



*Florida Department of Transportation*  
*District Six*

**LOW BID  
DESIGN-BUILD  
REQUEST FOR PROPOSAL**

**For**

***ITS Device Replacement Project, Miami-Dade County***

**Financial Projects Number(s): 430291-5-92-01, 430291-5-92-02**

**Contract Number: E6M98**

## Table of Contents

<b>I.</b>	<b>Introduction .....</b>	<b>4</b>
A.	Design-Build Responsibility .....	7
B.	Department Responsibility .....	8
<b>II.</b>	<b>Schedule of Events .....</b>	<b>8</b>
<b>III.</b>	<b>Threshold Requirements .....</b>	<b>9</b>
A.	Qualifications .....	9
B.	Joint Venture Firm .....	9
C.	Price Proposal Guarantee .....	10
D.	Pre-Proposal Meeting .....	10
E.	Question and Answer .....	10
F.	Protest Rights .....	10
G.	Non-Responsive Proposals .....	11
H.	Waiver of Irregularities .....	11
I.	Modification or Withdrawal of Proposal .....	12
J.	Department's Responsibilities .....	12
K.	Design-Build Contract .....	12
<b>IV.</b>	<b>Disadvantaged Business Enterprise (DBE) Program .....</b>	<b>13</b>
A.	DBE Availability Goal Percentage .....	13
B.	DBE Supportive Services Providers .....	13
C.	Bidders Opportunity List .....	13
<b>V.</b>	<b>Project Requirements and Provisions for Work .....</b>	<b>14</b>
A.	Governing Regulations .....	14
B.	Innovative Aspects .....	16
C.	Geotechnical Services .....	16
D.	Department Commitments: N/A .....	17
E.	Environmental Permits .....	17
F.	Railroad Coordination: N/A .....	18
G.	Survey .....	18
H.	Verification of Existing Conditions .....	19
I.	Submittals .....	19
J.	Contract Duration .....	22
K.	Project Schedule .....	22
L.	Key Personnel/Staffing .....	23
M.	Partner/Teaming Arrangement .....	23
N.	Meetings and Progress Reporting .....	24
O.	Quality Management Plan (QMP) .....	25
P.	Liaison Office .....	25

Q.	Engineers Field Office: N/A .....	26
R.	Schedule of Values .....	26
S.	Computer Automation .....	26
T.	Construction Engineering and Inspection .....	26
U.	Testing .....	26
V.	Value Added .....	27
W.	Adjoining Construction Projects.....	27
X.	Issue Escalation.....	27
<b>VI.</b>	<b>Design and Construction Criteria .....</b>	<b>28</b>
A.	General.....	28
B.	Vibration and Settlement Monitoring .....	28
C.	Geotechnical Services.....	29
D.	Utility Coordination .....	30
E.	Roadway Plans.....	32
F.	Roadway Design: N/A .....	32
G.	Geometric Design: N/A .....	32
H.	Design Documentation, Calculations, and Computations .....	32
I.	Structure Plans .....	33
J.	Specifications.....	34
K.	Shop Drawings.....	35
L.	Sequence of Construction .....	35
M.	Stormwater Pollution Prevention Plans (SWPPP) .....	36
N.	Transportation Management Plan.....	36
O.	Environmental Services / Permits / Mitigation .....	37
P.	Signing and Pavement Marking Plans .....	38
Q.	Lighting Plans .....	38
R.	Intelligent Transportation System Plans .....	39
S.	Landscape Opportunity Plans: N/A .....	48
<b>VII.</b>	<b>Technical Proposal Requirements.....</b>	<b>48</b>
A.	General.....	48
B.	Submittal Requirements.....	48
C.	Evaluation Criteria.....	50
D.	Final Selection Process .....	50
<b>VIII.</b>	<b>Bid Proposal Requirements .....</b>	<b>50</b>
A.	Bid Price Proposal .....	50

## **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.

### **Project Advertisement**

#### **Division I Design-Build Specifications**

Award and Execution of Contract – Public Records (SP0030900D6-121)

Equal Employment Opportunity Requirements (SP0072700)

Legal Requirements and Responsibility to the Public – Preference to State Residents (SP0072800)

Disputes Review Board – Regional Disputes Review Board (SP0080307RDRB)

Legal Requirements and Responsibilities to the Public – E-Verify (SP0072900)

Legal Requirements and Responsibilities to the Public – Scrutinized Companies (SP0073000)

Contaminated Material - Mercury-Containing Devices and Lamps (SP0080409)

#### **Divisions II and III Special Provisions identified by the Department to be used on the Project:**

Mobilization (SP1010000DB)

Contractor Quality Control General Requirements (SP1050813DB)

Structures Foundations (SP4550000DB)

#### **Environmental Certification**

Florida Law 86-308 - Historic Calle Ocho

Florida Law 83-365 - Historic Sunset Drive

State Historic Highway Compliance Memorandum – Calle Ocho

State Historic Highway Compliance Memorandum – Sunset Drive

## **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.

### **As-built Plans**

District 6 Microwave Vehicle Detection System (MVDS) Calibration Procedures

Preliminary Project DMS Structure Evaluation

Sample Preventive Maintenance Checklists

District 6 Dynamic Message Sign (DMS) Map

District 6 ITS Device Network and Dependency Diagram

Preliminary Utility Coordination Responses

Draft DMS Test Plans

Project Risk Assessment and Regulatory Compliance Checklist

Type 1 Categorical Exclusion Checklist

## I. Introduction

The Florida Department of Transportation District Six, hereinafter known as the “Department” has issued this Request for Proposal (RFP) to solicit competitive Bids and Proposals from Proposers for the replacement of freeway and arterial Dynamic Message Signs (DMS) and associated equipment, hereinafter known as the “Project”.

