

21.6 Reference and Master Interconnect Communication Design File (Not applicable to these projects)

21.7 Overhead Street Name Sign Design (Not applicable to these projects)

21.8 Pole Elevation Analysis (Not applicable to these projects)

21.9 Traffic Signal Operation Report (Not applicable to these projects)

21.10 Quantities for EQ Report

The CONSULTANT shall determine pay items and quantities and the supporting documentation.

Quantities shall be included in an Estimated Quantities Report per Section 3.3.2.

21.11 Cost Estimate

21.12 Technical Special Provisions and Modified Special Provisions (Not applicable to these projects)

21.13 Other Signalization Analysis (Not applicable to these projects)

21.14 Field Reviews

The CONSULTANT shall collect information from the maintaining agencies and conduct a field review. The review should include, but is not limited to, the following:

- Existing Signal and Pedestrian Phasing
- Controller Make, Model, Capabilities and Condition/Age
- Condition of Signal Structure(s)
- Type of Detection as Compared with Current District Standards
- Interconnect Media
- Controller Timing Data

21.15 Technical Meetings

21.16 Quality Assurance/Quality Control

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation, or it may be one specifically designed for this project.

21.17 Independent Peer Review (Not applicable to these projects)

21.18 Supervision

21.19 Coordination

22 SIGNALIZATION PLANS (For FPID 219722-5)

The CONSULTANT shall prepare a set of Signalization Plans in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums, which includes the following:

22.1 Key Sheet

22.2 General Notes/Pay Item Notes

22.3 Plan Sheet

22.4 Interconnect Plans (Not applicable to these projects)

22.5 Traffic Monitoring Site

22.6 Guide Sign Worksheet (Not applicable to these projects)

22.7 Special Details (Not applicable to these projects)

22.8 Special Service Point Details (Not applicable to these projects)

22.9 Mast Arm/Monotube Tabulation Sheet (Not applicable to these projects)

22.10 Strain Pole Schedule (Not applicable to these projects)

22.11 TTCP Signal (Temporary) (Not applicable to these projects)

22.12 Temporary Detection Sheet (Not applicable to these projects)

22.13 Utility Conflict Sheet (Not applicable to these projects)

22.14 Interim Standards (Not applicable to these projects)

22.15 Quality Assurance/Quality Control

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation, or it may be one specifically designed for this project.

22.16 Supervision

23 LIGHTING ANALYSIS (Not applicable to these projects)

24 LIGHTING PLANS (Not applicable to these projects)

25 LANDSCAPE ANALYSIS (Not applicable to these projects)

26 LANDSCAPE PLANS (Not applicable to these projects)

27 SURVEY

The CONSULTANT shall perform survey tasks in accordance with all applicable statutes, manuals, guidelines, standards, handbooks, procedures, and current design memoranda.

The CONSULTANT shall submit all survey notes and computations to document the surveys. All field survey work shall be recorded in approved media and submitted to the DEPARTMENT. Field books submitted to the DEPARTMENT must be of an approved type. The field books shall be certified by the surveyor in responsible charge of work being performed before the final product is submitted.

The survey notes shall include documentation of decisions reached from meetings, telephone conversations or site visits. All like work (such as bench lines, reference points, etc.) shall be recorded contiguously. The DEPARTMENT may not accept field survey radial locations of section corners, platted subdivision lot and block corners, alignment control points, alignment control reference points and certified section corner references. The DEPARTMENT may instead require that these points be surveyed by true line, traverse or parallel offset.

27.1 Horizontal Project Control (HPC)

Establish or recover HPC, for the purpose of establishing horizontal control on the Florida State Plane Coordinate System or datum approved by the District Surveyor (DS) or District Location Surveyor (DLS); may include primary or secondary control points. Includes analysis and processing of all field collected data, and preparation of forms.

27.2 Vertical Project Control (VPC)

Establish or recover VPC, for the purpose of establishing vertical control on datum approved by the District Surveyor (DS) or the District Location Surveyor (DLS).; may include primary or secondary vertical control points. Includes analysis and processing of all field collected data, and preparation of forms.

27.3 Alignment and/or Existing Right of Way (R/W) Lines

Establish, recover or re-establish project alignment. Also includes analysis and processing of all field collected data, existing maps, and/or reports for identifying mainline, ramp, offset, or secondary alignments. Depict alignment and/or existing R/W lines (in required format) per DEPARTMENT R/W Maps, platted or dedicated rights of way. ***Refer to the FDOT Survey Handbook for requirements.***

27.4 Aerial Targets

Place, locate, and maintain required aerial targets and/or photo identifiable points. Includes analysis and processing of all field collected data, existing maps, and/or reports. Placement of the targets will be at the discretion of the aerial firm. ***Refer to the FDOT Survey Handbook for requirements.***

27.5 Reference Points

Reference Horizontal Project Control (HPC) points, project alignment, vertical control points, section, ¼ section, center of section corners and General Land Office (G.L.O.) corners as required. ***Refer to the FDOT Survey Handbook for requirements.***

27.6 Topography/Digital Terrain Model (DTM) (3D)

Locate all above ground features and improvements for the limits of the project by collecting the required data for the purpose of creating a DTM with sufficient density. Shoot all break lines, high and low points. Effort includes field edits, analysis and processing of all field collected data, existing maps, and/or reports. ***Refer to the FDOT Survey Handbook for requirements.***

27.7 Planimetric (2D) (Not applicable to these projects)

27.8 Roadway Cross Sections/Profiles

Perform cross sections or profiles. May include analysis and processing of all field-collected data for comparison with DTM. ***Refer to the FDOT Survey Handbook for requirements.***

27.9 Side Street Surveys

Refer to tasks of this document as applicable. ***Refer to the FDOT Survey Handbook for requirements.***

27.10 Underground Utilities

Designation includes 2-dimensional collection of existing utilities and selected 3-dimensional verification as needed for designation. Location includes non-destructive excavation to determine size, type and location of existing utility, as necessary for final 3-dimensional verification. Survey includes collection of data on points as needed for designates and locates. Includes analysis and processing of all field collected data, and delivery of all appropriate electronic files. ***Refer to the FDOT Survey Handbook for requirements.***

27.11 Outfall Survey (Not applicable to these projects)

27.12 Drainage Survey

Locate underground data (XYZ, pipe size, type, condition and flow line) that relates to above ground data. Includes field edits, analysis and processing of all field collected data, existing maps, and/or reports. ***Refer to the FDOT Survey Handbook for requirements.***

27.13 Bridge Survey (Minor/Major) (Not applicable to these projects)

27.14 Channel Survey (Not applicable to these projects)

27.15 Pond Site Survey (Not applicable to these projects)

27.16 Mitigation Survey (Not applicable to these projects)

27.17 Jurisdiction Line Survey

Perform field location (2-dimensional) of jurisdiction limits as defined by respective authorities, also includes field edits, analysis and processing of all field collected data, preparation of reports. ***Refer to the FDOT Survey Handbook for requirements.***

27.18 Geotechnical Support

Perform 3-dimensional (X,Y,Z) field location, or stakeout, of boring sites established by geotechnical engineer. Includes field edits, analysis and processing of all field collected data and/or reports. ***Refer to the FDOT Survey Handbook for requirements.***

27.19 Sectional/Grant Survey (Not applicable to these projects)

27.20 Subdivision Location (Not applicable to these projects)

27.21 Maintained R/W (Not applicable to these projects)

27.22 Boundary Survey

Perform boundary survey as defined by DEPARTMENT standards. Includes analysis and processing of all field-collected data, preparation of reports. ***Refer to the FDOT Survey Handbook for requirements.***

27.23 Water Boundary Survey (Not applicable to these projects)

27.24 Right of Way Staking, Parcel / Right of Way Line (Not applicable to these projects)

27.25 Right of Way Monumentation (Not applicable to these projects)

27.26 Line Cutting

Perform all efforts required to clear vegetation from the line of sight. ***Refer to the FDOT Survey Handbook for requirements.***

27.27 Work Zone Safety

Provide work zone as required by DEPARTMENT standards. ***Refer to the FDOT Survey Handbook for requirements.***

27.28 Vegetation Survey (Not applicable to these projects)

27.29 Tree Survey (Not applicable to these projects)

27.30 Miscellaneous Surveys

Refer to tasks of this document, as applicable, to perform surveys not described herein. The percent for Supplemental will be determined at negotiations. This item can only be used if authorized in writing by the District Surveyor (DS), District Location Surveyor (DLS) or their representative. ***Refer to the FDOT Survey Handbook for requirements.***

27.31 Supplemental Surveys

Supplemental survey days and hours are to be approved in advance by DS or DLS. Refer to tasks of this document, as applicable, to perform surveys not described herein.

27.32 Document Research

Perform research of documentation to support field and office efforts involving surveying and mapping.

27.33 Field Review

Perform verification of the field conditions as related to the collected survey data. ***Refer to the FDOT Survey Handbook for requirements.***

27.34 Technical Meetings

Attend meetings as required and negotiated by the Surveying and Mapping Department.

27.35 Quality Assurance/Quality Control (QA/QC)

Establish and implement a QA/QC plan. Also includes subconsultant review, response to comments and any resolution meetings if required, preparation of submittals for review, etc. ***Refer to the FDOT Survey Handbook for requirements.***

27.36 Supervision

Perform all activities required to supervise and coordinate project. These activities must be performed by the project supervisor, a Florida P.S.M. or their delegate as approved by the

District Surveying Office.

27.37 Coordination

Coordinate survey activities with other disciplines. These activities must be performed by the project supervisor, a Florida P.S.M. or their delegate as approved by the District Surveying Office.

28 PHOTOGRAMMETRY (Not applicable to these projects)

29 MAPPING (Not applicable to these projects)

30 TERRESTRIAL MOBILE LiDAR

The CONSULTANT shall perform Terrestrial Mobile LiDAR tasks in accordance with all applicable statutes, manuals, guidelines, standards, handbooks, procedures, and current design memoranda.

In addition to the maps and LiDAR products, the CONSULTANT shall submit all computations and reports to support the mapping. This will include documentation of all decisions reached from meetings, telephone conversations, and site visits.

30.1 Terrestrial Mobile LiDAR Mission Planning

Research and prepare materials necessary for the successful execution of the Mobile LiDAR Mission. This includes but is not limited to route and safety planning, GPS /data acquisition scheduling, weather reports, and site terrain research.

30.2 Project Control Point Coordination

All efforts necessary to coordinate the proper placement of project ground control; i.e., base stations, transformation control points, and validation points, supporting the Mobile LiDAR survey.

30.3 Terrestrial Mobile LiDAR Mobilization

Prepare the LiDAR sensor and vehicle for project data collection and get specialized personnel and equipment on site.

30.4 Terrestrial Mobile LiDAR Mission

Perform site calibrations of LiDAR sensor and collect laser survey data, including any simultaneous base station GPS occupations and operation of any necessary safety equipment.

30.5 Terrestrial Mobile LiDAR Processing

Download and post process collected measurement data from Mobile LiDAR vehicle sensors, and any base stations occupied during mission. Analyze Mobile LiDAR

measurement points and scan route overlaps. Separate any large point cloud data sets into manageable file sizes with corresponding indexes.

30.6 Terrestrial Mobile Photography Processing

Process, reference, and name digital photographic imagery files collected during Mobile LiDAR mission.

30.7 Transformation / Adjustment

Adjust LiDAR point cloud data to Project Control points. Create point cloud data file(s) in approved digital format. Prepare required reports of precision and accuracy achieved. If this task is performed by separate firm, or is the final product to be delivered, include effort for Survey Report.

30.8 Classification / Editing

Identify and attribute (classify) point cloud data into requested groups. Classify or remove erroneous points.

30.9 Specific Surface Reporting

Prepare reports, data and/or graphics of specific surface details such as, but not limited to pavement rutting, bridge structure clearance to roadway surface.

30.10 Topographic (3D) Mapping

Produce three dimensional (3D) topographic survey map(s) from collected Mobile LiDAR data. This includes final preparation of Construction Information Management (CIM) deliverable, if applicable.

30.11 Topographic (2D) Planimetric Mapping (Not applicable to these projects)

30.12 CADD Edits

Perform final edit of graphics for delivery of required CADD files. This includes final presentation of CIM deliverable, if applicable.

30.13 Data Merging

Merge Mobile LiDAR survey and mapping files, with other field survey files, and data from other sources.

30.14 Miscellaneous

Other tasks not specifically addressed in this document.

30.15 Field Reviews

Perform on site review of maps.

30.16 Technical Meetings

Attend meetings as required.

30.17 Quality Assurance/ Quality Control

Establish and implement a QA/QC plan.

30.18 Supervision

Supervise all Terrestrial Mobile LiDAR activities. This task must be performed by the project supervisor, a Florida P.S.M.

30.19 Coordination

Coordinate with all elements of the project to produce a final product.

31 ARCHITECTURE DEVELOPMENT (Not applicable to these projects)

32 NOISE BARRIERS IMPACT DESIGN ASSESSMENT IN THE DESIGN PHASE (Not applicable to these projects)

33 INTELLIGENT TRANSPORTATION SYSTEMS ANALYSIS (Not applicable to these projects)

34 INTELLIGENT TRANSPORTATION SYSTEMS PLANS (Not applicable to these projects)

35 GEOTECHNICAL

The CONSULTANT shall, for each project, be responsible for a complete geotechnical investigation. All work performed by the CONSULTANT shall be in accordance with DEPARTMENT standards, or as otherwise directed by the District Geotechnical Engineer. The District Geotechnical Engineer will make interpretations and changes regarding geotechnical standards, policies and procedures and provide guidance to the CONSULTANT.

Before beginning each phase of investigation and after the Notice to Proceed is given, the CONSULTANT shall submit an investigation plan for approval and meet with the DEPARTMENT's Geotechnical Engineer or representative to review the project scope and DEPARTMENT requirements. The investigation plan shall include, but not be limited to, the proposed boring locations and depths, and all existing geotechnical information from available sources to generally describe the surface and subsurface conditions of the project site. Additional meetings may be required to plan any additional field efforts, review plans, resolve plans/report comments, resolve responses to comments, and/or any other meetings necessary to facilitate the project.

The CONSULTANT shall notify the DEPARTMENT in adequate time to schedule a representative to attend all related meetings and field activities.

The CONSULTANT shall be responsible for coordination of all geotechnical related

fieldwork activities. The CONSULTANT shall retain all samples until acceptance of final plans. Rock cores shall be retained as directed in writing by the District Geotechnical Engineer.

Artesian conditions are likely to be present within the limits of this project. The Geotechnical CONSULTANT shall be prepared to completely seal the bore holes where the artesian conditions exist. The DEPARTMENT's Geotechnical Engineer shall be notified if and when artesian conditions are encountered.

CONSULTANT shall perform specialized field-testing as required by project needs.

All testing and classification will be performed in accordance with applicable DEPARTMENT standards, ASTM Standards or AASHTO Standards, unless otherwise specified in the Contract Documents.

All Standard Penetration Testing will be performed using an automatic hammer.

35.1 Document Collection and Review

CONSULTANT will review printed literature including topographic maps, county agricultural maps, aerial photography (including historic photos), ground water resources, geology bulletins, potentiometric maps, pile driving records, historic construction records and other geotechnical related resources. Prior to field reconnaissance, CONSULTANT shall review U.S.G.S., S.C.S. and potentiometric maps, and identify areas with problematic soil and groundwater conditions.

Roadway

The CONSULTANT shall be responsible for coordination of all geotechnical related field work activities. The CONSULTANT shall retain all samples until acceptance of Phase IV plans. Rock cores shall be retained as directed in writing by the District Geotechnical Engineer.

Obtain pavement cores as directed in writing by the District Geotechnical Engineer.

