



*Florida Department of Transportation*  
*District Four*

**DESIGN-BUILD  
REQUEST FOR PROPOSAL  
for  
I-75 Express Lanes - Segment C  
From South of Miramar Parkway to South of Sheridan Street  
Broward County**

**Financial Project Number(s): 421707-4-52-01 and  
421707-4-52-02 (Pembroke Road Overpass Bridge)**

**Federal Aid Project Number(s): 0754-175-I**

**Contract Number: E4N98**

**Addendum No. 5**

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## **ATTACHMENTS**

The Attachments listed below are hereby incorporated into and made a part of this Request for Proposal (RFP) as though fully set forth herein.

- A. Project Advertisement
- B. Division I Design-Build Specifications
- C. Bid Proposal Form (Form No. 700-010-65)
- D. FHWA-1273 Form
- E. Bid Blank Form (Form No. 375-020-17)
- F. Design Change/Construction Advertisement Reevaluation
- G. Conceptual Permit Packages
  - SFWMD-USACE Joint Environmental Resource Permit
  - SBDD Permit
- H. Permit - SFWMD Master Dewatering Permit for Broward County
- I. Typical Section Package
- J. Pavement Design Report (with Addendum No. 1) and Toll Gantry Pavement Design
- K. Design Variation
- L. Geotechnical Services Requirements/Specifications
  - Contractor Quality Control General Requirements (SP1050813DB)
  - Structures Foundations (SP4550000DB)
- M. Value Added Specifications
  - Section 475 - Value Added Bridge Component
  - Section 725 - Value Added Highway Lighting System
- N. ITS Deployment Requirements
- O. Florida's Turnpike Enterprise (FTE) General Tolling Requirements (GTR) with Addendum #1
- P. Maintenance Maps and Maintenance Requirements
- Q. Modified Special Provisions
  - Contractor's Responsibility of Work
  - Crash Cushions
  - Highway Lighting System
  - Litter Removal, Sweeping, and Mowing
  - Maintenance of Traffic
  - Preservation of Existing Property
- R. Developmental Specifications
  - Section 330 – Hot Mix Asphalt – General Construction Requirements - Smoothness

## **REFERENCE DOCUMENTS**

The following documents are being provided with this RFP. Except as specifically set forth in the body of this RFP, these documents are being provided for reference and general information only. They are not being incorporated into and are not being made part of the RFP, the contract documents or any other document that is connected or related to this Project except as otherwise specifically stated herein. No information contained in these documents shall be construed as a representation of any field condition or any statement of facts upon which the Design-Build Firm can rely upon in performance of this contract. All information contained in these reference documents must be verified by a proper factual investigation. The bidder agrees that by accepting copies of the documents, any and all claims for damages, time or any other impacts based on the documents are expressly waived.

## **Reference Documents**

### **1. Concept Design**

CADD Files  
Concept Plans  
Design Documentation  
Drainage Permit Source Files  
ITS/Tolls Master Plan  
Landscape Concept Design  
Lane Closure Analysis  
Lighting Analysis Report  
Pavement Type Selection Report  
Signing Master Plan  
SIMR Reevaluation

### **2. Environmental**

Bridge Asbestos Survey Report  
Canal Sediment Sampling Report  
Existing Tree Layout  
Impact to Construction Report and Soil/Groundwater  
Management Plan  
Level II Contamination Impact Assessment Reports  
PD&E Documents

### **3. Geotechnical**

Geotechnical Reports – Bridges, Roadway, Walls  
Geotechnical Report – Drainage  
Geotechnical Report – Muck Evaluation  
Master Geotechnical Boring Layouts

### **4. Miscellaneous**

Bridge Inspection Reports  
Community Awareness Plan  
Concept of Operations  
Existing ITS Equipment Information  
Highway Maintenance Memorandum of Agreement  
Project Management Plan  
Rail Clear Letter

### **5. Plans**

Adjacent Projects Table  
Existing Plans  
Plans Index

### **6. Right of Way / Survey**

Project Survey Control  
Right of Way Certification Memorandum  
Right of Way Maps

### **7. Utilities**

Base Utility Map  
Identified Utilities Matrix  
Subsurface Utility Engineering  
UA/O Correspondence  
UA/O Existing Facilities Markup Plans  
Utility Contact Information

## **I. Introduction.**

The Florida Department of Transportation (Department) has issued this Request for Proposal (RFP) to solicit competitive bids and proposals from Proposers for the design and construction of Segment C of the I-75 Express Lanes Project which extends from approximately 2,400 feet south of Miramar Parkway at milepost 1.080 to approximately 4,000 feet south of Sheridan Street at milepost 4.645 in Broward County, for a total distance of approximately 3.6 miles. Segment C represents one of four separate District Four proposed I-75 Express Lanes Design-Build Projects that extend from NW 170<sup>th</sup> Street in Miami-Dade County to I-595 in Broward County. The combined Project length for the four projects is approximately 15 miles. An adjacent District Six SR 826 / I-75 Express Lanes Design-Build Project will extend from SR-836 (Dolphin Expressway) to NW 170<sup>th</sup> Street in Miami-Dade County.

I-75 is part of the National Highway System, the Florida Intrastate Highway System (FIHS), and Florida's Strategic Intermodal System (FSIS). The overall I-75 Express Lanes Project implements the Express Lanes portion of the I-75 Project Development and Environment (PD&E) Study Preferred Alternative corridor improvements. The PD&E limits extend from SR-826 in Miami-Dade County to I-595 in Broward County. The proposed improvements are needed to address existing congestion, accommodate future regional growth and development, enhance hurricane and other emergency evacuation, and improve system connectivity between key southeast Florida limited access facilities. The I-75 Express Lanes Project will provide additional capacity resulting in improved operational conditions, more reliable travel times, and reduced user delay. The I-75 Express Lanes Project is part of a larger network of existing and planned express lanes in southeast Florida.

On March 29, 2012, the Federal Highway Administration (FHWA) approved a Type II Categorical Exclusion for the I-75 corridor according to the National Environmental Protection Act (NEPA) of 1969 and 23 CFR 1771. On March 6, 2013, FHWA approved a Design Change and Construction Advertisement Reevaluation for Segments B and E, which is provided as Attachment F. The reevaluation included documentation of corridor-wide design changes and status updates on the Project commitments, which included modifications to the Express Lanes access points, reconfiguration of the I-75/HEFT ramp connections in the removal of the collector-distributor road between the HEFT and Miramar Parkway, and inside shoulder width adjustments for the Express Lanes typical section. On August 23, 2013 FHWA approved the reevaluation of Segment C. The Department is currently coordinating with FHWA to finalize the reevaluation requirements for Segments A, B, and D as updates to the approved March 6, 2013 reevaluation.

The I-75 Express Lanes - Segment C Project is located in southwest Broward County, Florida. The Project is located within Township 51 and Range 40 East, and traverses through the cities of Miramar and Pembroke Pines. Within the Segment C Project limits, I-75 is a north-south divided rural limited access facility with design and posted speeds of 70 mph, consisting of four 12-foot General Purpose Lanes and 12-foot (10 feet paved) inside and outside shoulders in each direction. There are existing interchanges at Miramar Parkway and Pines Boulevard and an I-75 crossing at the South Broward Drainage District (SBDD) C-4 Canal.

### **Right of Way Acquisition**

It is the Department's intent that all Project construction activities be conducted utilizing the existing horizontal alignment within the existing right of way. The Design-Build Firm may submit a Technical Proposal that requires the acquisition of additional right of way. Any Technical Proposal that requires the acquisition of additional right of way will not extend the Contract Duration as set forth in the existing RFP under any circumstances. The Department will have sole authority to determine whether the

acquisition of additional right of way on the Project is in the Department's best interest, and the Department reserves the right to reject the acquisition of additional right of way.

If a Design-Build Firm intends to submit a Technical Proposal that requires the acquisition of additional right of way, the Design-Build Firm shall discuss such a proposal with the Department as part of the Question & Answer process or as part of the Alternative Technical Concept process, as applicable. If a Design-Build Firm submits a Technical Proposal that requires the acquisition of additional right of way and the Design-Build Firm fails to discuss such a proposal with the Department as part of the Question & Answer process or as part of the Alternative Technical Concept process, then the Department will not consider such aspects of the Proposal during the Evaluation process. If the Design-Build Firm's Technical Proposal requires additional right of way, the additional right of way will be required to be directly acquired by the Department. The Design-Build Firm shall submit, along with the Technical Proposal, certified sketches and legal descriptions including area in square feet of any proposed additional right of way parcels. The additional right of way will be acquired by the Department in accordance with all applicable state laws. On Federally funded projects, the additional right of way will be acquired by the Department in accordance with all applicable federal laws, specifically including, but not limited to the Uniform Relocation Assistance and Real Property Acquisition Policies for Federal and Federally Assisted Programs (42 USC Chapter 61) and its implementing regulations. All costs concerning the acquisition of additional right of way will be borne solely by the Design-Build Firm. The Department will have sole discretion with respect to the entire acquisition process of the additional right of way.

If the Design-Build Firm's Technical Proposal requires additional right of way, the acquisition of any such right of way shall be at no cost to the Department, and all costs associated with securing and making ready for use such right of way for the Project shall be borne solely by the Design-Build Firm as a part of the Design-Build Firm's Lump Sum Price Bid. The Department will not advance any funds for any such right of way acquisition and the Design-Build Firm shall bear all risk of delays in the acquisition of the additional right of way, regardless of cause or source. Any right of way acquisition other than what was shown in the approved PD&E document and subsequent reevaluations will require a design change reevaluation. The Design-Build Firm shall coordinate with District Four Planning and Environmental Management (PL&EM) Office and provide any required information so that the District Four PL&EM Office can complete the reevaluation document and submit it to FHWA for approval. Any time delays or costs associated with processing this reevaluation will be the responsibility of the Design-Build Firm.

The Department will provide to the successful Design-Build Firm an estimate of all costs related to the acquisition and use of the additional right of way for the Project. At the time the Design-Build Firm returns the executed contract to the Department, the Design-Build Firm will provide the Department funds equal to the amount of the Department's estimate, along with a Letter of Credit approved by the Department in an amount equal to 100% of the Department's estimate. If additional funds beyond the Department's estimate are anticipated, the Design-Build Firm shall be solely responsible for all such costs and provide the same to the Department upon ten (10) days written notice from the Department. The Letter of Credit is for the purpose of securing the obligations of the Design-Build Firm with respect to the acquisition and use of the additional right of way. The Letter of Credit will be released upon the Department's determination that all costs related to the acquisition of and making ready for use the additional right of way have been satisfied. Any remaining funds provided will be returned to the Design-Build Firm.

Any additional right of way must be acquired prior to the commencement of any construction on the Project. The Design-Build Firm waives any and all rights or claims for information, compensation, or reimbursement of expenses with respect to the Design-Build Firm's payment to the Department for costs associated with the acquisition of the additional right of way. The additional right of way cannot be used

for any construction activity or other purpose until the Department has issued an applicable parcel clear letter or a Right of Way Certification for Construction.

If the Department's attempt to acquire the additional right of way is unsuccessful, then the Design-Build Firm shall provide a design for the Project within existing right of way and be required to complete the Project solely for the Lump Sum Price Bid, with no further monetary or time adjustments arising there from. Under no circumstances will the Department be liable for any increase in either time or money impacts the Design-Build Firm suffers due to the Design-Build Firm's proposed acquisition of additional right of way, whether or not the acquisition is successful.

### **Description of Work**

The I-75 Express Lanes improvements to be constructed within the existing 166-foot wide median generally consist of a barrier wall divided 4-lane tolled roadway (two 12-foot travel lanes in each direction), with 6-foot paved inside shoulders, and 12-foot (10 feet paved) outside shoulders. The Segment C Project also includes construction of the Pembroke Road Overpass Bridge and the Ramp H-11 Bridge, and reconstruction of the Miramar Parkway Interchange, including the Miramar Parkway Bridge over I-75.

Other improvements include: new I-75 Express Lanes bridge over the C-4 Canal; inside widening and deck replacement of the existing SB and NB I-75 bridges over the C-4 Canal; milling and resurfacing of the I-75 General Purpose Lanes adjacent to the proposed ingress/egress lanes connecting to the Express Lanes; temporary and permanent retaining walls; drainage; sound barrier walls; permanent traffic monitoring sites; tolling gantries and associated infrastructure including buildings; Intelligent Transportation System (ITS); signing and pavement markings; signalization; lighting; and landscaping.

The Tolling and ITS components of the corridor will be implemented with each individual Project segment. The Department will utilize an integration contract to provide a new communication backbone and connectivity to the Broward FDOT Regional Transportation Management Center (RTMC) and the Turnpike's Tolling Operation Center. The Design-Build Firm will be required to coordinate their activities and schedule with the adjacent Design-Build projects as well as the Toll and ITS Integrator Contractor and the Tolling Equipment Contractor. Except for furnishing and installing tolling equipment on overhead gantry systems and within the toll equipment building, all other aspects of the non-accessible gantry infrastructure and toll equipment building shall be supplied and constructed by the Design-Build Firm.

For this Project, the Department considers the following to be requirements of the Project that are not to be changed by the Design-Build Firms:

- Design speeds
- Typical sections
- Design variation
- Project commitments
- Pavement design (refer to Section VI.D.3 for further requirements)
- Sound barrier wall limits and heights
- Horizontal and vertical alignments of the Pembroke Road Overpass Bridge detailed in the Structural Concept Plans (refer to Reference Document 1)
- Single departure point exit ramps from northbound and southbound I-75 mainlines for accessing downstream ramps to eastbound and westbound Miramar Parkway



Any changes to requirements of the RFP by a Design-Build Firm must be approved by the Department through the Alternative Technical Concept (ATC) Proposal process, as described herein, prior to the information cut-off date.

The Department has established the following Project goals:

- Add capacity and improve mobility
- Minimize inconvenience to the traveling public
- Satisfy and/or be consistent with all Project commitments
- Minimize disruption to adjacent I-75 Project segments
- Expedite the construction of sound barrier walls
- Preserve the corridor for future identified improvements
- Provide continuity of ITS, Traffic Control and Roadway Design throughout the project limits and across adjacent I-75 Express Lanes segments
- Advance opening of the I-75 Express Lanes prior to final project completion
- Minimize environmental impacts including impacts to established wetlands to the maximum extent possible
- Provide effective design and construction coordination of the proposed Pembroke Road Overpass Bridge with the Pembroke Road improvements associated with Broward County Project No. 5255.

#### **A. Design-Build Responsibility**

The Design-Build Firm shall be responsible for survey, geotechnical investigation, design, preparation of all documentation related to the acquisition of all permits not acquired by the Department, preparation of any and all information required to modify permits acquired by the Department if necessary, maintenance of traffic, demolition, and construction on or before the Project completion date indicated in the Proposal.

The Design-Build Firm shall be responsible for compliance with Design and Construction Criteria (Section VI) which sets forth requirements regarding survey, design, construction, and maintenance of traffic during construction, requirements relative to Project management, scheduling, and coordination with other agencies and entities such as state and local government, utilities and the public.

The Design-Build Firm shall be responsible for designing and constructing this Project in accordance with Section VI of this RFP, and by utilizing the Typical Section Package included in Attachment I and the Concept Plans and Master Plans included in Reference Document 1.

The Design-Build Firm shall be responsible for reviewing the approved Environmental Documents of the PD&E Study.

The Design-Build Firm is responsible for coordinating with the District Four PL&EM Office any engineering information related to Environmental Reevaluations. The Design-Build Firm will not be compensated for any additional costs or time associated with Reevaluation(s) resulting from proposed design changes.

The Design-Build Firm may propose changes which differ from the approved Environmental Documents and/or the Concept Design. Proposed changes must be coordinated through the Department. If changes are proposed to the configuration, the Design-Build Firm shall be responsible for preparing the necessary analyses and documentation required to satisfy requirements to obtain approval of the Department and FHWA. The Design-Build Firm shall provide the required documentation for review and processing. Approved revisions to the configuration may also be required to be included in the Reevaluation of the

National Environmental Policy Act (NEPA) document per Section VI.M (Environmental Services/Permits/Mitigation) of the RFP. The Design-Build Firm will not be compensated for any additional costs or time resulting from proposed changes.

The Design-Build Firm shall examine the Contract Documents and the site of the proposed work carefully before submitting a Proposal for the work contemplated and shall investigate the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished and as to the requirements of all Contract Documents. Written notification of differing site conditions discovered during the design or construction phase of the Project will be given to the Department's Project Manager.

The Design-Build Firm shall examine boring data, where available, and make their own interpretation of the subsoil investigations and other preliminary data, and shall base their bid on their own opinion of the conditions likely to be encountered. The submission of a proposal is prima facie evidence that the Design-Build Firm has made an examination as described in this provision.

The Design-Build Firm will be responsible for completing all utility coordination and relocation efforts with all involved utilities. The Design-Build Firm will be responsible for payment of utility adjustment, relocation, installation and/or removal of facilities when the Project work necessitates the utility relocation work.

The Design-Build Firm shall be responsible for routine maintenance as described in Section V.CC of this RFP.

The Design-Build Firm 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.

## **B. Department Responsibility**

The Department will provide contract administration, management services, construction engineering inspection services, environmental oversight, and quality acceptance reviews of all work associated with the development and preparation of the contract plans, permits, and construction of the improvements. The Department will provide Project specific information and/or functions as outlined in this document.

In accordance with 23 CFR 636.109 of the FHWA, in a Federal Aid project, the Department shall have oversight, review, and approval authority of the permitting process.

The Department will determine the environmental impacts and coordinate with the appropriate agencies during the preparation of NEPA Reevaluations. The Department will coordinate and process Reevaluations with FHWA for approval.

The Department will furnish and install tolling equipment on overhead gantry systems and within the toll equipment building constructed by the Design-Build Firm.

## **II. Schedule of Events.**

Below is the current schedule of the events that will take place in the procurement process. The Department reserves the right to make changes or alterations to the schedule as the Department

determines is in the best interests of the public. Proposers will be notified sufficiently in advance of any changes or alterations in the schedule. Unless otherwise notified in writing by the Department, the dates indicated below for submission of items or for other actions on the part of a Proposer shall constitute absolute deadlines for those activities and failure to fully comply by the time stated shall cause a Proposer to be disqualified.

<b>Date</b>	<b>Event</b>
<u>July 1, 2013</u>	Advertisement
<u>July 19, 2013</u>	Expanded Letters of Interest for Phase I of the procurement process due in District Four Office by 5:00 pm local time
<u>August 21, 2013</u>	Proposal Evaluators submit Expanded Letter of Interest Scores to Contracting Unit
<u>August 21, 2013</u>	Contracting Unit provides Expanded Letter of Interest scores and Proposal Evaluators comments to Selection Committee
<u>August 26, 2013</u>	Public Meeting of Selection Committee to review and confirm Expanded Letter of Interest scores 8:15 am local time in the 3 <sup>rd</sup> Floor Executive Conference Room, District Four Headquarters, 3400 West Commercial Boulevard, Fort Lauderdale, FL 33309
<u>August 26, 2013</u>	Notification to Responsive Design-Build Firms of the Expanded Letter of Interest scores 11:00 am local time
<u>August 28, 2013</u>	Deadline for all responsive Design-Build Firms to affirmatively declare intent to continue to Phase II of the procurement process 5:00 pm local time
<u>August 29, 2013</u>	Shortlist Posting 11:00 am local time
<u>September 9, 2013</u>	Final RFP provided to Design-Build Firms providing Affirmative Declaration of Intent to continue to Phase II of the procurement process
<u>September 16, 2013</u>	Pre-proposal meeting at 8:30 am local time in District Four Headquarters, 3400 West Commercial Boulevard, Fort Lauderdale, FL 33309. All impacted Utility Agency/Owners are to be invited to the mandatory Pre-proposal meeting.
<u>September 18, 2013</u>	Deadline for Design-Build Firm to request participation in One-on-One Alternative Technical Concept Discussion Meeting No. 1 by 5:00 pm local time
<u>September 30, 2013</u> <u>October 1, 2013</u>	One-on-One Alternative Technical Concept Discussion Meeting No. 1. 60 Minutes will be allotted for this Meeting.
<u>October 7, 2013</u> <u>October 8, 2013</u>	One-on-One Alternative Technical Concept Discussion Meeting No. 2. 60 Minutes will be allocated for this Meeting.
<u>October 21, 2013</u>	Deadline for submittal of Alternative Technical Concept Proposals by 5:00 pm local time.
<u>November 14, 2013</u>	Deadline for submittal of questions, for which a response is assured, prior to the submission of the Technical Proposal. All questions shall be submitted to the Pre-Bid Q&A website.
<u>November 21, 2013</u>	Deadline for the Department to post responses to the Pre-Bid Q&A website for questions submitted by the Design-Build Firms prior to the submittal of the Technical Proposal.
<u>November 25, 2013</u>	Technical Proposals due in District Four Office by 11:00 am local time
<u>December 2, 2013</u>	Deadline for Design-Build for to “opt out” of Technical Proposal Page Turn meeting.
<u>December 9, 2013</u>	Technical Proposal Page-Turn Meeting of Design-Build Firm's

	Technical Proposal. Times will be assigned during the Pre-Proposal Meeting. 30 Minutes will be allotted for this Meeting.
<u>January 6, 2014</u>	Question and Answer Session. Times will be assigned during the pre-Proposal meeting. One hour will be allotted for questions and responses.
<u>January 8, 2014</u>	Deadline for submittal of Written Clarification letter following Question and Answer Session by 12:00 pm local time
<u>January 9, 2014</u>	Deadline for submittal of questions, for which a response is assured, prior to the submission of the Price Proposal. All questions shall be submitted to the Pre-Bid Q&A website by 5:00 pm local time.
<u>January 10, 2014</u>	Deadline for the Department to post responses to the Pre-Bid Q&A website for questions submitted by the Design-Build Firms prior to the submittal of the Price Proposal.
<u>January 17, 2014</u>	Price Proposals due in District Four Office by 11:00 am local time
<u>January 17, 2014</u>	Public announcing of Technical Scores and opening of Price Proposals at 11:00 am local time in District Four Headquarters, 3400 West Commercial Boulevard, Fort Lauderdale, FL 33309
<u>January 21, 2014</u>	Public Meeting of Selection Committee to determine intended Award at 8:15 am local time
<u>January 21, 2014</u>	Posting of the Department's intended decision to Award at 11:00 am
<u>January 28, 2014</u>	Anticipated Award Date
<u>February 13, 2014</u>	Anticipated Execution Date

### III. Threshold Requirements.

#### A. Qualifications

Proposers are required to be pre-qualified in all work types required for the Project. The technical qualification requirements of Florida Administrative Code (F.A.C.) Chapter 14-75 and all qualification requirements of F.A.C. Chapter 14-22, based on the applicable category of the Project, must be satisfied.

#### B. Joint Venture Firm

Two or more Firms submitting as a Joint Venture must meet the Joint Venture requirements of Section 14-22.007, Florida Administrative Code. Parties to a Joint Venture must submit a Declaration of Joint Venture and Power of Attorney Form No. 375-020-18, prior to the deadline for receipt of Letters of Interest.

If the Proposer is a Joint Venture, the individual empowered by a properly executed Declaration of Joint Venture and Power of Attorney Form shall execute the proposal. The proposal shall clearly identify who will be responsible for the engineering, quality control, and geotechnical and construction portions of the Work.

#### C. Price Proposal Guarantee

A Price Proposal guaranty in an amount of not less than five percent (5%) of the total bid amount shall accompany each Proposer's Price Proposal. The Price Proposal guaranty may, at the discretion of the Proposer, be in the form of a cashier's check, bank money order, bank draft of any national or state bank, certified check, or surety bond, payable to the Department. The surety on any bid bond shall be a company recognized to execute bid bonds for contracts of the State of Florida. The Price Proposal

guaranty shall stand for the Proposer's obligation to timely and properly execute the contract and supply all other submittals due therewith. The amount of the Price Proposal guaranty shall be a liquidated sum, which shall be due in full in the event of default, regardless of the actual damages suffered. The Price Proposal guaranty of all Proposers' shall be released pursuant to 3-4 of the Division I Design-Build Specifications.

#### **D. Pre-Proposal Meeting**

Attendance at the pre-proposal meeting is mandatory. Any affirmatively declared proposer failing to attend will be deemed non-responsive and automatically disqualified from further consideration. The purpose of this meeting is to provide a forum for the Department to discuss with all concerned parties the proposed Project, the design and construction criteria, Critical Path Method (CPM) schedule, and method of compensation, instructions for submitting proposals, design exceptions/variations, and other relevant issues. In the event that any discussions at the pre-proposal meeting require, in the Department's opinion, official additions, deletions, or clarifications of the Request for Proposal, the Design and Construction Criteria, or any other document, the Department will issue a written addendum to this Request for Proposals as the Department determines is appropriate. No oral representations or discussions, which take place at the pre-proposal meeting, will be binding on the Department. FHWA will be invited on oversight Projects, in order to discuss the Project in detail and to clarify any concerns. Proposers shall direct all questions to the Departments Question and Answer website: <https://www3.dot.state.fl.us/BidQuestionsAndAnswers/Proposal.aspx/SearchProposal>

#### **E. Technical Proposal Page-Turn Meeting**

The Department will meet with each Proposer, formally for thirty (30) minutes, for a page-turn meeting. FHWA will be invited on FA Oversight Projects. The purpose of the page-turn meeting is for the Design-Build Firm to guide the Technical Review Committee through the Technical Proposal, highlighting sections within the Technical Proposal that the Design-Build Firm wishes to emphasize. The page-turn meeting will occur between the date the Technical Proposal is due and the Question and Answer session occurs, per the Schedule of Events section of this RFP. The Department will terminate the page-turn meeting promptly at the end of the allotted time. The Department will audiotape record or videotape all or part of the page-turn meeting. All audiotape recordings or videotape recordings will become part of the Contract Documents. The page-turn meeting will not constitute discussions or negotiations. The Design-Build Firm will not be permitted to ask questions of the Technical Review Committee during the page-turn meeting. An unmodified aerial or map of the project limits provided by the Design-Build Firm is acceptable for reference during the page-turn meeting. The unmodified aerial or map may not be left with the Department upon conclusion of the page-turn meeting. Use of other visual aids, electronic presentations, handouts, etc., during the page-turn meeting is expressly prohibited. Upon conclusion of the thirty (30) minutes, the Technical Review Committee is allowed five (5) minutes to ask questions pertaining to information highlighted by Design-Build Firm. Participation in the page-turn meeting by the Design-Build Firm shall be limited to five (5) representatives from the Design-Build Firm. Design-Build Firms desiring to opt out of the page-turn meeting may do so by submitting a request to the Department.

#### **F. Question and Answer Session**

The Department may meet with each Proposer, formally, for a Question and Answer (Q&A) session. FHWA shall be invited on FA Oversight Projects. The purpose of the Q&A session is for the Technical Review Committee to seek clarification and ask questions, as it relates to the Technical Proposal, of the Proposer. The Department may terminate the Q&A session promptly at the end of the allotted time. The

Department shall audiotape record or videotape all or part of the Q&A session. All audiotape recordings or videotape recordings will become part of the Contract Documents. The Q&A session will not constitute “discussions” or negotiations. Proposers will not be permitted to ask questions of the Department except to ask the meaning of a clarification question posed by the Department. No supplemental materials, handouts, etc. will be allowed to be presented in the Q&A session. No additional time will be allowed to research answers.