### Description of Work

The Department seeks a Design-Build Firm to design, procure, install, test, integrate and provide training on multiple arterial and freeway DMS and associated equipment districtwide. Project work shall be performed as noted in Table 1 below:

- Replace 9 freeway DMS and associated infrastructure on Interstate 95 (I-95) and State Road 826 (SR 826).
- Replace 17 arterial DMS and associated infrastructure on US 1, US 441, SR 9, and multiple arterials at SR 826 interchanges.

Project DMS sites are listed in Table 1 below. This table only provides a high-level summary of the major activities that need to be conducted in the field and is not intended to be a comprehensive list of requirements. The Design-Build Firm shall refer to all applicable sections of this RFP for completing all the required Project work.

Table 1 – Project Sites and Work Description

SunGuide® ID	Corridor	Geographic Coordinates	Work Description
DMS 1	I-95	25.874643, -80.208712	<ul style="list-style-type: none"><li>• Remove existing DMS and cabinet</li><li>• Install one new freeway DMS and cabinet (ground mounted)</li></ul>
DMS 2	I-95	25.972086, -80.165904	<ul style="list-style-type: none"><li>• Remove existing DMS structure</li><li>• Install new DMS structure</li><li>• Remove existing DMS and cabinet</li><li>• Install one new freeway DMS and cabinet (ground mounted)</li><li>• Remove existing DMS confirmation CCTV camera (093-CCTV) and associated infrastructure</li><li>• Install new DMS confirmation CCTV camera and associated infrastructure</li></ul>
DMS 3	I-95	25.950053, -80.182377	<ul style="list-style-type: none"><li>• Remove existing DMS structure</li><li>• Install new DMS structure</li><li>• Remove existing DMS and cabinet</li><li>• Install one new freeway DMS and cabinet (ground mounted)</li><li>• Remove existing MVDS detector (attached to the DMS structure) and associated infrastructure. MVDS ID: FLD6DOT095SB015.1-DS</li></ul>

SunGuide® ID	Corridor	Geographic Coordinates	Work Description
			<ul style="list-style-type: none"> <li>• Install new MVDS detector and associated infrastructure</li> </ul>
DMS 4	SR 826	25.924668, -80.303743	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new freeway DMS and cabinet (ground mounted)</li> </ul>
DMS 5	SR 826	25.925764, -80.255511	<ul style="list-style-type: none"> <li>• Remove existing DMS structure</li> <li>• Install new DMS structure</li> <li>• Remove existing DMS and cabinet</li> <li>• Install one new freeway DMS and cabinet (ground mounted)</li> </ul>
DMS 6	SR 826/NE 167 Street	25.928233, -80.197538	<ul style="list-style-type: none"> <li>• Remove existing DMS structure</li> <li>• Install new DMS structure</li> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> <li>• Relocate existing wireless communications equipment to the new DMS location</li> </ul>
DMS 8	US 441	25.938794, -80.205147	<ul style="list-style-type: none"> <li>• Remove existing DMS structure</li> <li>• Install new DMS structure</li> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS 9	US 441	25.920239, -80.211966	<ul style="list-style-type: none"> <li>• Remove existing DMS structure</li> <li>• Install new DMS structure</li> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS 10	SR 9	25.919538, -80.21823	<ul style="list-style-type: none"> <li>• Remove existing DMS structure</li> <li>• Install new DMS structure</li> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS 45	US 1	25.698642, -80.296708	<ul style="list-style-type: none"> <li>• Remove existing DMS structure</li> <li>• Install new DMS structure</li> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS 46	US 1	25.667891, -80.322904	<ul style="list-style-type: none"> <li>• Remove existing DMS structure</li> </ul>

SunGuide® ID	Corridor	Geographic Coordinates	Work Description
			<ul style="list-style-type: none"> <li>• Install new DMS structure</li> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW72W B001.8-A	SW 72 Street	25.703158, -80.31606	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW72E B001.8-A	SW 72 Street	25.702843, -80.320688	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW56W B002.9-A	SW 56 Street	25.717901, -80.316197	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW56E B002.8-A	SW 56 Street	25.717589, -80.320821	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW40W B003.9-A	SW 40 Street	25.733132, -80.316451	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW40E B003.9-A	SW 40 Street	25.732959, -80.322574	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW24W B004.9-A	SW 24 Street	25.748165, -80.31525	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW24E B004.9-A	SW 24 Street	25.74791, -80.324901	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW8W B005.8-A	SW 8 Street	25.762807, -80.314002	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOTSW8EB 005.8-A	SW 8 Street	25.762211, -80.324728	<ul style="list-style-type: none"> <li>• Remove existing DMS and cabinet</li> <li>• Install one new arterial DMS and cabinet (ground mounted)</li> </ul>