If required by the District Geotechnical Engineer, a preliminary roadway exploration shall be performed before the Phase I plans submittal ***and shall include a preliminary economic analysis, a plan for geotechnical investigation, and all field reconnaissance results.*** The preliminary roadway exploration will be performed and results provided to the Engineer of Record to assist in setting roadway grades and locating potential problem areas. The preliminary roadway exploration shall ***note, but not be limited to, the following as applicable unless directed otherwise*** in writing by the District Geotechnical Engineer.

- ***Location survey stakes***
- ***Bench marks***
- ***Geological formation***
- ***Surface soils (i.e., potential muck pockets)***
- ***Surface water table***
- ***General site conditions***

- ***Debris and/or sanitary dump locations***
- ***Rock type***
- ***Conditions for detours***
- ***Foundation type, condition and location***
- ***Nearby structure type, condition and location***
- ***Evidence of scour***
- ***Site conditions relevant to boring plan including utilities, site access, private property access, equipment necessary, etc.***
- ***Flow through soils, dunes, exposure, flood elevations on FIRM maps***
- ***Possible obstructions to construction***

CONSULTANT shall perform specialized field-testing as required by project needs and as directed in writing by the District Geotechnical Engineer.

All laboratory testing and classification will be performed in accordance with applicable DEPARTMENT standards, ASTM Standards or AASHTO Standards, and the Florida Department of Transportation Soils and Foundations Handbook unless otherwise specified in the Contract Documents.

35.2 Develop Detailed Boring Location Plan

Develop a detailed boring location plan. Meet with DEPARTMENT Geotechnical Project Manager for boring plan approval. If the drilling program expects to encounter artesian conditions, the CONSULTANT shall submit a methodology(s) for plugging the borehole to the DEPARTMENT for approval prior to commencing with the boring program.

35.3 Stake Borings/Utility Clearance

Stake borings and obtain utility clearance.

35.4 Muck Probing

Probe standing water and surficial muck in a detailed pattern sufficient for determining removal limits to be shown in the Plans.

35.5 Coordinate and Develop TTCP for Field Investigation

Coordinate and develop Temporary Traffic Control Plan (TTCP). All work zone traffic control will be performed in accordance with the DEPARTMENT's Standard Plans Index 102 series.

35.6 Drilling Access Permits (Not applicable to these projects)

35.7 Property Clearances (Not applicable to these projects)

35.8 Groundwater Monitoring (Not applicable to these projects)

35.9 LBR / Resilient Modulus Sampling

Collect appropriate samples for Limerock Bearing Ratio (LBR) testing. Deliver Resilient

Modulus samples to the District Materials Office or the State Materials Office in Gainesville, as directed by the DEPARTMENT.

35.10 Coordination of Field Work

Coordinate all field work required to provide geotechnical data for the project.

35.11 Soil and Rock Classification - Roadway

Refine soil profiles recorded in the field, based on results of laboratory testing.

35.12 Design LBR (Not applicable to these projects)

35.13 Laboratory Data

The laboratory testing for roadway shall consist of, but not be limited to, the following tests by designated procedures or directives available from the Geotechnical Project Manager:

- ***Sieve analysis conducted according to AASHTO T88 and additional applicable methods: AASHTO M-92, AASHTO M 145, AASHTO M 146, AASHTO M 147, FM 1-T87***
- ***Atterberg limits conducted according to AASHTO T89 and AASHTO T90 and additional applicable methods: FM 1-T 87, AASHTO M 146***
- ***LBR tests conducted according to FM 5-515 and additional applicable methods: Modification of AASHTO T-180 Method D, AASHTO M-92***
- ***Corrosion testing for alternate culvert materials including pH (FM 5-550), resistivity (FM 5-551), chloride content (FM 5-552) and sulfate content (FM 5-553), and/or according to FDOT directives***
- ***Consolidation tests according to AASHTO T216 with an unload/reload cycle near the pre-consolidation pressure***
- ***Triaxial compression tests according to AASHTO T297***
- ***Moisture content according to AASHTO T265***
- ***Conduct hydrometer analysis according to AASHTO T88***
- ***Organic content according to FM 1-T 267 and additional applicable methods: AASHTO T194, AASHTO M-231, AASHTO T87***
- ***Specific Gravity according to AASHTO T100 and additional applicable methods: AASHTO T88, ASTM D-854, AASHTO 132***
- ***Torvane sensitivity and/or pocket penetrometer tests as directed by the Project Manager/Engineer***
- ***Quantitative determination of asphalt content from asphalt paving mixtures by the ignition method according to FM 5-563.***
- ***Mechanical analysis of extracted aggregate according to FM 1-T 30 and additional applicable methods: AASHTO M-231, AASHTO T27***
- ***(FM - Florida Methods available from the Tallahassee Maps and Publications Department.)***
- ***Tabulate laboratory test results for inclusion in the geotechnical report, the report of tests sheet (Roadway Soil Survey Sheet), and for any necessary calculations and***

analyses.

35.14 Seasonal High Water Table

Review the encountered ground water levels and estimate seasonal high ground water levels. Estimate seasonal low ground water levels, if requested.

35.15 Parameters for Water Retention Areas (Not applicable to these projects)

35.16 Delineate Limits of Unsuitable Material

Delineate limits of unsuitable material(s) in both horizontal and vertical directions. Assist the Engineer of Record with detailing these limits on the cross-sections. If requested, prepare a plan view of the limits of unsuitable material.

35.17 Electronic Files for Cross-Sections

Create electronic files of boring data for cross-sections.

35.18 Embankment Settlement and Stability (Not applicable to these projects)

35.19 Monitor Existing Structures (For FPID 219722-5 only)

Provide Roadway EOR guidance on the radius to review existing structures for monitoring.

Optional services (may be negotiated at a later date if needed): Identify existing structures in need of settlement, vibration and/or groundwater monitoring by the CONTRACTOR during construction and coordinate with the EOR and structural engineer (when applicable) to develop mitigation strategies. When there is risk of damage to the structure or facility, provide recommendations in the geotechnical report addressing project specific needs and coordinate those locations with the EOR. See FDM Chapter 307 and Chapter 9 of the Soils and Foundations Handbook.

35.20 Stormwater Volume Recovery and/or Background Seepage Analysis (Not applicable to these projects)

35.21 Geotechnical Recommendations

Provide geotechnical recommendations regarding the proposed roadway construction project including the following: description of the site/alignment, design recommendations and discussion of any special considerations (e.g. removal of unsuitable material, consolidation of weak soils, estimated settlement time/amount, groundwater control, high groundwater conditions relative to pavement base, etc.) Evaluate and recommend types of geosynthetics and properties for various applications, as required.

35.22 Pavement Condition Survey and Pavement Evaluation Report

Pavement Evaluation Report: Pavement coring, testing, and a pavement condition evaluation shall be performed by the CONSULTANT. The evaluation and report submittal shall be in accordance with Section 3.2 of the Materials Manual: Flexible Pavement Coring and Evaluation. The CONSULTANT will be responsible for

recommendations regarding milling and recycling.

The condition of the pavement at each core location shall be observed and recorded on the Pavement Evaluation Coring and Condition Data Sheet (Form #675-030-09), and input into the Pavement Coring Reporting (PCR) system.

The CONSULTANT shall provide the District Materials Office the opportunity to review the Pavement Coring. A Coring plan shall be submitted to the District Bituminous Engineer, for concurrence, prior to commencing with any coring. If performed by the CONSULTANT - The Pavement Design shall be submitted for concurrence, prior to the first phase submittal.

35.23 Preliminary Roadway Report

If a preliminary roadway investigation is performed, submit a preliminary roadway report before the Phase I plans submittal. The purpose of the preliminary roadway report will be to assist in setting road grades and locating potential problems.

- Copies of U.S.G.S. and S.C.S. maps with project limits shown.
- A report of tests sheet that summarizes the laboratory test results, the soil stratification (i.e., soils grouped into layers of similar materials) and construction recommendations relative to Standard Plans Indices 120-001 and 120-002.
- The results of all tasks discussed in all previous sections regarding data interpretation and analysis.
- An appendix that contains stratified soil boring profiles, laboratory test data sheets, sample embankment settlement and stability calculations, design LBR calculation/graphs, and other pertinent calculations.
- The CONSULTANT will respond in writing to any changes and/or comments from the DEPARTMENT and submit any responses and revised reports.

35.24 Final Report

The Final Roadway Report shall include the following:

- ***Copies of U.S.G.S. and S.C.S. maps with project limits shown.***
- ***A report of tests sheet that summarizes the laboratory test results, the soil stratification (i.e., soils grouped into layers of similar materials, including water tables plotted to elevation) and construction recommendations relative to Standard Plans Index 120-001 and 120-002. The results of all tasks discussed in all previous sections regarding data interpretation and analysis.***
- ***An appendix that contains stratified soil boring profiles, laboratory test data sheets, sample embankment settlement and stability calculations, design LBR calculations/graphs, seasonal high and/or low water tables, and other pertinent calculations.***
- ***Electronic input files for plotting the boring data on the plan and cross section sheets.***

Final reports will incorporate comments from the DEPARTMENT and contain any additional field or laboratory test results, design parameters and special provisions for the contract plans. These reports will be submitted to the District Geotechnical Engineer

for review prior to project completion. After review by the District Geotechnical Engineer, the reports will be submitted to the District Geotechnical Engineer in final form and will include the following:

- ***All original plan sheets (11 x 17)***
- ***One set of all plan and specification documents, in electronic format, according to DEPARTMENT requirements***
- ***Two sets of record prints***
- ***Six sets of any special provisions***
- ***All reference and support documentation used in preparation of contract plans package***
- ***One (1) electronic copy of the Plans***
- ***One (1) electronic copy of the Specifications***
- ***One (1) electronic copy of the Special Provisions***
- ***One (1) electronic copy of all reference and support documentation***

The CONSULTANT shall submit the following deliverables in addition to the Final Report:

- ***One (1) electronic copy of the completed Soil Boring GIS Data Sheets for publishing on FDOT's GIS Soil Boring Database according to District requirements***
- ***One (1) electronic copy of the Report of Core Boring Sheets***

Additional final reports (up to four), aside from stated above, may be needed and requested for the DEPARTMENT's Project Manager and other disciplines.

The final reports and special provisions, as well as record prints, will be electronically signed and sealed by a Professional Engineer licensed in the State of Florida.

Draft the detailed boring/sounding standard sheet, including environmental classification, results of laboratory testing, and specialized construction requirements, for inclusion in final plans.

35.25 Auger Boring Drafting

Draft auger borings as directed by the DEPARTMENT.

35.26 SPT Boring Drafting

Draft SPT borings as directed by the DEPARTMENT.

Structures

35.27 Develop Detailed Boring Location Plan (Not applicable to these projects)

35.28 Stake Borings/Utility Clearance (Not applicable to these projects)

35.29 Coordinate and Develop TTCP for Field Investigation (Not applicable to these projects)

35.30 Drilling Access Permits (Not applicable to these projects)

35.31 Property Clearances (Not applicable to these projects)

35.32 Collection of Corrosion Samples (Not applicable to these projects)

35.33 Coordination of Field Work (Not applicable to these projects)

35.34 Soil and Rock Classification - Structures (Not applicable to these projects)

35.35 Tabulation of Laboratory Data (Not applicable to these projects)

35.36 Estimate Design Groundwater Level for Structures (Not applicable to these projects)

35.37 Selection of Foundation Alternatives (BDR) (Not applicable to these projects)

35.38 Detailed Analysis of Selected Foundation Alternate(s) (Not applicable to these projects)

35.39 Bridge Construction and Testing Recommendations (Not applicable to these projects)

35.40 Lateral Load Analysis (Optional) (Not applicable to these projects)

35.41 Walls (Not applicable to these projects)

35.42 Sheet Pile Wall Analysis (Optional) (Not applicable to these projects)

35.43 Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations (Not applicable to these projects)

35.44 Box Culvert Analysis (Not applicable to these projects)

35.45 Preliminary Report - BDR (Not applicable to these projects)

35.46 Final Report - Bridge and Associated Walls (Not applicable to these projects)

35.47 Final Reports - Signs, Signals, Box Culvert, Walls, and High Mast Lights (Not applicable to these projects)

35.48 SPT Boring Drafting (Not applicable to these projects)

35.49 Other Geotechnical (Not applicable to these projects)

35.50 Technical Special Provisions and Modified Special Provisions (Not applicable to these projects)

35.51 Field Reviews

Identify and note surface soil and rock conditions, surface water conditions and locations, and preliminary utility conflicts. Observe and note nearby structures and foundation types.

35.52 Technical Meetings

35.53 Quality Assurance/Quality Control

35.54 Supervision

35.55 Coordination

36 3D MODELING

The CONSULTANT shall analyze and document Roadway Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

The CONSULTANT shall deliver all master design files, 3D surface design models, and all supporting digital files for the development of plans as required in the FDOT CADD Manual.

The CONSULTANT shall prepare a 3D model using the latest FDOT software in accordance with the FDOT CADD Manual. Includes all efforts required for developing files for 3D deliverables supporting automated machine guidance for design models. This includes importing survey data and creation of existing 3D surface features and models, and developing proposed corridor models with necessary detail of features to depict the proposed project in 3D to comply with the FDOT CADD Manual.

The CONSULTANT shall add detail to the corridor and design model for 3D design. Includes many elements that contribute to this including but not limited to slope transitions, typical section transitions, changes in pavement depth, berms, swales/ditches, and other feature transitions. Extra corridor structure leads to extra assemblies, extra targeting, etc.

The CONSULTANT shall create an accurate roadway design model which includes modeling the intersections.

The CONSULTANT shall submit .dgn files associated with the 3D Model and their respective components.

36.1 Phase I 3D Design Model

The CONSULTANT shall prepare, submit, and present for review by the DEPARTMENT, Phase I 3D interactive model, comprised of, but not limited to: Existing features (pavement, shoulders, sidewalk, curb/gutter, utilities-if required per scope, drainage - if required per scope) and proposed corridor(s).

36.2 Phase II 3D Design Model

The CONSULTANT shall prepare, submit, and present for review by the DEPARTMENT, Phase II 3D model, comprised of, but not limited to: Modification of the Phase I model to update the model to comply with changes based on the Phase I review comments and to include the addition of ponds, floodplain compensation sites, retaining walls, barrier walls, guardrail terminals, cross overs, gore areas, side street connections, roundabouts, and

driveways.

36.3 Phase III 3D Design Model

The CONSULTANT shall prepare, submit, and present for review by the DEPARTMENT, Phase III 3D model and 3D deliverables files for review, comprised of, but not limited to: Modification of the Phase II model to update the model to comply with changes based on the Phase II review comments and to further refine areas of transition between templates, detailed grading areas, bridge approaches and end bents, median noses, shoulder transition areas, retaining walls, barrier walls and guardrail.

36.4 Final 3D Model Design

The CONSULTANT shall prepare for review by DEPARTMENT, the Phase IV 3D model and deliverables, comprised of, but not limited to: Modification of the Phase III model to update the model to comply with changes based on the phase III review comments and to accurately generate, export and otherwise prepare the final 3D deliverable files as described in the FDOT CADD Manual.

36.5 Cross Section Design Files

The CONSULTANT shall establish and develop cross section design files in accordance with the FDOT CADD manual and FDOT Design Manual. Includes all work required to establish and utilize intelligent/automated methods for creating cross sections including determining the locations for which all cross sections will be shown, existing and proposed features, cross section refinement, placement of utilities and drainage, soil boxes, R/W lines, earthwork calculations, and other required labeling.

36.6 Template and Assembly Development (Optional)

The CONSULTANT shall prepare for approval by DEPARTMENT, project specific templates/assemblies needed to develop the features required to deliver the 3D model.