Within one (1) week of the Q&A session, the Design-Build Firm shall submit to the Department a written clarification letter summarizing the answers provided during the Q&A session. The Design-Build Firm shall not include information in the clarification letter which was not discussed during the Q&A session. In the event the Design-Build Firm includes additional information in the clarification letter which was not discussed during the Q&A session and is not otherwise included in the Technical Proposal, such additional information will not be considered by the Department during the evaluation of the Technical Proposal.

The Department will provide some (not necessarily all) proposed questions to each Design-Build Firm as it relates to their Technical Proposal approximately twenty-four (24) hours before the scheduled Q&A session.

#### **G. Protest Rights**

Any person who is adversely affected by the specifications contained in this Request for Proposal must file a notice of intent to protest in writing within seventy-two hours of the posting of this Request for Proposals. Pursuant to Sections 120.57(3) and 337.11, Florida Statutes, and Rule Chapter 28-110, Florida Administrative Code, any person adversely affected by the agency decision or intended decision shall file with the agency both a notice of protest in writing and bond within 72 hours after the posting of the notice of decision or intended decision, or posting of the solicitation with respect to a protest of the terms, conditions, and specifications contained in a solicitation and will file a formal written protest within ten days after the filing of the notice of protest. The formal written protest shall be filed within ten (10) days after the date of the notice of protest if filed. The person filing the Protest must send the notice of intent and the formal written protest to:

Clerk of Agency Proceedings  
Department of Transportation  
605 Suwannee Street, MS 58  
Tallahassee, Florida 32399-0458

Failure to file a notice of protest or formal written protest within the time prescribed in section 120.57(3), Florida Statutes, or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120 Florida Statutes.

#### **H. Non-Responsive Proposals**

Proposals found to be non-responsive shall not be considered. Proposals may be rejected if found to be in nonconformance with the requirements and instructions herein contained. A proposal may be found to be non-responsive by reasons, including, but not limited to, failure to utilize or complete prescribed forms, conditional proposals, incomplete proposals, indefinite or ambiguous proposals, failure to meet deadlines and improper and/or undated signatures.

Other conditions which may cause rejection of proposals include evidence of collusion among Proposers, obvious lack of experience or expertise to perform the required work, submission of more than one

proposal for the same work from an individual, firm, joint venture, or corporation under the same or a different name (also included for Design-Build Projects are those proposals wherein the same Engineer is identified in more than one proposal), failure to perform or meet financial obligations on previous contracts, employment of unauthorized aliens in violation of Section 274A (e) of the Immigration and Nationalization Act, or in the event an individual, firm, partnership, or corporation is on the United States Comptroller General's List of Ineligible Design-Build Firms for Federally Financed or Assisted Projects.

The Department will not give consideration to tentative or qualified commitments in the proposals. For example, the Department will not give consideration to phrases as “we may” or “we are considering” in the evaluation process for the reason that they do not indicate a firm commitment.

Proposals will also be rejected if not delivered or received on or before the date and time specified as the due date for submission.

### **I. Waiver of Irregularities**

The Department may waive minor informalities or irregularities in proposals received where such is merely a matter of form and not substance, and the correction or waiver of which is not prejudicial to other Proposers. Minor irregularities are defined as those that will not have an adverse effect on the Department's interest and will not affect the price of the Proposals by giving a Proposer an advantage or benefit not enjoyed by other Proposers.

1. Any design submittals that are part of a proposal shall be deemed preliminary only.
2. Preliminary design submittals may vary from the requirements of the Design and Construction Criteria. The Department, at their discretion, may elect to consider those variations in awarding points to the proposal rather than rejecting the entire proposal.
3. In no event will any such elections by the Department be deemed to be a waiving of the Design and Construction Criteria.
4. The Proposer who is selected for the Project will be required to fully comply with the Design and Construction Criteria for the price bid, regardless that the proposal may have been based on a variation from the Design and Construction Criteria.
5. Proposers shall identify separately all innovative aspects as such in the Technical Proposal. An innovative aspect does not include revisions to specifications or established Department policies. Innovation should be limited to Design-Build Firm's means and methods, roadway alignments, approach to Project, use of new products, new uses for established products, etc.
6. The Proposer shall obtain any necessary permits or permit modifications not already provided.
7. Those changes to the Concept Design may be considered together with innovative construction techniques, as well as other areas, as the basis for grading the Technical Proposals in the area of innovative measures.

#### **J. Modification or Withdrawal of Technical Proposal**

Proposers may modify or withdraw previously submitted Technical Proposals at any time prior to the Technical Proposal due date. Requests for modification or withdrawal of a submitted Technical Proposal shall be in writing and shall be signed in the same manner as the Technical Proposal. Upon receipt and acceptance of such a request, the entire Technical Proposal will be returned to the Proposer and not considered unless resubmitted by the due date and time. Proposers may also send a change in sealed envelope to be opened at the same time as the Technical Proposal provided the change is submitted prior to the Technical Proposal due date.

#### **K. Department's Responsibilities**

This Request for Proposal does not commit the Department to make studies or designs for the preparation of any proposal, nor to procure or contract for any articles or services.

The Department does not guarantee the details pertaining to borings, as shown on any documents supplied by the Department, to be more than a general indication of the materials likely to be found adjacent to holes bored at the site of the work, approximately at the locations indicated.

The Department will be responsible for the following:

- Contract administration
- Quality assurance compliance reviews of all work associated with the development and preparation of the contract plans and construction of the improvements – including recommendations based on undesirable, contaminated and/or hazardous materials
- Shop Drawing concurrence
- Construction Engineering and Inspection services

#### **L. Design-Build Contract**

The Department will enter into a Lump Sum contract with the successful Design-Build Firm. In accordance with Section V.S, the Design-Build Firm will provide a schedule of values to the Department for their approval. The total of the Schedule of Values will be the lump sum contract amount.

The terms and conditions of this contract are fixed price and fixed time. The Design-Build Firm's submitted bid (time and cost) is to be a lump sum bid for completing the scope of work detailed in the Request for Proposal.

### **IV. Disadvantaged Business Enterprise (DBE) Program.**

#### **A. DBE Availability Goal Percentage:**

The Department of Transportation has an overall eight and six tenths percent (8.6%) race-neutral DBE goal. This means that the State's goal is to spend at least 8.6% of the highway dollars with Certified DBE's as prime Design-Build Firms or as subcontractors. Race-neutral means that the Department believes that the 8.6% overall goal can be achieved through the normal competitive procurement process. The Department has reviewed this Project and assigned a DBE availability goal shown on the bid blank/contract front page under "% DBE Availability Goal". Although not a contract requirement, the



Department believes that this DBE percentage can realistically be achieved on this Project based on the number of DBE's associated with the different types of work that will be required.

Under 49 Code of Federal Regulations Part 26, if the 8.6% goal is not achieved, the Department may be required to return to a race-conscious program where goals are imposed on individual contracts. The Department encourages all of our Design-Build Firms to actively pursue obtaining bids and quotes from Certified DBE's.

The Department is reporting to the Federal Highway Administration the planned commitments to use DBE's. This information is being collected through the Anticipated DBE Participation Statement.

**B. DBE Supportive Services Providers:**

The Department has contracted with a consultant, referred to as DBE Supportive Services Provider, to provide managerial and technical assistance to DBE's. This consultant is also required to work with prime Design-Build Firms, who have been awarded contracts, to assist in identifying DBE's that are available to participate on the Project. The successful Design-Build Firm should meet with the DBE Supportive Services Provider to discuss the DBE's that are available to work on this Project. The current Provider for the State of Florida is serviced by Blackmon Roberts Group and can be reached at (863) 802-1280 in Lakeland or (305) 777-0231 in Coral Gables.

**C. Bidders Opportunity List:**

The Federal DBE Program requires States to maintain a database of all Firms that are participating, or attempting to participate, on DOT-assisted contracts. The list must include all Firms that bid on prime contracts or bid or quote subcontracts on DOT-assisted Projects, including both DBE's and Non-DBE's.

A Bid Opportunity List should be submitted through the Equal Opportunity Compliance system which is available at the [Equal Opportunity Office Website](#). This information should be returned to the Equal Opportunity Office within three days of submission.

**V. Project Requirements and Provisions for Work.**

**A. Governing Regulations:**

The services performed by the Design-Build Firm shall be in compliance with all applicable Manuals and Guidelines including the Department, FHWA, AASHTO, and additional requirements specified in this document. Except to the extent inconsistent with the specific provisions in this document, the current edition, including updates, of the following Manuals and Guidelines shall be used in the performance of this work. Current edition is defined as the edition in place and adopted by the Department at the date of advertisement of this contract with the exception of the Standard Specifications for Road and Bridge Construction (Divisions II & III), Special Provisions and Supplemental Specifications, Manual on Uniform Traffic Control Devices (MUTCD), Design Standards and Revised Index Drawings. The Design-Build Firm shall use the edition of the Standard Specifications for Road and Bridge Construction (Divisions II & III), Special Provisions and Supplemental Specifications, Design Standards and Revised Index Drawings in effect at the time the Bid Price Proposals are due in the District Office. The Design-Build Firm shall use the 2009 edition of the MUTCD (as amended in 2012). It shall be the Design-Build Firm's responsibility to acquire and utilize the necessary manuals and guidelines that apply to the work required to complete this Project. The services will include preparation of all documents necessary to

complete the Project as described in Section I of this document.

1. Florida Department of Transportation Roadway Plans Preparation Manuals (PPM)  
<http://www.dot.state.fl.us/rddesign/PPMManual/PPM.shtm>
2. Florida Department of Transportation Design Standards  
<http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm>
3. Florida Department of Transportation Standard Specifications for Road and Bridge Construction (Divisions II & III), Special Provisions and Supplemental Specifications  
<http://www.dot.state.fl.us/specificationoffice/Default.shtm>
4. Florida Department of Transportation Surveying Procedure  
<http://www2.dot.state.fl.us/proceduraldocuments/procedures/bin/550030101.pdf>
5. Florida Department of Transportation EFB User Handbook (Electronic Field Book)  
[http://www.dot.state.fl.us/surveyingandmapping/doc\\_pubs.shtm](http://www.dot.state.fl.us/surveyingandmapping/doc_pubs.shtm)
6. Florida Department of Transportation Drainage Manual  
<http://www.dot.state.fl.us/rddesign/Hydraulics/ManualsandHandbooks.shtm>
7. Florida Department of Transportation Soils and Foundations Handbook  
<http://www.dot.state.fl.us/structures/Manuals/SFH.pdf>
8. Florida Department of Transportation Structures Manual  
<http://www.dot.state.fl.us/structures/DocsandPubs.shtm>
9. Florida Department of Transportation Current Structures Design Bulletins  
<http://www.dot.state.fl.us/structures/Memos/currentbulletins.shtm>
10. Florida Department of Transportation Computer Aided Design and Drafting (CADD) Manual  
<http://www.dot.state.fl.us/ecso/downloads/publications/Manual/default.shtm>
11. Florida Department of Transportation Computer Aided Design and Drafting (CADD) Production Criteria Handbook  
<http://www.dot.state.fl.us/ecso/downloads/publications/CriteriaHandBook/>
12. Florida Department of Transportation Production Criteria Handbook CADD Structures Standards  
<http://www.dot.state.fl.us/ecso/downloads/publications/CriteriaHandBook/>
13. Instructions for Design Standards  
<http://www.dot.state.fl.us/structures/IDS/IDSportal.pdf>
14. AASHTO – A Policy on Geometric Design of Highways and Streets  
[https://bookstore.transportation.org/collection\\_detail.aspx?ID=110](https://bookstore.transportation.org/collection_detail.aspx?ID=110)
15. MUTCD - 2009  
<http://mutcd.fhwa.dot.gov/>
16. Safe Mobility For Life Program Policy Statement  
<http://www2.dot.state.fl.us/proceduraldocuments/procedures/bin/000750001.pdf>
17. Traffic Engineering and Operations Safe Mobility for Life Program  
<http://www.dot.state.fl.us/trafficoperations/Operations/SafetyisGolden.shtm>

18. Florida Department of Transportation American with Disabilities Act (ADA) Compliance – Facilities Access for Persons with Disabilities Procedure  
<http://www2.dot.state.fl.us/proceduraldocuments/procedures/bin/625020015.pdf>
19. Florida Department of Transportation Florida Sampling and Testing Methods  
<http://www.dot.state.fl.us/statematerialsoffice/administration/resources/library/publications/fstm/disclaimer.shtm>
20. Florida Department of Transportation Flexible Pavement Coring and Evaluation Procedure  
<http://www.dot.state.fl.us/statematerialsoffice/administration/resources/library/publications/materialsmanual/documents/v1-section32-clean.pdf>
21. Florida Department of Transportation Design Bulletins and Update Memos  
<http://www.dot.state.fl.us/rddesign/Bulletin/Default.shtm>
22. Florida Department of Transportation Utility Accommodation Manual  
<http://www.dot.state.fl.us/specificationsoffice/utilities/UAM.shtm>
23. AASHTO LRFD Bridge Design Specifications  
[https://bookstore.transportation.org/category\\_item.aspx?id=BR](https://bookstore.transportation.org/category_item.aspx?id=BR)
24. Florida Department of Transportation Flexible Pavement Design Manual  
<http://www.dot.state.fl.us/rddesign/PM/publicationS.shtm>
25. Florida Department of Transportation Rigid Pavement Design Manual  
<http://www.dot.state.fl.us/rddesign/PM/publicationS.shtm>
26. Florida Department of Transportation Pavement Type Selection Manual  
<http://www.dot.state.fl.us/rddesign/PM/publicationS.shtm>
27. Florida Department of Transportation Right of Way Manual  
<http://www.dot.state.fl.us/rightofway/Documents.shtm>
28. Florida Department of Transportation Traffic Engineering Manual  
<http://www.dot.state.fl.us/TrafficOperations//Operations/Studies/TEM/TEM.shtm>
29. Florida Department of Transportation Intelligent Transportation System Guide Book  
[http://www.dot.state.fl.us/TrafficOperations/Doc\\_Library/Doc\\_Library.shtm](http://www.dot.state.fl.us/TrafficOperations/Doc_Library/Doc_Library.shtm)
30. Federal Highway Administration Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Plans and Specifications  
<http://www.fhwa.dot.gov/engineering/geotech/pubs/reviewguide/checklist.cfm>
31. AASHTO Guide for the Development of Bicycle Facilities  
[https://bookstore.transportation.org/collection\\_detail.aspx?ID=116](https://bookstore.transportation.org/collection_detail.aspx?ID=116)
32. Federal Highway Administration Hydraulic Engineering Circular Number 18 (HEC 18).  
[http://www.fhwa.dot.gov/engineering/hydraulics/library\\_arc.cfm?pub\\_number=17](http://www.fhwa.dot.gov/engineering/hydraulics/library_arc.cfm?pub_number=17)
33. Florida Department of Transportation Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways  
<http://www.dot.state.fl.us/rddesign/FloridaGreenbook/FGB.shtm>
34. Florida Department of Transportation Project Development and Environment Manual, Parts 1 and 2  
<http://www.dot.state.fl.us/emo/pubs/pdeman/pdeman1.shtm>

35. Florida Department of Transportation Driveway Information Guide  
<http://www.dot.state.fl.us/planning/systems/sm/accman/pdfs/driveway2008.pdf>
36. AASHTO Highway Safety Manual  
<http://www.highwaysafetymanual.org/Pages/default.aspx>
37. Florida Statutes  
<http://www.leg.state.fl.us/Statutes/index.cfm?Mode=View%20Statutes&SubMenu=1&Tab=statutes&CFID=14677574&CFTOKEN=80981948>
38. Florida Department of Transportation's Interchange Justification Procedure  
<http://www.dot.state.fl.us/planning/systems/sm/intjus/interchangehb/complete.pdf>
39. Florida Department of Transportation's Interchange Handbook  
<http://www.dot.state.fl.us/planning/systems/sm/intjus/interchangehb/complete.pdf>
40. The Florida Department of Transportation Interchange Handbook Policy Resource Documents  
<http://www.dot.state.fl.us/planning/systems/sm/intjus/prd/complete2003.pdf>
41. The Florida Department of Transportation Interchange Handbook Technical Resource Documents  
<http://www.dot.state.fl.us/planning/systems/sm/intjus/trd/complete2003.pdf>
42. 2010 Highway Capacity Manual, <http://hcm.trb.org>
43. Florida Department of Transportation Bicycle and Pedestrian Policies and Standards  
<http://www.dot.state.fl.us/safety/2A-Programs/Bike-Ped/PedBikeDesign.shtm>
44. Turnpike Plans General Tolling Requirements (GTR)  
[http://floridasturnpike.com/design/prod\\_design/tppph/2013/FTE%20GTR%20&%20Appendices%202013%2007%2001.pdf](http://floridasturnpike.com/design/prod_design/tppph/2013/FTE%20GTR%20&%20Appendices%202013%2007%2001.pdf)

## **B. Innovative Aspects:**

All innovative aspects shall be identified separately as such in the Technical Proposal.

An innovative aspect does not include revisions to specifications, standards or established Department policies. Innovation should be limited to Design-Build Firm's means and methods, roadway alignments, approach to Project, etc.

### **1. Alternative Technical Concept (ATC) Proposals**

The ATC process allows innovation, flexibility, time and cost savings on the design and construction of Design-Build Projects while providing the best value for the public. The alternative technical concept shall provide an approach that is equal to or better than what is required by the Request for Proposal (RFP), as determined by the Department. Concepts which reduce scope, quality, performance, or reliability should not be proposed. A proposed concept is not an ATC if it is contemplated by the RFP.

One-on-One ATC discussion meetings may be held in order for the Design-Build Firm to describe proposed changes to supplied basic configurations, Project scope, design criteria, and/or construction criteria. Each Design-Build Firm with proposed changes may request a One-on-One ATC discussion meeting to describe the proposed changes. The Design-Build Firm shall provide, by the deadline shown in the Schedule of Events of this RFP, a preliminary list of ATC proposals, to be reviewed and discussed during the One-on-One ATC discussion meeting. This list may not be inclusive of all ATC's to be discussed but it should be sufficiently comprehensive to allow the Department to identify appropriate personnel to participate in the One-on-One ATC discussion meeting. The purpose of the One-on-One ATC discussion meeting is to discuss the ATC proposals, answer questions that the Department may have related to the ATC proposal, review other relevant information and when possible establish whether the proposal meets the definition of an ATC thereby requiring the submittal of a formal ATC submittal. The meeting should be between representatives of the Design-Build Firm and/or the Design-Build Engineer of Record and District/Central Office staff as needed to provide feedback on the ATC proposal.

The following requirements described by this RFP shall not be modified by the Design-Build Firm:

- Design speeds
- Typical sections
- Design variation
- Project commitments
- Pavement design (refer to Section VI.D.3 for further requirements)
- Sound barrier wall limits and heights
- Horizontal and vertical alignments of the Pembroke Road Overpass Bridge detailed in the Structural Concept Plans (refer to Reference Document 1)
- Single departure point exit ramps from northbound and southbound I-75 mainlines for accessing downstream ramps to eastbound and westbound Miramar Parkway

The following requirements described by this RFP may be modified by the Design-Build Firm provided they are presented in the One-on-One ATC discussion meeting and submitted to the Department for review and approval through the ATC process described herein. The Department may deem a Proposal Non-Responsive should the Design-Build Firm fail to present and obtain Department approval of the proposed alternates through the ATC process.

- Horizontal and vertical alignments depicted in the Concept Plans (refer to Section VI.E for further requirements)

## **2. Submittal of ATC Proposals**

All ATC submittals must be in writing and may be submitted at any time following the Shortlist Posting but shall be submitted prior to the deadline shown in the Schedule of Events of this RFP.

All ATC submittals shall be sequentially numbered and include the following information and discussions:

- a) Description: A description and conceptual drawings of the configuration of the ATC or other appropriate descriptive information, including, if appropriate, product details and a traffic operational analysis;
- b) Usage: The locations where and an explanation of how the ATC would be used on the Project;

- c) Deviations: References to requirements of the RFP which are inconsistent with the proposed ATC, an explanation of the nature of the deviations from the requirements and a request for approval of such deviations along with suggested changes to the requirements of the RFP which would allow the alternative proposal;
- d) Analysis: An analysis justifying use of the ATC and why the deviation, if any, from the requirements of the RFP should be allowed;
- e) Impacts: A preliminary analysis of potential impacts on vehicular traffic (both during and after construction), environmental impacts, community impacts, safety, and life-cycle Project and infrastructure costs, including impacts on the cost of repair, maintenance, and operation;
- f) Risks: A description of added risks to the Department or third parties associated with implementation of the ATC;
- g) Quality: A description of how the ATC is equal or better in quality and performance than the requirements of the RFP;
- h) Operations: Any changes in operation requirements associated with the ATC, including ease of operations;
- i) Maintenance: Any changes in maintenance requirements associated with the ATC, including ease of maintenance; and
- j) Anticipated Life: Any changes in the anticipated life of the item comprising the ATC

### **3. Review of ATC Submittals**

After receipt of the ATC submittal, the District Design Engineer (DDE), or designee will communicate with the appropriate staff (i.e. District Structures Engineer, District Construction Engineer, District Maintenance Engineer, State Structures Engineer, State Roadway Design Engineer, FHWA, as applicable) as necessary, and respond to the Design-Build Firm in writing as to whether the ATC is acceptable, not acceptable, or requires additional information within fourteen (14) calendar days of receipt of the ATC submittal. If the DDE, or designee, determines that more information is required for the review of an ATC, questions should be prepared by the DDE, or designee, to request and receive responses from the Design-Build Firm. The review should be completed within fourteen (14) calendar days of the receipt of the ATC submittal. If the review will require additional time, the Design-Build Firm should be notified in advance with an estimated timeframe for completion.

If the ATC will result in changes to design standards or criteria, the changes will need to be approved in accordance with the Department's procedures prior to responding to the Design-Build Firm.

Prior to approving ATC's which would result in the issuance of an Addendum as a result of a Design Exception and/or Design Variation, the Design-Build Firm will be given the option to withdraw previously submitted ATC proposals.

The Project file will clearly document all communications with any Design-Build Firm.

ATC's are accepted by the Department at its discretion and the Department reserves the right to reject any ATC submitted.

Approved Design Exceptions or Design Variations required as part of an approved ATC will result in the issuance of an addendum to the RFP notifying all Shortlisted Design-Build Firms of the approved Design Exception(s) or Design Variation(s). Such a change will be approved by FHWA, as applicable.

The Department reserves the right to disclose to all Design-Build Firms any issues raised during the ATC meetings, except to the extent that the Department determines, in its sole discretion, such disclosure would reveal confidential or proprietary information of the ATC.

**4. Incorporation into Proposal**

The Design-Build Firm will have the option to include any ATC’s to which it received acceptance in their proposal and the Proposal Price should reflect any incorporated ATC’s.

By submitting a Proposal, the Design-Build Firm agrees, if it is not selected, to disclosure of its work product to the successful Design-Build Firm, only after receipt of the designated stipend (if applicable) or after award of the contract whichever occurs first.

**C. Geotechnical Services:**

**1. General Conditions:**

The Design-Build Firm shall be responsible for identifying and performing any geotechnical investigation, analysis and design of foundations, foundation construction, foundation load and integrity testing, and inspection dictated by the Project needs in accordance with Department guidelines, procedures and specifications. All geotechnical work necessary shall be performed in accordance with the Governing Regulations. The Design-Build Firm shall be solely responsible for all geotechnical aspects of the Project.

**D. Department Commitments:**

The Design-Build Firm will be responsible for adhering to the applicable Project commitments identified below as updated in the Design Change/Construction Advertisement Reevaluation included in Attachment F:

Commitment (#) and Description	Responsibility			Status
	FDOT	D-B Firm	Shared	
<p><b>Traffic and Transportation (1)</b>                      The sequence of construction will be planned in such a way that will minimize traffic delays along the corridor. This will be addressed as part of a traffic management plan that will be developed by FDOT and implemented by the Design-Build Firm during construction. The plan will include traffic management and signage, access to local businesses and residences, detour routes, public notification and alternate routes, emergency services coordination, and</p>		<b>X</b>		The Design-Build Firm will be responsible for developing and implementing a traffic management plan which minimizes traffic delays along the corridor. The plan will also include traffic management and signage, access to local businesses and residences, detour routes, public notification and alternate routes, emergency services coordination, and project schedule.

Commitment (#) and Description	Responsibility			Status
	FDOT	D-B Firm	Shared	
project scheduling.				
<b><u>Traffic and Transportation (2)</u></b> The FDOT is committed to holding additional workshops, if necessary, to discuss tolling and potential changes in ingress/egress points to the express lane system.	X			
<b><u>Traffic and Transportation (3)</u></b> If the FDOT advances the managed lane component of the recommended alternative, every effort will be made to facilitate an I-75 express bus service within the managed lane system.	X			
<b><u>Traffic and Transportation (4)</u></b> Access to business, residents, institutions, and through traffic will be maintained to the maximum extent possible during project implementations.		X		The Design-Build Firm will be responsible for developing and implementing a traffic management plan which maintains access to businesses, residences, and institutions, and maintains through traffic to the maximum extent possible.
<b><u>Traffic and Transportation (5)</u></b> FDOT will continue regular coordination meetings between FDOT District 4, FDOT District 6, the Florida Turnpike Enterprise and other entities as necessary during design and construction.	X			
<b><u>Traffic and Transportation- Broward County (6)</u></b> FDOT will continue to coordinate with Broward County, City of Miramar, and City of Pembroke Pines, regarding the evaluation of the Pembroke Road overpass.	X			FDOT is responsible for this commitment. The portion of the Pembroke Road overpass project that spans the I-75 limited access right-of-way will be constructed by FDOT to avoid potential construction conflicts between the two projects. Roadway construction for the overpass outside of the FDOT right of way is the responsibility of Broward County.
<b><u>Traffic and Transportation- Broward County (8)</u></b> If Alternative B for express lane access is identified for reconsideration at any point during the final design phase, FDOT will provide all interested stakeholders, including all municipalities, the opportunity to comment. This is in response to a request by the City of Miramar.	X			Alternative B for express lane access (from future Pembroke Road overpass) has not been reconsidered. Pembroke Road Alternative A with no connection access to or from I-75 is proceeding into implementation.
<b><u>Traffic and Transportation- Broward County (9)</u></b>	X			The park-and-ride at the southeast quadrant of I-75 at Pines Boulevard



Commitment (#) and Description	Responsibility			Status
	FDOT	D-B Firm	Shared	
FDOT will continue to work with the City of Pembroke Pines as it relates to the SW 145th Avenue alternative park-and-ride configuration for the southeast quadrant of I-75 at Pines Boulevard.				will be coordinated as a separate future effort.
<p><b>Noise (10)</b>                      FDOT is committed to reevaluating all recommended noise barrier locations and limits (begin/end limits) and feasible noise abatement measures during the final design process. A commitment to construct feasible and reasonable noise barriers will be contingent upon the following conditions:</p> <ul style="list-style-type: none"> <li>• Detailed noise analysis during the final design process supports the need for abatement;</li> <li>• Detailed noise barrier analysis indicates that the cost of the barriers will not exceed the cost reasonableness criteria;</li> <li>• Community input regarding desires, types, heights, and locations of barriers is received by the FDOT and supports the construction of noise barriers;</li> <li>• Preferences regarding compatibility with adjacent land uses, particularly as expressed by officials having jurisdiction over such lands, have been addressed;</li> <li>• Safety and engineering aspects related to roadway users and adjacent property owners have been reviewed and any conflicts or issues resolved; and</li> <li>• Any other mitigating circumstances revealed during final design have been analyzed and resolved.</li> </ul>	X			FDOT will reevaluate the recommended noise barrier locations and limits (begin/end limits) and feasible noise abatement measures during the final design process as required.
<p><b>Noise (11)</b>                      FDOT is committed to constructing noise walls first to the extent possible.</p>		X		Direction is included in the construction documents for the Design-Build Firm to build noise walls first to the extent possible within the construction segment for which the improvements are to be constructed.
<p><b>Wetlands – Broward County (12)</b>                      FDOT will complete a final determination of impacts and assessment of mitigation requirements during the permitting and final design phase and will coordinate with the appropriate agencies as needed.</p>	X			Wetland impacts and mitigation requirements have been finalized. Mitigation credits have been purchased and reservation letters have been provided to the regulatory agencies to complete the permitting process.