SunGuide® ID	Corridor	Geographic Coordinates	Work Description
DMS FLD6DOTNW36 WB008.9-A	NW 36 Street	25.809462, -80.317052	<ul style="list-style-type: none"> <li>Remove existing DMS and cabinet</li> <li>Install one new arterial DMS and cabinet (ground mounted)</li> </ul>
DMS 17	SR 826	25.925459, -80.284199	<ul style="list-style-type: none"> <li>Remove existing DMS and cabinet</li> <li>Install one new freeway DMS and cabinet (ground mounted)</li> <li>Install new DMS confirmation CCTV camera and associated infrastructure</li> </ul>
DMS FLD6DOT826NB0 01.3-LL	SR 826	25.694666, -80.317101	<ul style="list-style-type: none"> <li>Remove existing DMS and cabinet</li> <li>Install one new freeway DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOT826NB0 04.8-LL	SR 826	25.747211, -80.319806	<ul style="list-style-type: none"> <li>Remove existing DMS and cabinet</li> <li>Install one new freeway DMS and cabinet (ground mounted)</li> </ul>
DMS FLD6DOT826SB0 08.8-LL	SR 826	25.807967, -80.321433	<ul style="list-style-type: none"> <li>Remove existing DMS and cabinet</li> <li>Install one new freeway DMS and cabinet (ground mounted)</li> </ul>

The Design-Build Firm shall integrate the Project components for operations from the Department's SunGuide® TMC located at 1001 NW 111 Avenue, Miami FL 33172. All Project equipment shall be new and listed on the Department's Approved Products List (APL).

The Design-Build Firm shall coordinate with the Department and Project CEI prior to disposal of any equipment to allow the Department to salvage existing ITS infrastructure as spare parts. The Department shall have the first right of refusal to salvage any existing ITS infrastructure. The Design-Build Firm shall be responsible for the disposal of any equipment not deemed required by the Department.

It is the intent to always preserve existing vegetation including trees and palms that do not conflict with proposed improvements. Tree and palm protection shall comply with FDOT Standard Plans for Road and Bridge Construction (Standard Plans), Index 110-100.

The intent of this Project is to replace, repair or rehabilitate all deficiencies noted in the RFP within the Project limits such that maintenance work required upon Final Acceptance is limited to routine work.

#### **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 coordinate all utility relocations.

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 reviewing the approved Type 1 Categorical Exclusion Checklist for the Project and for complying with all Project commitments during construction, as identified in Section VE.

The Design-Build Firm is responsible for coordinating with the District Environmental Office any environmental engineering information related to the Project. The Design-Build Firm will not be compensated for any additional costs or time associated with environmental evaluation(s) resulting from proposed design.

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 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 or SEIR Reevaluations. For federal projects, NEPA Reevaluations will be processed by the Department's EMO Office for approval by OEM pursuant to 23 U.S.C. §327 and a Memorandum of Understanding dated December 14, 2016 and executed by the FHWA and the Department.

## **II. Schedule of Events**

Below is the current schedule of the remaining events that will take place in the selection 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.

Date	Event
3/8/2021	Planned Advertisement
3/22/2021	Official Advertisement
3/29/2021	Mandatory Pre-Proposal Meeting at 10:00 a.m. local time. All Utility Agency/Owners that the Department contemplates an adjustment, protection, or relocation is possible are to be invited to the Mandatory Pre-Proposal Meeting.
5/14/2021	Deadline for submittal of questions, for which a response is assured, prior to the submission of the Technical and Bid Price Proposals. All questions shall be submitted to the Pre-Bid Q&A website.
5/19/2021	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 Proposal.
5/24/2021	Technical Proposals and Price Proposals due in District Office by 10:00 a.m. local time.
5/24/2021	Public announcing of Price Proposals at 11:00 a.m. local time.
5/27/2021	Public Meeting of Technical Review Committee to determine Responsiveness of Technical Proposal(s) at 2:00 p.m. local time.
6/1/2021	Public Meeting Date of Selection Committee to determine intended Award at 10:00 a.m. local time.
6/1/2021	Final Selection Posting Date
6/14/2021	Anticipated Award Date
6/21/2021	Design-Build Firm executes the Contract
6/28/2021	Anticipated Execution Date

All public meetings for the subject Advertisement will be conducted via teleconference/GoToMeeting, at the dates/times (Eastern Standard Time) noted in the Schedule above. Members of the public shall email: [D6.DesignBuild@dot.state.fl.us](mailto:D6.DesignBuild@dot.state.fl.us) at least 24 hours in advance of the subject meeting, to obtain the teleconference number and GoToMeeting Access Code to join the meeting.

### 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, F.A.C. 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 Proposals.

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. The Joint Venture shall provide an Affirmative Action Plan specifically for the Joint Venture.

### **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 Proposer failing to attend will be deemed non-responsive and eliminated 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, 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 Projects of Division Interests (PoDIs), 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://fdotwp1.dot.state.fl.us/BidQuestionsAndAnswers/>

Failure by a Proposer to attend or be represented at the pre-proposal meeting will constitute a non-responsive determination of their bid package. Bids found to be non-responsive will not be considered. All Proposers must be present and signed in prior to the start of the mandatory pre-proposal meeting. The convener of the meeting will circulate the attendee sign in sheet at the time the meeting was advertised to begin. Once all Proposers have signed, the sign in sheet will be taken and the meeting will "officially" begin. Any Proposer not signed in at the "official" start of the meeting will be considered late and will not be allowed to propose on the Project.