36.7 Quality Assurance/Quality Control

36.8 Supervision

36.9 Coordination

37 PROJECT REQUIREMENTS

37.1 Liaison Office

The DEPARTMENT and the CONSULTANT will designate a Liaison Office and a Project Manager who shall be the representative of their respective organizations for the Project. While it is expected the CONSULTANT shall seek and receive advice from various state, regional, and local agencies, the final direction on all matters of this project remain with the DEPARTMENT Project Manager.

37.2 Key Personnel

The CONSULTANT's work shall be performed and directed by the key personnel identified in the proposal presentations by the CONSULTANT. Any changes in the indicated personnel shall be subject to review and approval by DEPARTMENT.

37.3 Progress Reporting

The CONSULTANT shall meet with the DEPARTMENT as required and shall provide a written monthly progress report with approved schedule, schedule status, and payout curve or by using the earned value method that describe the work performed on each task. The report will include assessing project risk through monthly documentation of identifying and updating the risk category and approach for monitoring those tasks. Invoices shall be submitted after the DEPARTMENT approves the monthly progress report and the payout curve or with earned value analysis. The Project Manager will make judgment on whether work of sufficient quality and quantity has been accomplished by comparing the reported percent complete against actual work accomplished.

37.4 Correspondence

Copies of all written correspondence between the CONSULTANT and any party pertaining specifically to this contract shall be provided to the DEPARTMENT for their records within one (1) week of the receipt or mailing of said correspondence.

37.5 Professional Endorsement

The CONSULTANT shall have a Licensed Professional Engineer in the State of Florida sign and seal all reports, documents, Technical Special Provisions and Modified Special Provisions, and plans as required by DEPARTMENT standards.

37.6 Computer Automation

The project will be developed utilizing Computer Aided Drafting and Design (CADD) systems. The DEPARTMENT makes available software to help assure quality and conformance with policy and procedures regarding CADD. It is the responsibility of the CONSULTANT to meet the requirements in the FDOT CADD Manual. The CONSULTANT shall submit final documents and files as described therein.

37.7 Coordination with Other Consultants

The CONSULTANT is to coordinate his work with any and all adjacent and integral CONSULTANTs so as to effect complete and homogenous plans and specifications for the project(s) described herein.

37.8 Optional Services

At the DEPARTMENT's option, the CONSULTANT may be requested to provide optional services. The fee for these services shall be negotiated in accordance with the terms detailed in Exhibit B, Method of Compensation, for a fair, competitive and reasonable cost, considering the scope and complexity of the project(s). Additional services may be

authorized by Letter of Authorization or supplemental amendment in accordance with paragraph 2.00 of the Standard Consultant Agreement. The additional services may include Construction Assistance, Review of Shop Drawings, Final Bridge Load Rating, update (Category II) bridge plans electronically (CADD) for the Final "As-Built" conditions, based on documents provided by the DEPARTMENT (CADD Services Only) or other Services as required.

At this time, there have been NO "optional" or "supplemental" services identified to be negotiated.

38 INVOICING LIMITS

Payment for the work accomplished shall be in accordance with Method of Compensation of this contract. Invoices shall be submitted to the DEPARTMENT through the DEPARTMENT's Consultant Invoice Transmittal System (CITS) or in a format prescribed by the DEPARTMENT. The DEPARTMENT Project Manager and the CONSULTANT shall monitor the cumulative invoiced billings to ensure the reasonableness of the billings compared to the project schedule and the work accomplished and accepted by the DEPARTMENT.

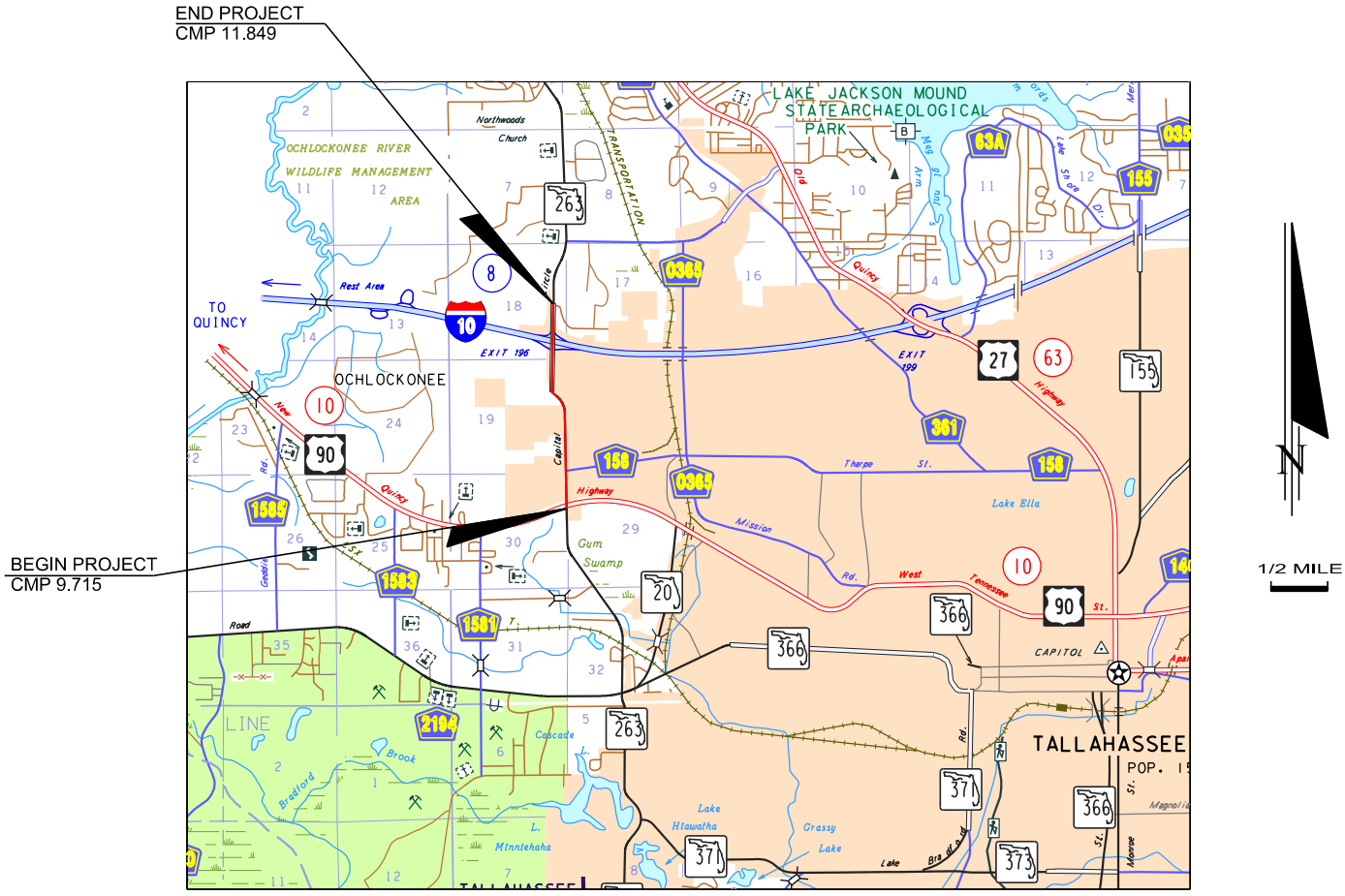
The CONSULTANT shall provide a list of key events and the associated total percentage of work considered to be complete at each event. This list shall be used to control invoicing. Payments will not be made that exceed the percentage of work for any event until those events have actually occurred and the results are acceptable to the DEPARTMENT.

Leon County

Resurfacing, Rehabilitation & Restoration (RRR) Project

State Road 263 (Capital Circle NW)
From State Road 10 (Tennessee Street) to North of State Road 8 (I-10)

FPID: 219722-5
Section No.: 55002000



PROJECT LOCATION MAP

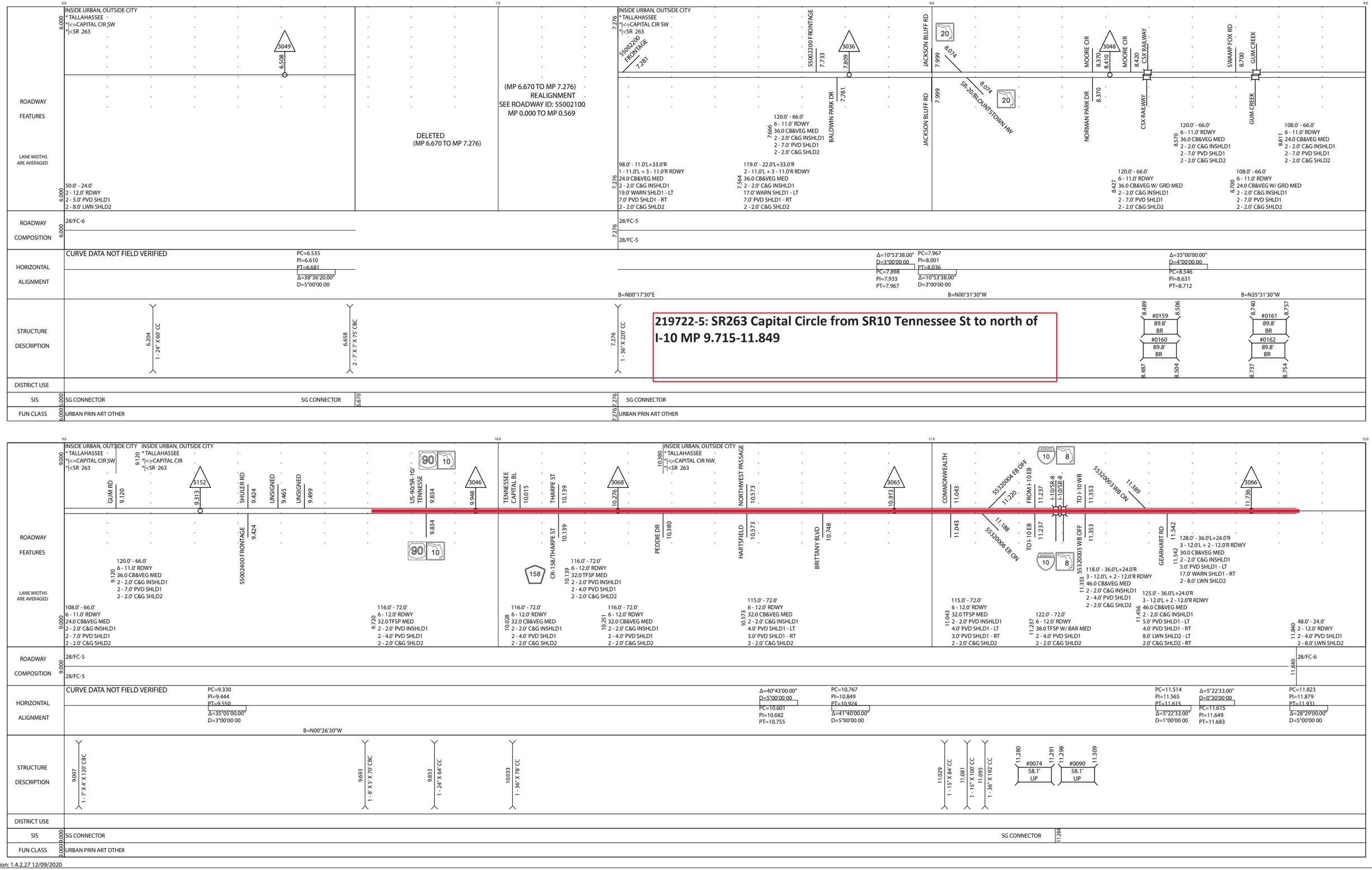
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	11/16/2020	12/09/2020				
BY	Ceteris	Ceteris				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
12	US 319	SR 263/CR 0361	LEON	03	55002000	2 OF 3

219722-5: SR263 Capital Circle from SR10 Tennessee St to north of I-10 MP 9.715-11.849



Date: 8/23/2022 9:49:20 AM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 219722-5-52-01 **Letting Date:** 04/2025

Description: SR 263 CAP CIR NW FROM W OF SR 10 (US 90) TENN ST TO N OF SR 8 (I-10)

District: 03 **County:** 55 LEON **Market Area:** 03 **Units:** English
Contract Class: 7 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 2.134 MI

Project Manager: HAYS GRIFFIN

Version 3-P Project Grand Total **$6,546,538.60**
Description: SR 263 CAP CIR NW FROM W OF SR 10 (US 90) TENN ST TO N OF SR 8 (I-10). 22 WPU

Sequence: 1 RSD - Resurfacing, Divided **Net Length:** 0.313 MI 1,653 LF

Description: Section 55002000 (CMP 9.715 - 10.028); Urban, M/R 6-12' lanes, 2-4' paved shoulders, 2-2' paved inside shoulders, plus all incidentals

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ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	13,221.12	SY	$4.35	$57,511.87
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	1,090.74	TN	$185.00	$201,786.90
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	912.26	TN	$195.00	$177,890.70

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	1.00	LS	$26,500.00	$26,500.00

Turnouts/Crossovers Subcomponent

Description	Value
Asphalt Adjustment	111.00
Milling Code	Y
Friction Course Code	Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	14,675.44	SY	$4.35	$63,838.16
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	1,210.72	TN	$185.00	$223,983.20
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	1,012.61	TN	$195.00	$197,458.95

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
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	211.00	EA	$6.00	$1,266.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.25	GM	$1,250.00	$1,562.50
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.25	GM	$650.00	$812.50
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.25	GM	$5,250.00	$6,562.50
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.25	GM	$2,850.00	$3,562.50
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	1.25	GM	$5,250.00	$6,562.50
	Roadway Component Total				$969,298.28

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	1,469.01	SY	$4.35	$6,390.19
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	121.19	TN	$185.00	$22,420.15
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	101.36	TN	$195.00	$19,765.20

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	2,000.00	SY	$115.00	$230,000.00
527-2	DETECTABLE WARNINGS	890.00	SF	$30.00	$26,700.00

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	31.30	LF	$25.00	$782.50

104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	31.30 LF	$15.00	$469.50
107-1	LITTER REMOVAL	2.28 AC	$100.00	$228.00
107-2	MOWING	2.28 AC	$125.00	$285.00
	Shoulder Component Total			$307,040.54

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	32.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	2.00 / 2.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	734.51	SY	$4.35	$3,195.12
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	60.60	TN	$185.00	$11,211.00
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	50.68	TN	$195.00	$9,882.60
	Median Component Total				$24,288.72

SIGNALIZATIONS COMPONENT

Signalization 1

Description	Value
Type	Miscellaneous
Multiplier	1
Description	

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
660-4-11	VEHICLE DETECTION SYSTEM-VIDEO, CABINET	6.00	EA	$6,650.00	$39,900.00
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO, ABOVE G	24.00	EA	$5,650.00	$135,600.00
670-5-110	TRAF CNTL ASSEM, F&I, NEMA	6.00	AS	$32,000.00	$192,000.00
670-5-600	TRAF CNTL ASSEM, REMOVE	6.00	AS	$800.00	$4,800.00
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	6.00	EA	$3,500.00	$21,000.00
	Signalizations Component Total				$393,300.00

Sequence 1 Total $1,693,927.54

Sequence: 2 RSD - Resurfacing, Divided **Net Length:** 0.111 MI 586 LF

Description: Section 55002000 (CMP 10.028 - 10.139); Urban, M/R 6-12' lanes, 2-4' paved shoulders

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	4,688.64	SY	$4.35	$20,395.58
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	386.81	TN	$185.00	$71,559.85
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	323.52	TN	$195.00	$63,086.40

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
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	75.00	EA	$6.00	$450.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.44	GM	$1,250.00	$550.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.44	GM	$650.00	$286.00
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.44	GM	$5,250.00	$2,310.00
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.44	GM	$2,850.00	$1,254.00
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.44	GM	$5,250.00	$2,310.00
	Roadway Component Total				$162,201.83