Commitment (#) and Description	Responsibility			Status
	FDOT	D-B Firm	Shared	
<p><b>Wetlands – Broward County (13)</b>            FDOT will compensate for wetland impacts either through the purchase of mitigation credits at the Florida Power and Light Everglades Mitigation Bank and/or through the creation of new stormwater facilities within the right of way of the I-75 project corridor.</p>	X			<p>FDOT has requested open competitive bids to purchase mitigation credits needed to offset wetland impacts. To enable the mitigation banks to provide competitive bids for impacts, at their interagency field review meeting conducted on March 1, 2012, District Four and USACE agreed to a 0.3 WATER and M-WRAP functional assessment for all existing I-75 stormwater management system wetlands claimed by the USACE. The FDOT will purchase the wetland mitigation credits at a USFWS-approved mitigation bank.</p> <p>The creation of new stormwater management systems has significantly reduced the amount of United States Army Corps of Engineers jurisdictional wetland impacts and mitigation needed for the project. These newly created stormwater facilities will offset some of the impacts to the existing stormwater management systems.</p>
<p><b>Cultural Resources (16a)</b>            The FDOT will inform FHWA, who will notify the federally recognized Tribes, if cultural resources that are potentially ancestral or historically relevant to the Tribes are inadvertently discovered during the construction process.</p>			X	<p>The Design-Build Firm is directed to notify the District Four Cultural Resources Contract Manager, Lynn Kelley at 954-777-4334, should potential cultural resources be encountered.</p>
<p><b>Cultural Resources (16b)</b>            Applies to Segment C, in the vicinity of Pembroke Road)            In regards to site 8BD3163 the following protection measures will be implemented:</p> <ul style="list-style-type: none"> <li>• Prior to the initiation of the improvements, an Unanticipated Find Plan will be developed that outlines the procedures to be implemented in the event that cultural material or human remains are identified during the construction.</li> <li>• A professional archaeologist will monitor the related activities within and adjacent to site 8BD3163.</li> </ul>			X	<p>The Design-Build Firm is directed to review the Cultural Resource Assessment Survey prepared as part of the PD&amp;E Study, and to include the boundaries of site 8BD3163 in their design plans where construction is planned in proximity to the site (Segment C, in the vicinity of Pembroke Road). Should subsurface excavation be required in the proximity of the site, the Design-Build Firm is directed to notify the District Four Cultural Resources Contract Manager, Lynn Kelley at 954-777-4334 at least 30 days prior to the start of construction in proximity to the site. The</p>

Commitment (#) and Description	Responsibility			Status
	FDOT	D-B Firm	Shared	
				Department will be responsible for the provision of an archaeological monitor as stated in part 2 of this commitment. The Design-Build Firm will be responsible for part 1 of this commitment.
<b>Public Services and Utilities (19)</b> FDOT will coordinate with all service providers, including emergency services, and utility providers during final design to ensure that access is maintained and alternate routes are developed.		X		The Design-Build Firm will coordinate with all service providers, including emergency services, and utility providers to ensure that access is maintained and alternate routes are developed.
<b>Wildlife and Habitat (21)</b> FDOT will employ the most current version of the U.S. Fish and Wildlife Service (USFWS) Standard Protection Measures for the Eastern indigo snake to ensure that this species is not harmed during construction.		X		The Design-Build Firm is directed to adhere to the most current version of the USFWS Standard Protection Measures for the Eastern indigo snake to ensure that this species is not harmed during construction.
<b>Wildlife and Habitat (22)</b> FDOT will employ the most current version of the USFWS special provisions for the protection of manatees during construction to ensure that no manatees are harmed.		X		The Design-Build Firm is directed to adhere to the most current version of the USFWS special provisions for the protection of manatees during construction to ensure that this species is not harmed during construction.
<b>Wildlife and Habitat (23)</b> Within one year from the date the Biological Opinion was issued (March 23, 2012), the FDOT will provide the USFWS with a letter from a wetland mitigation bank acceptable to the Service confirming that at least 122.04 short-hydroperiod credits and 0.16 hydroperiod credits have been purchased.	X			FDOT will be responsible for funding and addressing these project mitigation needs. The BO was amended and credits providing the minimum wood stork forage biomass have already been purchased from Loxahatchee Mitigation Bank.
<b>Wildlife and Habitat (24)</b> Upon locating a dead wood stork specimen, initial immediate notification will be made to the nearest Service Law Enforcement Office (10426 Northwest 31 Terrace, Miami, Florida 33172; 305-526-2610). Secondary notification will be made to the FWC; South Region (8535 Northlake Boulevard, West Palm Beach, Florida 33412; 1-800-282-8002). Care will be taken in handling any dead specimens of proposed or listed species found in the project area to preserve the specimen or its remains in the best possible state. In conjunction with the preservation of any dead specimens, the finder has the			X	The Design-Build Firm is directed to immediately notify the District Four Construction Environmental Administrator, Fernando Ascanio, at 954-777-4665 or 954-448-2880 upon locating a dead wood stork specimen.

Commitment (#) and Description	Responsibility			Status
	FDOT	D-B Firm	Shared	
responsibility to ensure evidence intrinsic to determining the cause of death of the specimen is not unnecessarily disturbed. The finding of dead specimens does not imply enforcement proceedings pursuant to the Act. The reporting of dead specimens is required to enable the Service to determine if take is reached or exceeded and to ensure the terms and conditions are appropriate and effective.				
<b><u>Wildlife and Habitat (25)</u></b> FDOT will continue coordination with the USFWS for the wood stork during the final design/permitting phases of the project.	X			To compensate for the loss of wetlands and wood stork foraging habitat, the FDOT has acquired 65.22 freshwater herbaceous mitigation credits from the Loxahatchee Mitigation Bank (LMB). The FDOT has verified that through the purchase of 65.22 federal credits from LMB, 78.26 kg of wood stork forage biomass has also been purchased, which exceeds the required wood stork forage biomass.
<b><u>Contamination – Broward County (26a)</u></b> During the design phase, the need for Level II testing will be evaluated for all sites ranked as Medium or High risk.	X			Level II contamination testing has been conducted at all Medium and High sites along the corridor with no significant impacts anticipated from the project construction.
<b><u>Contamination – Broward County (26b)</u></b> Sites ranked as Low Risk due to absence of any existing contamination and current regulatory compliance status regulatory records will be reassessed during the final design phase for potential contamination due to the type of facility and/or the presence of underground storage tanks.	X			All Low Risk sites were re-assessed with no impacts anticipated from the project construction.
<b><u>Contamination – Broward County (26c)</u></b> During final design, FDOT will survey existing bridges for asbestos containing materials.	X			There is one existing bridge within the Segment C Project that contains asbestos containing materials. All bridges have been tested for asbestos containing materials, and the testing results will be provided to the Design-Build Firm.
<b><u>Contamination – Broward County (26d)</u></b> FDOT will adhere to the procedures set forth in FDOT's <i>Standard Specifications for Road and Bridge Construction</i> , specifying the Design-Build Firm's responsibilities in regard to encountering petroleum-contaminated soil and/or groundwater.		X		The Design-Build Firm is directed to adhere to the procedures set forth in FDOT's <i>Standard Specifications for Road and Bridge Construction</i> .

Commitment (#) and Description	Responsibility			Status
	FDOT	D-B Firm	Shared	
<b>Reevaluation (29)</b> If the project advances through a Public-Private Partnership (P3), FDOT will take the lead in preparing the reevaluation for any P3 driven changes to the Recommended Alternative.	X			FDOT will take the lead in any NEPA reevaluation, including re-evaluations resulting from any Design-Build Firm’s Alternative Technical Concepts to the Recommended Alternative.

**E. Environmental Permits:**

**1. Storm Water and Surface Water:**

Plans shall be prepared in accordance with Chapters 373 and 403 (F.S.) and Chapters 40 and 62 (F.A.C.).

**2. Permits:**

The Design-Build Firm shall be responsible for modifying the issued permits as necessary to accurately depict the final design. The Design-Build Firm shall be responsible for any necessary permit time extensions or re-permitting in order to keep the environmental permits valid throughout the construction period. The Design-Build Firm shall provide the Department with draft copies of any and all permit applications, including responses to agency Requests for Additional Information, requests to modify the permits and/or requests for permit time extensions, for review and approval by the Department prior to submittal to the agencies.

All applicable data shall be prepared in accordance with Chapter 373 and 403, Florida Statutes, Chapters 40 and 62, Florida Administrative Code; Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, 23 CFR 771, 23 CFR 636, and parts 114 and 115, Title 33, Code of Federal Regulations. In addition to these Federal and State permitting requirements, any permitting required by local agencies, including but not limited to SBDD, shall be prepared in accordance with their specific regulations. Preparation of all documentation related to the acquisition of all applicable permits will be the responsibility of the Design-Build Firm. Preparation of complete permit packages will be the responsibility of the Design-Build Firm. The Design-Build Firm is responsible for the accuracy of all information included in permit application packages. As the permittee, the Department is responsible for reviewing, approving, and signing, the permit application package including all permit modifications, or subsequent permit applications. This applies whether the project is Federal or state funded. Once the Department has approved the permit application, the Design-Build Firm is responsible for submitting the permit application to the environmental permitting agency. A copy of any and all correspondence with any of the environmental permitting agencies shall be sent to the District Environmental Permits Office. If any agency rejects or denies the permit application, it is the Design-Build Firm’s responsibility to make whatever changes necessary to ensure the permit application is approved. The Design-Build Firm shall be responsible for any necessary permit extensions or re-permitting in order to keep the environmental permits valid throughout the construction period. The Design-Build Firm shall provide the Department with draft copies of any and all permit applications, including responses to agency Requests for Additional Information, requests to modify the permits and/or requests for permit extensions, for review and approval by the Department prior to submittal to the agencies.

The Design-Build Firm will be required to pay all permit fees. Any fines levied by permitting agencies shall be the responsibility of the Design-Build Firm. A copy of any and all correspondence with any of

the environmental permitting agencies shall be sent to the District Environmental Permits Office. The Design-Build Firm shall be responsible for complying with all permit conditions.

Wetland and wood stork suitable foraging habitat mitigation is required in the issued permits, which are based on the Permit Plans, and will be the responsibility of the Department. If any permit applications completed by the Design-Build Firm propose to increase the amount of wetland or wood stork foraging habitat impact that requires mitigation, the Design-Build Firm shall be responsible for providing to the Department an update on the amount and type of wetland or wood stork suitable foraging habitat impacts as soon as the impacts are anticipated (including temporary impacts and/or any anticipated impacts due to construction staging or construction methods). The Department will direct the use of a mitigation site, private mitigation bank or the SFWMD per 373.4137 F.S. The mitigation costs of any additional impacts proposed by the Design-Build Firm shall be the responsibility of the Design-Build Firm. If the Department directs use of a private mitigation bank, the Design-Build Firm shall pay the appropriate fee directly to the bank. If the Department directs use of 373.4137, F.S., the Design-Build Firm shall provide appropriate funds to the Department at the time of permit issuance and the Department will then transfer the mitigation funds to the SFWMD.

The Design-Build Firm shall be solely responsible for all costs associated with these permitting activities and shall include all necessary permitting activities in their schedule.

However, notwithstanding anything above to the contrary, upon the Design-Build Firm's preliminary request for extension of Contract Time, pursuant to 8-7.3, being made directly to the District Construction Engineer, the Department reserves unto the District Construction Engineer, in their sole and absolute discretion, according to the parameters set forth below, the authority to make a determination to grant a non-compensable time extension for any impacts beyond the reasonable control of the Design-Build Firm in securing permits. Furthermore, as to any such impact, no modification provision will be considered by the District Construction Engineer unless the Design-Build Firm clearly establishes that it has continuously from the beginning of the Project aggressively, efficiently and effectively pursued the securing of the permits including the utilization of any and all reasonably available means and methods to overcome all impacts. There shall be no right of any kind on behalf of the Design-Build Firm to challenge or otherwise seek review or appeal in any forum of any determination made by the District Construction Engineer under this provision.

**F. Railroad Coordination: Not Applicable**

**G. Survey:**

The Design-Build Firm shall perform all surveying and mapping services necessary to complete the Project. Survey services must also comply with all pertinent Florida Statutes and applicable rules in the Florida Administrative Code. All field survey data will be furnished to the District Surveyor in a Department approved digital format, readily available for input and use in CADD Design files. All surveying and mapping work must be accomplished in accordance with the Department's Surveying Procedure, Topic Nos. 550-030-101; Right of Way Mapping Procedure, Topic No. 550-030-015; Aerial Surveying Standards for Transportation Projects Procedure, Topic No. 550-020-002. This work must comply with the Minimum Technical Standards for Professional Surveyors and Mappers, Chapter 5J-17, Florida Administrative Code (F.A.C.), pursuant to Section 472.027, Florida Statutes (F.S.) and any special instructions from the Department. This survey also must comply with the Department of Environmental Protection Rule, Chapter 18-5, F.A.C. pursuant to Chapter 177, F.S., and the Department of Environmental Protection.

## **H. Verification of Existing Conditions:**

The Design-Build Firm shall be responsible for verification of existing conditions, including research of all existing Department records and other information.

By execution of the contract, the Design-Build Firm specifically acknowledges and agrees that the Design-Build Firm is contracting and being compensated for performing adequate investigations of existing site conditions sufficient to support the design developed by the Design-Build Firm and that any information is being provided merely to assist the Design-Build Firm in completing adequate site investigations. Notwithstanding any other provision in the contract documents to the contrary, no additional compensation will be paid in the event of any inaccuracies in the preliminary information.

## **I. Submittals:**

### **1. Plans:**

Plans must meet the minimum contents of a particular phase submittal prior to submission for review. The particular phase of each submittal shall be clearly indicated on the cover sheet. Component submittals must be accompanied by sufficient information for adjoining components or areas of work to allow for proper evaluation of the component under review.

Submittals for Category I and II bridges are limited to the following component submittals: foundation, substructure, and superstructure. Bridge component submittals must be accompanied by all supplemental information required for a complete review. Submittals for individual component elements (i.e. Pier 2, Abutment 1, Span 4, etc.) and incomplete submittals will not be accepted.

Category I and II bridge component submittals shall contain the following:

- Plan sheets for the component under review developed to the specified level of detail (i.e. 90% plans, Final plans, etc.),
- A complete set of the most developed plan sheets for all other major elements of the bridge. These sheets shall be marked “For Information Only” on the index sheet. In no case shall a plan sheet be less than 30% complete.
- Design documentation including a complete set of calculations, geotechnical reports, pertinent correspondence, etc. in support of the 90% and final component submittals.
- For Category II bridges component submittals shall also include independent peer review documentation.

The Design-Build Firm shall provide copies of required review documents as listed below.

**60% Component Plans – 3 CD’s containing the following documents:**  
11” X 17” ITS plans

**Master Plans prior to 90% plans submittals:**  
Signing Master Plan (2 roll-plots)  
Lighting Master Plan (2 roll-plots)

The maximum width of the roll-plots shall be 36”. The maximum length of the roll-plots shall be 8’.

Minimum information to be provided on the roll-plots includes existing conditions and proposed features for Segment C and for adjacent projects within the influence of Segment C.

**90% Component Plans – 3 CD’s containing the following documents:**

11” X 17” roadway plans  
11” X 17” structure plans  
11” X 17” each component set (Signing and Pavement Marking, Signalization, Lighting, Landscape, Non-Accessible Gantry)  
11” X 17” ITS plans  
11” X 17” Electronic copies of Toll Facilities/Architecture/Site Civil/Structural/Mechanical/Electrical plans  
8-1/2” X 11” Non-Accessible Gantry Structure Calculations  
11” X 17” Non-Accessible Gantry Structure Plans  
Electrical and Mechanical Design Analysis Reports, energy calculations, & specifications  
Final Geotechnical Report  
Documentation – roadway/drainage  
Documentation - structures  
Technical Special Provisions  
Bridge Load Rating  
Independent Peer reviewer’s comments and comment responses  
Quality Assurance / Quality Control certification statement

**Final Component Plans – 3 CD’s containing the following documents:**

11” X 17” roadway plans  
11” X 17” structure plans  
11” X 17” each component set (Signing and Pavement Marking, Signalization, Lighting, Landscape, Non-Accessible Gantry)  
11” X 17” ITS plans  
11” X 17” Electronic copies of Toll Facilities/Architecture/Site Civil/Structural/Mechanical/Electrical plans  
8-1/2” X 11” Non-Accessible Gantry Structure Calculations  
11” X 17” Non-Accessible Gantry Structure Plans  
Electrical and Mechanical Design Analysis Reports, energy calculations, & specifications  
Final Documentation  
Signed and sealed copy of Specifications Package  
Technical Special Provisions  
Independent Peer Reviewer’s signed and sealed cover letter that all comments have been addressed and resolved.  
Quality Assurance / Quality Control certification statement

**Construction Set:**

1 set of 11”X 17” copies of the signed and sealed plans for the Department to stamp “Released For Construction”  
1 set of CADD files on CD  
1 PDF set of 11” X 17” signed and sealed construction plans and specifications (including any TSP’s), plus any reference documents such as design documentation, drainage report, typical section package and pavement design package  
2 copies of final Schedule of Values



1 hard copy of 11" X 17" signed and sealed plans

Final signed and sealed plans will be delivered to the Department's Project Manager prior to construction of any component. The Department's Project Manager will send a copy of final signed and sealed plans to the appropriate office for review and comment. Once all comments have been satisfactorily resolved as determined by the Department, the Department's Project Manager will initial, date and stamp each submittal as "Released for Construction". Only signed and sealed plans which are stamped "Released for Construction" by the Department's Project Manager are valid and all work that the Design-Build Firm performs in advance of the Department's release of Plans will be at the Design-Build Firm's risk. To work at risk, the Design-Build Firm must submit signed and sealed plans and can begin working prior to the Department's Project Manager providing stamped "Release for Construction" plans. The Design-Build Firm shall notify the Department five (5) days prior to starting work at risk. All work that the Design-Build Firm performs in advance of the Department's release of Plans will be at the Design-Build Firm's risk.

The Design-Build Firm shall furnish to the Department, upon Project completion, the following:

**Record Set:**

- 1 set of 11" X 17" signed and sealed plans
- 12 sets of 11" X 17" copies of the signed and sealed plans
- 1 signed and sealed copy of the Bridge Load Rating based on as-built conditions
- 12 sets of final documentation (if different from final component submittal)
- 2 Final Project CD's

The Design-Build Firm's Professional Engineer in responsible charge of the Project's design shall professionally endorse (signed and sealed and certified) the record prints, the special provisions and all reference and support documents. The professional endorsement shall be performed in accordance with the Department Plans Preparation Manual.

The Design-Build Firm shall complete the record set as the Project is being constructed. The record set becomes the as-builts at the end of the Project. All changes shall be signed and sealed by the Engineer of Record (EOR). The record set shall reflect all changes initiated by the Design-Build Firm or the Department in the form of revisions. The record set shall be submitted on a Final Project CD upon Project completion.

The CEI shall do a review of the record set prior to final acceptance in order to complete the record set.

The CEI shall certify the final plans as per Section 4.5.7 of Chapter 4 of the Preparation and Documentation Manual (TOPIC No. 700-050-010).

**2. Milestones:**

Component submittals, in addition to the plan submittals listed in the previous section will be required. In addition to various submittals mentioned throughout this document the following milestone submittals will be required.

Prior to any 90% component submittals, the Design-Build Firm shall obtain approvals from FDOT for the following items:

- Permit applications and subsequent Request for Additional Information (RAI) correspondence for Department review
- Approved Permits Package
- Pavement Design Package
- Typical Section Package
- Design Variation Package
- Drainage Design Report
- Bridge Hydraulic Report

**3. Railroad Coordination: Not Applicable**

**J. Contract Duration:**

The Design-Build Firm shall establish the Contract Duration (Proposed Contract Time) for the subject Project to achieve partial acceptance as defined under the Friction Course Restrictions in Section VI.J. In no event shall the Contract Duration exceed 1,080 calendar days. The Proposed Contract Time shall be submitted with the Bid Price Proposal.

As defined under Section VI.J, the Department will add a total of 455 calendar days to the Proposed Contract Time to allow for the placement of friction course and final pavement markings for the Express Lanes within the same relative time frame for all segments of the I-75 corridor. The Proposed Contract Time plus the 455 calendar days establishes the Total Contract Duration to achieve final acceptance of the Project.

**K. Project Schedule:**

The Design-Build Firm shall submit a Schedule, in accordance with Subarticle 8-3.2 (Design-Build Division I Specifications). The Design-Build Firm's Schedule shall allow for up to fifteen (15) calendar days (excluding weekends and Department observed Holidays) review time for the Department's review of all submittals with the exception of Category II structures submittals. The review of Category II structures submittals requires Central Office involvement and the Schedule shall for up to twenty (20) calendar days (excluding weekends and Department observed Holidays) for these reviews.

The Department will perform the review of Foundation Construction submittals in accordance with Section 455.

Refer to Section VI.J of this RFP for information pertaining to sequence of construction activity requirements and other schedule related items.

An interim milestone date of July 1, 2016 has been established for the proposed ITS and Tolling infrastructure and integration implementation as follows:

- design and construction of all ITS components necessary for a complete and functional ITS network, to include the final permanent power system, successful completion of all stand-alone testing, and be ready and available for integration to the Broward FDOT RTMC as described in the ITS Deployment Requirements (RFP Attachment N) as determined by the Department.
- design and construction of all tolling infrastructure, including all gantries and toll buildings as

specified in the FTE General Tolling Requirements (RFP Attachment O), ready and available for testing as determined by the Department.

The Design-Build Firm shall comply with the incentive-disincentive provisions included in Section 8 of the Division 1 Design-Build Specifications (Attachment B), to complete the implementation of the ITS and Tolling infrastructure and integration.

The following Special Events have been identified in accordance with Specification 8-6.4:

- Chili Cookoff at CB Smith Park in Pembroke Pines usually occurs on the last Sunday in January.
- Tree Lighting, early December at Miramar Regional Park.
- Events at Sun Life Stadium in Miami Gardens to include sporting events (NFL and collegiate football games, soccer matches) and concerts.

The minimum number of activities included in the Schedule shall be those listed in the Schedule of Values and those listed below:

- Anticipated Award Date
- Initial Design Workshop
- Design Progress Workshop
- Design Submittals
- Shop Drawings Submittals
- Design Survey
- Submittal Reviews by the Department and FHWA
- Design Review / Acceptance Milestones
- Materials Quality Tracking
- Geotechnical Investigation
- Start of Construction
- Clearing and Grubbing
- Construction Mobilization
- Embankment / Excavation
- Environmental Permit Acquisition
- Foundation Design
- Foundation Construction
- Substructure Design
- Substructure Construction
- Superstructure Design
- Superstructure Construction
- Walls Design
- Walls Construction
- Roadway Design
- Roadway Construction
- Signing and Pavement Marking Design
- Signing and Pavement Marking Construction
- Signalization Design
- Signalization Construction
- Intelligent Transportation System Design

- Intelligent Transportation System Construction
- 30 Day Notice to Integrator for ITS Testing
- ITS System Testing
- Lighting Design
- Lighting Construction
- Landscape Design (tree relocation)
- Landscape Construction (tree relocation)
- Tolling Infrastructure Design
- Tolling Infrastructure Construction
- Toll Equipment Installation
- 30 Day Notice to FTE prior to Toll Equipment Installation Period
- Maintenance of Traffic Design
- Permit Submittals
- Maintenance of Traffic Set-Up (per duration)
- Erosion Control
- Holidays and Special Events (shown as non-work days)
- Additional Construction Milestones as determined by the Design-Build Firm
- Final Completion Date for All Work

**L. Key Personnel/Staffing:**

The Design-Build Firm's work shall be performed and directed by key personnel identified in the expanded letter of interest and/or Technical Proposal by the Design-Build Firm. Any changes in the indicated personnel shall be subject to review and approval by the Department's Project Manager. The Design-Build Firm shall have available a professional staff that meets the minimum training and experience set forth in Florida Statute Chapter 455, Business and Professional Regulation: General Provisions.

**M. Meetings and Progress Reporting:**

The Design-Build Firm shall anticipate periodic meetings with Department personnel and other agencies as required for resolution of design and/or construction issues. These meetings may include:

- Design workshops
- Department technical issue resolution
- Permit agency coordination
- Local government agency coordination
- Scoping meetings
- Progress meetings
- Utility meetings
- Public meetings
- Project/stakeholder coordination meetings
- Adjacent project coordination
- FDOT District Four Environmental Administrator Coordination
- FDOT District Four Construction Environmental Coordination

During design, the Design-Build Firm shall meet with the Department's Design and Construction Project Managers every two (2) weeks to provide a two-week and one-month look ahead of the activities to be

completed during the upcoming two-week period and one-month period.

During construction, the Design-Build Firm shall meet with the Department's Construction Project Manager on a weekly basis and provide a one-week look ahead for activities to be performed during the upcoming week.

The Design-Build Firm shall, on a monthly basis, provide written progress reports that describe the items of concern and the work performed on each task.

**N. Public Involvement:**

**1. General:**

Public involvement is an important aspect of the Project. Public involvement includes communicating to all interested persons, groups, and government organizations information regarding the development of the Project. A Public Involvement Consultant (PIC) has been hired by the Department to continue moving forward with a comprehensive Public Involvement Campaign through construction and a marketing effort prior to launch. The Design-Build Firm will continue to be part of the Public Involvement effort but on a limited basis as described below.

**2. Community Awareness:**

The Design-Build Firm will review and comment on a Community Awareness Program provided by the PIC for the Project. Final review and approval will be obtained from the FDOT District Four Public Information Director.

**3. Public Meetings:**

The Design-Build Firm shall provide all support necessary for the PIC to hold various public meetings, which may include:

- Design/Noise Workshops
- County Commission meetings, City Commission meetings, Broward County Metropolitan Planning Organization (MPO) Board and Committee Meetings as requested
- Construction Open House meetings
- Special interest groups (private groups, homeowners associations, environmental groups, minority groups and individuals)

The Design-Build Firm shall include attendance at two (2) meetings per month for the term of the contract to support the public involvement program.

For any of the above type meetings, the Design-Build Firm shall provide all technical assistance, data and information necessary for the PIC to produce display boards, printed materials, video graphics, computerized graphics, etc., and information necessary for the day-to-day exchange of information with the public, all agencies and elected officials in order to keep them informed as to the progress and impacts that the proposed Project will create. This includes workshops, information meetings, and public hearings. The Design-Build Firm effort shall also include coordination with adjacent project segments to provide consistency and continuity with the information being furnished to the PIC for the development of the presentation materials.