During and after the meeting, it is the responsibility of the Project Manager/Contracting Unit to ensure that each Proposer develops their Technical Proposal with the same information. If a Proposer receives information from the Department relating to the Project, the Department will ensure that all Proposers receive the same information in a timely fashion. The Project file will clearly document all communications with any Firm regarding the design and construction criteria by the Contracting Unit or the Project Manager.

### **E. Question and Answer**

The Design-Build Firm shall submit questions to the Departments Q&A website in accordance with section 2-4 of the Division I Design-Build Specifications.

### **F. 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, F.A.C., 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 10 days after the filing of the notice of protest. The formal written protest shall be filed within 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.

#### **G. 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 Department of Labor's System for Award Management (SAM) list.

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.

Any proposal submitted by a Proposer that did not sign-in at the mandatory pre-proposal meeting will be non-responsive.

#### **H. 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.
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 Design Concept 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.

#### **I. Modification or Withdrawal of Proposal**

Proposers may modify or withdraw previously submitted Proposals at any time prior to the Proposal due date. Requests for modification or withdrawal of a submitted Proposal shall be in writing and shall be signed in the same manner as the Proposal. Upon receipt and acceptance of such a request, the entire 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 Proposal provided the change is submitted prior to the Proposal due date.

#### **J. 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.

#### **K. Design-Build Contract**

The Department will enter into a Lump Sum contract with the successful Design-Build Firm. In accordance with Section V, 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, race-neutral DBE goal. This means that the State's goal is to spend a portion 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 overall goal can be achieved through the normal competitive procurement process. The Department has reviewed this Project and assigned a DBE availability goal shown in the Project Advertisement on the bid blank/contract front page under "% DBE Availability Goal". The Department has determined 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 overall 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, as well as actual dollars paid to DBE's. This information is being collected through the Department's Equal Opportunity Compliance (EOC) system. Additional requirements of the Design-Build Firm may be found in Chapter 2 of the FDOT Equal Opportunity Construction Contract Compliance Manual.

##### **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 DBE Supportive Services Provider for the State of Florida can be found in the Equal Opportunity website at: <http://www.fdot.gov/equalopportunity/serviceproviders.shtm>

##### **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 entered into the Equal Opportunity Compliance System within 3 business days of submission of the bid or proposal.

## **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), and FDOT Standard Plans with applicable Interim Revisions. 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, FDOT Standard Plans and applicable Interim Revisions 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 Design Manual (FDM)  
<http://www.fdot.gov/roadway/FDM/>
2. Florida Department of Transportation Specifications Package Preparation Procedure  
<http://www.fdot.gov/programmanagement/PackagePreparation/Handbooks/630-010-005.pdf>
3. Florida Department of Transportation Standard Plans for Road and Bridge Construction  
<http://www.fdot.gov/design/standardplans/>
4. Standard Plans Instructions (Refer to Part I, Chapter 115, FDM)  
<http://www.fdot.gov/roadway/FDM/>
5. Florida Department of Transportation Standard Specifications for Road and Bridge Construction (Divisions II & III), Special Provisions and Supplemental Specifications  
<http://www.fdot.gov/programmanagement/default.shtm>
6. Florida Department of Transportation Surveying Procedure 550-030-101  
<http://fdotwp1.dot.state.fl.us/ProceduresInformationManagementSystemInternet/FormsAndProcedures/ViewDocument?topicNum=550-030-101>
7. Florida Department of Transportation EFB User Handbook (Electronic Field Book)  
[http://www.fdot.gov/geospatial/doc\\_pubs.shtm](http://www.fdot.gov/geospatial/doc_pubs.shtm)
8. Florida Department of Transportation Drainage Manual  
<http://www.fdot.gov/roadway/Drainage/ManualsandHandbooks.shtm>
9. Florida Department of Transportation Soils and Foundations Handbook  
<http://www.fdot.gov/structures/Manuals/SFH.pdf>
10. Florida Department of Transportation Structures Manual  
<http://www.fdot.gov/structures/DocsandPubs.shtm>