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	520.96	SY	$4.35	$2,266.18
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	42.98	TN	$185.00	$7,951.30
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	35.95	TN	$195.00	$7,010.25

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	11.10	LF	$25.00	$277.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	11.10	LF	$15.00	$166.50
107-1	LITTER REMOVAL	0.81	AC	$100.00	$81.00
107-2	MOWING	0.81	AC	$125.00	$101.25
	Shoulder Component Total				$17,853.98

Sequence 2 Total $180,055.81

Sequence: 3 RSD - Resurfacing, Divided **Net Length:** 0.112 MI 591 LF

Description: Section 55002000 (CMP 10.139 - 10.251); Urban, M/R 6-12' lanes, 2-4' paved shoulders, 2-2' paved inside shoulders

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	4,730.88	SY	$4.35	$20,579.33
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	390.30	TN	$185.00	$72,205.50
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	326.43	TN	$195.00	$63,653.85

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
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	76.00	EA	$6.00	$456.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.45	GM	$1,250.00	$562.50
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.45	GM	$650.00	$292.50
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.45	GM	$5,250.00	$2,362.50
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.45	GM	$2,850.00	$1,282.50
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.45	GM	$5,250.00	$2,362.50
	Roadway Component Total				$163,757.18

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	525.65	SY	$4.35	$2,286.58
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	43.37	TN	$185.00	$8,023.45
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	36.27	TN	$195.00	$7,072.65

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	11.20	LF	$25.00	$280.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	11.20	LF	$15.00	$168.00
107-1	LITTER REMOVAL	0.81	AC	$100.00	$81.00
107-2	MOWING	0.81	AC	$125.00	$101.25
	Shoulder Component Total				$18,012.93

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	32.00
Performance Turf Width	0.00

Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	2.00 / 2.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	262.83	SY	$4.35	$1,143.31
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	21.68	TN	$185.00	$4,010.80
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	18.14	TN	$195.00	$3,537.30
	Median Component Total				$8,691.41

Sequence 3 Total $190,461.52

Sequence: 4 RSD - Resurfacing, Divided **Net Length:** 0.322 MI 1,700 LF

Description: Section 55002000 (CMP 10.251 - 10.573); Urban, M/R 6-12' lanes, 2-4' paved shoulders

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	13,601.28	SY	$4.35	$59,165.57
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	1,122.11	TN	$185.00	$207,590.35
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	938.49	TN	$195.00	$183,005.55

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
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	217.00	EA	$6.00	$1,302.00

710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.29 GM	$1,250.00	$1,612.50
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.29 GM	$650.00	$838.50
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.29 GM	$5,250.00	$6,772.50
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.29 GM	$2,850.00	$3,676.50
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	1.29 GM	$5,250.00	$6,772.50
	Roadway Component Total			$470,735.97

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	1,511.25	SY	$4.35	$6,573.94
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	124.68	TN	$185.00	$23,065.80
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	104.28	TN	$195.00	$20,334.60

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	32.20	LF	$25.00	$805.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	32.20	LF	$15.00	$483.00
107-1	LITTER REMOVAL	2.34	AC	$100.00	$234.00
107-2	MOWING	2.34	AC	$125.00	$292.50
	Shoulder Component Total				$51,788.84

Sequence 4 Total $522,524.81

Sequence: 5 RSD - Resurfacing, Divided **Net Length:** 0.470 MI 2,482 LF

Description: Section 55002000 (CMP 10.573 - 11.043); Urban, M/R 6-12' lanes, 4' paved shoulder LT, 3' paved shoulder RT

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	19,852.80	SY	$4.35	$86,359.68
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	1,637.86	TN	$185.00	$303,004.10
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	1,369.84	TN	$195.00	$267,118.80

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
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	317.00	EA	$6.00	$1,902.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.88	GM	$1,250.00	$2,350.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.88	GM	$650.00	$1,222.00
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.88	GM	$5,250.00	$9,870.00
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.88	GM	$2,850.00	$5,358.00
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	1.88	GM	$5,250.00	$9,870.00
	Roadway Component Total				$687,054.58

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 3.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	1,930.13 SY	$4.35	$8,396.07
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	159.24 TN	$185.00	$29,459.40
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	133.18 TN	$195.00	$25,970.10

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	47.00	LF	$25.00	$1,175.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	47.00	LF	$15.00	$705.00
107-1	LITTER REMOVAL	3.42	AC	$100.00	$342.00
107-2	MOWING	3.42	AC	$125.00	$427.50
	Shoulder Component Total				$66,475.07

Sequence 5 Total $753,529.65

Sequence: 6 RSD - Resurfacing, Divided **Net Length:** 0.194 MI 1,024 LF

Description: Section 55002000 (CMP 11.043 - 11.237); Urban, M/R 6-12' lanes, 4' paved shoulder LT, 3' paved shoulder RT, 2-2' paved inside shoulders

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	8,194.56	SY	$4.35	$35,646.34
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	676.05	TN	$185.00	$125,069.25
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	565.42	TN	$195.00	$110,256.90

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
706-1-1	RAISED PAVMT MARK, TYPE B	131.00	EA	$6.00	$786.00

	W/O FINAL SURF			
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.78 GM	$1,250.00	$975.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.78 GM	$650.00	$507.00
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.78 GM	$5,250.00	$4,095.00
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.78 GM	$2,850.00	$2,223.00
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.78 GM	$5,250.00	$4,095.00
	Roadway Component Total			$283,653.49

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 3.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	796.69	SY	$4.35	$3,465.60
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	65.73	TN	$185.00	$12,160.05
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	54.97	TN	$195.00	$10,719.15

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	19.40	LF	$25.00	$485.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	19.40	LF	$15.00	$291.00
107-1	LITTER REMOVAL	1.41	AC	$100.00	$141.00
107-2	MOWING	1.41	AC	$125.00	$176.25
	Shoulder Component Total				$27,438.05

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	40.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	2.00 / 2.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	455.25	SY	$4.35	$1,980.34
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	37.56	TN	$185.00	$6,948.60
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	31.41	TN	$195.00	$6,124.95
	Median Component Total				$15,053.89

Sequence 6 Total $326,145.43

Sequence: 7 RSD - Resurfacing, Divided **Net Length:** 0.116 MI 612 LF

Description: Section 55002000 (CMP 11.237 - 11.353); Urban, M/R 6-12' lanes, 2-4' paved shoulders

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	4,899.84	SY	$4.35	$21,314.30
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	404.24	TN	$185.00	$74,784.40
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	338.09	TN	$195.00	$65,927.55

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
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	78.00	EA	$6.00	$468.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.46	GM	$1,250.00	$575.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.46	GM	$650.00	$299.00

711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.46 GM	$5,250.00	$2,415.00
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.46 GM	$2,850.00	$1,311.00
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.46 GM	$5,250.00	$2,415.00
	Roadway Component Total			$169,509.25

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	544.43	SY	$4.35	$2,368.27
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	44.92	TN	$185.00	$8,310.20
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	37.57	TN	$195.00	$7,326.15

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	11.60	LF	$25.00	$290.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	11.60	LF	$15.00	$174.00
107-1	LITTER REMOVAL	0.84	AC	$100.00	$84.00
107-2	MOWING	0.84	AC	$125.00	$105.00
	Shoulder Component Total				$18,657.62

Sequence 7 Total $188,166.87

Sequence: 8 RSD - Resurfacing, Divided **Net Length:** 0.103 MI 544 LF

Description: Section 55002000 (CMP 11.353 - 11.456); Urban, M/R 3-12' lanes LT, 2-12' lanes RT, 2-4' paved shoulders

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	5
Roadway Pavement Width L/R	36.00 / 24.00
Structural Spread Rate	165

Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	3,625.60	SY	$4.35	$15,771.36
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	299.11	TN	$185.00	$55,335.35
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	250.17	TN	$195.00	$48,783.15

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	3

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	56.00	EA	$6.00	$336.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.41	GM	$1,250.00	$512.50
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.31	GM	$650.00	$201.50
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.41	GM	$5,250.00	$2,152.50
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.31	GM	$2,850.00	$883.50
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.41	GM	$5,250.00	$2,152.50
	Roadway Component Total				$126,128.36

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	483.41	SY	$4.35	$2,102.83
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	39.88	TN	$185.00	$7,377.80

337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	33.36 TN	$195.00	$6,505.20

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	10.30	LF	$25.00	$257.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	10.30	LF	$15.00	$154.50
107-1	LITTER REMOVAL	0.75	AC	$100.00	$75.00
107-2	MOWING	0.75	AC	$125.00	$93.75

Shoulder Component Total $16,566.58

Sequence 8 Total $142,694.94

Sequence: 9 RSD - Resurfacing, Divided **Net Length:** 0.086 MI 454 LF

Description: Section 55002000 (CMP 11.456 - 11.542); Urban, M/R 3-12' lanes LT, 2-12' lanes RT, 5' paved shoulder LT, 4' paved shoulder RT

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	5
Roadway Pavement Width L/R	36.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	3,027.20	SY	$4.35	$13,168.32
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	249.74	TN	$185.00	$46,201.90
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	208.88	TN	$195.00	$40,731.60

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	3

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	46.00	EA	$6.00	$276.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.34	GM	$1,250.00	$425.00
710-11-131	PAINTED PAVT	0.26	GM	$650.00	$169.00

	MARK,STD,WHITE,SKIP, 6"			
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.34 GM	$5,250.00	$1,785.00
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.26 GM	$2,850.00	$741.00
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.34 GM	$5,250.00	$1,785.00
	Roadway Component Total			$105,282.82

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 0.00
Paved Outside Shoulder Width L/R	5.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	454.08	SY	$4.35	$1,975.25
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	37.46	TN	$185.00	$6,930.10
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	31.33	TN	$195.00	$6,109.35
570-1-3	PERFORMANCE TURF, SOD AND SOIL	134.71	SY	$4.25	$572.52

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	8.60	LF	$25.00	$215.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	8.60	LF	$15.00	$129.00
107-1	LITTER REMOVAL	0.63	AC	$100.00	$63.00
107-2	MOWING	0.63	AC	$125.00	$78.75
	Shoulder Component Total				$16,072.97

Sequence 9 Total $121,355.79

Sequence: 10 RSD - Resurfacing, Divided **Net Length:** 0.298 MI 1,573 LF

Description: Section 55002000 (CMP 11.542 - 11.840); Urban, M/R 3-12' lanes LT, 2-12' lanes RT, 5' paved shoulder LT, 17' paved shoulder RT

EARTHWORK COMPONENT

User Input Data

Description	Value

Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.19	AC	$50,000.00	$9,500.00
	Earthwork Component Total				$9,500.00

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	5
Roadway Pavement Width L/R	36.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	10,489.60	SY	$4.35	$45,629.76
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	865.39	TN	$185.00	$160,097.15
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	723.78	TN	$195.00	$141,137.10

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	3

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	161.00	EA	$6.00	$966.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.19	GM	$1,250.00	$1,487.50
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.89	GM	$650.00	$578.50
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.19	GM	$5,250.00	$6,247.50
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.89	GM	$2,850.00	$2,536.50
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	1.19	GM	$5,250.00	$6,247.50
	Roadway Component Total				$364,927.51

SHOULDER COMPONENT

User Input Data

Description	Value

Total Outside Shoulder Width L/R	10.00 / 20.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	5.00 / 17.00
Structural Spread Rate	0
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-12	MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH	3,846.19	SY	$4.15	$15,961.69
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	265.39	TN	$195.00	$51,751.05
570-1-3	PERFORMANCE TURF, SOD AND SOIL	933.57	SY	$4.25	$3,967.67

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	29.80	LF	$25.00	$745.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	29.80	LF	$15.00	$447.00
107-1	LITTER REMOVAL	2.17	AC	$100.00	$217.00
107-2	MOWING	2.17	AC	$125.00	$271.25
	Shoulder Component Total				$73,360.66

Sequence 10 Total $447,788.17

Sequence: 11 RSU - Resurfacing, Undivided **Net Length:** 0.009 MI 48 LF

Description: Section 55002000 (CMP 11.840 - 11.849); Urban, M/R 2-12' lanes, 2-4' paved shoulders

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.01	AC	$50,000.00	$500.00
	Earthwork Component Total				$500.00

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	126.72	SY	$4.35	$551.23
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	10.45	TN	$185.00	$1,933.25
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	8.74	TN	$195.00	$1,704.30

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	1.00	EA	$6.00	$6.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.02	GM	$1,250.00	$25.00
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.01	GM	$850.00	$8.50
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.02	GM	$5,250.00	$105.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.02	GM	$4,300.00	$86.00
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	0.01	GM	$2,250.00	$22.50
	Roadway Component Total				$4,441.78

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	0
Friction Course Spread Rate	138
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-12	MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH	42.24	SY	$4.15	$175.30
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	2.91	TN	$195.00	$567.45
570-1-3	PERFORMANCE TURF, SOD AND SOIL	28.20	SY	$4.25	$119.85

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	0.90	LF	$25.00	$22.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	0.90	LF	$15.00	$13.50
104-18	INLET PROTECTION SYSTEM	1.00	EA	$165.00	$165.00
107-1	LITTER REMOVAL	0.02	AC	$100.00	$2.00
107-2	MOWING	0.02	AC	$125.00	$2.50
	Shoulder Component Total				$1,068.10

Sequence 11 Total $6,009.88

Sequence: 12 RSU - Resurfacing, Undivided **Net Length:** 0.440 MI 2,323 LF

Description: Left Turn Lanes

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	12.00 / 0.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	3,097.60	SY	$4.35	$13,474.56
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	255.55	TN	$185.00	$47,276.75
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	213.73	TN	$195.00	$41,677.35

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.76	GM	$1,250.00	$2,200.00
	Roadway Component Total				$104,628.66

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00

Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
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 ï¿½No. of Sides	0

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	44.00	LF	$25.00	$1,100.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	44.00	LF	$15.00	$660.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	$165.00	$165.00
107-1	LITTER REMOVAL	1.06	AC	$100.00	$106.00
107-2	MOWING	1.06	AC	$125.00	$132.50
	Shoulder Component Total				$2,163.50

Sequence 12 Total $106,792.16

Sequence: 13 RSU - Resurfacing, Undivided **Net Length:** 0.560 MI 2,957 LF

Description: Right Turn Lanes

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 17.00
Structural Spread Rate	165
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	5,585.07	SY	$4.35	$24,295.05
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	460.77	TN	$185.00	$85,242.45
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	385.37	TN	$195.00	$75,147.15

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	2.24 GM	$1,250.00	$2,800.00
	Roadway Component Total			$187,484.65

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
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 ï¿½No. of Sides	0

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	56.00	LF	$25.00	$1,400.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	56.00	LF	$15.00	$840.00
104-18	INLET PROTECTION SYSTEM	2.00	EA	$165.00	$330.00
107-1	LITTER REMOVAL	1.36	AC	$100.00	$136.00
107-2	MOWING	1.36	AC	$125.00	$170.00
	Shoulder Component Total				$2,876.00

Sequence 13 Total $190,360.65

Date: 8/23/2022 9:49:23 AM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 219722-5-52-01 **Letting Date:** 04/2025

Description: SR 263 CAP CIR NW FROM W OF SR 10 (US 90) TENN ST TO N OF SR 8 (I-10)

District: 03 **County:** 55 LEON **Market Area:** 03 **Units:** English

Contract Class: 7 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 2.134 MI

Project Manager: HAYS GRIFFIN

Version 3-P Project Grand Total **$6,546,538.60**

Description: SR 263 CAP CIR NW FROM W OF SR 10 (US 90) TENN ST TO N OF SR 8 (I-10). 22 WPU

Resurfacing Lane Mile Cost **$492,962.24**

Project Sequences Subtotal **$4,869,813.22**

102-1	Maintenance of Traffic	10.00 %	$486,981.32
101-1	Mobilization	10.00 %	$535,679.45