The Design-Build Firm shall, on an as-needed basis, attend the meetings with an appropriate number of personnel to assist the Department's Project Representative/PIC. The Design-Build Firm shall forward all requests for group meetings/presentations to the PIC. The Design-Build Firm shall inform the PIC of any meetings with individuals that occur without prior notice within twenty-four (24) hours of occurrence.

All legal/display ads announcing workshops, information meetings, and public meetings will be prepared and paid for by the PIC. The Department will be responsible for the legal/display advertisements for design concept acceptance.

The PIC will be responsible for preparing and mailing (includes postage) for all letters announcing workshops and information meetings.

**4. Public Involvement Data:**

The Design-Build Firm is responsible for the following:

- Coordinating with the Public Involvement Consultant.
- Providing required expertise (staff members) to assist the PIC on an as-needed basis.
- Preparing color graphic renderings and/or computer generated graphics to depict the proposed improvements for coordination with the Department, local governments, the Urban Design Guidelines Committee, and other agencies.

The collection of public input occurs throughout the life of the Project and requires maintaining files, newspaper clippings, letters, phone logs and other direct contacts before, during and after any of the public meetings. Articles such as those mentioned shall be provided to the PIC for their use and records.

**5. Media and Public Inquiries:**

**Media information**

In addition to collecting public input data, the Design-Build Firm may be asked by the PIC to prepare responses to any elected official, public and media inquiries. The FDOT District Four Public Information Director and Project Manager shall review all responses prior to release.

**O. Quality Management Plan (QMP):**

**1. Design:**

The Design-Build Firm shall be responsible for the professional quality, technical accuracy and coordination of all surveys, designs, drawings, specifications, geotechnical and other services furnished by the Design-Build Firm under this contract.

The Design-Build Firm shall provide a Design Quality Management Plan, which describes the Quality Control (QC) procedures to be utilized to verify, independently check, and review all design drawings, specifications, and other documentation prepared as a part of the contract. In addition the QMP shall establish a Quality Assurance (QA) program to confirm that the Quality Control procedures are followed. The Design-Build Firm shall describe how the checking and review processes are to be documented to

verify that the required procedures were followed. The QMP may be one utilized by the Design-Build Firm, as part of their normal operation or it may be one specifically designed for this Project. The Design-Build Firm shall submit a QMP within fifteen (15) working days following issuance of the written Notice to Proceed (NTP). A marked up set of prints from the Quality Control review will be included with each review submittal. The responsible Professional Engineers or Professional Surveyor that performed the Quality Control review, as well as the QA manager will sign a statement certifying that the review was conducted in accordance with the procedures contained in the QMP.

The Design-Build Firm shall, without additional compensation, correct all errors and/or deficiencies in the surveys, designs, drawings, specifications and/or other services.

No fabrication, casting, or construction will occur until all related design review and shop drawing review comments are resolved.

## 2. **Construction:**

The Design-Build Firm shall be responsible for developing and maintaining a Construction Quality Control Plan in accordance with Section 105 of Standard Specifications which describes their Quality Control procedures to verify, check, and maintain control of key construction processes and materials.

The sampling, testing and reporting of all materials used shall be in compliance with the Sampling, Testing and Reporting Guide (STRG) provided by the Department. The Design-Build Firm will use the Department's database(s) to allow audits of materials used to assure compliance with the STRG. The Department has listed the most commonly used materials and details in the Department's database. When materials being used are not in the Department's database list, the Design-Build Firm shall use appropriate material details from the STRG to report sampling and testing. Refer to the "Access Instruction for LIMS" for more information on how to gain access to the Department's databases: <http://www.dot.state.fl.us/statematerialsoffice/quality/programs/qualitycontrol/contractor.shtm>

Prepare and submit to the Engineer a Job Guide Schedule (JGS) using the Laboratory Information Management System (LIMS) in accordance with Section 105 of Standard Specifications.

The Department shall maintain its rights to inspect construction activities and request any documentation from the Design-Build Firm to ensure quality products and services are being provided in accordance with the Department's Materials Acceptance Program.

## **P. FHWA Project Management Plan (PMP) / Financial Plan**

In accordance with FHWA Major Project Guidelines, the Department is required to prepare a Project Management Plan (PMP) and an Annual Financial Plan (AFP) for the Project. The PMP defines the roles, responsibilities and procedures for Project implementation. The AFP documents Project scope, cost and/or funding changes on an annual basis. Refer to Reference Document 4 for the I-75 Express Lanes Project Management Plan Update. The PMP will need to be updated subsequent to the execution of the contract and prior to initiating construction activities. The Initial Financial Plan will be updated on an annual basis until construction has been completed. The annual updates to the Financial Plan will require FHWA approval. The Department will be responsible for the preparation and submittal of the updated I-75 Express Lanes Project PMP and the AFP's. The Design-Build Firm shall be responsible for providing support documentation and data to the Department for the development of the documents.

**Q. Liaison Office:**

The Department and the Design-Build Firm will designate a Liaison Office and a Project Manager who shall be the representative of their respective organizations for the Project.

**R. Engineers Field Office: Not Applicable**

**S. Schedule of Values:**

The Design-Build Firm will be responsible for invoicing the Department based on current invoicing policy and procedure. Invoicing will be based on the completion or percentage of completion of major, well-defined tasks as defined in the schedule of values. Final payment will be made upon final acceptance by the Department of the Design-Build Project. Tracking DBE participation will be required under normal procedures according to the Construction Project Administration Manual (CPAM). The Design-Build Firm must submit the schedule of values to the Department for approval. No invoices shall be submitted prior to Department approval of the schedule of values.

The Design-Build Firm must submit separate schedule of values and separate invoices for the two (2) FPID Numbers associated with the Segment C contract.

Upon receipt of the invoices, the Department's Project Manager will make judgment on whether or not work of sufficient quality and quantity has been accomplished by comparing the reported percent complete against actual work accomplished.

**T. Computer Automation:**

The Project shall be developed utilizing computer automation systems in order to facilitate the development of the contract plans. Various software and operating systems were developed to aid in assuring quality and conformance with Department of Transportation policies and procedures. Seed Files, Cell Libraries, User Commands, MDL Applications and related programs developed for roadway design and drafting are available for the MicroStation V8 format in the FDOT CADD Software Suite. However, it is the responsibility of the Design-Build Firm to obtain and utilize current Department releases of all CADD applications.

The Design-Build Firm's role and responsibilities are defined in the Department's CADD Manual. The Design-Build Firm will be required to submit final documents and files which shall include complete CADD design and coordinate geometry files in MicroStation V8 format, as described in the above referenced document.

The archived submittal shall also include either a TIMS database file, CADD Index file (generated from RDMENU) or documentation that shall contain the Project history, file descriptions of all (and only) Project files, reference file cross references, and plotting criteria a (e.g. batch, level symbology, view attributes, and display requirements). A printed directory of the archived submittal shall be included.

**U. Construction Engineering and Inspection:**

The Department is responsible for providing Construction Engineering and Inspection (CEI) and Quality Assurance Engineering.



The Design-Build Firm is subject to the Department's Independent Assurance (IA) Procedures.

**V. Testing:**

The Department or its representative will perform verification and resolution sampling and testing activities at both on site, as well as, off site locations such as pre-stress plants, batch plants, structural steel and weld, fabrication plants, etc. in accordance with the latest Specifications.

**W. Value Added:**

The Design-Build Firm may provide Value Added Project Features, in accordance with Article 5-14 of the Specifications for the following features:

- Roadway features
- Roadway drainage systems
- Approach slabs
- Superstructure
- Substructure
- Concrete defects
- Structural steel defects
- Post-tensioning systems
- And any other products or features the Design-Build Firm desires.

The Design-Build Firm shall develop the Value Added criteria, measurable standards, and remedial work plans in the Design-Build Firm's Technical Proposal for features proposed by the Design-Build Firm.

The Design-Build Firm shall guarantee the performance of all structural components in accordance with Section 475, Value Added Bridge Component, included as Attachment M.

The Design-Build Firm shall guarantee the performance of all Highway Lighting components in accordance with Section 725, Value Added Highway Lighting System, included as Attachment M.

**X. Adjoining Construction Projects:**

The Design-Build Firm shall be responsible for coordinating construction activities with other construction Projects, including those listed below, that are impacted by or impact this Project to ensure design, maintenance of traffic, construction phasing, incident management, and maintenance responsibility compatibility. This also includes coordinating construction access needs to the proposed median via the adjoining projects. Corridor-wide coordination meetings will be conducted every two (2) weeks during construction to provide lane closure, construction phasing, and other information to adjacent projects. This includes Projects under the jurisdiction of local governments, the Department, or

other local, regional and state agencies. The list of known projects is provided in Reference Document 5. This list is not intended to be all inclusive, and it will be the Design-Build Firm's responsibility for determining the complete inventory of adjoining projects (present and planned) and the required coordination.

The Department will establish within 60 days after NTP, bi-weekly Project/stakeholder coordination meetings to include Department personnel, the Segment B and D Design-Build Firms, and other adjacent project contractors for design and construction coordination. The Design-Build Firm shall participate in the bi-weekly Project/stakeholder coordination meetings. The meetings will be structured to discuss Project issues that affect stakeholders in the vicinity of the Project, and will include discussions regarding: maintenance of traffic; upcoming construction activities; design issues relative to adjacent FDOT projects, Broward County projects, City of Miramar and City of Pembroke Pines projects, and private contracts in the vicinity of the Project area; and stakeholder concerns. The Design-Build Firm shall attend the meetings and be prepared to answer questions and discuss their current maintenance of traffic requests, and identify any upcoming maintenance of traffic plans they intend to submit for the next three (3) week look ahead period. The Department will prepare the agenda and provide written progress reports after each meeting that describes the items of concern, work performed, any resolutions, and summary of decisions made at the meetings. The Design-Build Firm shall prepare a three (3) week look ahead schedule for these meetings with activities to be performed; critical interfacing milestones; maintenance of traffic lane closures required; permit coordination for design, construction and commissioning of ITS devices; and other agency coordination.

Using the current accepted baseline schedule prepared, the Design-Build Firm shall prepare a three week look ahead schedule for those items of interface work activities that could be impacted, hindered, or delayed due to work in the vicinity of the adjacent projects. In addition, any discrete activity with duration longer than two (2) weeks shall be listed. The Design-Build Firm shall update the three (3) week look ahead schedule weekly throughout the Project.

#### **I-75 Express Lanes Project – Segments B and D**

The Design-Build Firm shall be responsible for coordinating design and construction activities with the Segment B Project located directly to the south of the Segment C Project and the Segment D Project located directly to the north of the Segment C Project to ensure design, maintenance of traffic, construction phasing, incident management, and maintenance responsibility compatibility. All work associated with coordinating the design and construction, and related field work necessary to make suitable connections along I-75 and connection ramps shall be considered with the Proposed Contract Time and included in the Bid Price Proposal. This includes all permanent and temporary features including but not limited to: roadway and shoulder pavement; embankment; drainage; retaining wall; barrier wall; sound barrier wall; signing; pavement markings; lighting; ITS; and erosion control.

#### **Pembroke Road Grade Separation**

The Design-Build Firm shall be responsible for coordinating design and construction activities of the proposed Pembroke Road Grade Separation with Broward County Highway Construction & Engineering Division Project No. 5255 (Pembroke Road) to ensure design, maintenance of traffic and construction phasing compatibility. Refer to Section VI.G.2 of this RFP for the Structural Plans design and construction criteria. It is expected that the Broward County contractor will be on site in advance of the Design-Build Firm. It is anticipated that the roadway approaches to the Pembroke Road overpass will be under construction concurrent with this contract.

All work associated with coordinating the design and construction, and related field work necessary to make suitable connections along Pembroke Road shall be included in the Bid Price Proposal. This

includes all necessary temporary features including but not limited to: roadway and shoulder pavement, sidewalk, retaining wall, embankment, drainage, barrier wall, fencing, signing, pavement markings, lighting, and erosion control.

The Design-Build Firm shall be responsible for obtaining a permit from Broward County for any activities affecting the Pembroke Road improvements beyond the limited access right of way. The Design-Build Firm shall take into account the permit application review process and approval time when submitting for a permit. The Design-Build Firm shall not begin any activities requiring a permit from Broward County until an approved permit is issued. Additional information related to permits can be obtained at:

[http://webapps2.broward.org/bcengineering/forms/2008%20Permit%20Application%20\(103108\).pdf](http://webapps2.broward.org/bcengineering/forms/2008%20Permit%20Application%20(103108).pdf)

**Y. Design Issue Escalation:**

The Department has established the issue escalation process for design questions and conflict resolution that the Design-Build Firm shall follow unless revised by the Partnering agreement. All issues are to be directed to the Department Project Manager. If the issue cannot be resolved at this level the Department Project Manager shall forward the issue to the next level in the process. The escalation process begins with the District Design Engineer, followed by the Director of Transportation Operations, and finally to the District Secretary. Each level shall have a maximum of three (3) calendar days (excluding weekends and Department observed holidays), to answer, resolve or address the issue. The three (3) calendar day (excluding weekends and Department observed holidays) period is a response time and does not infer resolution. Questions may be expressed verbally and followed up in writing. The Department Project Manager will respond in a timely manner but not to exceed three (3) calendar days (excluding weekends and Department observed holidays). The Design-Build Firm shall provide any available supporting documentation.

The Design-Build Firm shall provide a similar issue escalation process for their organization with personnel of similar levels of responsibility.

The District Secretary will have the final authority on design decisions.

**Z. Construction Clarification, Conflict Resolution, and Issue Escalation:**

In the event that construction problems occur, the resolution of those problems will be processed in one of the following two ways unless revised by a Partnering Agreement:

- If the resolution does not change the original intent of the Technical Proposal/RFP, then the Design-Build Firm Engineer of Record (EOR) will be responsible for developing the design solution to the construction problem and the Resident Engineer will be responsible for review and response within ten (10) calendar days (excluding weekends and Department observed holidays). The Resident Engineer will either concur with the proposed solution or, if the Resident Engineer has concerns, the issue will be escalated as described in the process below.
- If the resolution does alter the original intent of the Technical Proposal/RFP then the EOR will develop the proposed solution, copy in the Resident Engineer, and send it to the District Construction Office for review and response through the Department Project Manager. The District Construction Office will respond to

the proposed solution within ten (10) calendar days (excluding weekends and Department observed holidays). The District Construction Office will either concur with the proposed solution or, if the Resident Engineer has concerns, the issue will be escalated as described in the process below. Changes to the original intent of the Technical Proposal/RFP will require a contract change order and FHWA approval.

- The Department has established the issue escalation process for construction questions and conflict resolution that the Design-Build Firm shall follow unless revised by the Partnering Agreement. All issues are to be directed to the Department Project Manager. If the issue cannot be resolved at this level the Department Project Manager shall forward the issue to the next level in the process. The escalation process begins with the District Construction Engineer, followed by the Director of Transportation Operations, and finally to the District Secretary. Each level shall have a maximum of three (3) calendar days (excluding weekends and Department observed holidays) to answer, resolve or address the issue. The three (3) calendar day (excluding weekends and Department observed holidays) period is a response time and does not infer resolution. Questions may be expressed verbally and followed up in writing. The Department Project Manager will respond in a timely manner but not to exceed three (3) calendar days (excluding weekends and Department observed holidays). The Design-Build Firm shall provide any available supporting documentation.

The Design-Build Firm shall provide a similar issue escalation process for their organization with personnel of similar levels of responsibility.

Should an impasse develop, the Dispute Review Board shall assist in the resolution of disputes and claims arising out of the work on the Contract.

#### **AA. Incident Management:**

Incident management along the I-75 corridor will be the responsibility of the Department's existing Incident Management and Road Ranger Contractor(s). The Design-Build Firm will be responsible for cooperating and coordinating with the Department's existing contractor(s) in their performance of the Department's responsibilities as identified in the "Open Roads Policy" agreement with the Florida Highway Patrol.

The Design-Build Firm will be required to notify and assist the Department with traffic incidents during the construction and management of the Project, including but not limited to, contamination or hazardous materials release associated with traffic incidents, unauthorized dumping or similar incidents. As directed by the Department, the Design-Build Firm will be responsible for any required long-term maintenance of traffic that has an anticipated duration of 30 minutes or more. Additionally, should an incident occur close to the Segment C Project interface points with the Segment B or D Projects, the Design-Build Firm will be responsible for maintenance of traffic operations that may extend onto the adjacent project.

In the event that any suspect contaminated and/or hazardous materials are encountered during construction, or if any spill of contaminated and/or hazardous material occurs, the Design-Build Firm shall stop work immediately and notify the Department's Project Manager who will coordinate with the Department Contamination Impact Coordinator.

**BB. Emergency Management Responsibilities:**

The Design-Build Firm shall refer to Section 7.6 of the CPAM regarding responsibilities and payment for any advance preparation, repairs, replacement, etc. required as a result of natural disaster, catastrophic or emergency response events. Reverse lane implementation for contraflow traffic operations will not be considered part of this contract. However, the Design-Build Firm shall fully cooperate and coordinate with any entities preparing for reverse lane implementation under the Department's direction. Additional compensation for emergency management activities during a Governor's declared state of emergency will be at the sole discretion of the Department's District Construction Engineer and will be subject to participation by FHWA under the Emergency Relief program or Federal Emergency Management Agency under its disaster reimbursement procedures. Reimbursement for eligible emergency response work will be handled with a separate emergency contract. Otherwise, the Design-Build Firm will not receive any additional compensation. The Department authorizes the Design-Build Firm to pursue damage claims of costs incurred in response to non-natural disasters against the individual or entity which caused damages, or their insurers. Emergency management responsibilities will commence 90 days after the NTP or once mobilization begins, whichever occurs first, and shall continue until partial acceptance.

**CC. Routine Maintenance Responsibilities:**

The Design-Build Firm shall be responsible for routine maintenance throughout the extent of the Department's right of way within the Project limits as noted in the Modified Special Provisions contained in Attachment Q.

The Design-Build Firm shall be responsible for performing all maintenance activities within the Project limits, as delineated in the Maintenance Maps included in Attachment P, starting 90 days after the NTP or once mobilization begins, whichever occurs first and shall continue until partial acceptance as defined under the Friction Course Restrictions in Section VI.J.

The Department will allow a partial acceptance after all contract work is complete, as determined by the Department, with the exception of the friction course and final pavement markings for the Express Lanes. The Department will assume all maintenance responsibilities within the Project limits once partial acceptance is achieved.

Once the Design-Build Firm begins construction activities for the placement of the friction course or 30 days after written notice, whichever occurs first, the Design-Build Firm shall be responsible for maintenance of the median (extending from the inside edge of roadway pavement of the northbound and southbound I-75 General Purpose Lanes) including the ingress/egress ramps connecting the I-75 General Purpose Lanes with the I-75 Express Lanes within the project limits until all work is complete and final acceptance is issued by the Department.

The Design-Build Firm shall fully cooperate with the Department's staff, and/or maintenance contractor to allow access to areas where the Department is responsible for maintenance activities. In the event that the Design-Build Firm cannot provide access to an area for routine maintenance, the Design-Build Firm shall be responsible for completing the maintenance activity.

The Design-Build Firm shall provide proper coordination with adjacent construction Projects for routine maintenance activities.

The Design-Build Firm shall develop a maintenance plan detailing their approach for conducting the proper maintenance activities. The plan must account for the scheduled maintenance activities per the

Maintenance Requirements contained in Attachment P. The plan shall be submitted to the Department no later than 15 calendar days before the start date of maintenance activities for review and approval.

The Design-Build Firm shall be responsible for the maintenance responsibilities associated with ITS devices and infrastructure as described in Attachment N.

## **VI. Design and Construction Criteria.**

### **A. General:**

The Design-Build Firm shall be responsible for: detailed plan checking as outlined in the Plans Preparation Manual (PPM); as described in the RFP; and the Design and Construction criteria package. This includes a checklist of the items listed in the PPM for each completed phase submittal. Bridge submittals may be broken into foundation, substructure and superstructure. Roadway submittals may be broken down into grading, drainage, walls, ITS, tolling, signing & pavement marking, signalization, lighting, landscaping, and final geometry components. The component design must be in conformity with the Design and Construction Criteria requirements, approved preliminary layout and concept as provided in the Technical Proposal.

The Design-Build Firm shall schedule and participate in two (2) design workshops prior to the 90% submittal. The Initial Workshop will occur shortly after the NTP for the resolution of technical issues and/or comments relating to the Technical Proposal. The Design Progress Workshop will be held at the approximate 60% design completion stage when the roadway and drainage design will be substantially complete. In addition to the roadway and drainage design progress, the agenda will include review of the Signing and Lighting Master Plans and 60% ITS Plans, coordination with adjacent project segments, and the approach for upcoming 90% component submittals.

Prior to submittal to the Department, all Category Level II bridge plans shall have a peer review analysis by an independent engineering firm not involved with the production of the design or plans, prequalified in accordance with Chapter 14-75. The peer review shall consist of an independent design check, a check of the plans, and a verification that the design is in accordance with AASHTO and FDOT criteria. The independent peer review engineer's comments and comment responses shall be included in the 90% plans submittal. At the final plans submittal, the independent peer review engineer shall sign and seal a cover letter certifying the final design and stating that all comments have been addressed and resolved.

Before construction activities can begin for a specific component, signed and sealed design plans and calculations supporting the design for that component must be reviewed by the Department. Component submittals shall be complete submittals along with all the supporting information necessary for review. The work must represent logical work activities and must show impacts on subsequent work on this Project. Any modification to the component construction due to subsequent design changes as the result of design development is solely the Design-Build Firm's risk. Upon review by the Department, the plans will be stamped "Released for Construction" and initialed and dated by the reviewer. Any construction initiated by the Design-Build Firm prior to receiving signed and sealed plans stamped "Released for Construction" shall be at the sole risk of the Design-Build Firm.

Prior to submittal to the Department, all Category II bridge plans shall have a peer review analysis in accordance with PPM Volume 1 Chapter 26.

The Design-Build Firm shall not enter upon the following areas without prior consent of the Department;

any public park, archaeological sites identified in the Cultural Resource Assessment Survey (CRAS) documents prepared for the Project, or any other Section 4(f) Resource.

All design and construction work completed under the Contract shall be in accordance with the United States Standard Measures.

## **B. Geotechnical Services**

### **Driven Pile Foundations for Bridges and Major Structures**

The Design-Build Firm shall determine whether the resistance factors used for pile design will be based on static/statnamic load testing. Prepare a Technical Special Provision (TSP) for tests other than the Modified Quick Test, such as Osterberg Cell Load Test or Statnamic Load Test. For Osterberg Cell Load Tests use the same loading and unloading intervals, as well as the same loading times specified for the Modified Quick Test. Comply with the instrumentation requirements of 455-2.4. Before the resistance factors for static/statnamic load testing may be used for pile foundations in any of the following areas of the Project, successful load tests must be performed in representative locations of that area:

- I-75 Express Lanes over C-4 Canal (Minimum 2 tests)
- I-75 NB Mainline Widening over C-4 Canal (Minimum 1 test)
- I-75 SB Mainline Widening over C-4 Canal (Minimum 1 test)
- Miramar Parkway over I-75 (Minimum 2 tests)
- Ramp H-11 Bridge over Ramps MPB1 and MPC2 (Minimum 2 tests)

The Design-Build Firm shall be responsible for the following:

1. Selection of pile type and size.
2. Selection of test pile lengths, locations and quantity of test piles.
3. Selection of pile testing methods.
4. Determining the frequency of such testing unless otherwise stated herein.
5. Performance of the selected test pile program, including dynamic load test personnel and equipment. The Department may observe the installation of test piles and all pile testing.
6. Preparing and submitting a Pile Installation Plan for the Department's acceptance.
7. Selection of production pile lengths.
8. Development of the driving criteria.
9. Driving piles to the required capacity and minimum penetration depth.
10. Inspecting and Recording the pile driving information.
11. Submitting Foundation Certification Packages.
12. Providing safe access, and cooperating with the Department in verification of the piles, both during construction and after submittal of the certification package.

### **Drilled Shaft Foundations for Bridges and Miscellaneous Structures**

The Design-Build Firm shall determine whether the resistance factors used for drilled shaft design will be based on static/statnamic load testing. Prepare a Technical Special Provision (TSP) for tests other than the Modified Quick Test, such as Osterberg Cell Load Test or Statnamic Load Test. For Osterberg Cell Load Tests use the same loading and unloading intervals, as well as the same loading times specified for

the Modified Quick Test. Comply with the instrumentation requirements of 455-2.4. Before the resistance factors for static/statnamic load testing may be used for drilled shafts in any of the following areas of the Project, successful load tests must be performed in representative locations of that area:

- I-75 Express Lanes over C-4 Canal (Minimum 2 tests)
- I-75 NB Mainline Widening over C-4 Canal (Minimum 1 test)
- I-75 SB Mainline Widening over C-4 Canal (Minimum 1 test)
- Miramar Parkway over I-75 (Minimum 2 tests)
- Ramp H-11 Bridge over Ramps MPB1 and MPC2 (Minimum 2 tests)

The Design-Build Firm shall be responsible for the following:

1. Evaluating geotechnical conditions to determine the drilled shaft diameter and length and construction methods to be used.
2. Performing the subsurface investigation and drilling pilot holes prior to establishing the drilled shaft tip elevations and socket requirements.
3. Extend pilot holes throughout the full length of the shaft and to a depth of three (3) times the diameter of the drilled shaft below the proposed tip elevation. For redundant shafts, perform one pilot hole at each bent/pier. The pilot holes at each bent/pier should be staggered along the bridge alignment. Perform pilot holes/borings for non-redundant drilled shafts in accordance with the Department's Soil and Foundations Handbook.
4. Determining the locations of the load test shafts and the types of tests that will be performed.
5. Performing pilot borings for test holes (also known as test shafts or method shafts) and load test shafts and providing the results to the Department at least one (1) working day before beginning construction of these shafts.
6. Preparing and submitting a Pile Installation Plan for the Department's acceptance.
7. Constructing the method shaft (test hole) and load test shafts successfully and conducting integrity tests on these shafts.
8. Providing all personnel and equipment to perform a load test program on the load test shafts.
9. Determining the production shaft lengths.
10. Documenting and providing a report that includes all load test shaft data, analysis, and recommendations to the Department.
11. Constructing all drilled shafts to the required tip elevation and socket requirement in accordance with the specifications.
12. Inspecting and documenting the construction of all drilled shafts in accordance with the specifications.
13. Performing Cross-Hole Sonic Logging (CSL) or Thermal Integrity tests on all nonredundant drilled shafts supporting bridges. For redundant drilled shaft bridge foundations and drilled shafts for miscellaneous structures, perform CSL or Thermal Integrity testing on any shaft suspected of containing defects.
14. Repairing all detected defects and conducting post repair integrity testing using 3D tomographic imaging and gamma-gamma density logging.
15. Submitting Foundation Certification Packages in accordance with the specifications.
16. Providing safe access, and cooperating with the Department in verification of the drilled shafts, both during construction and after submittal of the certification package.



### **Spread Footings Foundations**

The Design-Build Firm shall be responsible for the following:

1. Evaluating the effects of construction activities on nearby foundations and reporting the findings and conclusions to the Department.
2. Evaluating geotechnical conditions and designing the spread footing.
3. Constructing the spread footing to the required footing elevation, at the required soil or rock material, and at the required compaction levels, in accordance with the specifications.
4. Inspecting and documenting the spread footing construction.
5. Submitting Foundation Certification Packages in accordance with the specifications.
6. Providing safe access, and cooperating with the Department in verification of the spread footing, both during construction and after submittal of the certification package.