11. Florida Department of Transportation Computer Aided Design and Drafting (CADD) Manual  
<http://www.fdot.gov/cadd/downloads/publications/CADDManual/default.shtm>
12. 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)
13. MUTCD - 2009  
<http://mutcd.fhwa.dot.gov/>
14. Safe Mobility For Life Program Policy Statement  
<http://www.fdot.gov/traffic/TrafficServices/PDFs/000-750-001.pdf>
15. Traffic Engineering and Operations Safe Mobility for Life Program  
<http://www.fdot.gov/traffic/TrafficServices/SafetyisGolden.shtm/>
16. Florida Department of Transportation American with Disabilities Act (ADA) Compliance – Facilities Access for Persons with Disabilities Procedure 625-020-015  
<https://fdotwp1.dot.state.fl.us/ProceduresInformationManagementSystemInternet/?viewBy=0&procType=pr>
17. Florida Department of Transportation Florida Sampling and Testing Methods  
<http://www.fdot.gov/materials/administration/resources/library/publications/fstm/disclaimer.shtm>
18. Florida Department of Transportation Flexible Pavement Coring and Evaluation Procedure  
<http://www.fdot.gov/materials/administration/resources/library/publications/materialsmanual/documents/v1-section32-clean.pdf>
19. Florida Department of Transportation Design Bulletins and Update Memos  
<http://www.fdot.gov/roadway/Bulletin/Default.shtm>
20. Florida Department of Transportation Utility Accommodation Manual  
[https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/programmanagement/utilities/docs/uam/uam2017.pdf?sfvrsn=d97fd3dd\\_0](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/programmanagement/utilities/docs/uam/uam2017.pdf?sfvrsn=d97fd3dd_0)
21. AASHTO LRFD Bridge Design Specifications  
[https://bookstore.transportation.org/category\\_item.aspx?id=BR](https://bookstore.transportation.org/category_item.aspx?id=BR)
22. Florida Department of Transportation Flexible Pavement Design Manual  
<http://www.fdot.gov/roadway/PM/publicationS.shtm>
23. Florida Department of Transportation Rigid Pavement Design Manual  
<http://www.fdot.gov/roadway/PM/publicationS.shtm>
24. Florida Department of Transportation Pavement Type Selection Manual  
<http://www.fdot.gov/roadway/PM/publicationS.shtm>
25. Florida Department of Transportation Right of Way Manual  
<http://www.fdot.gov/rightofway/Documents.shtm>
26. Florida Department of Transportation Traffic Engineering Manual  
<http://www.fdot.gov/traffic/TrafficServices/Studies/TEM/tem.shtm>
27. Florida Department of Transportation Intelligent Transportation System Guide Book  
[http://www.fdot.gov/traffic/Doc\\_Library/Doc\\_Library.shtm](http://www.fdot.gov/traffic/Doc_Library/Doc_Library.shtm)
28. 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>
29. 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)
  30. 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)
  31. Florida Department of Transportation Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways  
<http://www.fdot.gov/roadway/FloridaGreenbook/FGB.shtm>
  32. Florida Department of Transportation Project Development and Environment Manual, Parts 1 and 2  
<http://www.fdot.gov/environment/pubs/pdeman/pdeman1.shtm>
  33. Florida Department of Transportation Driveway Information Guide  
<http://www.fdot.gov/planning/systems/programs/sm/accman/pdfs/driveway2008.pdf>
  34. AASHTO Highway Safety Manual  
<http://www.highwaysafetymanual.org/>
  35. Florida Statutes  
<http://www.leg.state.fl.us/Statutes/index.cfm?Mode=View%20Statutes&Submenu=1&Tab=statutes&CFID=14677574&CFTOKEN=80981948>
  36. Florida Department of Transportation Equal Opportunity Construction Contract Compliance Manual  
<http://www.fdot.gov/equalopportunity/contractcomplianceworkbook.shtm>
  37. National Electrical Code (NEC)  
<https://www.nfpa.org/codes-and-standards/>

## **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.

## **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: N/A**

**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:**

If required, the Design-Build Firm shall be responsible for obtaining all permits or 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. At a minimum, a permit with Miami-Dade County for construction of DMS 45 is anticipated.

All applicable data shall be prepared in accordance with Chapter 373 and 403, Florida Statutes, Chapters 40 and 62, F.A.C.; 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 dredge and fill permitting required by local agencies 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 (electronic and hard 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 and public notice fees. Any fines levied by permitting agencies shall be the responsibility of the Design-Build Firm. The Design-Build Firm shall be responsible for complying with all permit conditions.

The Department is responsible for providing mitigation of all wetland impacts identified in the following documents. If any design modifications the Design-Build Firm propose to increase the amount of wetland impacts such that mitigation is required, the Design-Build Firm shall be responsible for providing the Department information on the amount and type of wetland impacts as soon as the impacts are identified (including temporary impacts and/or any anticipated impacts due to construction staging or construction methods). Prior to submitting a permit modification to a regulatory agency, the Design-Build Firm shall

provide the Department a draft of all supporting information. The Department will have up to 15 calendar days (excluding weekends and Department observed holidays) to review and comment on the draft permit application package. The Design-Build Firm will address all comments by the Department and obtain Department approval, prior to submittal of the draft permit application package. The Design-Build Firm shall be solely responsible for all time and costs associated with providing the required information to the Department, as well as the time required by the Department to perform its review of the permit application package, prior to submittal of the permit application(s) by the Design-Build Firm to the regulatory agency(ies).

Any additional mitigation required due to design modifications proposed by the Design-Build Firm shall be the responsibility of the Design-Build Firm and shall be satisfied through the purchase of mitigation bank credits. The Design-Build Firm shall purchase credits directly from a permitted mitigation bank. In the event that permitted mitigation credits are unavailable or insufficient to meet the project needs, the Design-Build Firm will be responsible for providing alternative mitigation consistent with the provisions of section 373.4137, Florida Statutes, and acceptable to the permitting agency(ies). The Design-Build Firm shall be solely responsible for all costs associated with 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: N/A**

**G. Survey**

The Design-Build Firm shall coordinate with the Department and obtain the most current survey and mapping information applicable to the Project from the Department, including Right of Way information. Any survey information obtained from the Department is for the Design-Build's reference only. The Design-Build Firm shall verify the accuracy of the information obtained from the Department and develop their plans based on their verification of existing conditions. For locations where existing survey and mapping information is not available, the Design-Build Firm shall perform all surveying (Terrestrial, Mobile and/or Aerial) and mapping services necessary to complete the Project. Survey services must also comply with all pertinent Florida Statutes (Chapters 177 and 472, F.S.) and applicable rules in the Florida Administrative Code (Rule Chapter 5J-17, F.A.C.). 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 and Mapping Procedure, Topic Nos. 550-030-101, and the Surveying and Mapping Handbook.