Project Sequences Total		**$5,892,473.99**
Project Unknowns	10.00 %	$589,247.40
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	$64,817.21	$64,817.21
Project Non-Bid Subtotal					**$64,817.21**

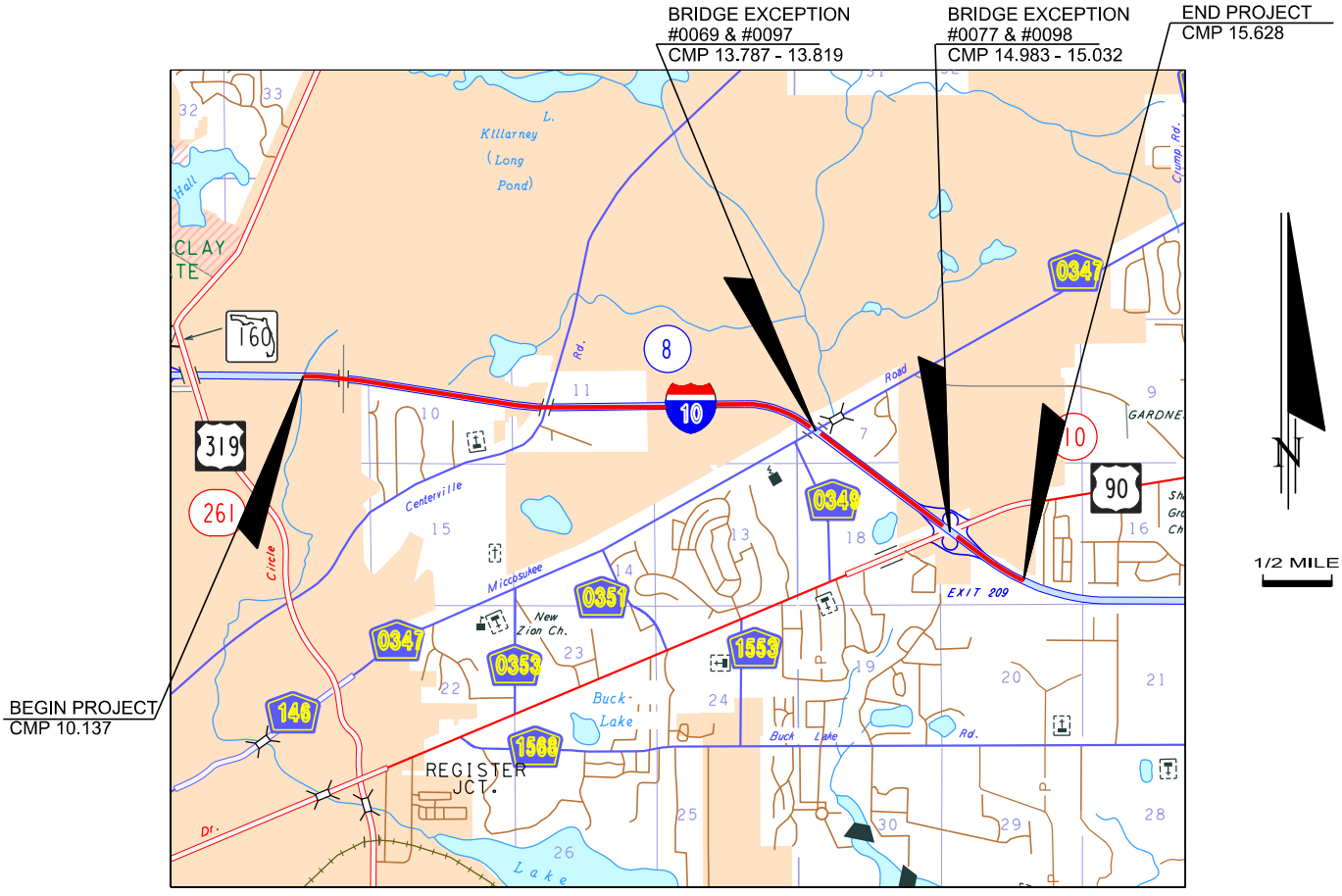
Version 3-P Project Grand Total **$6,546,538.60**

Leon County

Resurfacing, Rehabilitation & Restoration (RRR) Project

SR 8 (I-10)
From West of Olson Road to East of SR 10 (US 90/ Mahan Drive)

FPID: 417643-2
Section No.: 55320000, 55320020, 55320023, 55320024, 55320026, 55320028, 55320029, 55320030, 55320031



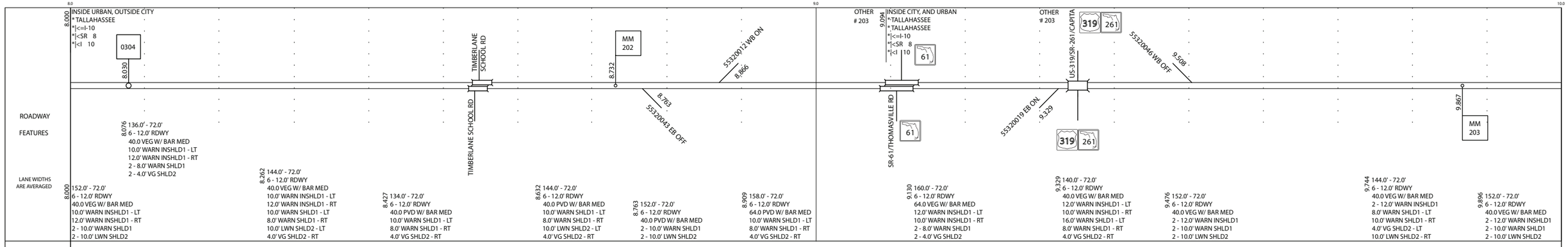
PROJECT LOCATION MAP

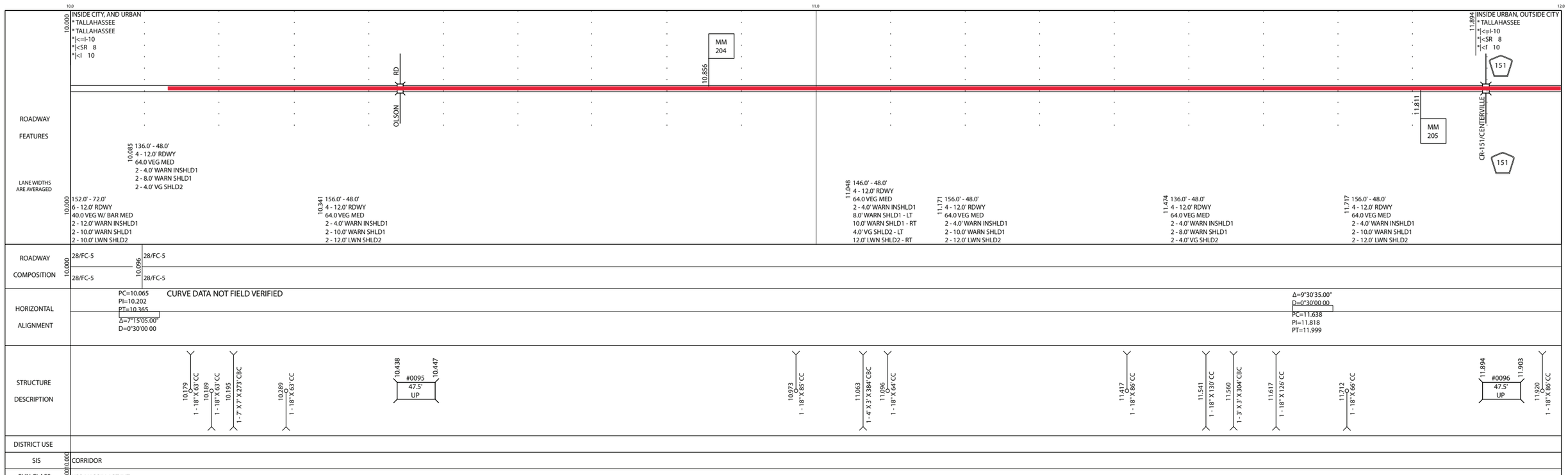
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	01/12/2021	01/19/2021				
BY	Ceteris	Ceteris				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 10	SR 8	LEON	03	55320000	3 OF 6





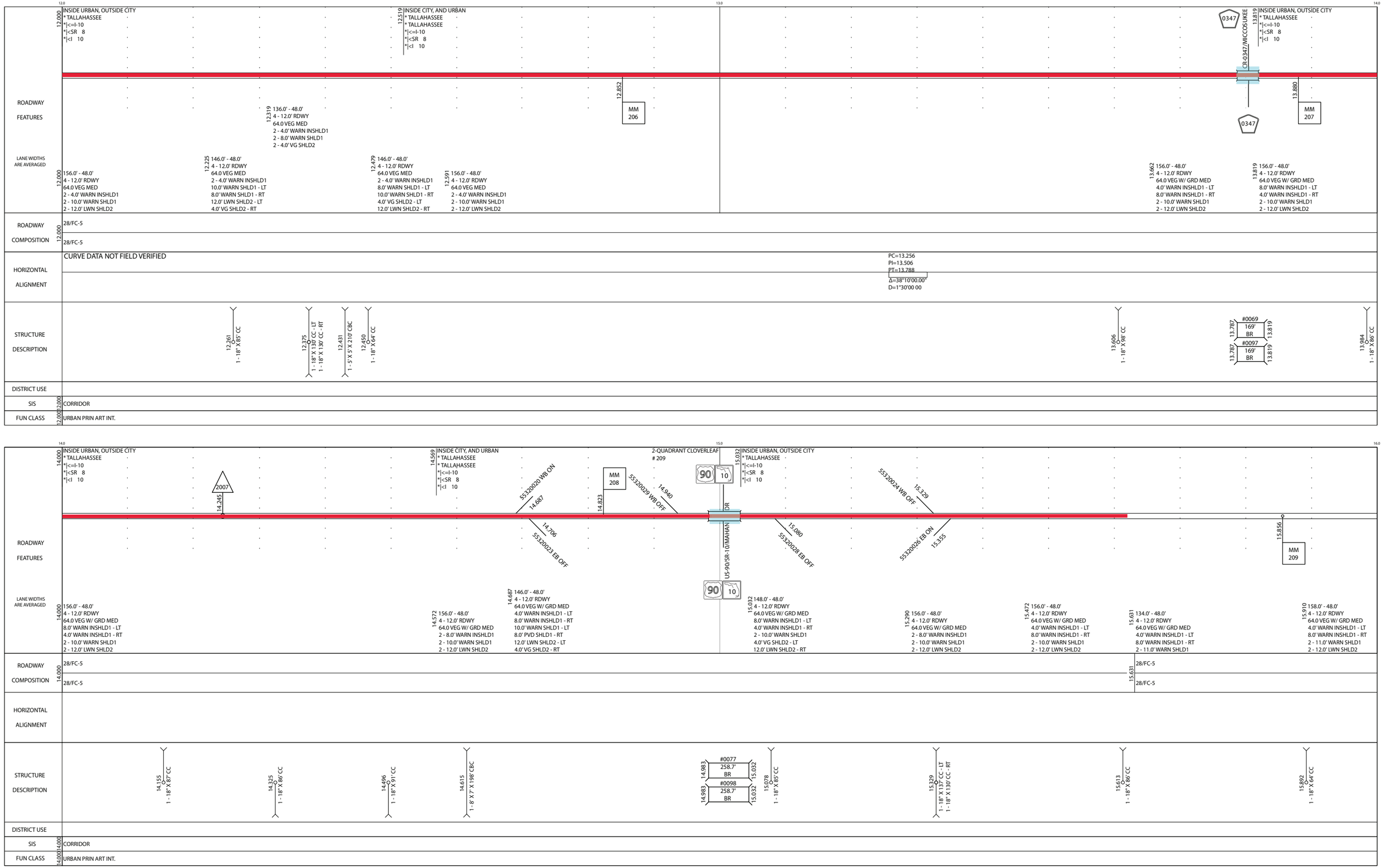
417643-2: SR 8 (I-10) from West of Olson Road to East of SR 10 (US 90/ Mahan Dr) MP 10.137 - 15.628

	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	01/12/2021	01/19/2021				
BY	Ceteris	Ceteris				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 10	SR 8	LEON	03	55320000	4 OF 6



Version: 1.4.2.27 01/19/2021

Date: 8/23/2022 9:49:44 AM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 417643-2-52-01 **Letting Date:** 03/2025

Description: SR 8 (I-10) FROM W OF OLSON RD TO E OF SR 10 (US 90) MAHAN DRIVE

District: 03 **County:** 55 LEON **Market Area:** 03 **Units:** English
Contract Class: 1 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 5.491 MI

Project Manager: HAYS GRIFFIN

Version 3-P Project Grand Total **$14,634,188.92**

Description: SR 8 (I-10) FROM W OF OLSON RD TO E OF SR 10 (US 90) MAHAN DRIVE - 3R Candidate 2021 - 2022 WPU 6/2/2022 JS

Sequence: 1 RSD - Resurfacing, Divided **Net Length:** 0.204 MI 1,077 LF

Description: SECTION 55320000 (CMP 10.137 - 10.341); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 2-8' SHLDRS, PLUS ALL INCIDENTALS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.13

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.13 AC	$25,878.61	$3,364.22
110-1-1	CLEARING & GRUBBING	0.13 AC	$25,878.61	$3,364.22
	Earthwork Component Total			$6,728.44

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	5,744.64 SY	$3.74	$21,484.95
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	789.89 TN	$170.00	$134,281.30
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	229.79 TN	$200.00	$45,958.00

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	837.90 TN	$170.00	$142,443.00

	Comment: 4% FOR OVERBUILD				
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	24,170.00	LF	$22.00	$531,740.00
536-1-3	GUARDRAIL- ROADWAY, DOUBLE FACE	1,537.00	LF	$30.00	$46,110.00
536-8-112	GUARDRA CONN TO RIGID BA, F&I, N APPR 3	8.00	EA	$3,200.00	$25,600.00
536-8-113	GUARDRL TRANS CONN TO RIGID BA, F&I, TR	8.00	EA	$1,332.18	$10,657.44
536-85-20	GUARDRAIL END TREAT-TRAILING ANCHORAGE	28.00	EA	$1,200.00	$33,600.00
536-85-24	GUARDRAIL END TREATMENT-PARA APP TERM	28.00	EA	$3,100.00	$86,800.00
536-85-27	GUARDRAIL END TREAT- DOUB FACE APPR TER	2.00	EA	$10,500.00	$21,000.00
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	10.83	GM	$1,466.31	$15,880.14
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	1.00	LS	$110,000.00	$110,000.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.17	GM	$50,000.00	$8,500.00
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.17	GM	$25,000.00	$4,250.00
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.17	GM	$50,000.00	$8,500.00

EX-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
0904-540-13	HIGH TENSION CABLE BARRIER SYSTEM - LENGTH OF NEED SEGMENT	18,094.00	LF	$25.00	$452,350.00
0904-540-14	HIGH TENSION CABLE BARRIER SYSTEM - END TERMINAL	16.00	EA	$10,000.00	$160,000.00
0904-540-15	HIGH TENSION CABLE BARRIER SYSTEM, END TERMINAL FOUNDATION - MISCELLANEOUS DRILL	64.00	CY	$650.00	$41,600.00
0904-540-16	HIGH TENSION CABLE BARRIER, CONCRETE MOW STRIP	18,094.00	LF	$35.00	$633,290.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	83.00	EA	$5.90	$489.70
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.82	GM	$1,000.00	$820.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.41	GM	$506.48	$207.66
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.82	GM	$4,560.00	$3,739.20
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.41	GM	$2,130.00	$873.30

711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.82 GM	$4,567.00	$3,744.94