### **Auger Cast Piles for Sound Barrier Walls**

The Design-Build Firm shall be responsible for the following:

1. Evaluating geotechnical conditions and designing the foundations, including diameter and lengths.
2. Constructing all auger cast piles to the required tip elevation and socket requirements, in accordance with the specifications.
3. Preparing and submitting an Auger Cast Pile Installation Plan for the Department's acceptance.
4. Inspecting and documenting the auger cast pile installation.
5. Submitting Foundation Certification Packages in accordance with the specifications.
6. Providing safe access, and cooperating with the Department in verification of the auger cast piles, both during construction and after submittal of the certification package.

### **Organic and Unsuitable Soils**

For the design and construction of the proposed roadway corridor (including shallow foundations for structures and MSE walls), the Design-Build Firm shall be required to remove all organic soils (A-8/Muck) and other unsuitable soils as per Standard Index Nos. 500 and 505 without allowance for any modification in the plans by the Geotechnical/Design EOR.

To prevent potential settlement and/or damage to the permanent improvements constructed at the southern and northern Project limits of Segment C, the Design-Build Firm will be responsible for extending the Segment C construction limits a suitable distance to the south and north as required to remove any organic and unsuitable materials present, and subsequently backfill the trench with select material to adequately stabilize the newly constructed roadway section.

For the Pembroke Road Overpass Bridge, Broward County will be responsible for removing unsuitable materials within the limits of the proposed permanent retaining walls and for backfilling the excavated area with suitable materials to the existing grade.

### **C. Utility Coordination**

The Design-Build Firm shall utilize a single dedicated person responsible for managing all utility coordination. This person shall be contractually referred to as the Utility Coordination Manager and shall be identified in the Design-Build Firm's proposal. The Design-Build Firm shall notify the Department in

writing of any change in the identity of the Utility Coordination Manager. The Utility Coordination Manager shall have the following knowledge, skills, and abilities:

1. A minimum of 4 years of experience performing utility coordination in accordance with Department standards, policies, and procedures.
2. Knowledge of the Department plans production process and utility coordination practices,
3. Knowledge of Department agreements, standards, policies, and procedures.

The Design-Build Firm's Utility Coordination Manager shall be responsible for managing all utility coordination, including, but not limited to, the following:

1. Ensuring that all utility coordination and activities are conducted in accordance with the requirements of the Contract Documents.
2. Identifying all existing utilities and coordinating any new installations.
3. Reviewing proposed utility permit application packages and recommending approval/disapproval of each permit application based on the compatibility of the permit as related to the Design-Build firm's plans.
4. Scheduling utility meetings, preparing and distributing minutes of all utility meetings, and ensuring expedient follow-up on all unresolved issues.
5. Distributing all plans, conflict matrices and changes to affected Utility Agency/Owners and making sure this information is properly coordinated.
6. Identifying and coordinating the execution and performance under any agreement that is required for any utility work needed in with the Design-Build Project.
7. Preparing, reviewing, approving, signing, coordinating the implementation of and submitting to the Department for review and acceptance, all Utility Work Schedules.
8. Resolving utility conflicts.
9. Obtaining and maintaining all appropriate Sunshine State One Call Tickets.
10. Performing Constructability Reviews of plans prior to construction activities with regard to the installation, removal, temporary removal, de-energizing, deactivation, relocation, or adjustment of utilities.
11. Providing periodic Project updates to the Department Project Manager and District Utility Office as requested.
12. Coordinating with the Department on any issues that arise concerning reimbursement of utility work costs.

The following Utility Agency/Owners (UA/O's) have been identified by the Department as having facilities within the Project corridor which may be impacted by the Project. Also provided below is a determination made by the Department as to the eligibility of reimbursement for each potentially impacted UA/O identified herein.

UA/O	Eligible for Reimbursement (Y/N)
AT&T Broward – Distribution	Y
Broward County Traffic Engineering	Y
City of Miramar	Y
City of Pembroke Pines	Y
Comcast	Y
Florida Power and Light Broward – Distribution	Y
Florida Power and Light Broward – Transmission	Y
TECO Peoples Gas South Florida	Y

Where the Department has identified the UA/O is eligible for reimbursement and their facilities are in direct conflict and must be relocated due to the Project’s work effort, the replacements for any impacted utilities shall be designed and constructed to provide service at least equal to that offered by the existing facilities (unless the UA/O specifies a lesser replacement), but shall not include any betterments, unless added to the Utility Adjustment Work through a Utility Agreement between the UA/O and the Design-Build Firm. UA/O’s may request the Department to allow the Design-Build Firm to perform additional Utility Adjustment Work relating to betterments at the UA/O’s expense.

The Design-Build Firm will be responsible for completing all utility coordination and relocation with identified and any unidentified UA/O’s. The Design-Build Firm will be responsible for payment of utility adjustment, relocation, installation and/or removal of facilities when the Project work necessitates any utility relocation work.

The Department has conducted field surveys and early coordination with UA/O’s for the entire corridor. The results of these efforts are meeting minutes, as-built plans, utility owner mark-ups, above ground and subsurface utility surveys, identified utilities matrix based on the Concept Plans, and a utility contact listing. These materials in addition to available permits along the Project corridor are provided in Reference Document 7 and will need to be verified by the Design-Build Firm.

It is the Design-Build Firm’s responsibility to meet the “Buy America” Material Certification Requirements in accordance with the Buy America provisions of 23 CFR 635.410, as amended for all utility work it performs. For utility work performed by the UA/O, the Design-Build Firm shall not incorporate into the Project any iron or steel used for the utility work until the UA/O provides a certification from the producer of the steel or iron, or any product containing steel or iron as a component, stating that all steel or iron furnished or incorporated into the furnished product was manufactured in the United States. Such certification shall comply with the Division 1 Specification of this RFP.

**D. Roadway Plans:**

**General:**

The Design-Build Firm shall prepare the Roadway Plans Package. This work effort includes the roadway design and drainage analysis needed to prepare a complete set of Roadway Plans, Drainage Plans, Traffic Control Plans, Environmental Permits and other necessary documents.

### **Design Analysis:**

The Design-Build Firm shall develop and submit a signed and sealed Typical Section Package, Pavement Design Package and Drainage Analysis Report for review and concurrence by the Department and FHWA on Federal Aid Oversight Projects.

A design variation for shoulder width has been approved for the Project and is provided in Attachment K. It is not anticipated that design exceptions will be required for this Project.

Any deviation from the Department's design criteria will require a design variation, and any deviation from AASHTO will require a design exception. All such design variations and exceptions must be approved.

These packages shall include the following:

1. **Roadway Design:**

See PPM Volume 2; Chapter 2 for Roadway Design sheets, elements and completion level required for each submittal.

2. **Typical Section Package:**

- Transmittal Letter
- Location Map
- Roadway Typical Section(s)
  1. Pavement Description (includes milling depth)
  2. Minimum lane, shoulder, median, border, Right of Way widths
  3. Slopes requirements
  4. Barriers
  5. Right of Way
- Data Sheet
- Design Speed

3. **Pavement Design Package:**

- Pavement Design
  1. Minimum design period
  2. Minimum ESAL's
  3. Minimum design reliability factors
  4. Resilient modulus for existing and proposed widening (show assumptions)
  5. Roadbed resilient modulus
  6. Friction course
  7. Minimum structural asphalt thickness
  8. Minimum base group
  9. Subbase
  10. Identify the need for modified binder
  11. Pavement coring and evaluation
  12. Identify if ARMI layer is required
  13. Minimum milling depth

14. Resurfacing thickness
15. Asphalt thickness (at Toll Gantries)
16. Concrete thickness \*

\* For the I-75 Express Lanes, the Design-Build Firm will have the option to propose a rigid pavement design in lieu of a flexible pavement design. The rigid pavement design shall be in accordance with the design parameters contained in the approved Pavement Design Report and in accordance with the FDOT Rigid Pavement Design Manual.

#### 4. **Drainage Analysis and Reporting:**

The Design-Build Firm shall be responsible for designing the drainage and stormwater management systems. All design work shall be in compliance with the Department's Drainage Manual; Florida Administrative Code, Chapter 14-86; Federal Aid Policy Guide 23 CFR 650A; and the requirements of the regulatory agencies. This work will include the engineering analysis necessary to design any or all of the following: cross drains, roadway ditches, outfall ditches, storm sewers, retention/detention facilities, interchange drainage and water management, other drainage systems and elements of systems as required for a complete drainage analysis and reporting. Full coordination with all permitting agencies, the District Four and PL&EM Office and Drainage Design Section will be required from the outset. Complete documentation of all meetings and decisions are to be submitted to the District Drainage Design Section. These activities and submittals shall be coordinated through the Department's Project Manager.

The exact number of drainage basins, outfalls and water management facilities (retention/detention areas, weirs, etc.) will be the Design-Build Firm's responsibility.

Included in the Conceptual Permit Packages under Attachment G of this RFP is the Conceptual Drainage Report. This report addresses the Preferred Alternative from the PD&E Study including the ultimate roadway, structures, and drainage improvements along the I-75 corridor from NW 170<sup>th</sup> Street to the I-595 Interchange. The report has been prepared as part of the Conceptual Environmental Resource Permit (ERP) package submitted to the United States Army Corps of Engineers (USACE) and the South Florida Water Management District (SFWMD) for master plan review and approval.

The Design-Build Firm's drainage analysis and reporting shall include, but is not limited to the following.

1. Design of stormwater management facilities consisting of dry retention/detention swales, and/or dry/wet detention ponds that provide stormwater treatment/attenuation as required to comply with the Department's Drainage Manual and to obtain permit approvals from the regulatory agencies, including but not limited to the SFWMD and SBDD. The Design-Build Firm shall provide protective barriers for any proposed wet detention ponds that are defined as a "canal hazard" under Section 4.2.1 of the FDOT Plans Preparation Manual, Volume 1.
2. Given the available Right of Way for retention/detention facilities, use of exfiltration trench is not allowed.
3. Design of control structures/outfalls that restrict required construction work to within existing Right of Way, and/or SFWMD and SBDD canal Right of Ways, and comply with Department and regulatory agency standards. Note that the proposed outfall pipe and end treatment identified in the Conceptual Drainage Report to be constructed at the southern limits of the Segment C Project is located entirely within Department right of way and/or a SBDD drainage easement. As

such, construction of this outfall pipe and end treatment is authorized under the SBDD permit and will not require any additional right of way clearances. Manatee grates and/or other provisions will be required for all existing or proposed outfalls to receiving SFWMD canals or as otherwise required by permit.

4. Design of drainage structures and piping necessary to interconnect stormwater management facilities. Micro-tunnel and/or jack-and-bore installations will be required for major equalizer crossings beneath all roadways and ramps. No open cuts are permitted.

5. Design of stormwater management system(s) shall conform to the ultimate stormwater management system identified in the Conceptual Drainage Report, to the maximum extent practical. The Department acknowledges that several of the ponds identified in the Conceptual Drainage Report, as well as portions of swales adjacent to interchange ramps, are based on the ultimate interchange modifications and cannot be implemented in kind for this Express Lanes Project. Within such areas, the Design-Build Firm shall modify proposed pond and swale locations accordingly, based on the existing interchange configurations to remain. The Design-Build Firm will only be required to provide the minimum volume(s) required to satisfy the Department's Drainage Manual and regulatory agency criteria for the proposed interim improvements. However, the Design-Build Firm shall not propose any improvements that will be in direct conflict with future improvements defined as part of the PD&E Preferred Alternative and depicted in the Permit Plans.

6. The Design-Build Firm shall incorporate features into the drainage design that minimize long-term maintenance. In particular, at locations within swales where sump conditions are unavoidable at pipe outlets, the Design-Build Firm shall provide concrete ditch pavement and/or bubble-up structures.

7. The Design-Build Firm shall perform design and generate construction plans documenting the permitted systems function to criteria.

The Design-Build Firm shall verify that all existing cross drains and storm sewers that are to remain have adequate hydraulic capacity and design life. Flood flow requirements will be determined in accordance with the Department's procedures. If any of these existing cross drains or storm sewers are found to be hydraulically inadequate or found to have insufficient design life, they must be replaced or supplemented in accordance with the drainage requirements of this RFP. If any existing cross drains or storm sewers require repairs but otherwise would have sufficient remaining design life, repairs shall be made in accordance with the requirements of this RFP.

Existing cross drains shall be extended outside of the clear zone or sufficiently from the edge of pavement such that a protective permanent barrier (guardrail or barrier wall) can be installed per Department criteria. Cross drains shall be extended through the existing medians to accommodate the I-75 Express Lanes. Along the outsides, cross drains may need to be extended beyond the clear zone, past the proposed ground mounted sound barrier walls. Saddle risers or other similar mechanisms to allow for air exchange will be required within cross drain extensions in excess length of 75 feet.

All legal outfalls of adjacent drainage systems or properties (via Drainage Connection Permits or historical overland flow) shall be maintained in the final design and throughout construction. The Design-Build Firm shall identify any offsite areas with historical overland flow to the existing corridor and provide final design measures necessary to maintain such drainage and/or to provide diversion to an adjacent receiving waterbody.

The Design-Build Firm will consider optional culvert materials in accordance with the Department's Drainage Manual Criteria. The Design-Build Firm shall design a closed drainage system(s), where necessary to accommodate the proposed I-75 Express Lanes improvements within the existing median, thereby providing collection and conveyance of stormwater runoff to the stormwater management facilities. Adjacent to proposed barrier walls where longitudinal slope will be less than the Department's minimum criteria, the Design-Build Firm may incorporate shoulder rocking described in Section VI.E of this RFP to enhance pavement hydraulics before utilizing trench drain.

The Design-Build Firm shall desilt the entire drainage system within the limits of construction at the completion of all soil disturbing activities and drainage work.

The Design-Build Firm shall provide thrust blocks and resilient connectors for all vertical pipes located within MSE walls.

The Design-Build Firm shall coordinate the drainage design, construction, and permitting with the Segments A&B Design-Build Firm to ensure project interface compatibility, particularly within Basin BR1-BW and Basin BR1-BE as defined in the Conceptual Drainage Report. To effectively integrate the drainage systems between Segments A&B and C, the Design-Build Firm will need to ensure that the stormwater management facilities and discharge structure constructed at the southern limits of the Segment C project can accommodate the future inflows from the portion of Basin BR1-BW and Basin BR1-BE that lie within the Segments A&B project limits.

Similarly, the Design-Build Firm shall coordinate the drainage design, construction, and permitting with the Segment D Design-Build Firm to ensure project interface compatibility, particularly between Basin BR-2, Basin BR-3 and Basin BR-4A, as defined in the Conceptual Drainage Report. The Design-Build Firm shall construct the proposed swales and ponds to the northern terminus of the Segment C project limits. Since the ultimate control structure and outfall is located downstream within Segment D, the drainage system constructed between Pines Boulevard and the northern terminus of the Segment C project limits shall temporarily function as a retention system until the Segment D project connects the swales at the project limits interface.

Prior to final acceptance, the Design-Build Firm shall prepare and submit an "Environmental Resource/Surface Water Management Permit, Surface Water Management System Construction Completion Certification" form [SFWMD Form 0881A (09/2003)] to the SFWMD with the appropriate as-built plans. The Design-Build Firm will also be required to provide copies of the forms and as-built construction plans, signed and sealed by a professional engineer, to the Department. At the same time the certification forms and as-built construction plans are submitted to SFWMD and the Department, the Design-Build Firm shall also prepare for the Department a "Request for Conversion of District Environmental Resource/Surface Water Management Permit from Construction Phase to Operation Phase and Transfer of Permit to the Operating Entity" form [SFWMD Form 09209 (09/2004)].

The Design-Build Firm shall adhere to the permitting agencies' general and specific conditions regarding turbidity control during construction to ensure that the waters remain in compliance with water quality parameters. Any permit special condition (such as water quality monitoring) which was required as a condition of future performance, prior to issuance of the permit, shall be satisfied, in full, to the satisfaction of the regulatory agencies prior to the end of the contract. Prior to the end of the contract, the Design-Build Firm shall provide written documentation from the SFWMD that the performance measures have been achieved and the water management district has concurred the stormwater treatment pond is functioning as designed and state water quality standards are being achieved.

Prior to proceeding with the Drainage Design, the Design-Build Firm shall meet with the District Drainage Engineer. The purpose of this meeting is to provide information to the Design-Build Firm that will better coordinate the Preliminary and Final Drainage Design efforts. This meeting is Mandatory and is to occur fifteen (15) calendar days (excluding weekends and Department observed holidays) prior to any submittals containing drainage components.

The Design-Build Firm shall provide the Department's District Drainage Engineer a signed and sealed Drainage Design Report. It shall be a record set of all drainage computations, both hydrologic and hydraulic. The Design-Build Firm shall include all necessary support data.

The Design-Build Firm shall provide the Department's District Drainage Engineer a signed and sealed Bridge Hydraulics Report. It shall be a record set of all drainage computations, including hydrologic, hydraulic, and scour. The Design-Build Firm shall include all necessary support data.

#### **E. Geometric:**

##### **General**

The Concept Design has been developed to be consistent with the PD&E Study Preferred Alternative improvements and subsequent reevaluation documentation. The Design-Build Firm shall make use of the Concept Design documents included in Reference Document 1 as a general basis for establishing the Segment C geometric layout. The Design-Build Firm shall be solely responsible for the development of a design that meets all applicable standards and criteria.

A recent directive from Broward County has resulted in lane, buffer and sidewalk width modifications to the typical sections for Miramar Parkway and Pembroke Road. These modifications are reflected in the Typical Section Package included as Attachment I, but have not been incorporated into the Concept Design documents included in Reference Document 1. The Design-Build Firm shall be responsible for incorporating the recent typical section modifications for Miramar Parkway and Pembroke Road into the design concept for the Technical Proposal.

The I-75 Express Lanes median concrete barrier wall shall include an Opaque Visual Barrier throughout the entire Segment C Project limits.

For all new and reconstructed paved shoulders along I-75 Mainline and I-75 Express Lanes, ground-in rumble strips shall be constructed in accordance with FDOT Standard Index No. 518.

The Design-Build Firm shall adhere to the number of lanes and configurations for all roadways, auxiliary lanes, acceleration and deceleration lanes, and ramps as depicted in the Concept Plans. No reduction in the number of ingress and egress points shall be permitted.

The sequence of ramp entrances and exits, and associated merge and diverge movements as depicted in the Concept Plans shall be maintained. The Design-Build Firm shall follow the AASHTO recommended minimum ramp terminal spacing for entrance and exit conditions regardless of the side of the roadway that the succession of ramp connections occur.

The Design-Build Firm shall design and construct Ramp H-14 and a portion of Ramp H-11 located beyond the Segment C southern project limit (Sta. 367+00) as part of the Project. The Design-Build Firm shall be responsible for all temporary and permanent work associated with Ramp H-11 and Ramp H-14 between the existing northbound I-75 General Purpose Lanes and the limited access right of way line,



starting from I-75 Sta. 356+00 (equivalent Ramp H-11 Sta. 11038+87.17) and extending to the north. The Design-Build Firm shall also be responsible for coordinating design and construction activities with the Segment B Design-Build Firm to ensure design and construction phasing compatibility.

### **Pembroke Road Grade Separation**

The Design-Build Firm shall strictly adhere to the horizontal and vertical alignments of the Pembroke Road Overpass Bridge detailed in the Structural Concept Plans (refer to Reference Document 1).

The Pembroke Road vertical alignment contained in the Segment C Concept Design is based on the National Geodetic Vertical Datum of 1929 (NGVD 29) similar to the Broward County Project No. 5255 plans. The Design-Build Firm shall prepare the Segment C Design Plans based on the North American Vertical Datum of 1988 (NAVD 88).

### **Miramar Parkway Interchange**

Single departure point exit ramps from northbound and southbound I-75 mainlines for accessing downstream ramps to eastbound and westbound Miramar Parkway shall be provided per the Concept Design. The pavement receiving entry width for triple left turns shall be at least 45 feet.

### **Design Speed**

A design speed of 70 mph shall be used for the I-75 General Purpose Lanes and Express Lanes, as well as for the acceleration and deceleration lanes. Minimum design speeds for individual ramps are shown in the Concept Plans and the Typical Section Package, and shall not be changed by the Design-Build Firm.

### **Typical Section Package and Design Variation**

The I-75 Express Lanes shall comply with the 2-lane, barrier-separated HOV Lane criteria for shoulder widths in accordance with Table 2.3.1 of the PPM Volume I. Outside of the areas requiring barrier wall separation between the I-75 Express Lanes and General Purpose Lanes, the Express Lanes outside shoulder width shall be 12 feet (10 feet paved). Additionally, the shoulder widths shall not be reduced at locations of gantry systems, ITS facilities, overhead sign structures, light poles, TMS cabinets, approaches to bridges, or for any other reason.

Reverse crowns will not be permitted except where required for superelevation and associated transitions.

In the areas where the ingress/egress ramps connect with the I-75 Express Lanes and there are more than two lanes in either direction, all pavement beyond the two lanes for normal crown sections shall be sloped at (-)3% to facilitate proper drainage. Similarly, when in superelevation transition and superelevated sections the pavement shall meet the cross slopes as required by Volume 1, Chapter 2 of the PPM.

For any proposed fill slopes steeper than 1:3 (V:H), the Design-Build Firm shall provide a solution that addresses long term erosion control and lessens maintenance cost concerns. The solution shall address the following items: continual maintenance after completion of construction; erosion protection measures; repair/re-grading procedures; and, turf management procedures. Slopes steeper than 1:2 (V:H) are not allowed unless approved by the Department.

Except as identified in the Shoulder Width Design Variation documentation included as Attachment K, the inside shoulder width of the General Purpose Lanes shall be a minimum twelve (12) feet.

### **Horizontal and Vertical Alignments**

Refinements to the horizontal and vertical alignments depicted in the Concept Plans will be permitted, but shall comply with the following restrictions and conditions:

- All horizontal and vertical alignment information for the Express Lanes at the southern and northern termini of Segment C are fixed by the Concept Design to allow for continuity across Project Segments B and D, and shall not be modified by the Design-Build Firm for a minimum distance of 400 feet.
- Within the influence of the exchange areas and toll gantry locations, and also between I-75 approximate Sta. 370+50 and Sta. 399+00, there are areas where barrier separations may be necessary between the Express Lanes and the General Purpose Lanes. For other locations, the Design-Build Firm shall design the profiles of the Express Lanes to eliminate the need for traffic barrier, either wall or guardrail, between the Express Lanes and the General Purpose Lanes in accordance with Volume 1, Chapter 4 of the PPM.
- The I-75 Express Lanes alignment relative to the General Purpose Lanes alignment shall remain constant to the maximum extent possible, and shall not be subjected to isolated alignment adjustments due to locations of gantry systems, ITS facilities, overhead sign structures, light poles, TMS cabinets, approaches to bridges, or for any other reason.
- The centerline of the I-75 Express Lanes shall generally follow the centerline of the existing median and only minor deviations (2 feet maximum) will be permitted.
- Shoulder Cross Slope Criteria - should the Design-Build Firm elect to incorporate shoulder transition to facilitate drainage along concrete barrier wall, then the following criteria and conditions shall apply:
  - Minimum longitudinal gradient = 0.30%
  - Minimum shoulder cross slope = adjacent roadway pavement cross slope
  - Maximum shoulder cross slope = adjacent roadway pavement cross slope plus 7% to a maximum cross slope of 10%
  - Maximum rate of change of shoulder cross slope = 1:125 slope ratio
  - Minimum inlet spacing = 200 feet
  - For the shoulder rocking condition, the height of the proposed concrete barrier wall will vary (2'-8" minimum) between the high and low points of the special edge of shoulder profile. This is to ensure that the top of the barrier wall profile (including the 2'-3" tall median opaque visual barrier) is relatively constant and generally follows the grades of the proposed profile grade line to avoid undulating conditions. The Design-Build Firm shall design the top of concrete barrier wall profile in such a manner as to create a profile that is similar to the roadway profile and does not 'sawtooth' with a rocking shoulder design.
  - The design shall include provisions to assure that the reveal of the proposed concrete barrier wall is not compromised.

#### **F. Design Documentation, Computations and Quantities:**

The Design-Build Firm shall submit to the Department design documentation, notes, calculations, and computations to document the design conclusions reached during the development of the construction plans, and include a table of contents.

The design notes and computation sheets shall be fully titled, numbered, dated, indexed, and signed by the designer and the checker. Computer output forms and other oversized sheets shall be folded to a standard size 8½" x 11". The data shall be in a hard-back folder for submittal to the Department. At the

Project completion, a final set of design notes and computations, signed by the Design-Build Firm, shall be submitted with the record set of plans and tracings.

The design documentation, notes, calculations, and computations shall include, but not be limited to the following data:

1. Design standards used for the Project
2. Geometric design calculations for horizontal alignments
3. Vertical geometry calculations
4. Documentation of decisions reached resulting from meetings, telephone conversations, emails, and site visits

**G. Structure Plans:**

**1. Bridge Design Analysis:**

- a. The Design-Build Firm shall submit to the Department final signed and sealed design documentation prepared during the development of the plans.
- b. The Design-Build Firm shall insure that the final geotechnical and hydraulic recommendations and reports required for bridge design are submitted with the 90% bridge plans.
- c. The Design-Build Firm shall "Load Rate" all bridges in accordance with the Department Procedure 850-010-035 and the Structures Manual. The bridge load rating shall be submitted to the Department for review with the 90% superstructure submittal. The as-bid load rating (based on the 90% design plans) shall be provided to the Department before any traffic is placed on the bridge. The as-bid load rating shall be signed and sealed by a Professional Engineer licensed in the State of Florida. A final, signed and sealed copy of the Bridge Load Rating, updated for the as-built conditions shall be submitted to the Department's Project Representative and the District Structures Maintenance Engineer with the as-built bridge plans.
- d. The Design-Build Firm shall evaluate scour on all bridges over water using the procedures described in HEC 18.
- e. The Engineer of Record for bridges shall analyze the effects of the construction related loads on the permanent structure. These effects include but are not limited to: construction equipment loads, change in segment length, change in construction sequence, etc. The Engineer of Record shall review all specialty engineer submittals (camber curves, falseworks systems, etc.) to ensure compliance with the contract plan requirements and intent.

## 2. **Criteria**

The Design-Build Firm shall incorporate the following into the design of this facility:

- a. All plans and designs are to be prepared in accordance with AASHTO LRFD Bridge Design Specifications, Department Standard Specifications, Structures Manual, Plans Preparation Manual, Department Standard Drawings, Supplemental Specifications, Special Provisions, and directions from the State Structures Design Engineer, Temporary Design Bulletins, Structures Design Office and / or District Structures Design Engineer.
- b. Bridge Widening: In general, match the existing as per the Department Structures Manual.
- c. Critical Temporary Retaining Walls: Whenever the construction of a structural component (such as a wall, footing, or other such component) requires excavation that may endanger the public or an existing structure that is in use the Design-Build Firm must protect the existing facility and the public. If a critical temporary retaining wall is, therefore, required during the construction stage only, it may be removed and reused after completion of the work. Such systems as steel sheet pilings, soldier beams and lagging or other similar systems are commonly used. In such cases, the Design-Build Firm is responsible for designing detailing the wall in the set of contract plans. These plans must be signed and sealed by the Structural Engineer in responsible charge of the wall design.