The Design-Build Firm shall provide final Right of Way maps unless the Department determines it is not needed. These maps and any associated sketches, legal descriptions and all associated necessary

documentation, field data collection and any other supporting documentation shall be included as part of the Construction Set of plans submitted by the Design Build Firm. The Project shall be constructed and operated entirely within the existing Department Right of Way. Should a permit be needed, the Design-Build Firm shall be responsible for obtaining all permits for the Project as necessary. Such permits must be granted to the Department. The Design-Build Firm shall be responsible for all costs associated with developing the necessary documentation for the permit process approval.

## **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. Component Submittals:**

The Design-Build Firm may submit components of the contract plans set instead of submitting the entire contract plan set; however, sufficient information from other components must be provided to allow for a complete review. In accordance with the FDOT Design Manual, components of the contract plans set are roadway, signing and pavement marking, ITS, lighting, and structural. The Department will designate in the review comments if the next submittal will be a resubmittal of the 90% phase submittal or if the plans and supporting calculations are significantly developed to proceed to the Final Submittal.

The Design-Build Firm may divide the Project into separate areas and submit components for each area; however, sufficient information on adjoining areas must be provided to allow for a complete review.

### **2. Phase Submittals:**

The Design-Build Firm shall provide the documents for each phase submittal listed below to the Department's Project Manager. The particular phase shall be clearly indicated on the documents. The Department's Project Manager will send the documents to the appropriate office for review and comment. Once all comments requiring a response from the Design-Build Firm have been satisfactorily resolved as determined by the Department, the Department's Project Manager will initial, date and stamp the signed and sealed plans and specifications as "Released for Construction".

#### **90% Phase Submittal**

- 4 copies of 11" X 17" plans (all required components)
- 4 copies of signed and sealed geotechnical report
- 1 copy of Settlement and Vibration Monitoring Plan (SVMP) for Department acceptance and update throughout the construction period
- 2 copies of design documentation

4 copies of Technical Special Provisions

All of the information above shall be submitted electronically in .pdf format.

All QC plans and documentation for each component submittal shall be electronic in .pdf format.

The Department will designate in the review comments if the next submittal will be a resubmittal of the 90% phase submittal or if the plans and supporting calculations are significantly developed to proceed to the Final Submittal. If the Department requires more than 2 resubmittals a submittal workshop between the Department and the Design-Build Firm must be held to resolve any outstanding issues or comments.

### **Final Submittal**

2 sets of signed and sealed 11" X 17" plans (all required documents)

2 copies of signed and sealed 11" X 17" plans

2 sets of signed and sealed design documentation

2 copies of signed and sealed design documentation

1 copy of Settlement and Vibration Monitoring Plan (SVMP)

1 set of final documentation

1 signed and sealed copy of Construction Specifications Package or Supplemental Specifications Package

2 copies of signed and sealed Construction Specifications Package or Supplemental Specifications Package

1 electronic copy of Technical Special Provisions in .pdf format

All of the information above shall be submitted electronically in .pdf format.

All QC plans and documentation for each component submittal shall be electronic in .pdf format.

The Design-Build Firm shall provide a list of all changes made to the plans or specifications that were not directly related to the 90% plans review comments. Significant changes (as determined by the Department) made as a part of the Final submittal, that were not reviewed or provided in response to the 90% submittal comments, may require an additional review phase prior to stamping the plans or specifications "Released for Construction." The Design-Build Firm shall provide a signed certification that all Electronic Review Comments (ERC) have been resolved to the Department's satisfaction as a requirement before obtaining "Released for Construction" plans.

### **3. Requirements to Begin Construction:**

The Department's indication that the signed and sealed plans and specifications are "Released for Construction" authorizes the Design Build Firm to proceed with construction based on the contract plans and specifications. The Department's review of submittals and subsequent Release for Construction is to assure that the Design-Build Firm's EOR has approved and signed the submittal, the submittal has been independently reviewed and is in general conformance with the contract documents. The Department's review is not meant to be a complete and detailed review. No failure by the Department in discovering details in the submittal that are released for construction and subsequently found not to be in compliance with the requirements of the contract shall constitute a basis for the Design-Build Firm's entitlement to additional monetary compensation, time, or other adjustments to the contract. The Design-Build Firm shall

cause the Engineer of Record to resolve the items not in compliance with the contract, errors or omissions at no additional cost to the Department and all revisions are subject to the Department's approval.

Design-Build Firm may choose to begin construction prior to completion of the Phase Submittals and the Department stamping the plans and specifications Released for Construction except for DMS construction. To begin construction the Design-Build Firm shall submit signed and sealed plans for the specific activity; submit a signed and sealed Construction Specifications Package or Supplemental Specifications Package; obtain regulatory permits as required for the specific activity; obtain utility agreements and permits, if applicable; and provide five (5) days notice before starting the specific activity. The plans to begin construction may be in any format including report with details, 8 1/2" X 11" sheets, or 11" X 17" sheets, and only the information needed by the Design-Build Firm to construct the specific activity needs to be shown. Beginning construction prior to the Department stamping the plans and specifications Released for Construction does not reduce or eliminate the Phase Submittal requirements.