Roadway Component Total $2,543,919.63

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	8.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,914.88	SY	$2.75	$5,265.92
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	157.98	TN	$170.00	$26,856.60
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.41	GM	$1,466.31	$601.19
570-1-3	PERFORMANCE TURF, SOD AND SOIL	639.09	SY	$4.25	$2,716.13

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	20.40	LF	$15.00	$306.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	20.40	LF	$10.00	$204.00
107-1	LITTER REMOVAL	1.48	AC	$65.00	$96.20
107-2	MOWING	1.48	AC	$75.00	$111.00

Shoulder Component Total $36,157.04

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	957.44	SY	$2.75	$2,632.96
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	78.99	TN	$170.00	$13,428.30

570-1-3	PERFORMANCE TURF, SOD AND SOIL	639.09 SY	$4.25	$2,716.13

Median Component Total $18,777.39

Sequence 1 Total $2,605,582.50

Sequence: 2 RSD - Resurfacing, Divided **Net Length:** 0.707 MI 3,733 LF

Description: SECTION 55320000 (CMP 10.341 - 11.048); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.46

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.46 AC	$25,878.61	$11,904.16
110-1-1	CLEARING & GRUBBING	0.46 AC	$25,878.61	$11,904.16

Earthwork Component Total $23,808.32

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	19,909.12 SY	$3.74	$74,460.11
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	2,737.50 TN	$170.00	$465,375.00
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	796.36 TN	$200.00	$159,272.00

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	2

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B	286.00 EA	$5.90	$1,687.40

	W/O FINAL SURF			
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	2.83 GM	$1,000.00	$2,830.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.41 GM	$506.48	$714.14
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	2.83 GM	$4,560.00	$12,904.80
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.41 GM	$2,130.00	$3,003.30
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	2.83 GM	$4,567.00	$12,924.61
	Roadway Component Total			$733,171.36

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	8,295.47	SY	$2.75	$22,812.54
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	684.38	TN	$170.00	$116,344.60
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.41	GM	$1,466.31	$2,067.50
570-1-3	PERFORMANCE TURF, SOD AND SOIL	2,214.89	SY	$4.25	$9,413.28

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	70.70	LF	$15.00	$1,060.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	70.70	LF	$10.00	$707.00
107-1	LITTER REMOVAL	5.14	AC	$65.00	$334.10
107-2	MOWING	5.14	AC	$75.00	$385.50
	Shoulder Component Total				$153,125.02

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T

Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	3,318.19	SY	$2.75	$9,125.02
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	273.75	TN	$170.00	$46,537.50
570-1-3	PERFORMANCE TURF, SOD AND SOIL	2,214.89	SY	$4.25	$9,413.28
	Median Component Total				$65,075.80

Sequence 2 Total $975,180.50

Sequence: 3 RSD - Resurfacing, Divided **Net Length:** 0.123 MI 649 LF

Description: SECTION 55320000 (CMP 11.048 - 11.171); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 8' SHLDR LT, 10' SHLDR RT

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.08

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.08	AC	$25,878.61	$2,070.29
110-1-1	CLEARING & GRUBBING	0.08	AC	$25,878.61	$2,070.29
	Earthwork Component Total				$4,140.58

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	3,463.68	SY	$3.74	$12,954.16
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	476.26	TN	$170.00	$80,964.20
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	138.55	TN	$200.00	$27,710.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	50.00	EA	$5.90	$295.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.49	GM	$1,000.00	$490.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.25	GM	$506.48	$126.62
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.49	GM	$4,560.00	$2,234.40
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.25	GM	$2,130.00	$532.50
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.49	GM	$4,567.00	$2,237.83
	Roadway Component Total				$127,544.71

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	8.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,298.88	SY	$2.75	$3,571.92
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	107.16	TN	$170.00	$18,217.20
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.25	GM	$1,466.31	$366.58
570-1-3	PERFORMANCE TURF, SOD AND SOIL	385.33	SY	$4.25	$1,637.65

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	12.30	LF	$15.00	$184.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	12.30	LF	$10.00	$123.00
107-1	LITTER REMOVAL	0.89	AC	$65.00	$57.85
107-2	MOWING	0.89	AC	$75.00	$66.75
	Shoulder Component Total				$24,225.45

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	577.28	SY	$2.75	$1,587.52
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	47.63	TN	$170.00	$8,097.10
570-1-3	PERFORMANCE TURF, SOD AND SOIL	385.33	SY	$4.25	$1,637.65
	Median Component Total				$11,322.27

Sequence 3 Total $167,233.01

Sequence: 4 RSD - Resurfacing, Divided **Net Length:** 0.303 MI 1,600 LF

Description: SECTION 55320000 (CMP 11.171 - 11.474); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.20

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.20	AC	$25,878.61	$5,175.72
110-1-1	CLEARING & GRUBBING	0.20	AC	$25,878.61	$5,175.72
	Earthwork Component Total				$10,351.44

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	8,532.48	SY	$3.74	$31,911.48

334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	1,173.22 TN	$170.00	$199,447.40
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	341.30 TN	$200.00	$68,260.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	123.00	EA	$5.90	$725.70
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.21	GM	$1,000.00	$1,210.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.61	GM	$506.48	$308.95
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.21	GM	$4,560.00	$5,517.60
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.61	GM	$2,130.00	$1,299.30
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	1.21	GM	$4,567.00	$5,526.07
	Roadway Component Total				$314,206.50

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	3,555.20	SY	$2.75	$9,776.80
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	293.30	TN	$170.00	$49,861.00
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.61	GM	$1,466.31	$894.45
570-1-3	PERFORMANCE TURF, SOD AND SOIL	949.24	SY	$4.25	$4,034.27

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	30.30	LF	$15.00	$454.50
104-12	STAKED TURBIDITY BARRIER-	30.30	LF	$10.00	$303.00

	NYL REINF PVC			
107-1	LITTER REMOVAL	2.20 AC	$65.00	$143.00
107-2	MOWING	2.20 AC	$75.00	$165.00
	Shoulder Component Total			$65,632.02

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	40.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,422.08	SY	$2.75	$3,910.72
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	117.32	TN	$170.00	$19,944.40
570-1-3	PERFORMANCE TURF, SOD AND SOIL	949.24	SY	$4.25	$4,034.27
	Median Component Total				$27,889.39

Sequence 4 Total $418,079.35

Sequence: 5 RSD - Resurfacing, Divided **Net Length:** 0.243 MI 1,283 LF

Description: SECTION 55320000 (CMP 11.474 - 11.717); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 2-8' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.16

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.16	AC	$25,878.61	$4,140.58
110-1-1	CLEARING & GRUBBING	0.16	AC	$25,878.61	$4,140.58
	Earthwork Component Total				$8,281.16

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4

Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	6,842.88	SY	$3.74	$25,592.37
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	940.90	TN	$170.00	$159,953.00
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	273.72	TN	$200.00	$54,744.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	98.00	EA	$5.90	$578.20
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.97	GM	$1,000.00	$970.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.49	GM	$506.48	$248.18
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.97	GM	$4,560.00	$4,423.20
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.49	GM	$2,130.00	$1,043.70
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.97	GM	$4,567.00	$4,429.99
	Roadway Component Total				$251,982.64

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	8.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	2,280.96	SY	$2.75	$6,272.64
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	188.18	TN	$170.00	$31,990.60
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.49	GM	$1,466.31	$718.49

570-1-3	PERFORMANCE TURF, SOD AND SOIL	761.27 SY	$4.25	$3,235.40

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	24.30 LF	$15.00	$364.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	24.30 LF	$10.00	$243.00
107-1	LITTER REMOVAL	1.77 AC	$65.00	$115.05
107-2	MOWING	1.77 AC	$75.00	$132.75
	Shoulder Component Total			$43,072.43

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,140.48 SY	$2.75	$3,136.32
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	94.09 TN	$170.00	$15,995.30
570-1-3	PERFORMANCE TURF, SOD AND SOIL	761.27 SY	$4.25	$3,235.40
	Median Component Total			$22,367.02

Sequence 5 Total $325,703.25

Sequence: 6 RSD - Resurfacing, Divided **Net Length:** 0.508 MI 2,682 LF

Description: SECTION 55320000 (CMP 11.717 - 12.225); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.33

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.33 AC	$25,878.61	$8,539.94
110-1-1	CLEARING & GRUBBING	0.33 AC	$25,878.61	$8,539.94

	Earthwork Component Total	$17,079.88

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	14,305.28	SY	$3.74	$53,501.75
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	1,966.98	TN	$170.00	$334,386.60
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	572.21	TN	$200.00	$114,442.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	206.00	EA	$5.90	$1,215.40
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	2.03	GM	$1,000.00	$2,030.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.02	GM	$506.48	$516.61
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	2.03	GM	$4,560.00	$9,256.80
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.02	GM	$2,130.00	$2,172.60
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	2.03	GM	$4,567.00	$9,271.01

	Roadway Component Total	$526,792.77

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	5,960.53	SY	$2.75	$16,391.46
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	491.74	TN	$170.00	$83,595.80
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.02	GM	$1,466.31	$1,495.64
570-1-3	PERFORMANCE TURF, SOD AND SOIL	1,591.46	SY	$4.25	$6,763.70

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	50.80	LF	$15.00	$762.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	50.80	LF	$10.00	$508.00
107-1	LITTER REMOVAL	3.69	AC	$65.00	$239.85
107-2	MOWING	3.69	AC	$75.00	$276.75

Shoulder Component Total $110,033.21

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	2,384.21	SY	$2.75	$6,556.58
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	196.70	TN	$170.00	$33,439.00
570-1-3	PERFORMANCE TURF, SOD AND SOIL	1,591.46	SY	$4.25	$6,763.70

Median Component Total $46,759.29

Sequence 6 Total $700,665.15

Sequence: 7 RSD - Resurfacing, Divided **Net Length:** 0.094 MI 496 LF

Description: SECTION 55320000 (CMP 12.225 - 12.319); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 10' SHLDR LT, 8' SHLDR RT

EARTHWORK COMPONENT

User Input Data

Description	Value

Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.06

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.06	AC	$25,878.61	$1,552.72
110-1-1	CLEARING & GRUBBING	0.06	AC	$25,878.61	$1,552.72
	Earthwork Component Total				$3,105.44

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	2,647.04	SY	$3.74	$9,899.93
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	363.97	TN	$170.00	$61,874.90
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	105.88	TN	$200.00	$21,176.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	38.00	EA	$5.90	$224.20
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.38	GM	$1,000.00	$380.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.19	GM	$506.48	$96.23
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.38	GM	$4,560.00	$1,732.80
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.19	GM	$2,130.00	$404.70
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.38	GM	$4,567.00	$1,735.46
	Roadway Component Total				$97,524.22

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	992.64	SY	$2.75	$2,729.76
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	81.89	TN	$170.00	$13,921.30
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.19	GM	$1,466.31	$278.60
570-1-3	PERFORMANCE TURF, SOD AND SOIL	294.48	SY	$4.25	$1,251.54

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	9.40	LF	$15.00	$141.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	9.40	LF	$10.00	$94.00
107-1	LITTER REMOVAL	0.68	AC	$65.00	$44.20
107-2	MOWING	0.68	AC	$75.00	$51.00

Shoulder Component Total $18,511.40

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	441.17	SY	$2.75	$1,213.22
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	36.40	TN	$170.00	$6,188.00
570-1-3	PERFORMANCE TURF, SOD AND SOIL	294.48	SY	$4.25	$1,251.54

Median Component Total $8,652.76

Sequence 7 Total $127,793.82

Sequence: 8 RSD - Resurfacing, Divided **Net Length:** 0.160 MI
845 LF

Description: SECTION 55320000 (CMP 12.319 - 12.479); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 2-8' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.10

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.10	AC	$25,878.61	$2,587.86
110-1-1	CLEARING & GRUBBING	0.10	AC	$25,878.61	$2,587.86
	Earthwork Component Total				$5,175.72

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	4,505.60	SY	$3.74	$16,850.94
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	619.52	TN	$170.00	$105,318.40
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	180.22	TN	$200.00	$36,044.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	65.00	EA	$5.90	$383.50
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.64	GM	$1,000.00	$640.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.32	GM	$506.48	$162.07
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.64	GM	$4,560.00	$2,918.40
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.32	GM	$2,130.00	$681.60

711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.64 GM	$4,567.00	$2,922.88
	Roadway Component Total			$165,921.79

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	8.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,501.87	SY	$2.75	$4,130.14
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	123.90	TN	$170.00	$21,063.00
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.32	GM	$1,466.31	$469.22
570-1-3	PERFORMANCE TURF, SOD AND SOIL	501.25	SY	$4.25	$2,130.31

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	16.00	LF	$15.00	$240.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	16.00	LF	$10.00	$160.00
107-1	LITTER REMOVAL	1.16	AC	$65.00	$75.40
107-2	MOWING	1.16	AC	$75.00	$87.00
	Shoulder Component Total				$28,355.07

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	750.93	SY	$2.75	$2,065.06
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	61.95	TN	$170.00	$10,531.50

570-1-3	PERFORMANCE TURF, SOD AND SOIL	501.25 SY	$4.25	$2,130.31

Median Component Total $14,726.87

Sequence 8 Total $214,179.45

Sequence: 9 RSD - Resurfacing, Divided **Net Length:** 0.112 MI 591 LF

Description: SECTION 55320000 (CMP 12.479 - 12.591); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 8' SHLDR LT, 10' SHLDR RT

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.07

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.07 AC	$25,878.61	$1,811.50
110-1-1	CLEARING & GRUBBING	0.07 AC	$25,878.61	$1,811.50

Earthwork Component Total $3,623.00

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	3,153.92 SY	$3.74	$11,795.66
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	433.66 TN	$170.00	$73,722.20
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	126.16 TN	$200.00	$25,232.00

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	2

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B	45.00 EA	$5.90	$265.50

	W/O FINAL SURF			
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.45 GM	$1,000.00	$450.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.22 GM	$506.48	$111.43
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.45 GM	$4,560.00	$2,052.00
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.22 GM	$2,130.00	$468.60
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.45 GM	$4,567.00	$2,055.15
	Roadway Component Total			$116,152.54

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	8.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,182.72	SY	$2.75	$3,252.48
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	97.57	TN	$170.00	$16,586.90
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.22	GM	$1,466.31	$322.59
570-1-3	PERFORMANCE TURF, SOD AND SOIL	350.87	SY	$4.25	$1,491.20

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	11.20	LF	$15.00	$168.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	11.20	LF	$10.00	$112.00
107-1	LITTER REMOVAL	0.81	AC	$65.00	$52.65
107-2	MOWING	0.81	AC	$75.00	$60.75
	Shoulder Component Total				$22,046.57

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T

Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	525.65 SY	$2.75	$1,445.54
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	43.37 TN	$170.00	$7,372.90
570-1-3	PERFORMANCE TURF, SOD AND SOIL	350.87 SY	$4.25	$1,491.20
	Median Component Total			$10,309.64

Sequence 9 Total $152,131.75

Sequence: 10 RSD - Resurfacing, Divided **Net Length:** 1.071 MI 5,655 LF

Description: SECTION 55320000 (CMP 12.591 - 13.662); URBAN, M/R 4-12' LANES, 2-4' INSIDE SHLDRS, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.69

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.69 AC	$25,878.61	$17,856.24
110-1-1	CLEARING & GRUBBING	0.69 AC	$25,878.61	$17,856.24
	Earthwork Component Total			$35,712.48

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	30,159.36 SY	$3.74	$112,796.01
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	4,146.91 TN	$170.00	$704,974.70
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	1,206.37 TN	$200.00	$241,274.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	434.00	EA	$5.90	$2,560.60
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	4.28	GM	$1,000.00	$4,280.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	2.14	GM	$506.48	$1,083.87
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	4.28	GM	$4,560.00	$19,516.80
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	2.14	GM	$2,130.00	$4,558.20
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	4.28	GM	$4,567.00	$19,546.76
	Roadway Component Total				$1,110,590.94