Permanent Retaining Walls: The Design-Build Firm is responsible for the design and construction of any required retaining walls. All permanent retaining walls shall be full height walls. All permanent retaining walls shall have a concrete facing. Retaining wall heights shall not exceed 40 feet (MSE wall height shall be measured from the top of the natural ground to the top of the highest coping). Partial height walls such as perched (defined as walls: (1) founded on fill above the elevation of the natural ground line, or (2) located within a fill slope between the toe of slope and the top of slope) and toe walls (defined as walls that: (1) preserve a portion of an existing fill slope, or (2) eliminate only a small portion of sloped embankment at the bottom of the slope) are not permitted. Fill slopes that create a perched wall and/or create a retaining wall greater than 40 feet if the perched condition is eliminated are not permitted. Proposed retaining walls adjacent to existing bridge embankment slopes shall have the top of leveling pads placed below the embankment toe of slope such that the proposed leveling pad is not within an existing or proposed fill slope or embankment slope. The natural ground line shall be defined at a maximum elevation 4.5 NAVD (elev. 6.0 NGVD) for establishing compliance with wall height and type criteria. Retaining walls on fill such that the fill height at the wall leveling pad elevation continues at the same elevation for at least a wall height horizontal distance away from the wall in all directions shall not be considered perched walls (for these walls, the wall height can be

measured from the top of leveling pad to top of highest coping).

- d. The following environmental classifications shall be used for the bridges:

Bridge	Environmental Classifications	
	Superstructure	Substructure
<ul style="list-style-type: none"> <li>• Miramar Parkway Overpass Bridge over I-75 (Bridge No. 860316)</li> <li>• Pembroke Road Overpass Bridge over I-75 (Bridge No. 864124)</li> <li>• I-75 Express Lanes Bridge over C-4 Canal</li> <li>• I-75 NB Mainline Bridge (widening) over C-4 Canal (Bridge No. 860352)</li> <li>• I-75 SB Mainline Bridge (widening) over C-4 Canal (Bridge No. 860351)</li> <li>• Ramp H-11 Bridge over Ramps MPB1 and MPC2</li> </ul>	Slightly Aggressive	Moderately Aggressive (Concrete) Moderately Aggressive (Steel)

- e. Miramar Parkway Overpass Bridge (Bridge No. 860316) over I-75 shall be replaced or as approved by the ATC process.
- f. The Design-Build Firm shall be responsible for constructing the Pembroke Road Overpass Bridge (Bridge No. 864124) and associated permanent retaining walls up to the wall termination stations defined in the table below. Slip joints shall be provided by the Design-Build Firm at the wall termination station to complete the permanent retaining wall construction. The wall termination stations are given along the centerline construction of Pembroke Road. The wall termination stations at each individual wall location shall be determined by offsetting to the wall location parallel to the bridge skew.

Location	Wall Termination Station
Begin Bridge location	90+97.98
End Bridge location	96+07.87

Broward County will be responsible for constructing the roadway approaches, and the permanent retaining walls up to the wall termination stations and shall terminate their portion of permanent walls using temporary wire mesh walls parallel to the bridge skew. Broward County will be responsible for all wall components, including permanent wall panels, coping from the wall termination stations and beyond.

- g. For the Pembroke Road Overpass Bridge, the Design-Build Firm shall complete the construction of all bridge and retaining wall components of work from the begin bridge approach slab location to the end bridge approach slab location. Any bridge or retaining wall items of work within these limits shall be the responsibility of the Design-Build Firm. For the retaining walls, items of work include but are not limited to the retaining wall slip joints, retaining wall panels and retaining wall coping. For the bridge, items of work within these limits include but are not limited to the approach slabs, traffic and pedestrian barriers, bridge fencing, conduit and

pull boxes embedded in the barriers, light pole pilasters, light poles, and all items associated with providing the final bridge surface finish, to include profilographing, deck grooving and striping. Wiring for the bridge lighting will be furnished and installed by Broward County.

- h. For the Pembroke Road Overpass Bridge, the bridge runoff will convey into barrier wall inlets to be constructed on the roadway approaches, which will discharge into dry detention ponds located within Broward County right of way. If the approaches and drainage are not in place at the time of bridge construction completion, then the Design-Build Firm shall provide for temporary drainage measures that collect and convey the bridge runoff into the proposed I-75 swales.
- i. For the Pembroke Road Overpass Bridge, alternative bridge replacement concepts that differ from the concrete Florida I-Beam (FIB) Structural Concept Plans provided in the RFP will require approval by the ATC process. This includes bridge limits, bridge type, bridge material, and bridge span lengths and depths. The minimum vertical clearance of 19'-7<sup>1</sup>/<sub>8</sub>" shown in the Structural Concept Plans, and the 60'-10<sup>7</sup>/<sub>8</sub>" and 61'-0<sup>5</sup>/<sub>8</sub>" horizontal distances reserved for future improvements as shown in the Structural Concept Plans shall not be reduced by the ATC process.
- j. For the Pembroke Road Overpass Bridge, the Design-Build Firm shall use the Structural Concept Plans provided in Reference Document 1 for information within the begin and end bridge limits. Beyond these limits, the Design-Build Firm shall refer to the Broward County Project No. 5255 plans and will consider the proposed improvements as existing conditions. The Design-Build Firm's attention is directed to the fact that the County plans are based on the National Geodetic Vertical Datum of 1929 (NGVD 29). The Design-Build Firm should also note that the elevation data depicted on the Pembroke Road Bridge Plan and Elevation sheet contained in the Structural Concept Plans are also based on the National Geodetic Vertical Datum of 1929 (NGVD 29). The Design-Build Firm shall prepare the Pembroke Road Structure Plans based on the North American Vertical Datum of 1988 (NAVD 88).
- k. I-75 NB (Bridge No. 860352) and I-75 SB (Bridge No. 860351) mainline bridges over the C-4 Canal have precast deck panels. A full deck replacement with an 8½" cast-in-place deck is required when the bridges are widened. The new deck shall meet the finish and smoothness requirements of Standard Specifications Sections 400-15.2.5.3 and 400-15.2.5.5. Deck grooving shall be provided per Standard Specifications Sections 400-15.2.5.6.
- l. I-75 NB (Bridge No. 860352) and I-75 SB (Bridge No. 860351) mainline bridges over the C-4 Canal widenings shall match the existing superstructure type and material. The bridge widenings shall match the existing substructure foundations in-kind.

- m. I-75 Express Lanes Bridge over the C-4 Canal shall match the structural type and material of the existing I-75 mainline bridges over the C-4 Canal.
- n. The proposed interior bents for the I-75 Express Lanes Bridge over the C-4 Canal shall be aligned with the existing bents to provide horizontal channel clearances that match the existing conditions and prevent any adverse scour conditions.
- o. For the Miramar Parkway Overpass (Bridge No. 860316), the Pembroke Road Overpass Bridge, and the Ramp H-11 Bridge, intermediate pile bents or intermediate drilled shaft bents are not permitted. Bridge piers are required for intermediate supports.
- p. The outside shoulder width for the Ramp H-11 Bridge shall be 10 feet.
- q. The I-75 Express Lanes Bridge over the C-4 Canal shall have rubble riprap slope protection, as shown in the SFWMD Right of Way Occupancy Permit Package, that satisfies the requirements of the Permitting Agency.
- r. Structural steel for bridges shall meet the requirements of the 2013 FDOT Structures Design Manual, Volume 1 (SDG) and Volume 2 (SDM).
- s. All bridges shall be of a single superstructure type and material from begin bridge to end bridge limits. Exterior beams or girders on all spans of multi-span bridges shall be the same type and height.
- t. Steel superstructures that are non-redundant and largely fracture critical are undesirable and shall be avoided.
- u. For steel superstructures, the fascia girders shall have no stiffeners on the fascia side of the girder. Outside stiffeners for integral piers shall be minimized.
- v. Visibility of all bridge drainage conveyance systems shall be minimized as much as possible. The conveyance systems (piping) shall not be embedded in the piers, but run on the exterior and aesthetically integrated with the pier. The conveyance systems must be painted in accordance with Section 22.3.1.E of the FDOT SDM.
- w. For all bridges, scuppers will not be allowed.
- x. All permanent retaining walls shall have a concrete facing. The concrete finish shall be a raised panel finish without a Class 5 Applied Finish Coating.
- y. The permanent retaining walls for the Pembroke Road Overpass Bridge shall be square panels with a raised finish, meeting the requirements of Department wall type 2B.

- z. All exterior concrete surfaces (end bent wing walls, barrier walls, piers, caps, MSE wall barriers and coping) shall receive a Class 5 Applied Finish Coating.
- aa. Two (2) – 2” diameter conduits with expansion fittings and pull boxes Type “B” in accordance with Design Standard Index 21210 shall be installed in all new traffic railings mounted on bridges and retaining walls.
- bb. The I-75 Express Lanes bridge median traffic railing shall include an Opaque Visual Barrier.

### 3. Sound Barrier Walls

Sound barrier walls shall be designed and constructed at the following I-75 baseline construction locations and as indicated in Reference Document 1:

Location Number	From Station	To Station	Approx. Length	Side	Adjacent Community	Type of Sound Barrier Wall
1	367+00	380+00	1,440'	Left	Villas at Nautica and Country Lakes West	22' Tall Ground Mounted
2	460+00	498+00	3,760'	Left	Cobblestone Townhomes	22' Tall Ground Mounted
3	520+00	555+00	3,500'	Left	Parkview	22' Tall Ground Mounted

The horizontal limits and heights of these sound barrier walls shall not be changed except as approved by the Department.

The Design-Build Firm shall be responsible for the preparation of Sound Barrier Wall Plans. An engineering review will be performed prior to initiating the design of the sound barrier wall to identify engineering conflicts or constraints affecting the sound barrier design. The engineering review will require coordination with the Department. The Design-Build Firm will be responsible for documenting any resolutions to engineering issues/conflicts that preclude the construction of or that require modification to the recommended sound barriers. Resolution of any engineering issues will be subject to approval by the Department prior to construction. Any modifications stipulated by the Department must be incorporated into the design plans and any additional costs incurred to meet the Department's requirements will be the sole responsibility of the Design-Build Firm. At a minimum, the engineering review will consider the following:

- Project Right of Way needs including access rights (air, light, view, ingress/egress, outdoor advertising conflicts)
- Access issues
- Adequate easement/Right of Way for all maintenance activities
- Structural and vegetative restrictions within easement/Right of Way
- Utility conflicts
- Drainage issues
- Other criteria as applicable (such as safety, etc.)



The design of the sound barrier wall shall not impact offsite or onsite drainage. The sound barrier wall shall be designed to prevent ponding of water on either side of the barrier and must provide for the flow of water through the barriers when required. Drainage openings shall not degrade the acoustical efficiency of the barrier by more than 0.5 dBA at any location as determined by the Department. Openings and details for openings shall be shown in the plans.

The number and locations of fire access holes (fire access panels) for the sound barrier wall shall be coordinated with the appropriate Fire Department having jurisdiction of the area and the locations shall be indicated in the final design plans. Fire access panels shall not be coincident with drainage panels or graphic panels. Signs shall be mounted above all fire access holes. Access holes and details for access holes shall be shown in the plans.

The offset of the proposed ground mounted walls shall be no less than 4 feet and no more than 12 feet from the right of way line without obtaining written approval from the Department. As defined in the Conceptual Permit Plans, the Design-Build Firm shall locate the walls within the proposed stormwater management berm(s) and provide a 1:2 harmonization slope from the top of berm elevation down to the existing ground elevation within the existing right of way. The area behind the walls shall be regraded and sodded for harmonization entirely within the existing right of way without encroaching onto private property.

The Design-Build Firm shall maintain all existing fences at all times during construction. The fences shall not be removed until the sound barrier wall is in place. Temporary fencing shall be constructed when existing fences cannot be maintained during wall construction. Temporary fencing shall conform to Standard Index No. 802, Fence Type 'B'. Sod shall be placed on the property owner's side of the wall in all areas disturbed by construction. Sod type shall match existing sod type of each property. The Design-Build Firm shall coordinate with property owners as necessary.

The sound barrier wall design shall incorporate the following:

- Construction of ground mounted precast sound barrier wall shall be in accordance with the FDOT Design Standards and approved FDOT systems.
- Finish on the highway side of the ground mounted sound barrier wall shall be Recessed Panel with Type-H finish.
- Finishes on the property side of the ground mounted sound barrier wall shall be Smooth Surface with Type-A Finish.
- The Design-Build Firm shall coordinate the use of graphics on the sound barrier wall prior to the submission of Sound Barrier Plans for review. A grouping of four (4) panels shall contain graphics every 200 feet.
- A Class 5 Applied Finish Coating shall be applied to all posts and wall panel surfaces in accordance with Section 400 of the FDOT Standard Specifications.
- The wall color shall be per Texcote T-114 Color: Sandalwood. A sample color is to be provided and shall be field verified for a match prior to paint finish installation.
- Ground mounted sound barrier wall shall use the recessed panel option.
- The proposed sound barrier wall shall match the appearance (color, texture, graphics) of the sound barrier walls as specified and constructed under the Miramar Parkway and I-75 Project (FPID No. 414561-1-52-01).
- Consideration should be given to aesthetically pleasing sound barrier wall profiles. Excessive undulation of the wall's top edge should be avoided when possible. The elevation changes in the top edge of the sound barrier wall shall be limited to changes of approximate 2-foot steps

per 500 feet of length unless otherwise approved by the Department. Minor changes in the ground elevation should not be reflected in the top of wall profile.

The Design-Build Firm shall coordinate the sound barrier wall design and installation with the Segment B and D Design-Build Firms to ensure project interface compatibility for wall continuity and uniformity. This includes horizontal and vertical geometrics, vertical steps, post spacing, panel lengths, and panel graphics spacing. To effectively integrate the proposed wall systems between Segments B, C, and D, the Design-Build Firm shall install a wall post at the southern project limit (Sta. 367+00) and northern project limit (Sta. 555+00) and install full length panels adjacent to the posts within the Segment C project limits. The Segment B and Segment D Design-Build Firms will be required to match these posts and install full length panels at the respective project interface points. The Design-Build Firm will be responsible for coordinating the logistics of the wall interface between Segment C and Segments B and D.

The Design-Build Firm shall submit to the Department final signed and sealed design documentation prepared during the development of the Sound Barrier Wall Plans. The Design-Build Firm shall ensure that the final geotechnical and hydraulic recommendations and reports required for design are submitted concurrently with the plans.

The Design-Build Firm shall establish the current status of the outdoor advertising signage along the corridor within the vicinity of the sound barrier wall and, if needed, perform the necessary steps to address Section 479.25 of the Florida Statutes.

#### **H. Specifications:**

Department Specifications may not be modified or revised. The Design-Build Firm shall also include all Technical Special Provisions, which will apply to the work in the proposal. Technical Special Provisions shall be written only for items not addressed by Department Specifications, and shall not be used as a means of changing Department Specifications.

Before construction activities can begin, the Design-Build Firm shall prepare and submit a signed and sealed Construction Specifications Package for the Project, containing all applicable Division II and III Special Provisions and Supplemental Specifications from the Specifications Workbook in effect at the time the Bid Price Proposals were due in the District Office. The Specifications Package shall be prepared, signed and sealed by the Design-Build Firms Engineer of Record who has successfully completed the mandatory Specifications Package Preparations Training.

The website for completing the training is at the following URL address:

<http://www2.dot.state.fl.us/SpecificationsEstimates/PackagePreparation/TrainingConsultants.aspx>

Specification Workbooks are posted on the Department's website at the following URL address:

<https://www2.dot.state.fl.us/SpecificationsPackage/Utilities/Membership/login.aspx?ReturnUrl=%2fspecificationspackage%2fDefault.aspx>.

The signed and sealed Specifications Package shall also include individually signed and sealed Technical Special Provisions for any and all work not addressed by Department Specifications. Any Technical Special Provisions included in the signed and sealed Construction Specifications Package which had not been included in the proposal phase, may require a contract cost modification as a condition of approval.

Upon review by the Department, the Construction Specifications Package will be stamped “Released for Construction” and initialed and dated by the reviewer.

Any subsequent modifications to the Construction Specifications Package shall be prepared, signed and sealed as a Supplemental Specifications Package, subject to the same process for submittal, review, and, release for construction, as described above, for the original Construction Specifications Package. Construction work affected by Supplemental Specifications Packages shall not begin until stamped “Released for Construction” Supplemental Specification Package is obtained.

To work at risk, the Design-Build Firm must submit signed and sealed specifications and can begin working prior to the Department’s Project Manager providing stamped “Release for Construction” specifications. The Design-Build Firm shall notify the Department five (5) weeks prior to starting work at risk. All work that the Design-Build Firm performs in advance of the Department’s release of Specifications will be at the Design-Build Firm’s risk.

**I. Shop Drawings:**

The Design-Build Firm shall be responsible for the preparation and approval of all Shop Drawings. Shop Drawings shall be in conformance with the Departments Plans Preparation Manual when submitted to the Department and shall bear the stamp and signature of the Design-Build Firm’s Engineer of Record (EOR), and Specialty Engineer, as appropriate. The Department shall review the Shop Drawing(s) to evaluate compliance with Project requirements and provide any findings to the Design-Build Firm. The Departments procedural review of shop drawings is to assure that the Design-Build Firm’s EOR has approved and signed the drawing, the drawing has been independently reviewed and is in general conformance with the plans. The Departments review is not meant to be a complete and detailed review. Upon review of the shop drawing, the Department will stamp “Released for Construction” or “Released for Construction as noted” and initialed and dated by the reviewer.

Shop Drawing submittals must be accompanied by sufficient information for adjoining components or areas of work to allow for proper evaluation of the Shop Drawing(s) submitted for review.

**J. Sequence of Construction:**

The Design-Build Firm shall construct the work in a logical manner and with the following objectives as guides:

1. Maintain or improve, to the maximum extent possible, the quality of existing traffic operations, both in terms of flow rate and safety, throughout the duration of the Project.
2. Minimize the number of different Traffic Control Plan (TCP) phases, i.e., number of different diversions and detours for a given traffic movement.
3. Maintain reasonable direct access to adjacent properties at all times, with the exception in areas of limited access Right of Way where direct access is not permitted.
4. Provide proper coordination with adjacent construction Projects and maintaining agencies. Adjacent construction Projects include:
  - I-75 Express Lanes Project - Segment B (FPID Nos. 412707-3-52-01 and 421707-8-52-01) as noted in Section V.X of the RFP.
  - I-75 Express Lanes Project - Segment D (FPID No. 421707-5-52-01) as noted in Section V.X of the RFP.

- Pembroke Road Project – Broward County Project No. 5255 as noted in Section V.X of the RFP.
5. Expedite the construction of ground mounted sound barrier wall as detailed below.
  6. Early completion of the southern and northern +/- 1,000' of the roadway template to facilitate adjacent project construction and avoid conflicts with adjacent construction activities.

The Design-Build Firm shall provide a sequence of construction plans for the entire design and construction effort that is logical and continuous.

The Design-Build Firm shall prepare a plan outlining their approach comply with environmental permits and addressing potential environmental issues during construction. The plan should also include methods for identifying exclusion zones and measures for avoidance and minimization of impacts to listed species and wetlands noted in Section VI.M.4.

When proposed sign panels are not in use, the Design-Build Firm shall cover the sign panels in accordance with the FDOT Standard Specifications.

#### **Southern and Northern Project Limits Interface**

All work excluding the placement of friction course and final pavement markings shall be completed no later than 500 calendar days from the NTP for the following limits:

- Southern 1,000 feet of the Project
- Ramp H-11 and Ramp H-14 from I-75 Sta. 356+00 to the Segment C southern project limit (Sta. 367+00)
- Northern 1,000 feet of the Project

#### **Pembroke Road Overpass Bridge**

The Design-Build Firm shall complete the construction of the Pembroke Road Overpass Bridge as described in Section V.X and Section VI.G of this RFP. The construction of the retaining walls and slips joints shall not commence until after June 1, 2015, unless otherwise approved by the Department. This restriction is intended for Broward County to complete the construction of the Pembroke Road roadway approaches and permanent retaining walls proximate to the bridge termini.

#### **Ground Mounted Sound Barrier Walls**

The Design-Build Firm shall complete the construction of the ground mounted sound barrier wall as described in Section VI.G.3 of this RFP as an early completion activity.

The ground mounted sound barrier wall along I-75 shall be completed no later than 540 calendar days from the NTP. If the I-75 ground mounted sound barrier wall is not complete within 540 calendar days after the NTP, the Design-Build Firm shall cease all construction activities except for the sound wall construction.

No other construction activities shall occur until the aforementioned ground mounted sound barrier wall and associated final wall coating and fence connections are complete as determined by the Department. The Design-Build Firm is solely responsible for all time delays and costs associated with any work stoppage relating to the completion of ground mounted sound barrier wall, and will not be entitled to any compensation from the Department.

Where proposed sound barrier wall is located adjacent to existing vegetation that serves as a visual and noise barrier for the adjacent properties, the Design-Build Firm shall initiate construction of the sound

barrier wall at these locations no later than 30 calendar days following the start of vegetation removal activities. The Design-Build Firm should expedite the sound barrier wall construction at these proposed locations to the maximum extent possible to minimize the duration that the adjacent properties are not screened from I-75.

The Design-Build Firm can submit a formal written time extension request to the Department for instances where the wall construction is delayed due to circumstances considered beyond the control of the Design-Build Firm, which may be granted at the Department's sole discretion.

### **Friction Course Restrictions**

The Department will add a total of 455 calendar days to the Proposed Contract Time bid by the Design-Build Firm, which includes a maximum of 365 calendar days as a period of no construction prior to the placement of friction course and final pavement markings for the Express Lanes, and a maximum of 90 calendar days for the placement of friction course and final pavement markings for the Express Lanes. This additional time is included to enable all project segments of the I-75 Express Lanes to be completed and opened to traffic at the same time and eliminate extended time periods where friction course is in place without being open to traffic.

The Department will allow a partial acceptance after all contract work is complete, as determined by the Department, with the exception of the friction course and final pavement markings for the Express Lanes. The Department will assume all maintenance responsibilities within the Project limits once partial acceptance is achieved.

The 365 calendar day period of no construction may be reduced at the Department's discretion and if so, the Total Contract Duration will be reduced accordingly. The Department may issue written notice to the Design-Build Firm, at any time during the 365 calendar day period of no construction, to commence with the placement of friction course and final pavement markings for the Express Lanes. The Design-Build Firm shall begin with the placement of the friction course within 30 calendar days following written notice from the Department, and shall complete the friction course and final pavement markings work within 90 days of the written notice. Once the Design-Build Firm begins construction activities for the placement of the friction course or 30 days after written notice, whichever occurs first, the Design-Build Firm shall be responsible for routine maintenance, as defined under Section V.CC of this RFP, of the I-75 median and corresponding ramp connections within the Project limits until all work is complete and final acceptance is issued by the Department. The maintenance areas are defined in the Maintenance Maps included in Appendix Q.

### **Construction Time Restrictions**

In general accordance with local noise ordinances, construction activities including demolition, pile driving, and sheet pile driving shall not occur during the following time periods:

- 7:00 PM to 7:00 AM weekdays
- 7:00 PM to 9:00 AM weekends

Additionally, ground mounted sound barrier wall installation shall not occur during the following time periods:

- 7:00 PM to 7:00 AM weekdays
- 7:00 PM Friday to 7:00 AM Monday

These construction time restrictions shall be strictly adhered to unless otherwise approved by the Department.

**K. Stormwater Pollution Prevention Plans (SWPPP)**

The Design-Build Firm shall prepare a Storm Water Pollution Prevention Plan (SWPPP) as required by the National Pollution Discharge Elimination System (NPDES). The Design-Build Firm shall refer to the Department's Project Development and Environment Manual and Florida Department of Environmental Protection (FDEP) Rule 62-621.300(4)(a) for information in regard to the SWPPP. The SWPPP and the Design-Build Firm's Certification (FDEP Form 62-621.300(4)(b) **NOTICE OF INTENT (NOI) TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES**) shall be submitted for Department review and approval. Department approval must be obtained prior to beginning construction activities.

**L. Temporary Traffic Control Plan:**

**1. Traffic Control Analysis:**

The Design-Build Firm shall design a safe and effective Temporary Traffic Control Plan to move vehicular traffic during all phases of construction. Topics to be addressed shall include, but are not limited to, construction phasing, utility relocation, drainage structures, signalization, ditches, front slopes, back slopes, drop offs within clear zone, lighting, ITS, signing and marking, and traffic monitoring sites. Special consideration shall be given to the drainage system when developing the construction phases. Positive drainage must be maintained at all times utilizing existing, temporary and/or permanent drainage systems. Documentation of temporary drainage analysis, including necessary calculations, shall be submitted as part of the Drainage Design Documentation. The Design-Build Firm shall make use of the criteria contained in the latest FDOT Drainage Handbook – Temporary Drainage Design for selection of temporary barrier wall to satisfy spread requirements during construction as well as address other temporary drainage issues associated with maintenance of traffic and during construction operations.

The Temporary Traffic Control Plan shall address how to assist with maintenance of traffic throughout the duration of the contract, including coordination and interface with adjacent construction projects.

For I-75 Maintenance of Traffic (MOT), the minimum lane width shall be 12 feet. A continuous paved shoulder of 10 feet must be provided with the opposite paved shoulder being at least 4 feet wide. The continuous 10 feet width paved shoulder shall not shift from side to side.

The existing regulatory speed limits shall be maintained during construction.

The Temporary Traffic Control Plan shall be prepared by a certified designer who has completed the Department's training course, and in accordance with the Department's Design Standards and the Roadway Plans Preparation Manual.

Transportation Management Plans (TMPs) are required for significant Projects which are defined as:

1. A Project that, alone or in combination with other concurrent Projects nearby, is anticipated to cause sustained work zone impacts.
2. All Interstate system Projects within the boundaries of a designated Transportation Management Area (TMA) that occupy a location for more than three days with either intermittent or continuous lane closures shall be considered as significant Projects.

The TMP shall consist of three components:

- (1) Temporary Traffic Control (TTC) plan component;
- (2) Transportation Operations (TO) component; and
- (3) Public Information (PI) component

Additional information can be found in Volume 1, Chapter 10 of the PPM.

## **2. Temporary Traffic Control Plans:**

The Design-Build Firm shall utilize Index Series 600 of the Department's Design Standards where applicable. Should these standards be inadequate, a detailed Temporary Traffic Control Plan shall be developed. The Design-Build Firm shall prepare plan sheets, notes, and details to include the following: typical section sheet(s), general notes and construction sequence sheet(s), typical detail sheet(s), traffic control plan sheet(s).

The Design-Build Firm shall prepare additional plan sheets such as cross sections, profiles, drainage structures, retaining wall details, and sheet piling as necessary for proper construction and implementation of the Temporary Traffic Control Plan.

If temporary guardrail, concrete barrier walls, travel lanes, ramps, embankment, shoulder gutter, shoulders, drainage, etc. is required, the temporary traffic control plans shall include these as well.

Temporary signalization for existing signals is to be included in the Traffic Control Plans.

Any impacts to guardrail, concrete barrier walls, travel lanes, ramps, embankment, shoulder gutter, shoulders, drainage, concrete barrier wall or any other existing feature, shall be relocated or replaced as required to restore the roadway to its existing conditions.