#### **As-Built Set:**

The Design-Build Firm's Professional Engineer in responsible charge of the Project's design shall professionally endorse (sign, seal, and certify) the As-Built Plans, the special provisions and all reference and support documents. The professional endorsement shall be performed in accordance with the FDOT Design Manual.

Design-Build Firm shall complete the As-Built Plans as the Project is being constructed. All changes made subsequent to the "Released for Construction" Plans shall be signed/sealed by the EOR. The As-Built Plans shall reflect all changes initiated by the Design-Build Firm or the Department in the form of revisions. The As-Built Plans shall be submitted prior to Project completion for Department review and acceptance as a condition precedent to the Departments issuance of Final Acceptance.

The Department shall review, certify, and accept the As-Built Plans prior to issuing Final Acceptance of the project in order to complete the As-Built Plans.

The Department shall accept the As-Built Plans and related documents when in compliance with Design Build Division I Specification 7-2.3, As-Built Drawings and Certified Surveys, and the As-Built Requirements.

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

- 1 set of 11" X 17" signed and sealed As-Built plans, drawings and Certified Surveys
- 3 sets of 11 "X 17" copy of the signed and sealed As-Built plans, drawings and Certified Surveys (including as-built channel survey)
- 3 sets of final documentation (if different from final component submittal)
- 1 set of survey information, including electronic files and field books
- CADD Files
- 1 Final Project submittal containing the information above shall be electronic in .pdf format

#### **4. 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.

- *Shop Drawings*
- *Transition Plan*
- *Testing Documentation*
- *Training Plan*
- *Project Documentation and Warranty*

**5. Railroad Submittals: N/A**

**J. Contract Duration**

The Department has established a Contract Duration of 720 calendar days for the subject 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 2 structures submittals. The review of Category 2 structures submittals requires Central Office involvement and the Schedule shall allow 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.

At the time of the RFP development, the following Special Events have been identified in accordance with Specification 8-6.4:

- Miami International Boat Show:  
<http://www.miamiboatshow.com/>
- Ultra Music Festival:  
<http://www.ultramusicfestival.com/>
- American Airlines Arena Events:  
<http://www.aaarena.com/events>
- Critical Mass:  
<http://www.themiamibikescene.com/p/miami-critical-mass-guidelines.html>

The Design-Build Firm shall coordinate and confirm these and any other event dates with the responsible local government agency and Department as they build their schedule.

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
- Design Submittals
- Shop Drawing Submittals
- Other Contractor-Initiated Submittals including RFI's, RFM's, RFC's, and NCR's
- Design Survey
- Submittal Reviews by the Department
- Design Review / Acceptance Milestones

- Materials Quality Tracking
- Geotechnical Investigation
- Start of Construction
- Clearing and Grubbing
- Construction Mobilization
- Foundation Design
- Foundation Construction
- Roadway Design
- Roadway Construction
- Signing and Pavement Marking Design
- Signing and Pavement Marking Construction
- Intelligent Transportation System Design
- Intelligent Transportation System Construction
- Lighting Design
- Lighting Construction
- Maintenance of Traffic Design
- Permit Submittals
- Maintenance of Traffic Set-Up (per duration)
- Erosion Control
- Holidays and Special Events (shown as non-work days)
- Shop Drawings
- Material Procurement
- Integration and Testing
- Training
- Project Documentation and Warranty
- Final Acceptance
- 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 Technical Proposal by the Design-Build Firm. In the event a change in key personnel is requested, the Design-Build Firm shall submit the qualifications of the proposed key personnel and include the reason for the proposed change. Any changes in the indicated personnel shall be subject to review and approval by the District Construction Engineer. The Department shall have sole discretion in determining whether or not the proposed substitutions in key personnel are comparable to the key personnel identified in the Technical Proposal. The Design-Build Firm shall have available professional staff meeting the minimum training and experience set forth in Florida Statute Chapter 455.

**M. Partner/Teaming Arrangement**

Partner/Teaming Arrangements of the Design-Build Firm (i.e., Prime Contractor or Lead Design Firm) cannot be changed after submittal of the Technical Proposal without written consent of the Department. In the event a change in the Partner/Teaming Arrangement is requested, the Design-Build Firm shall submit the reason for the proposed change. Any changes in the Partner/Teaming Arrangement shall be subject to review and approval by the Department's Chief Engineer. The Department shall have sole discretion in



determining whether or not the proposed substitutions in Partner/Teaming Arrangements are comparable to the Partner/Teaming Arrangements identified in the Technical Proposal.

#### **N. 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:

- Department technical issue resolution
- Local government agency coordination
- Maintenance of Traffic Workshop
- Permit agency coordination
- Scoping Meetings
- System Integration Meetings
- Pre-Construction Meetings
- Progress Meetings
- Utility Coordination Meetings
- Comment Resolution Meetings
- Adjacent Projects Coordination Meetings
- Design Meetings
- Pre-Activity Meetings

During design, the Design-Build Firm shall meet with the Department's Project Manager on a monthly basis at a minimum and provide a two-week look ahead of the activities to be completed during the upcoming two weeks.