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	20.00 / 20.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	12,566.40	SY	$2.75	$34,557.60
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	1,036.73	TN	$170.00	$176,244.10
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	2.14	GM	$1,466.31	$3,137.90
570-1-3	PERFORMANCE TURF, SOD AND SOIL	3,355.23	SY	$4.25	$14,259.73

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	107.10	LF	$15.00	$1,606.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	107.10	LF	$10.00	$1,071.00
107-1	LITTER REMOVAL	7.79	AC	$65.00	$506.35
107-2	MOWING	7.79	AC	$75.00	$584.25
	Shoulder Component Total				$231,967.43

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	5,026.56	SY	$2.75	$13,823.04
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	414.69	TN	$170.00	$70,497.30
570-1-3	PERFORMANCE TURF, SOD AND SOIL	3,355.23	SY	$4.25	$14,259.73
	Median Component Total				$98,580.07

Sequence 10 Total $1,476,850.92

Sequence: 11 RSD - Resurfacing, Divided **Net Length:** 0.125 MI 660 LF

Description: SECTION 55320000 (CMP 13.662 - 13.819); URBAN, M/R 4-12' LANES, 4' INSIDE SHLDR LT, 8' INSIDE SHLDR RT, 2-10' SHLDRS

Special Conditions: EXCEPT BR'S 550069 & 550097 (CMP 13.787 - 13.819)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.08

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.08	AC	$25,878.61	$2,070.29
110-1-1	CLEARING & GRUBBING	0.08	AC	$25,878.61	$2,070.29
	Earthwork Component Total				$4,140.58

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4"	3,520.00	SY	$3.74	$13,164.80

	AVG DEPTH			
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	484.00 TN	$170.00	$82,280.00
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	140.80 TN	$200.00	$28,160.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	51.00	EA	$5.90	$300.90
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.50	GM	$1,000.00	$500.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.25	GM	$506.48	$126.62
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.50	GM	$4,560.00	$2,280.00
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.25	GM	$2,130.00	$532.50
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.50	GM	$4,567.00	$2,283.50
	Roadway Component Total				$129,628.32

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,466.67	SY	$2.75	$4,033.34
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	121.00	TN	$170.00	$20,570.00
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.25	GM	$1,466.31	$366.58
570-1-3	PERFORMANCE TURF, SOD AND SOIL	391.60	SY	$4.25	$1,664.30

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	12.50	LF	$15.00	$187.50

104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	12.50 LF	$10.00	$125.00
107-1	LITTER REMOVAL	0.91 AC	$65.00	$59.15
107-2	MOWING	0.91 AC	$75.00	$68.25
	Shoulder Component Total			$27,074.12

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 12.00
Paved Median Shoulder Width L/R	4.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	880.00	SY	$2.75	$2,420.00
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	72.60	TN	$170.00	$12,342.00
570-1-3	PERFORMANCE TURF, SOD AND SOIL	391.60	SY	$4.25	$1,664.30
	Median Component Total				$16,426.30

Sequence 11 Total $177,269.32

Sequence: 12 RSD - Resurfacing, Divided **Net Length:** 0.753 MI 3,976 LF

Description: SECTION 55320000 (CMP 13.819 - 14.572); URBAN, M/R 4-12' LANES, 8' INSIDE SHLDR LT, 4' INSIDE SHLDR RT, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.49

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.49	AC	$25,878.61	$12,680.52
110-1-1	CLEARING & GRUBBING	0.49	AC	$25,878.61	$12,680.52
	Earthwork Component Total				$25,361.04

ROADWAY COMPONENT

User Input Data

Description	Value

Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	21,204.48	SY	$3.74	$79,304.76
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	2,915.62	TN	$170.00	$495,655.40
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	848.18	TN	$200.00	$169,636.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	305.00	EA	$5.90	$1,799.50
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	3.01	GM	$1,000.00	$3,010.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.51	GM	$506.48	$764.78
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	3.01	GM	$4,560.00	$13,725.60
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.51	GM	$2,130.00	$3,216.30
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	3.01	GM	$4,567.00	$13,746.67
	Roadway Component Total				$780,859.01

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	22.00 / 22.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	8,835.20	SY	$2.75	$24,296.80
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	728.90	TN	$170.00	$123,913.00

546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.51 GM	$1,466.31	$2,214.13
570-1-3	PERFORMANCE TURF, SOD AND SOIL	2,359.00 SY	$4.25	$10,025.75

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	75.30 LF	$15.00	$1,129.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	75.30 LF	$10.00	$753.00
107-1	LITTER REMOVAL	5.47 AC	$65.00	$355.55
107-2	MOWING	5.47 AC	$75.00	$410.25

Shoulder Component Total $163,097.98

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	12.00 / 8.00
Paved Median Shoulder Width L/R	8.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	5,301.12 SY	$2.75	$14,578.08
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	437.34 TN	$170.00	$74,347.80
570-1-3	PERFORMANCE TURF, SOD AND SOIL	2,359.00 SY	$4.25	$10,025.75

Median Component Total $98,951.63

Sequence 12 Total $1,068,269.66

Sequence: 13 RSD - Resurfacing, Divided **Net Length:** 0.115 MI 607 LF

Description: SECTION 55320000 (CMP 14.572 - 14.687); URBAN, M/R 4-12' LANES, 2-8' INSIDE SHLDRS, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.07

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.07 AC	$25,878.61	$1,811.50

110-1-1	CLEARING & GRUBBING	0.07 AC	$25,878.61	$1,811.50
	Earthwork Component Total			$3,623.00

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	3,238.40	SY	$3.74	$12,111.62
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	445.28	TN	$170.00	$75,697.60
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	129.54	TN	$200.00	$25,908.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	47.00	EA	$5.90	$277.30
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.46	GM	$1,000.00	$460.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.23	GM	$506.48	$116.49
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.46	GM	$4,560.00	$2,097.60
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.23	GM	$2,130.00	$489.90
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.46	GM	$4,567.00	$2,100.82
	Roadway Component Total				$119,259.33

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	20.00 / 20.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T

Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,349.33	SY	$2.75	$3,710.66
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	111.32	TN	$170.00	$18,924.40
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.23	GM	$1,466.31	$337.25
570-1-3	PERFORMANCE TURF, SOD AND SOIL	360.27	SY	$4.25	$1,531.15

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	11.50	LF	$15.00	$172.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	11.50	LF	$10.00	$115.00
107-1	LITTER REMOVAL	0.84	AC	$65.00	$54.60
107-2	MOWING	0.84	AC	$75.00	$63.00

Shoulder Component Total $24,908.56

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	12.00 / 12.00
Paved Median Shoulder Width L/R	8.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,079.47	SY	$2.75	$2,968.54
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	89.06	TN	$170.00	$15,140.20
570-1-3	PERFORMANCE TURF, SOD AND SOIL	360.27	SY	$4.25	$1,531.15

Median Component Total $19,639.89

Sequence 13 Total $167,430.78

Sequence: 14 RSD - Resurfacing, Divided **Net Length:** 0.296 MI 1,563 LF

Description: SECTION 55320000 (CMP 14.687 - 15.032); URBAN, M/R 4-12' LANES, 4' INSIDE SHLDR LT, 8' INSIDE SHLDR RT, 10' SHLDR LT, 8' SHLDR RT

Special Conditions: EXCEPT BR'S 550077 & 550098 (CMP 14.983 - 15.032)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.19

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.19	AC	$25,878.61	$4,916.94
110-1-1	CLEARING & GRUBBING	0.19	AC	$25,878.61	$4,916.94
	Earthwork Component Total				$9,833.88

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	8,335.36	SY	$3.74	$31,174.25
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	1,146.11	TN	$170.00	$194,838.70
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	333.41	TN	$200.00	$66,682.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	120.00	EA	$5.90	$708.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.18	GM	$1,000.00	$1,180.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.59	GM	$506.48	$298.82
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.18	GM	$4,560.00	$5,380.80
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.59	GM	$2,130.00	$1,256.70
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	1.18	GM	$4,567.00	$5,389.06
	Roadway Component Total				$306,908.33

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	3,125.76	SY	$2.75	$8,595.84
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	257.88	TN	$170.00	$43,839.60
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.59	GM	$1,466.31	$865.12
570-1-3	PERFORMANCE TURF, SOD AND SOIL	927.31	SY	$4.25	$3,941.07

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	29.60	LF	$15.00	$444.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	29.60	LF	$10.00	$296.00
107-1	LITTER REMOVAL	2.15	AC	$65.00	$139.75
107-2	MOWING	2.15	AC	$75.00	$161.25
	Shoulder Component Total				$58,282.63

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	12.00 / 12.00
Paved Median Shoulder Width L/R	4.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	2,083.84	SY	$2.75	$5,730.56
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	171.92	TN	$170.00	$29,226.40
570-1-3	PERFORMANCE TURF, SOD AND SOIL	927.31	SY	$4.25	$3,941.07
	Median Component Total				$38,898.03

Sequence 14 Total $413,922.87

Sequence: 15 RSD - Resurfacing, Divided **Net Length:** 0.258 MI 1,362 LF

Description: SECTION 55320000 (CMP 15.032 - 15.290); URBAN, M/R 4-12' LANES, 8' INSIDE SHLDR LT, 4' INSIDE SHLDR RT, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.17

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.17	AC	$25,878.61	$4,399.36
110-1-1	CLEARING & GRUBBING	0.17	AC	$25,878.61	$4,399.36
	Earthwork Component Total				$8,798.72

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	7,265.28	SY	$3.74	$27,172.15
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	998.98	TN	$170.00	$169,826.60
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	290.61	TN	$200.00	$58,122.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	104.00	EA	$5.90	$613.60
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.03	GM	$1,000.00	$1,030.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.52	GM	$506.48	$263.37
711-15-101	THERMOPLASTIC, STD-OP,	1.03	GM	$4,560.00	$4,696.80

	WHITE, SOLID, 6"			
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.52 GM	$2,130.00	$1,107.60
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	1.03 GM	$4,567.00	$4,704.01
	Roadway Component Total			$267,536.13

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	3,027.20	SY	$2.75	$8,324.80
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	249.74	TN	$170.00	$42,455.80
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.52	GM	$1,466.31	$762.48
570-1-3	PERFORMANCE TURF, SOD AND SOIL	808.26	SY	$4.25	$3,435.10

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	25.80	LF	$15.00	$387.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	25.80	LF	$10.00	$258.00
107-1	LITTER REMOVAL	1.88	AC	$65.00	$122.20
107-2	MOWING	1.88	AC	$75.00	$141.00
	Shoulder Component Total				$55,886.39

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	12.00 / 12.00
Paved Median Shoulder Width L/R	8.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2"	1,816.32	SY	$2.75	$4,994.88

	AVG DEPTH			
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	149.85 TN	$170.00	$25,474.50
570-1-3	PERFORMANCE TURF, SOD AND SOIL	808.26 SY	$4.25	$3,435.10
	Median Component Total			$33,904.49

Sequence 15 Total $366,125.73

Sequence: 16 RSD - Resurfacing, Divided **Net Length:** 0.182 MI 961 LF

Description: SECTION 55320000 (CMP 15.290 - 15.472); URBAN, M/R 4-12' LANES, 2-8' INSIDE SHLDRS, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.12

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.12 AC	$25,878.61	$3,105.43
110-1-1	CLEARING & GRUBBING	0.12 AC	$25,878.61	$3,105.43
	Earthwork Component Total			$6,210.86

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	5,125.12 SY	$3.74	$19,167.95
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	704.70 TN	$170.00	$119,799.00
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	205.00 TN	$200.00	$41,000.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	74.00	EA	$5.90	$436.60
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.73	GM	$1,000.00	$730.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.36	GM	$506.48	$182.33
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.73	GM	$4,560.00	$3,328.80
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.36	GM	$2,130.00	$766.80
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.73	GM	$4,567.00	$3,333.91
	Roadway Component Total				$188,745.39

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	2,135.47	SY	$2.75	$5,872.54
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	176.18	TN	$170.00	$29,950.60
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.36	GM	$1,466.31	$527.87
570-1-3	PERFORMANCE TURF, SOD AND SOIL	570.17	SY	$4.25	$2,423.22

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	18.20	LF	$15.00	$273.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	18.20	LF	$10.00	$182.00
107-1	LITTER REMOVAL	1.32	AC	$65.00	$85.80
107-2	MOWING	1.32	AC	$75.00	$99.00
	Shoulder Component Total				$39,414.03

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	12.00 / 12.00

Paved Median Shoulder Width L/R	8.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,708.37	SY	$2.75	$4,698.02
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	140.94	TN	$170.00	$23,959.80
570-1-3	PERFORMANCE TURF, SOD AND SOIL	570.17	SY	$4.25	$2,423.22
	Median Component Total				$31,081.04

Sequence 16 Total $265,451.32

Sequence: 17 RSD - Resurfacing, Divided **Net Length:** 0.156 MI 824 LF

Description: SECTION 55320000 (CMP 15.472 - 15.628); URBAN, M/R 4-12' LANES, 4' INSIDE SHLDR LT, 8' INSIDE SHLDR RT, 2-10' SHLDRS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.10

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.10	AC	$25,878.61	$2,587.86
110-1-1	CLEARING & GRUBBING	0.10	AC	$25,878.61	$2,587.86
	Earthwork Component Total				$5,175.72

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	4,392.96	SY	$3.74	$16,429.67
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	604.03	TN	$170.00	$102,685.10
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	175.72	TN	$200.00	$35,144.00

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	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	63.00	EA	$5.90	$371.70
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.62	GM	$1,000.00	$620.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.31	GM	$506.48	$157.01
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.62	GM	$4,560.00	$2,827.20
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.31	GM	$2,130.00	$660.30
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.62	GM	$4,567.00	$2,831.54
	Roadway Component Total				$161,726.52

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 15.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,830.40	SY	$2.75	$5,033.60
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	151.01	TN	$170.00	$25,671.70
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.31	GM	$1,466.31	$454.56
570-1-3	PERFORMANCE TURF, SOD AND SOIL	488.72	SY	$4.25	$2,077.06

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	15.60	LF	$15.00	$234.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	15.60	LF	$10.00	$156.00
107-1	LITTER REMOVAL	1.13	AC	$65.00	$73.45
107-2	MOWING	1.13	AC	$75.00	$84.75
	Shoulder Component Total				$33,785.12

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	64.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	12.00 / 12.00
Paved Median Shoulder Width L/R	4.00 / 8.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,098.24	SY	$2.75	$3,020.16
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	90.60	TN	$170.00	$15,402.00
570-1-3	PERFORMANCE TURF, SOD AND SOIL	488.72	SY	$4.25	$2,077.06
	Median Component Total				$20,499.22

Sequence 17 Total $221,186.58

Sequence: 18 RSU - Resurfacing, Undivided **Net Length:** 0.430 MI 2,270 LF

Description: WB SR 10 TO WB SR 8 ON RAMP, SECTION 55320020 (CMP 0.000 - 0.430)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.28	AC	$25,878.61	$7,246.01
	Earthwork Component Total				$7,246.01

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 16.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4"	4,036.27	SY	$3.74	$15,095.65

	AVG DEPTH			
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	554.99 TN	$170.00	$94,348.30
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	161.45 TN	$200.00	$32,290.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.86	GM	$1,000.00	$860.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.86	GM	$4,142.66	$3,562.69
	Roadway Component Total				$146,156.64

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,513.60	SY	$2.75	$4,162.40
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	124.87	TN	$170.00	$21,227.90
570-1-3	PERFORMANCE TURF, SOD AND SOIL	1,347.10	SY	$4.25	$5,725.18