The Design-Build Firm shall provide the necessary traffic control devices that prohibit entrance into the newly constructed ingress ramps and shall maintain the traffic control devices until partial acceptance. The Department will then maintain the traffic control devices until the Design-Build Firm begins friction course construction or 30 days after the NTP for friction course, whichever occurs first. The Design-Build Firm shall then maintain the traffic control devices until all work is complete and final acceptance is issued by the Department. The Design-Build Firm shall be responsible for the removal of all traffic control devices.

Acceleration and deceleration of all construction vehicles within a travel lane is prohibited. The Design-Build Firm shall make provisions for construction vehicle access to the work areas including material delivery. Lane closures may be warranted for certain construction vehicles to access the work areas.

If detour routes are proposed by the Design-Build Firm for days during the Broward County public school year calendar, the Design-Build Firm shall contact the Broward County School Board Pupil Transportation Department at 754-321-4400 to arrange a school bus route meeting. This meeting is to determine impacted bus routes and to make any necessary arrangements or rerouting. This meeting shall include the Special Projects Coordinator from Broward County Traffic Engineering Division at 954-847-2671.

**3. Traffic Control Restrictions:**

LANE CLOSURES ARE ONLY ALLOWED during the following time periods while work is being performed:

1. I-75 SB (south of Miramar Parkway)
  - a. One lane closure – Midnight to 6:00 AM; 11:00 AM to 3:00 PM; 7:00 PM to Midnight
  - b. Two lane closure – Midnight to 6:00 AM and 9:00 PM to Midnight
2. I-75 SB (north of Miramar Parkway)
  - a. One lane closure – Midnight to 7:00 AM and 10:00 AM to Midnight
  - b. Two lane closure – Midnight to 6:00 AM; 12:00 PM to 3:00 PM; 8:00 PM to Midnight
3. I-75 SB (north of Pines Boulevard)
  - a. One lane closure – Midnight to 7:00 AM; 10:00 AM to 5:00 PM; 7:00 PM to Midnight
4. I-75 NB (south of Miramar Parkway)
  - a. One lane closure – Midnight to 7:00 AM; 10:00 AM to 2:00 PM; 9:00 PM to Midnight
  - b. Two lane closure – Midnight to 7:00 AM and 10:00 PM to Midnight
5. I-75 NB (north of Miramar Parkway)
  - a. One lane closure – Midnight to 3:00 PM; 8:00 PM to Midnight
  - b. Two lane closure – Midnight to 7:00 AM; 11:00 AM to 1:00 PM; 9:00 PM to Midnight
6. I-75 NB (north of Pines Boulevard)
  - a. One lane closure – Midnight to 7:00 AM; 10:00 AM to 3:00 PM; 8:00 PM to Midnight
7. Miramar Parkway EB (west of I-75)
  - a. Signalized one lane closure – Midnight to 6:00 AM and 10:00 PM to Midnight
8. Miramar Parkway WB (west of I-75)
  - a. Signalized one lane closure – Midnight to 6:00 AM
9. Miramar Parkway EB (east of I-75)
  - a. Signalized one lane closure – Midnight to 7:00 AM and 10:00 PM to Midnight
10. Miramar Parkway WB (east of I-75)
  - a. Signalized one lane closure – Midnight to 7:00 AM and 9:00 PM to Midnight

Within the influence of the Miramar Parkway Interchange, three (3) exclusive through travel lanes along Miramar Parkway shall be maintained in both directions for all phases of construction.

All lanes of traffic shall be open in the event of an emergency evacuation or if the lane closure(s) causes a driver delay greater than 20 minutes.

A lane may only be closed while work is being performed. All lane closures, including ramp closures, must be reported to the local emergency agencies, the media, and the District Four Public Information Officer. Also, the Design-Build Firm shall develop the Project to be able to provide for all lanes of traffic



to be open in the event of an emergency evacuation or if the lane closure(s) causes a driver delay greater than 20 minutes, as determined by the Department and/or the Engineer (CEI).

All existing lanes of traffic shall be open during inactive work periods. All requests for lane closures (except in the event of emergencies) shall be submitted in writing a minimum of fourteen (14) days in advance. All lanes of traffic shall be open in each direction unless approved by the Engineer in advance.

**M. Environmental Services/Permits/Mitigation:**

The Design-Build Firm will be responsible for preparing designs and proposing construction methods that are permissible. The Design-Build Firm will be responsible for any required permit fees. All permits required for a particular construction activity will be acquired prior to commencing the particular construction activity. Delays due to incomplete or erroneous permit application packages, agency rejection, agency denials, agency processing time, or any permit violations, except as provided herein, will be the responsibility of the Design-Build Firm, and will not be considered sufficient reason for time extension or additional compensation. As the permittee, the Department is responsible for reviewing, approving, signing, and submitting the permit application package including all permit modifications, or subsequent permit applications.

If, as a result of design changes proposed by the Design-Build Firm, additional environmental mitigation is required, it shall be the responsibility of the Design-Build Firm to pay for the mitigation.

The following Project specific Environmental Services/Permits have been identified as specific requirements for this project:

1. SBDD Paving & Drainage Permit
2. SFWMD-USACE Joint Environmental Resource Permit (ERP)
3. SFWMD Master Dewatering Permit No. for Broward County (Permit #06-06340-W)
4. USACE Section 404 Dredge-Fill Permit

**1. NEPA Requirements:**

In accordance with NEPA, several environmental agency coordination meetings and concurrence reviews have been ongoing for the Project. The District Four PL&EM Office will continue to coordinate with these agencies and provide additional information or surveys as requested throughout the design and construction phases.

**2. Cultural Resources:**

Historic sites and archaeological sites occur in the vicinity of the Project. The locations of these sites are provided in the Cultural Resource Assessment Survey (CRAS) provided in Reference Document 2. Historic sites and archaeological sites will not be available to the Design-Build Firm for staging or stockpiling activities.

The Design-Build Firm shall comply with the requirements with respect to the discovery of human remains during construction. In the event that human remains are found during construction activities, the provisions of Chapter 872.05, Florida Statutes will apply. Chapter 872.05 states that, when human remains are encountered, all activity that might disturb the remains shall cease and may not resume until authorized by the State Medical Examiner or the State Archaeologist.

3. **Section 4(f):**

Section 4(f) of the Department of Transportation Act of 1966 provides protection for publicly owned parks, recreation areas, historic sites, wildlife and waterfowl refuges from conversion to a transportation use. FHWA guidance requires that any impacts from the use of a Section 4(f) property for highway purposes be evaluated. The Department completed an assessment of the Project's potential impacts on the identified resources and it was determined that no direct impacts to Section 4(f) properties are anticipated. In addition, it was determined that proximity impacts will not impair the activities, features or attributes of these properties since I-75 is an existing highway.

The Design-Build Firm shall not enter upon the following areas without prior consent of the Department; any public park, archaeological sites identified in the CRAS documents prepared for the Project, or any other Section 4(f) Resource.

4. **Wetlands, Wildlife and Habitat, and Mitigation:**

The Project will have impacts to existing wetlands. The wetlands have been delineated with the USACE, SFWMD and United States Fish and Wildlife Service (USFWS), addressed in the ERP application submitted by the Department based on the ultimate design of the preferred alternative of the PD&E Study. These impacts are being mitigated through the purchase of credits by the Department from a mitigation bank approved by the regulatory agencies. The Design-Build Firm shall consider the ramifications to USACE wetland impacts and the mitigation requirements associated with changing proposed dry detention ponds identified in the Permit Plans and Conceptual Drainage Report to wet detention ponds. Any additional mitigation required shall be the responsibility of the Design-Build Firm. The Design-Build Firm is directed to review the Wetland Evaluation Report (WER), Endangered Species Biological Assessment (ESBA), ERP application, and Conceptual SFWMD ERP prepared for the limits defined by the I-75 PD&E Preferred Alternative.

Existing Wetland Area (acres)	Temporary Impacts (acres)	Permanent Impacts (acres)	Offset / Creation (acres)	Net Permanent Impacts (acres)
160.04	43.54	108.16	9.52	98.63

The ESBA determined that the American alligator, Eastern indigo snake, wood stork, and Florida manatee have potential to occur in the Project corridor. The ESBA was submitted to the USFWS and the Department made the following commitments that the Design-Build Firm must comply with regarding the Federally-listed species with potential to occur in the corridor:

- Wood storks are observed along the Project corridor. Any Design-Build Firm proposed design change that requires permit modifications or is located outside the Project limits, coordination with USFWS will be required to determine if proposed changes are impacting the Core Foraging Area of wood stork. If the proposed improvements are determined to be within the Core Foraging Area (18.6 miles) of any active wood stork breeding colony, any wetlands impacted will be replaced within the Core Foraging Area of the active wood stork breeding colony. The compensation plan will include a temporal lag factor, if necessary, to ensure wetlands provided as compensation adequately replace the wetland functions lost due to the Project, and the wetlands offered as compensation will be of the same hydroperiod as the wetlands impacted. If the replacement of wetlands within the Core Foraging Area is not practicable, the Department will coordinate with the USFWS to identify acceptable wetland compensation outside the Core Foraging Area, such as purchasing wetland credits from an "USFWS Approved" mitigation bank.

- The Design-Build Firm shall follow the USFWS Standard Protection Measures for the American alligator during implementation of the Project.
- The Design-Build Firm shall follow the USFWS Standard Protection Measures for the Eastern indigo snake during implementation of the Project.
- The Design-Build Firm shall follow the USFWS Standard Protection Measures for the Florida manatee during implementation of the Project.

The Design-Build Firm must comply with conditions specified in the permits regarding the protection and precautionary guidelines for any endangered species.

#### 5. **Contaminated Materials:**

In accordance with FDOT policy and FHWA requirements, a contamination screening evaluation was performed to evaluate potential impacts from contaminated sites to the Project. A Contamination Screening Evaluation Report (CSER) and Impact to Construction Report and Soil/Groundwater Management Plan (ICR&SGMP) were prepared pursuant to FHWA's Technical Advisory T 6640.8A. The Design-Build Firm should reference the CSER and ICR&SGMP included in Reference Document 2.

Six (6) areas within Segment C that were found to have soil arsenic concentrations above state residential standards. These areas are identified and recommendations for addressing this contamination are provided in the ICR&SGMP in Reference Document 2.

Five (5) areas within Segment C were found to have groundwater concentrations of arsenic and/or polynuclear aromatic hydrocarbons (PAHs) above state groundwater standards. These areas are identified and recommendations for addressing this contamination are provided in the ICR&SGMP in Reference Document 2.

The Design-Build Firm will be responsible for preparing designs and proposing construction methods that avoid potential contamination impacts and that are permissible. In the event that previously unknown contaminated areas are identified that could potentially impact the project, the District Contamination Impact Coordinator (DCIC) is available for consultation and can advise/recommend a course of action if/when contamination issues are unavoidable.

For areas of unavoidable contamination removal/remediation, the Department's Contamination Assessment/Remediation (CAR) Contractor will be responsible for the handling, removal, and remediation of contaminated soil, contaminated surface water, and contaminated groundwater in accordance with Section 120-1.2 (Unidentified Areas of Contamination) of the FDOT Standard Specifications for Road and Bridge Construction.

The Design-Build Firm will be responsible for any required permit fees.

The Design-Build Firm will be required to meet any additional general or specific requirements included in the SFWMD Dewatering Permits issued for this Project. The Design-Build Firm is advised that the No-Notice General Dewatering Permit may not be issued in locations of the Project that are in close proximity to contamination, landfills, or wetlands.

The Department will require the Design-Build Firm to dispose of all oil, chemicals, fuel, etc. utilized to construct the Project and/or execute Project work in an acceptable manner according to local, state, and

federal regulation and forbid dumping of contaminants on the ground, canals, or other water bodies. The Design-Build Firm shall indemnify the Department against any and all claims arising from improper handling of contaminated materials. The Design-Build Firm shall also be solely and totally responsible at its own cost for completely cleaning up any contamination caused by its own activities. This includes, but is not limited to, spillage/leakage of contaminants from equipment and/or portable tanks used in constructing the Project.

#### 6. Asbestos Containing Materials

Asbestos inspections and surveys were completed to determine the location of asbestos containing materials (ACM) on four (4) Segment C bridges as defined in FDOT Procedure No. 625-020-020. The location of the identified ACM, as well as other pertinent information, is found in the Asbestos Survey Reports for the Project included in Reference Document 2. As listed in the following table, ACM was found on one of the Segment C bridges:

#### Summary of Asbestos Testing and Asbestos Impacts

Bridge No.	Facility Carried	Facility Intersected	ACM
*860351	I-75 Southbound	C-4 Canal	No
*860352	I-75 Northbound	C-4 Canal	No
*860316	Miramar Parkway	I-75	Yes
860350	Pines Boulevard	I-75	No

\*Impacted by construction

- a. The Design-Build Firm's attention is directed to the fact that additional suspect ACM could be present in one or more of the structural elements of the bridge that were inaccessible during the original bridge inspection and survey. Prior to initiating any bridge modification, rehabilitation, renovation or demolition activity, any additional suspect ACM not covered in the provided report shall be identified, sampled and analyzed by the Design-Build Firm's Asbestos Consultant as needed.
- b. The existing Asbestos Survey Reports for the Project shall be inspected prior to initiating any bridge modification, rehabilitation, renovation or demolition activity.

Prior to initiating any bridge modification, rehabilitation or demolition activity, any additional suspect ACM not covered in the Pre-Demolition Survey report shall be identified, sampled and analyzed by the Asbestos Consultant. The Asbestos Consultant will be responsible for:

- i. Making all required agency notifications, securing permits, preparation of plans and specifications for asbestos removal and/or wet demolition, monitoring the abatement (including clearance sampling when determined to be necessary by the Asbestos Consultant and/or as required by regulation) and/or wet demolition work, rehabilitation or demolition, approval of pre-job and post-job submittals, keeping daily logs, air monitoring and final clearance samples, preparation of the final report, etc.

- ii. The Asbestos Consultant will be responsible for all coordination, notifications, and document submittals.
- iii. The Asbestos Consultant will submit a Notice of Asbestos Renovation or Demolition [DEP Form 62-257.900(1)] to the Florida Department of Environmental Protection (FDEP) Broward County designee, a minimum of ten (10) working days prior to initiating any renovation or demolition activity.

The Asbestos Consultant will need to contact Broward County to determine the appropriate notification for the Project.

Broward County Planning and Environmental Regulation Division  
Air Quality Division  
Pollution Prevention, Licensing & Compliance  
(954) 519-1420

- c. The Design/Build Firm shall secure the services of both a Florida Licensed Asbestos Consultant (Asbestos Consultant) and a Florida Licensed Asbestos Abatement Contractor (Asbestos Contractor).

The Asbestos Contractor shall remove all ACM from the modification, rehabilitation or demolition area(s), using approved methods in accordance with FDOT Procedure Nos. 425-000-05 and 625-020-020, Florida Statutes, Florida Administrative Code (FAC), Code of Federal Regulations and all rules, regulations, policies, and guidelines of the FDOT, the United States Environmental Protection Agency (USEPA), the Florida Department of Environmental Protection (FDEP), the Occupation Safety and Health Administration (OSHA), the Florida Department of Business and Professional Regulation (FDPR), and any other applicable Federal, State, and Local government agency.

**N. Signing and Pavement Marking Plans:**

The Design-Build Firm shall prepare signing and pavement marking plans in accordance with Department criteria. The Design-Build Firm shall make use of the Signing Master Plan included in Reference Document 1 as a starting point for the design. Only minor changes to sign locations shown in the Master Plan shall be allowed. Sign content and number of signs shall not be reduced from those shown in the Master Plan. All overhead sign structures shall be designed and constructed to accommodate an additional 25% increase in the final sign panel area (static signs only) from what is shown in the Signing Master Plan. Not all of the required sign (e.g., regulatory, warning, informational, recreational, post interchange sequence, etc.) assemblies, pavement messages, and delineators that the Design-Build Firm shall provide are shown in the Signing Master Plan. The Design-Build Firm shall use Reference Document 1 to provide pavement markings depicted in the Signing Master Plan. The Design-Build Firm will use traffic paint pavement markings on asphalt surfaces and high performance contrast tape on concrete surfaces (including bridge decks) for both solid and skip lines. The Design-Build Firm shall coordinate with District Four Traffic Operations Office and incorporate any specific notes and requirements as applicable to the Project.

The completion of final pavement markings (double application of paint) shall be required prior to final acceptance.

The Design-Build Firm shall submit a Signing Master Plan for review and concurrence in writing from

the Department prior to any 90% design submittal for review. The Signing Master Plan shall include details that will differentiate signing for the I-75 Express Lanes from the signing for the General Purpose Lanes. The construction limits for the guide signs may extend beyond the roadway Project limit as shown in the Signing Master Plan.

All signing and pavement marking designs along I-75 and ramps shall meet FDOT Design Standards and the PPM.

All proposed overhead sign panels shall be fabricated using Type XI high intensity reflective sheeting material. Overhead sign lighting is required only for sign panels on curves with radii of 880 feet or less in rural areas and 2,500 feet or less in urban areas. Refer to the Signing Master Plan contained in Reference Document 1 for additional information. All proposed sign panels shall comply with the requirements of the current MUTCD. A minimum vertical clearance of 18.5 feet shall be provided for all overhead sign structures measured from the highest elevation over the entire roadway width of the pavement and shoulder to the lowest point of a static sign panel.

The Design-Build Firm shall maintain the existing sign lighting during construction (or shall provide temporary lighting where existing lighting cannot be maintained). Reuse of existing sign structures for new sign panels is not allowed unless the Design-Build Firm provides signed and sealed documentation demonstrating that the existing structures satisfy the governing standards per the RFP. Existing sign panels proposed to be replaced by the Design-Build Firm shall meet the current MUTCD requirements and be fabricated with Type XI high intensity sheeting material. If an existing sign structure and respective sign panels are not impacted by construction, it is not necessary for them to be evaluated by the Design-Build Firm or for the sign panels to be upgraded to the Type XI high intensity reflective sheeting. Existing sign lighting shall remain and be fully functional at these locations.

Existing single post and multi-post sign assemblies impacted by construction shall be entirely replaced and upgraded if necessary. Existing sign assemblies not impacted by construction can remain.

#### **O. Lighting Plans:**

The Design-Build Firm shall prepare lighting plans in accordance with Department criteria. All lighting designs along I-75 and ramps shall meet FDOT Design Standards and PPM. Design-Build Firm shall utilize governing regulations to complete the Lighting Plans with notes as per the applicable plans preparation manual/handbook. The Design-Build Firm shall make use of the Lighting Analysis Report included in Reference Document 1 as a starting point for the design.

A Lighting Analysis Report (LAR) including photometric printouts shall be submitted by the Design-Build Firm to ensure sufficient illumination over the entire corridor including a needs analysis for bridge underdeck lighting. The LAR shall be based on FDOT guidelines and current conventional lighting design criteria listed in the PPM. A Lighting Justification Report will not be required.

The Design-Build Firm shall provide lighting for all roadway facilities including I-75 Express Lanes, ramps (except in the areas noted below), General Purpose Lanes (except in the areas noted below), and along both sides of Miramar Parkway 300 feet upstream of any deceleration lane taper begins on the west side of the interchange to SW 148<sup>th</sup> Avenue/Royal Palm Avenue on the east side of the interchange within the Project limits. The existing interchange high mast lighting at Miramar Parkway shall be replaced with conventional lighting. The Department plans to replace the existing high mast lighting system at the Pines Boulevard Interchange with conventional lighting at a future date. Underdeck lighting shall be provided, if warranted, for each of the new or existing bridges that cross paved roadways.

The Design-Build Firm will be responsible for any adjustments needed to the existing roadway lighting system affected by the construction, except at the Miramar Parkway Interchange where an existing lighting system is to be replaced. The Design-Build Firm shall coordinate with the Department, municipality and/or maintaining agency having jurisdiction in the area. Any adjustments or replacement of the existing facility lighting system due to construction shall be replaced with similar type meeting current standards.

The Design-Build Firm shall submit a Lighting Master Plan for review and concurrence in writing from the Department prior to any 90% design submittal for review.

New high mast lighting systems will not be permitted.

Conventional lighting with an Aluminum Light Pole system shall be designed in accordance with applicable plans preparation manual/handbook criteria and with the following:

- The Design-Build Firm shall not place light poles in the area between the I-75 General Purpose Lanes and Express Lanes.
- The Design-Build Firm shall coordinate with the adjacent projects to ensure that the proposed pole spacing will provide appropriate lighting levels at the interface areas.
- The Design-Build Firm will be responsible to coordinate FP&L service points for the system. Location of load centers shall be accessible to maintenance personnel. Separate service points shall be required for the I-75 Express Lanes and General Purpose Lanes lighting.
- The Miramar Parkway and Pines Boulevard Interchanges are currently lighted with high mast poles.
- For the purpose of designing the Express Lanes lighting within the influence of the Pines Boulevard Interchange, the Design-Build Firm shall assume no light spillover from either the existing or future General Purpose Lanes lighting systems onto the proposed Express Lanes.
- The Design-Build Firm shall construct a complete conventional lighting system (except light poles and luminaires) to light the proposed Express Lanes in the future between Sta. 485+00 and Sta. 535+00 along I-75 per FDOT Design Standards Index Nos. 17515 and 21210. The Department plans to install light poles and luminaires within this limit at a future date.
- All conduit crossing the existing roadways shall be installed by directional bore or jack and bore methods unless otherwise approved by the Department.
- All pull boxes shall have non-metallic covers and be in accordance with the latest FDOT Design Standards.
- Screw type foundations for light poles will not be permitted.
- One photoelectric cell shall be installed for each load center and should be located adjacent to the load center panel.
- Allowable voltage drop for a circuit shall be no more than 6%. Minimum conductor size to be used is AWG 6 wire.
- The lighting design shall address the potential for light spillover onto adjacent properties and take the necessary measures to mitigate this condition.
- For the Pembroke Road Overpass Bridge, the Design-Build Firm shall install lighting conduit and pull boxes embedded in the traffic railing, light pole pilasters, light poles, and all other lighting related accessories. Wiring for the bridge lighting will be furnished and installed by Broward County.
- The proposed lighting for the Pembroke Road Overpass Bridge shall consist of aluminum poles with 45-foot mounting heights, 15-foot arms, 400 watt, and high pressure sodium luminaires. The luminaires shall be GE M-400A with Curve No. 1002 and be wired for 480V operation and produce a minimum of 51,000 initial lumens.

**P. Landscape Plans:**

The Landscape Concept Design included in Reference Document 1 reflects the overall landscape theme proposed for the ultimate build-out of the I-75 corridor and the concept design for Segment C. For this Design-Build project, the proposed landscape design shall consist of screening areas where there are no sound barrier walls proposed, which includes both a wide and narrow width adaptation of this design. Desired locations of relocated plant material and the proposed plant list are depicted in the Segment C Landscape Concept Plans. The bold landscape design for the proposed landscaping adjacent to sound barrier walls and associated earthwork will be addressed under a separate future contract.

The table below describes the plant type, size, spacing, and quantity of new material required for the screening areas. It is intended that the additional plant materials required for the screening areas depicted in the Segment C Landscape Concept Plans will be established as part of the Design-Build Firm's Tree Relocation Plan.

<b>Landscape</b>	<b>Description</b>	<b>Minimum Quantity</b>
Green Buttonwood	Minimum 10' height (60" staggered on center)	925

The landscape elements are as follows:

- a. Landscape Plans
  1. Non-wall screening installation
  2. Coordinate with drainage plans and wetlands layout
  3. Provide Landscape Planting Plans
- b. Evaluation of existing plant material to remain, relocate and/or remove
  1. Indicate tree protection
  2. Calculate tree replacement mitigation and quantities
  3. Indicate location and layout of relocation and replacement material
  4. Provide Tree Relocation Plan to include:
    - a. Tree relocation
    - b. Tree removal
    - c. Tree protection
    - d. Tree replacement
- c. At a minimum, the Design-Build Firm shall coordinate with the following:
  1. District Landscape Architect (DLA)
  2. District Maintenance Engineer (DME)
  3. Local municipalities (Miramar and Pembroke Pines) with maintenance agreements

**Landscape Design & Tree Relocation Plan**

Prior to developing a Tree Relocation Plan and the Landscape Plans, the Design-Build Firm shall meet with the DLA to discuss and coordinate the overall landscape design approach and scheduled submittals. This meeting is to occur fifteen (15) calendar days (excluding weekends and Department observed holidays) prior to any submittals containing relocation and/or landscape components. Prior to the 90% Plans submittal, the Design-Build Firm shall submit to the DLA a concept design detailing all landscape elements.

For existing trees and palms within the corridor, the design intent is to leave in place, relocate and/or replace in kind. In addition to the Department's Standards and Criteria, the following specific criteria



shall be followed by the Design-Build Firm during the development of the Tree Relocation Plans and Landscape Plans:

- The landscape design must ensure proper setbacks from overhead utilities using the FP&L "Right Tree Right Place" guide. [http://www.fpl.com/residential/trees/right\\_tree\\_right\\_place.shtml](http://www.fpl.com/residential/trees/right_tree_right_place.shtml)
- Plant placement for mature growth shall allow for adequate setbacks from fences, structures, utilities, sound barrier walls, guardrail and retaining walls for future maintenance needs. Substandard setbacks must be approved by the District Four Broward Operations Maintenance Engineer.
- All existing canopy trees with a 10 inch or greater diameter breast height (DBH) shall remain unless the Design-Build Firm provides valid justification to remove the trees. All existing plant material identified to remain within the limits of construction must be protected. If removal of trees is justified, all trees and palms shall be replaced in kind with new nursery material and comply with Landscaping Special Provision SP580000FA for installing, establishing, and maintaining all plant materials replaced.
- The Design-Build Firm shall submit a Tree Protection Plan to the DLA that confirms the areas of protection of the Critical Protection Zone (refer to Standard Index No. 544, Tree Protection Barricade) of all trees and palms to remain and/or to be relocated as shown in the Landscape Concept Design. The Tree Protection Plan shall indicate the mechanism to protect the trees and palms per Standard Index No. 544 or better. This task shall be performed before any construction equipment enters onto the Project site.
- All proposed landscape within 1000 feet of any legally permitted outdoor advertising sign shall comply with current Florida Statue 479.06 View Zone Criteria by providing a 500-foot unobstructed view zone. Initial coordination has been conducted with the Outdoor Advertisement owners by the DLA and the 500-foot view zones have been designated. See the Landscape Concept Plan for the locations of the designated Outdoor Advertising (ODA) view zones. Any vegetation proposed within view zones shall require review and approval by the DLA and the ODA permit holder. The Design-Build Firm will be responsible to secure an ODA Clear Letter from the DLA. This will include preparation of an ODA Clear Letter Package to be submitted to the DLA.
- The Design-Build Firm shall ensure that the Tree Relocation Plan and the proposed Landscape Design are continually coordinated with all other disciplines to avoid potential conflict.
- Tree condition will be the basis of the tree disposition and mitigation. Only Poor or Dead status are exempt.