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	308.00	SY	$2.75	$847.00
	Comment: FOR EXTRA SHLDR WIDTH				
334-1-15	SUPERPAVE ASPHALTIC CONC, TRAFFIC E	25.41	TN	$300.00	$7,623.00
	Comment: PAY ITEM SHOULD BE 334-1-55, FOR EXTRA SHLDR WIDTH				

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

104-11	FLOATING TURBIDITY BARRIER	43.00 LF	$15.00	$645.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	43.00 LF	$10.00	$430.00
104-18	INLET PROTECTION SYSTEM	1.00 EA	$350.00	$350.00
107-1	LITTER REMOVAL	1.04 AC	$65.00	$67.60
107-2	MOWING	1.04 AC	$75.00	$78.00
	Shoulder Component Total			$41,156.08

Sequence 18 Total $194,558.73

Sequence: 19 RSU - Resurfacing, Undivided **Net Length:** 0.273 MI 1,441 LF

Description: EB SR 8 TO WB SR 10 OFF RAMP, SECTION 55320023 (CMP 0.000 - 0.273)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.18 AC	$25,878.61	$4,658.15
	Earthwork Component Total			$4,658.15

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 16.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	2,562.56 SY	$3.74	$9,583.97
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	352.35 TN	$170.00	$59,899.50
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	102.50 TN	$200.00	$20,500.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.55	GM	$1,000.00	$550.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.55	GM	$4,142.66	$2,278.46
	Roadway Component Total				$92,811.93

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	960.96	SY	$2.75	$2,642.64
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	79.28	TN	$170.00	$13,477.60
570-1-3	PERFORMANCE TURF, SOD AND SOIL	855.25	SY	$4.25	$3,634.81

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	27.30	LF	$15.00	$409.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	27.30	LF	$10.00	$273.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.66	AC	$65.00	$42.90
107-2	MOWING	0.66	AC	$75.00	$49.50
	Shoulder Component Total				$20,879.95

Sequence 19 Total $118,350.03

Sequence: 20 RSU - Resurfacing, Undivided **Net Length:** 0.287 MI 1,515 LF

Description: WB SR 8 TO EB SR 10 OFF RAMP, SECTION 55320024 (CMP 0.000 - 0.287)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

110-1-1	CLEARING & GRUBBING	0.19 AC	$25,878.61	$4,916.94
	Earthwork Component Total			$4,916.94

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 15.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	2,525.60	SY	$3.74	$9,445.74
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	347.27	TN	$170.00	$59,035.90
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	101.02	TN	$200.00	$20,204.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.57	GM	$1,000.00	$570.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.57	GM	$4,142.66	$2,361.32
	Roadway Component Total				$91,616.96

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,010.24	SY	$2.75	$2,778.16
334-1-55	SUPERPAVE ASPH CONC, TRAF E,	83.34	TN	$170.00	$14,167.80

	PG76-22			
570-1-3	PERFORMANCE TURF, SOD AND SOIL	899.11 SY	$4.25	$3,821.22

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	28.70 LF	$15.00	$430.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	28.70 LF	$10.00	$287.00
104-18	INLET PROTECTION SYSTEM	1.00 EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.69 AC	$65.00	$44.85
107-2	MOWING	0.69 AC	$75.00	$51.75
	Shoulder Component Total			$21,931.28

Sequence 20 Total $118,465.18

Sequence: 21 RSU - Resurfacing, Undivided **Net Length:** 0.453 MI 2,392 LF

Description: EB SR 10 TO EB SR 8 ON RAMP, SECTION 55320026 (CMP 0.000 - 0.453)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.29 AC	$25,878.61	$7,504.80
	Earthwork Component Total			$7,504.80

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 17.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	4,517.92 SY	$3.74	$16,897.02
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	621.21 TN	$170.00	$105,605.70
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	180.72 TN	$200.00	$36,144.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.91	GM	$1,000.00	$910.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.91	GM	$4,142.66	$3,769.82
	Roadway Component Total				$163,326.54

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	3.00 / 5.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	2,126.08	SY	$2.75	$5,846.72
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	175.40	TN	$170.00	$29,818.00
570-1-3	PERFORMANCE TURF, SOD AND SOIL	1,419.16	SY	$4.25	$6,031.43

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	45.30	LF	$15.00	$679.50
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	45.30	LF	$10.00	$453.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	$350.00	$350.00
107-1	LITTER REMOVAL	1.10	AC	$65.00	$71.50
107-2	MOWING	1.10	AC	$75.00	$82.50
	Shoulder Component Total				$43,332.65

Sequence 21 Total $214,163.99

Sequence: 22 RSU - Resurfacing, Undivided **Net Length:** 0.254 MI 1,341 LF

Description: EB SR 8 TO EB SR 10 OFF RAMP, SECTION 55320028 (CMO 0.000 - 0.254)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.16	AC	$25,878.61	$4,140.58
	Earthwork Component Total				$4,140.58

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 14.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	2,086.19	SY	$3.74	$7,802.35
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	286.85	TN	$170.00	$48,764.50
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	83.45	TN	$200.00	$16,690.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.51	GM	$1,000.00	$510.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.51	GM	$4,142.66	$2,112.76
	Roadway Component Total				$75,879.61

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	1.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T

Rumble Strips ï¿½No. of Sides 0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	745.07	SY	$2.75	$2,048.94
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	61.47	TN	$170.00	$10,449.90
570-1-3	PERFORMANCE TURF, SOD AND SOIL	795.73	SY	$4.25	$3,381.85

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	109.71	SY	$2.75	$301.70
	Comment: FOR EXTRA SHLDR WIDTH				
334-1-15	SUPERPAVE ASPHALTIC CONC, TRAFFIC E	9.05	TN	$300.00	$2,715.00
	Comment: PAY ITEM SHOULD BE 334-1-55, FOR EXTRA SHLDR WIDTH				

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	25.40	LF	$15.00	$381.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	25.40	LF	$10.00	$254.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.61	AC	$65.00	$39.65
107-2	MOWING	0.61	AC	$75.00	$45.75
	Shoulder Component Total				$19,967.79

Sequence 22 Total $99,987.98

Sequence: 23 RSU - Resurfacing, Undivided **Net Length:** 0.253 MI 1,336 LF

Description: WB SR 8 TO WB SR 10 OFF RAMP, SECTION 55320029 (CMP 0.000 - 0.253)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.16	AC	$25,878.61	$4,140.58
	Earthwork Component Total				$4,140.58

ROADWAY COMPONENT

User Input Data

Description	Value

Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 15.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	2,226.40	SY	$3.74	$8,326.74
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	306.13	TN	$170.00	$52,042.10
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	89.06	TN	$200.00	$17,812.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.51	GM	$1,000.00	$510.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.51	GM	$4,142.66	$2,112.76
	Roadway Component Total				$80,803.60

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	3.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,038.99	SY	$2.75	$2,857.22
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	85.72	TN	$170.00	$14,572.40
570-1-3	PERFORMANCE TURF, SOD AND SOIL	792.60	SY	$4.25	$3,368.55

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	25.30	LF	$15.00	$379.50

104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	25.30 LF	$10.00	$253.00
104-18	INLET PROTECTION SYSTEM	1.00 EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.61 AC	$65.00	$39.65
107-2	MOWING	0.61 AC	$75.00	$45.75
	Shoulder Component Total			$21,866.07

Sequence 23 Total $106,810.25

Sequence: 24 RSU - Resurfacing, Undivided **Net Length:** 0.070 MI 370 LF

Description: WB SR 8 TO EB SR 10 ON RAMP, SECTION 55320030 (CMP 0.000 - 0.07)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.05	AC	$25,878.61	$1,293.93
	Earthwork Component Total				$1,293.93

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 17.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	698.13	SY	$3.74	$2,611.01
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	95.99	TN	$170.00	$16,318.30
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	27.93	TN	$200.00	$5,586.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.14 GM	$1,000.00	$140.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.14 GM	$4,142.66	$579.97
	Roadway Component Total			$25,235.28

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	3.00 / 3.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	246.40	SY	$2.75	$677.60
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	20.33	TN	$170.00	$3,456.10
570-1-3	PERFORMANCE TURF, SOD AND SOIL	219.30	SY	$4.25	$932.03

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	7.00	LF	$15.00	$105.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	7.00	LF	$10.00	$70.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.17	AC	$65.00	$11.05
107-2	MOWING	0.17	AC	$75.00	$12.75
	Shoulder Component Total				$5,614.53

Sequence 24 Total $32,143.74

Sequence: 25 RSU - Resurfacing, Undivided **Net Length:** 0.066 MI 348 LF

Description: EB SR 10 TO WB SR 8 ON RAMP, SECTION 55320031 (CMP 0.000 - 0.066)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.04	AC	$25,878.61	$1,035.14

	Earthwork Component Total	$1,035.14

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 15.00
Structural Spread Rate	275
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-17	MILLING EXIST ASPH PAVT,3 1/4" AVG DEPTH	580.80	SY	$3.74	$2,172.19
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	79.86	TN	$170.00	$13,576.20
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	23.23	TN	$200.00	$4,646.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.13	GM	$1,000.00	$130.00
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.13	GM	$4,142.66	$538.55

	Roadway Component Total	$21,062.94

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	3.00 / 3.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	232.32	SY	$2.75	$638.88
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	19.17	TN	$170.00	$3,258.90

570-1-3	PERFORMANCE TURF, SOD AND SOIL	206.76 SY	$4.25	$878.73

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	6.60 LF	$15.00	$99.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	6.60 LF	$10.00	$66.00
104-18	INLET PROTECTION SYSTEM	1.00 EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.16 AC	$65.00	$10.40
107-2	MOWING	0.16 AC	$75.00	$12.00
	Shoulder Component Total			$5,313.91

Sequence 25 Total $27,411.99

Sequence: 26 RSU - Resurfacing, Undivided **Net Length:** 0.038 MI 200 LF

Description: OLSON ROAD OVERPASS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.02 AC	$25,878.61	$517.57
	Earthwork Component Total			$517.57

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	0
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-12	MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH	533.63 SY	$5.00	$2,668.15
337-7-80	ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22	36.82 TN	$250.00	$9,205.00

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
536-1-0	GUARDRAIL- ROADWAY, GEN/LS TL-2	462.00 LF	$21.00	$9,702.00
536-8-111	CUARDR CONN TO RIGID BA, F&I, APPR N2	4.00 EA	$2,500.00	$10,000.00

536-85-20	GUARDRAIL END TREAT-TRAILING ANCHORAGE	2.00 EA	$1,200.00	$2,400.00
536-85-24	GUARDRAIL END TREATMENT-PARA APP TERM	2.00 EA	$3,100.00	$6,200.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	5.00	EA	$5.90	$29.50
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.08	GM	$1,000.00	$80.00
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.04	GM	$505.80	$20.23
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.08	GM	$4,142.66	$331.41
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	0.04	GM	$4,500.00	$180.00
	Roadway Component Total				$40,816.29

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
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 ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-3	PERFORMANCE TURF, SOD AND SOIL	118.73	SY	$4.25	$504.60

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	3.79	LF	$15.00	$56.85
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	3.79	LF	$10.00	$37.90
104-18	INLET PROTECTION SYSTEM	1.00	EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.09	AC	$65.00	$5.85
107-2	MOWING	0.09	AC	$75.00	$6.75
	Shoulder Component Total				$961.95

Sequence 26 Total $42,295.81

Sequence: 27 RSU - Resurfacing, Undivided **Net Length:** 0.038 MI 200 LF

Description: CR 151 (CENTERVILLE ROAD) OVERPASS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.02	AC	$25,878.61	$517.57
	Earthwork Component Total				$517.57

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	0
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-12	MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH	533.63	SY	$5.00	$2,668.15
337-7-80	ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22	36.82	TN	$250.00	$9,205.00

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
536-1-0	GUARDRAIL- ROADWAY, GEN/LS TL-2	490.00	LF	$21.00	$10,290.00
536-8-111	CUARDR CONN TO RIGID BA, F&I, APPR N2	4.00	EA	$2,500.00	$10,000.00
536-85-20	GUARDRAIL END TREAT-TRAILING ANCHORAGE	2.00	EA	$1,200.00	$2,400.00
536-85-24	GUARDRAIL END TREATMENT-PARA APP TERM	2.00	EA	$3,100.00	$6,200.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	5.00	EA	$5.90	$29.50
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.08	GM	$1,000.00	$80.00
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.04	GM	$505.80	$20.23
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.08	GM	$4,142.66	$331.41
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	0.04	GM	$4,500.00	$180.00
	Roadway Component Total				$41,404.29

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
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 ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-3	PERFORMANCE TURF, SOD AND SOIL	118.73	SY	$4.25	$504.60

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	3.79	LF	$15.00	$56.85
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	3.79	LF	$10.00	$37.90
104-18	INLET PROTECTION SYSTEM	1.00	EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.09	AC	$65.00	$5.85
107-2	MOWING	0.09	AC	$75.00	$6.75
	Shoulder Component Total				$961.95

Sequence 27 Total $42,883.81

Sequence: 28 RSU - Resurfacing, Undivided **Net Length:** 0.076 MI 400 LF

Description: MICCOSUKEE ROAD UNDERPASS

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	2.67 / 2.67
Incidental Clearing and Grubbing Area	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.05	AC	$25,878.61	$1,293.93
	Earthwork Component Total				$1,293.93

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	0
Friction Course Spread Rate	138

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-12	MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH	1,067.26	SY	$5.00	$5,336.30
337-7-80	ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22	73.64	TN	$250.00	$18,410.00

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
536-1-0	GUARDRAIL- ROADWAY, GEN/LS TL-2	450.00	LF	$21.00	$9,450.00
536-85-20	GUARDRAIL END TREAT-TRAILING ANCHORAGE	2.00	EA	$1,200.00	$2,400.00
536-85-24	GUARDRAIL END TREATMENT-PARA APP TERM	2.00	EA	$3,100.00	$6,200.00

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	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	10.00	EA	$5.90	$59.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.15	GM	$1,000.00	$150.00
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.08	GM	$505.80	$40.46
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.15	GM	$4,142.66	$621.40
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	0.08	GM	$4,500.00	$360.00
	Roadway Component Total				$43,027.16

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
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 ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-3	PERFORMANCE TURF, SOD AND SOIL	237.47	SY	$4.25	$1,009.25

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	7.58	LF	$15.00	$113.70
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	7.58	LF	$10.00	$75.80
104-18	INLET PROTECTION SYSTEM	1.00	EA	$350.00	$350.00
107-1	LITTER REMOVAL	0.18	AC	$65.00	$11.70
107-2	MOWING	0.18	AC	$75.00	$13.50
	Shoulder Component Total				$1,573.95

Sequence 28 Total $45,895.04

Date: 8/23/2022 9:49:50 AM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 417643-2-52-01 **Letting Date:** 03/2025

Description: SR 8 (I-10) FROM W OF OLSON RD TO E OF SR 10 (US 90) MAHAN DRIVE

District: 03 **County:** 55 LEON **Market Area:** 03 **Units:** English

Contract Class: 1 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 5.491 MI

Project Manager: HAYS GRIFFIN

Version 3-P Project Grand Total **$14,634,188.92**

Description: SR 8 (I-10) FROM W OF OLSON RD TO E OF SR 10 (US 90) MAHAN DRIVE - 3R Candidate 2021 - 2022 WPU 6/2/2022 JS

Resurfacing Lane Mile Cost **$608,996.63**

Project Sequences Subtotal **$10,886,022.51**

102-1	Maintenance of Traffic	10.00 %	$1,088,602.25
101-1	Mobilization	10.00 %	$1,197,462.48

Project Sequences Total **$13,172,087.24**

Project Unknowns	10.00 %	$1,317,208.72
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	$144,892.96	$144,892.96
Project Non-Bid Subtotal					**$144,892.96**

Version 3-P Project Grand Total **$14,634,188.92**