### **Relocation and Removal**

The Department has completed a tree survey for the Project that inventories existing desirable trees. Refer to Reference Document 1 for additional information that includes the condition of the existing trees and their potential for relocation. All impacted trees that have been identified as suitable for relocation, must be relocated in the following preferential order:

- Within the Project right of way along screening locations identified within the Landscape Concept Plans
- Within the I-75/I-595/Sawgrass Expressway Interchange as shown on the Tree Relocation Plan Layout provided in Reference Document 1.  
As necessary, the Design-Build Firm will mutually coordinate tree relocations with the other Project Segment Design-Build Firms using the I-75/I-595/Sawgrass Expressway Interchange. The intention is to have coordination occur amongst the Design-Build Firms during the relocation of trees within the interchange even though each Project Segment will have its own designated area to transplant trees.
- Species that shall be relocated if impacted are as follows:
  - Bald Cypress – maximum 16 foot overall height
  - Cabbage Palm – minimum 12 foot clear trunk

- Gumbo Limbo – minimum 12 foot overall height
- Live Oak – minimum 12 foot overall height
- Royal Palm – minimum 16 foot overall height
  
- Smaller trees where the structure of the tree canopy will not be compromised, they can be pruned for transport by an International Society Arboriculture (I.S.A.) Certified Arborist.
  
- The Design-Build Firm is responsible for procurement and payment of any required permits for oversized loads due to width of relocated trees.
  
- Species not required to be relocated are as follows (but if not impacted are to remain):
  - Coconut Palm
  - Geiger tree
  - Green Buttonwood
  - Laurel Oak
  - Mahogany
  - Red Maple
  - Strangler Fig
  - Swamp Bay
  
- All trees or palms removed that are not required to be relocated shall be replaced with material the same size as the impacted landscape material. Basis of the replacement shall be inch per inch DBH for canopy trees and overall height for palms.
  
- Replacement material species shall be a combination of the following species:
  - Bald Cypress – minimum 16 foot overall height
  - Bismarckia Palm – minimum 18 foot overall height
  - Cabbage Palm – minimum 18 foot overall height (maximum 25% of the replacement)
  - Date Palm Species - minimum 18 foot overall height
  - Gumbo Limbo – minimum 18 foot overall height
  - Live Oak – minimum 18 foot overall height
  - Paurotis Palm – minimum 16 foot overall height
  - Royal Palm – 14 minimum foot grey wood
  - Royal Poinciana – 16 minimum foot overall height
  - Verawood – 12 minimum foot overall height (maximum 25% of the replacement)
  
- Alternative plant material not listed will require approval of the DLA.
  
- Each surveyed tree has been marked with a plastic cable tie wrap encircling the base of the tree, and an attached aluminum tag stamped with the respective tree identification number. The Design-Build Firm shall remove and properly dispose all of the plastic cable tie wraps and aluminum tags prior to final acceptance of the Project.
  
- It will be the responsibility of the Design-Build Firm to remove all Category 1 invasive exotics as defined by the *Florida Exotic Pest Plant Council* ([www.fleppc.org](http://www.fleppc.org)) and as identified in the Landscape Concept Design.
  
- Refer to Section VI.J of this RFP for vegetation removal requirements related to proposed sound barrier walls.

If the Design-Build Firm encounters an existing tree that was not inventoried and is impacted by construction, the Design-Build Firm shall be responsible for relocating or replacing the tree per the criteria stated above and notify the DLA.

## **Maintenance**

### Establishment and Maintenance Period & Warranty

The Design-Build Firm shall maintain the relocated and existing landscape as indicated in Landscaping Special Provision SP5800000FA following final acceptance of the Project. The limits of the landscape maintenance shall include all areas within the Project limits and within the designated area of the I-75/I-595/Sawgrass Expressway Interchange as shown on the Tree Relocation Plan Layout provided in Reference Document 1. The following will be required during the maintenance period and shall be included in the Design-Build Firm's Technical Maintenance Plan:

- The Design-Build Firm shall maintain the entire Project limits free of invasive exotic species for the establishment period per Landscaping Special Provision SP5800000FA.
- Relocation work shall include root pruning, removal, transplanting, transporting, staking and guying, and plant health maintenance which includes fertilization and pest management. The Design-Build Firm shall guarantee all relocated trees for entire establishment period as identified in Landscaping Special Provision SP5800000FA when relocated within the Project limits and the I-75/I-595/Sawgrass Expressway Interchange.
- At the completion of the establishment period, the Design-Build Firm shall be responsible for the removal and clean-up of all staking and guying systems, and all other materials associated with the practice and installation of staking and/or guying systems, and nursery supports and tagging.
- All existing and proposed palm trees shall be trimmed to remove all seed pods and dead, damaged and/or diseased fronds.
- Applications for herbicides, fertilizers and pesticides must be applied by a Florida-licensed applicator with proper right of way endorsements (copies of which shall become part of the Project file). As a specific requirement, only fertilizers specifically formulated for palm trees, which includes the required micro-nutrients, shall be used on all plant materials.

### **Q. Toll Systems:**

#### **1. Non-Accessible Gantry Site Locations**

The proposed non-accessible gantry site locations represent preferred locations that have been reviewed by and are acceptable to the Department. The Design-Build Firm should locate the centerline of the gantries at each site as follows:

- Toll Gantry 3 Station 369+00
- Toll Gantry 4 Station 548+00

The stations specified for Toll Gantry 3 and Toll Gantry 4 were developed meeting the criteria found within the FTE General Tolling Requirements (GTR). Regardless, whether Toll Gantry 3 and Toll Gantry 4 stations are modified, their final location shall comply with the location requirements found within the FTE Tolling Requirements (GTR).

#### **2. Toll Gantry Plans**

The Design-Build Firm shall prepare a component set of Structures Plans as part of the Plans Package for review and approval by the Department. All plans are to be prepared in accordance with the latest design standards and practices and shall be accurate, legible, complete, drawn to scale and furnished in reproducible form.

The Structures Plans shall include notes, plans, elevations, details and report of core borings. The Department has developed the Conceptual Site Plan including Non-Accessible Gantry Sample Plans in Attachment O, Appendix 19. The Non-Accessible Gantry Sample Plans developed by the Design-Build Firm shall be in general conformance with Attachment O, FTE General Tolling Requirements.

The design of the non-accessible gantry including foundations, non-accessible gantry plans and the site adaptation of the Conceptual Site Plan included in Attachment O, FTE General Tolling Requirements at each tolling point location are the responsibility of the Design-Build Firm. The design and details shall represent an engineering solution that conforms to the design criteria.

#### A. Non-Accessible Gantry

Refer to Attachment O, FTE General Tolling Requirements for the non-accessible gantry structural requirements.

The Design-Build Firm shall follow the sample plans provided, perform their own design and become the EOR for the non-accessible gantries and toll equipment buildings required for this project. The Design-Build Firm shall adjust tolling equipment locations as necessary, per Attachment O and associated appendices.

### 3. Other Structures

- Design-Build Firm shall be responsible for all coordination issues and other structures that are required to perform the work as identified in this RFP.
- Sign Structures: Any sign structure within the limits defined in this RFP before and after a toll equipment structure shall be relocated beyond these limits. Refer to RFP Section VI.N of this RFP, Signing and Pavement Marking Plans, for more information on sign structures including a list of sign structures required to be replaced and cannot be reused. Also, refer to RFP Section VI.S of this RFP for information on DMS sign structures.

### 4. Building Criteria

The Design-Build Firm will design and construct the toll equipment buildings and associated infrastructure as detailed in Attachment O.

### 5. Tolling Equipment Installation Coordination

After the Design-Build Firm completes the toll equipment building(s) and associated tolling infrastructure in accordance with Attachment O, each site will be temporarily turned over to the Department's Toll Equipment Contractor (TEC). The Department's TEC will install and test the tolling equipment. Allow thirty (30) working days (each direction) for the toll equipment contractor to install and test the toll equipment at the building site. After completion of the installation, the tolling infrastructure site will be returned to the Design-Build Firm for project completion. The project schedule should include this activity in the computation of contract time for the Project.

After the TEC installs tolling equipment inside the new toll equipment buildings, the key to the building door(s) will be changed by the contractor's locksmith within 5 (five) working days and the Department will take possession of the keys. The Design-Build Firm will not have access to the interior of the new toll buildings after tolling equipment is installed.

**R. Signalization Plans:**

The Design-Build Firm shall prepare Signalization Plans in accordance with Department criteria. The Design-Build Firm shall reconstruct existing mast arm signals at the I-75/Miramar Parkway Interchange (both east and west of I-75) with all new mast arms, controller cabinets, video detection, signal head per lane (centered on each intended lane physically as possible), back plates with yellow reflective borders for all signal heads, LED countdown type pedestrian signals and associated pedestrian signal signs. New mast arm assemblies shall be designed to withstand additional loadings in case additional overhead signing (turn prohibitions) or additional signal heads (due to signal operation phasing change or additional turn lanes) are required in the future. Pedestrian crossing features shall be provided to cross the I-75 entrance and exit ramps along Miramar Parkway. All pedestrian push button locations shall meet both MUTCD and ADA criteria. All dual and triple right turns shall be signalized. Every effort shall be made to locate stop bars at signalized intersections to minimize vehicle clearance times at the respective signals. Signal heads shall be mounted horizontally and shall be perpendicular to the approaching traffic stopped at the stop bar. Supplemental signal heads may be required to improve visibility of overhead signals for drivers approaching the signals from the I-75 off-ramps and Miramar Parkway. Fiber optic (single mode 72 count) signal interconnect cable shall be provided to connect SW 160<sup>th</sup> Avenue/Dykes Road to SW 148<sup>th</sup> Avenue signals along Miramar Parkway with three 1" inner ducts in a 4" outer duct. Existing signal interconnect within the signals shall be removed. LED internally illuminated overhead street name signs mounted on mast arms shall be provided at all signalized intersections for mainline and minor roads/ramps. The overhead street name signs shall be located within the cone of vision of the intended drivers approaching the intersection.

**S. Intelligent Transportation Systems (ITS) Plans:**

Refer to the ITS Deployment Requirements included as Attachment N for ITS criteria. The Design-Build Firm shall make use of the ITS/Tolls Master Plan included in Reference Document 1 as a starting point for the design. No changes to toll pricing sign, lane status sign and DMS locations shown in the ITS Master Plan will be allowed. All ITS overhead sign structures and foundations shall be designed and constructed to accommodate a 25% increase in the final sign panel area (static signs only).

The Design-Build Firm shall prepare all plans in accordance with the latest design standards and practices, FDOT Standard Specifications, Indices, and Plans Preparation Manual, and the "Scope of Services for ITS" included as Attachment N and shall be accurate, legible, complete in design, drawn to the scale indicated in the Department's manuals and furnished in reproducible form.

**T. Traffic Monitoring Sites:**

**Permanent Traffic Monitoring Site**

The Design-Build Firm shall design and construct two (2) Permanent Traffic Monitoring Sites (PTMS). The approximate location of this site is:

- I-75, MP 2.967
- I-75, MP 4.521

The final location of the PTMS sites shall be coordinated with the Department's District Four PL&EM Office at 954-777-4364. The sites shall be constructed to monitor traffic in all General Purpose Lanes and all Express Lanes along I-75.

The work shall be in accordance with the FDOT Design Standards and shall include the following items:

- Grounding electrodes
- Buried conduit (underground)
- Buried conduit (under pavement)
- Pull boxes
- Inductive loop assemblies
- Type III TMS pedestal (not base) mounted cabinets. Coordinate locations for loop assemblies and cabinets with the Department prior to installation.
- Placement of the cabinets is to be outside the clear zones with the rear of the cabinet facing towards the road.
- The Design-Build Firm is to contact the Department's District PL&EM Office at 954-777-4364 at least five (5) days prior to cutting the inductive loops into the structural course, for a final inspection.
- Refer to FDOT Design Standard Index No. 17900 for TMS installation.

The Design-Build Firm shall be responsible for the maintenance and repair of the PTMS sites.

## **VII. Technical Proposal Requirements.**

### **A. General:**

Each Design-Build Firm being considered for this Project is required to submit a Technical Proposal. The proposal shall include sufficient information to enable the Department to evaluate the capability of the Design-Build Firm to provide the desired services. The data shall be significant to the Project and shall be innovative, when appropriate, and practical.

### **B. Submittal Requirements:**

The Technical Proposal shall be bound with the information, paper size and page limitation requirements as listed herein:

A copy of the written Technical Proposal must also be submitted in .pdf format including bookmarks for each section on a CD. No macros will be allowed. Minimum font size of ten (10) shall be used. Times New Roman shall be the required font type.

Only upon request by the Department, provide calculations, studies and/or research to support features identified in the Technical Proposal. This only applies during the Technical Proposal Evaluation phase.

Submit 1 Original, 9 CD's, and 8 hard copies of the Technical Proposal to:

Ms. Esther Brandt  
Contract Coordinator  
Procurement Office, First Floor  
Florida Department of Transportation, District Four  
3400 West Commercial Boulevard  
Fort Lauderdale, Florida 33309

The minimum information to be included:

Section 1: Project Approach

- Paper size: 8½" x 11". The maximum number of pages shall be 15, single-sided, typed pages including text, graphics, tables, charts, and photographs. Double-sided 8½" x 11" sheets will be counted as 2 pages. 11" x 17" sheets are prohibited.
- This Section shall cover the Evaluation Criteria items described under Section VII.C to include: (1) Design, (2) Construction, (3) Innovation, and (4) Value Added.
- Provide a summary detailing how preliminary plans address all significant design and construction issues and constraints.
- Describe how the proposed design solutions and construction means and methods meet the Project needs described in this Request for Proposal. Provide sufficient information to convey a thorough knowledge and understanding of the Project and to provide confidence the design and construction can be completed as proposed.
- Provide the term, measureable standards, and remedial work plan for any proposed Value Added features that are not Value Added features included in this RFP, or for extending the Value Added period of a feature that is included in this RFP. Describe any material requirements that are exceeded.
- Provide a Written Schedule Narrative that describes the Design and Construction phases and illustrates how each phase will be scheduled to meet the project needs required of this Request for Proposal. Information should include: early completion of the ground mounted sound barrier walls; acceleration of the ITS infrastructure and all ITS devices; and early ITS integration. The schedule narrative should describe early completion of the Project's interface limits that will minimize delay and conflicts to the adjacent I-75 Design-Build Projects (Segments B and D), and early completion of the Express Lanes so that they are ready for traffic.
- Bar or Gantt charts are prohibited. Do not reveal or describe the Proposed Contract Time. Proposed Contract Time will be evaluated when Bid Price Proposals are received.

## Section 2: Plans and Technical Special Provisions

- Paper size: 11" x 17".
- Plan and Profile views of the proposed improvements may be submitted in roll-plot format. The maximum width of the roll-plots shall be 36". The maximum length of the roll-plot shall be 8'. Inclusion of additional information on the roll-plot, other than depictions of the Plan and Profile views, is prohibited and will not be considered by the Proposal Evaluators, if included. The Department may determine that such additional information is excessive and may require the Design-Build Firm to revise and resubmit the roll-plots. If this occurs, the Design-Build Firm will have 2 business days to revise and resubmit the roll-plots upon notification by the Department.
- Other component plans that include signing and pavement markings, lighting, and ITS plans may be submitted in roll-plot format.
- The Plans shall complement the Project Approach.
- The minimum information to be included in the Technical Proposal Plans is as follows:

### Roadway

- Project Limits
- Horizontal alignment
- Pier and abutment location
- Major topographic features
- Proposed vertical profile(s) and special gutter profile(s)
- Survey controls and bench marks
- Stationing along horizontal alignment
- Connections to existing roadway
- Utility provisions
- Maintenance of traffic provisions
- Traffic Control Plan design
- Roadway Typical Sections
- Roadway cross sections (500' intervals and critical locations)
- Stormwater management facilities
- Control structures/outfalls
- Major drainage infrastructure for interconnection of stormwater management facilities

### Structures

- General Notes Sheet
- Plan and Elevation Sheet
- Substructures:  
For end bents, piers or intermediate bents, show substructure elements and sizes including all deviations from the typical dimensions, foundation type including element spacing and the arrangement of piles or drilled shafts.
- Superstructure:  
Include cross section showing lanes, shoulders, railings, slab thickness, beam type and spacing and web depth for steel girders. If



applicable, show geometric changes in shapes of various components. Also show construction phases and maintenance of traffic data, outline of the existing structure and portions to be removed, and utilities (existing and proposed as available).

- Retaining Walls:  
Preliminary control drawings shall be submitted when proprietary or standard cast-in-place walls are proposed. Include control drawings for all critical temporary walls.
- Report of Core Borings
- Proposed construction sequence and methods, indicate construction easements and methods of construction access.
- Preliminary aesthetic details
- Preliminary post-tensioning layouts
- Preliminary foundation layouts and installation table
- Variations and documentation

**Geotechnical**

- Geotechnical investigation plan

**Signing and Pavement Markings**

- Pavement markings
- All existing guide signs
- Proposed overhead signs and structure locations
- DMS structure locations

**Lighting**

- Pole layout

**ITS**

- Preliminary ITS conduit layout
- ITS device locations
- Power generator locations

\*\* For the component information listed above, the CADD design files containing the Technical Proposal Plans design are to be included on the CD.

- Provide any Technical Special Provisions which apply to the proposed work.  
Paper Size: 8½" x 11"

**C. Evaluation Criteria:**

The Department shall evaluate the written Technical Proposal by each Design-Build Firm. The Design-Build Firm should not discuss or reveal elements of the price proposal in the written proposals. A technical score for each Design-Build Firm will be based on the following criteria:

<b>Item</b>	<b>Value</b>
1. Design	40
2. Construction	30
3. Innovation	5
4. Value Added	5
<b>Maximum Score</b>	<b>80</b>

The following is a description of each of the above referenced items:

1. **Design (40 points)**

Credit will be given for the quality and suitability of the following elements:

- Structures design
- Roadway design and safety
- Drainage design/permitting
- Environmental design
- Geotechnical investigation plan
- Minimizing impacts to adjacent properties and structures through design
- Traffic Control Plan design
- Signing and Pavement Markings design
- Lighting design
- ITS design
- Context Sensitive design
- Utility coordination and design
- Maintainability

Credit will be given for Context Sensitive design features that include but not limited to the following: considerations in the geometry, suitability and consistency of structure type, structure finishes, shapes, proportions and form throughout the limits of the Project.

Architectural treatments such as tiles, colors, emblems, etc. will not be considered as primary aesthetic treatments.

Credit will be given for effectively describing the Design-Build Firm's project approach relating to design solutions, issues, constraints, schedule narrative, etc. as noted in Section 1 (Project Approach) under Section VII.B – Submittal Requirements.

Credit will be given for design and utility coordination efforts that minimize the potential for adverse impacts and project delays due to utility involvement.

Credit will be given for designs that avoid and/or minimize costs and exposure in the identified contamination areas.

Credit will be given for ITS design and construction that:

- Address coordination of, and minimize disruption to current ITS operations, including District Four
- Improve system maintainability and reliability
- Consider uniformity within the I-75 corridor
- Consider provisions made to allow ITS integration to be concurrent with the completion of the roadway construction

Credit will be given for development of design approaches which minimize periodic and routine maintenance. The following elements should be considered: access to provide adequate inspections and maintenance, access to structure's lighting system, and impacts to long term maintenance costs. At a minimum, the following components should be considered:

- Bridge structures
- ITS devices
- Tolling infrastructure
- Sound barrier wall
- Lighting systems

Credit will be given for a drainage design that minimizes routine maintenance, sump structures, trench drain, and steep slopes on roadway ditches and berms.

Credit will be given for a Maintenance of Traffic Plan that minimizes disruption to I-75 General Purpose Lanes, I-75 Express Lanes and ramps, adjacent Segments B and D, and Pines Boulevard.

Credit will be given for a Construction Phasing Plan for the Pembroke Road Overpass Bridge work that clearly describes coordination efforts and effective integration with the Pembroke Road improvements associated with Broward County Project No. 5255 to minimize adverse impacts, avoid potential conflicts, and prevent construction delays.

## 2. **Construction (30 points)**

Credit will be given for the quality and suitability, and detailed narrative specific to the plans for the following elements:

- Safety
- Structures construction
- Roadway construction
- Drainage construction
- ITS construction
- Minimizing impacts to adjacent properties and structures through construction
- Implementation of the Environmental design and Erosion/Sediment Control Plan
- Implementation of the Maintenance of Traffic Plan
- Incident Management Plan
- Utility coordination and construction
- Approach to defining and disposition of unsuitable materials
- Utilization of on-site material for embankment

Credit will be given to the Design-Build Firm that demonstrates minimization of both temporary and permanent impacts to the environment during all phases of design and construction and ensures that all environmental commitments are honored.

Credit will be given for developing and deploying construction techniques that minimize disruptions to roadway traffic, the traveling public, property owners, enhance project durability, reduce long term and routine maintenance, reduce cost, and promote public and worker safety. This shall include, but not be limited to, minimization of lane closures, lane widths, shoulder widths, visual obstructions, construction sequencing, and drastic reductions in speed limits.

Credit will be given for effectively describing the Design-Build Firm's project approach relating to construction phasing, means and methods, solutions, issues, constraints, schedule narrative, etc. as noted in Section 1 (Project Approach) under Section VII.B – Submittal Requirements.

Credit will be given for construction and utility coordination efforts that minimize the potential for adverse impacts and project delays due to utility conflicts.

Credit will be given for a detailed access plan for construction vehicles and equipment that minimizes access points from high speed lanes and that also provides safe ingress and egress points to the construction site.

**3. Innovation (5 points)**

Credit will be given for introducing and implementing innovative design approaches and construction techniques which address the following elements:

- Materials
- Enhance Design and Construction aspects related to the current and future expansion of the transportation facility in accordance with the Ultimate Corridor Build-out Concept
- Minimizing impacts to adjacent Segments B and D
- Reconstruction of the Miramar Parkway Interchange

**4. Value Added (5 points)**

Credit will be given for the following Value Added features:

- Broadening the extent of the Value Added features of this RFP while maintaining existing threshold requirements
- Exceeding minimum material requirements to enhance durability of project components
- Providing additional Value Added project features proposed by the Design-Build Firm

The following Value Added features have been identified by the Department as being applicable to this project. The Design-Build Firm may propose to broaden the extent of these Value Added features.

<b>Value Added Feature</b>	<b>Minimum Value Added Period</b>
Value Added Asphalt	3 years
Value Added Concrete Pavement	5 years
Value Added Bridge Components	5 years
Value Added Lighting	3 years

**D. Final Selection Formula:**

The Selection Committee shall publicly open the sealed bid proposals and calculate an adjusted score using the following formula:

$$\frac{BPP}{TS + PCTP} = \text{Adjusted Score}$$

BPP = Bid Price Proposal

TS = Technical Score (Combined Scores from ELOI and Technical Proposal)

PCTP = Proposed Contract Time Points

Points will be added to the Technical Score, at the time of Bid Price Proposal opening, according to the Proposed Contract Time based on the following table. The number of days shown on the Bid Proposal form included as Attachment C shall be the official Proposed Contract Time.

<b>Proposed Contract Time (Calendar Days)</b>	<b>Points Awarded</b>
1,080 – 1,005	0
1,004 - 931	1
930 or less	2

The Design-Build Firm selected will be the Design-Build Firm whose adjusted score is lowest.

The Department reserves the right to consider any proposal as non-responsive if any part of the Technical Proposal does not meet established codes and criteria. If the Proposed Contract Time is greater than the Maximum Contract Time of 1,080 calendar days the Bid Price Proposal will be considered non-responsive.

**E. Final Selection Process:**

After the sealed bids are received, the Department will have a public meeting for the announcement of the Technical Scores and opening of sealed Bid Price Proposals. This meeting will be recorded. At this meeting, the Department will announce the score for each member of the Technical Review Committee, by category, for each Proposer and each Proposer's average Technical Score. Following announcement of the technical scores, the sealed Bid Price Proposals will be opened and the adjusted scores calculated. The Selection Committee should meet a minimum of two (2) calendar days (excluding weekends and Department observed holidays) after the public opening of the Technical Scores and Bid Price Proposals. The Department's Selection Committee will review the evaluation of the Technical Review Committee and the Bid Price Proposal of each Proposer as to the apparent lowest adjusted score and make a final

determination of the lowest adjusted score. The Selection Committee has the right to correct any errors in the evaluation and selection process that may have been made. The Department is not obligated to award the contract and the Selection Committee may decide to reject all proposals. If the Selection Committee decides not to reject all proposals, the contract will be awarded to the Proposer determined by the Selection Committee to have the lowest adjusted score.

#### **F. Stipend Awards:**

The Department has elected to pay a stipend to a limited number of non-selected Short-Listed Design-Build Firms to offset some of the costs of preparing the Proposals. The non-selected Short-Listed Design-Build Firms meeting the stipend eligibility requirements of the Project Advertisement and complying with the requirements contained in this section will ultimately be compensated. The stipend will only be payable under the terms and conditions of the Design-Build Stipend Agreement and Project Advertisement, copies of which are included with this Request for Proposal. This Request for Proposal does not commit the Department or any other public agency to pay any costs incurred by an individual firm, partnership, or corporation in the submission of Proposals except as set forth in the Design-Build Stipend Agreement. The amount of the stipend will be \$127,000 per non-selected Short-Listed Design-Build Firm that meets the stipend eligibility requirements contained in the Project Advertisement. The stipend is not intended to compensate any non-selected Short-Listed Design-Build Firm for the total cost of preparing the Technical and Price Proposals. The Department reserves the right, upon payment of stipend, to use any of the concepts or ideas within the Technical Proposals, as the Department deems appropriate.

In order for a Short-Listed Design-Build Firm to remain eligible for a stipend, the Short-Listed Design-Build Firm must execute with original signatures and have delivered to the Department no later than one (1) week after the Short-List has been posted, four (4) originals of the Design-Build Stipend Agreement, Form No. 700-011-14. The Short-Listed Design-Build Firm shall reproduce the necessary copies. Terms of said agreement are non-negotiable. A fully executed copy of the Design-Build Stipend Agreement will be returned to the Short-Listed Design-Build Firm.

A non-selected Short-Listed Design-Build Firm eligible for stipend compensation must submit an invoice for a lump sum payment of services after the selection/award process is complete. The invoice should include a statement similar to the following: "All work necessary to prepare Technical Proposal and Price Proposals in response to the Department's RFP for the subject Project".

### **VIII. Bid Proposal Requirements.**

#### **A. Bid Price Proposal:**

Bid Price Proposals shall be submitted on the Bid Blank form included as Attachment E and shall include one lump sum price for the Project and the number of calendar days within which the Proposer will achieve partial acceptance for the Project. The total amount shall be established by totaling separate prices determined by the Proposer for each of the two (2) FPID project numbers associated with this Contract. The separate project numbers and corresponding prices shall be clearly noted on the Bid Proposal form included as Attachment C. The lump sum price shall include all costs for all design, geotechnical surveys, architectural services, engineering services, Design-Build Firms quality plan, construction of the Project, and all other work necessary to fully and timely complete that portion of the Project in accordance with the Contract Documents, as well as all job site and home office overhead, and profit, it being understood that payment of that amount for that portion of the Project will be full,

complete, and final compensation for the work required to complete that portion of the Project. One (1) hard copy of the Bid Price Proposal shall be hand delivered in a separate sealed package to the following:

Ms. Esther Brandt  
Contract Coordinator  
Procurement Office, First Floor  
Florida Department of Transportation, District Four  
3400 West Commercial Boulevard  
Fort Lauderdale, Florida 33309

The package shall indicate clearly that it is the Price Proposal and shall identify clearly the Proposer's name, and Project description. The Bid Price Proposal shall be secured and unopened until the date specified for opening of Bid Price Proposals.