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

The Design-Build Firm shall meet with the Department's Project Manager at least thirty (30) calendar days before beginning system integration activities. The purpose of these meetings shall be to verify the Design-Build Firm's ITS integration plans by reviewing site survey information, proposed splicing diagrams, IP addressing schemes, troubleshooting issues, and other design issues. In addition, at these meetings the Design-Build Firm shall identify any concerns regarding the Integration and provide detailed information on how such concerns will be addressed and/or minimized.

The Design-Build Firm shall provide all documentation required to support system integration meetings, including detailed functional narrative text, system and subsystem drawings and schematics. Also included shall be the documentation to demonstrate all elements of the proposed design which includes, but is not limited to: technical, functional, and operational requirements; ITS/communications; equipment; termination/patch panels; performance criteria; and details relating to interfaces to other ITS subsystems.

System Integration Meetings will be held on mutually agreeable dates.

All action items resulting from the System Integration Meeting shall be satisfactorily addressed by the Design-Build Firm and reviewed and approved by the Department.

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.

**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. A marked up set of prints from the Quality Control review will be sent in 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.

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

**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 State Materials Office website for instructions on gaining access to the Department's databases: <http://www.fdot.gov/materials/quality/programs/qualitycontrol/contractor.shtm>

Prepare and submit to the Engineer a Job Guide Schedule (JGS) using the Department database 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. 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.

**Q. Engineers Field Office: N/A**

**R. Schedule of Values**

The Design-Build Firm is responsible for submitting estimates requesting payment. Estimates requesting payment will be based on the completion or percentage of completion of 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. The Design-Build Firm must submit the schedule of values to the Department for approval. No estimates requesting payment shall be submitted prior to Department approval of the schedule of values.

Upon receipt of the estimates requesting payment, 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.

**S. 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 policies and procedures. The Department supports MicroStation and GEOPAK as its standard graphics and roadway design platform as well as Autodesk's AutoCAD Civil 3D as an alternate platform. Seed Files, Cell Libraries, User Commands, MDL Applications and related programs developed for roadway design and drafting are available in the FDOT CADD Software Suite. Furnish As-Built documents for all building related components of the project in AutoCAD format. It is the responsibility of the Design-Build Firm to obtain and utilize current Department releases of all CADD applications.

The Design-Build Firm will be required to furnish the Project's CADD files after the plans have been Released for Construction. 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 and/or AutoCAD design files format.

As part of the As-Built Set deliverables, field conditions shall be incorporated into MicroStation and/or AutoCAD design files. Use the cloud revision utility as well as an "AB" revision triangle to denote field conditions on plan sheets.

**T. 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.

**U. 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.

#### **V. 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:

- Any 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.

#### **W. Adjoining Construction Projects**

The Design-Build Firm shall be responsible for coordinating all design, permitting, and construction activities with other construction Projects that are impacted by or impact this Project. This includes Projects under the jurisdiction of local governments, the Department, other regional and state agencies, or private entities.

The Design-Build Firm shall consider and include in the Construction Plans and Bid Price Proposal, any and all temporary detours or diversions required to facilitate traffic movements into and out of the project limits; notwithstanding the alignment, lane positioning and/or grade differences of traffic conditions on those adjacent projects. The Design-Build Firm shall coordinate with the Department and local agencies for construction projects during the Project duration within and adjacent to the Project limits. The Design-Build Firm shall also coordinate with the Department for the Roadway improvements Project on SR5/US 1, Financial Project Identification (FPID) 443916-1, and the Miami-Dade County's South Dade Transitway Corridor Project, in order to identify and minimize impacts.

#### **X. Issue Escalation**

In the event issues arise during prosecution of the work, the resolution of those issues will be processed as described below unless revised by a Project specific Partnering Agreement:

The escalation process begins with the Construction Project Manager. All issues are to be directed to the Construction Project Manager. If the issue cannot be resolved by the Construction Project Manager in coordination with the Resident Engineer and Design Project Manager as applicable, the Construction Project Manager shall forward the issue to the District Construction Engineer who will coordinate with the District Design Engineer, and the District Utility Administrator, as applicable. Each level shall have a maximum of five (5) calendar days (excluding weekends and Department observed holidays) to answer, resolve, or address the issue. The Design-Build Firm shall provide all supporting documentation relative to the issue being escalated. The five (5) calendar day period (excluding weekends and Department observed holidays) begins when each level in the issue escalation process has received all required supporting documentation necessary to arrive at an informed and complete decision. The five (5) calendar day period (excluding weekends and Department observed holidays) is a response time and does not infer resolution. Questions asked by the Department may be expressed verbally and followed up in writing within one (1) calendar day (excluding weekends and Department observed holidays). Responses provided by the Design-Build Firm may be expressed verbally and followed up in writing within one (1) working day. Once a response is received from the District Construction Engineer, the Construction Project Manager will respond to the Design-Build Firm in a timely manner but not to exceed three (3) calendar days (excluding

weekends and Department observed holidays).

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.

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

### **A. General**

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

### **B. Vibration and Settlement Monitoring**

The Department has identified that the Design-Build Firm's work may encounter vibration sensitive sites along the Project sites depending on the final location of the ITS devices in the Project per the Design-Build Firm's final design. The Design-Build Firm shall be responsible for the identification of and coordination with vibration sensitive sites impacted by the Work for the duration of the construction period.

The Design-Build Firm is responsible for evaluating the need for, design of, and the provision of any necessary precautionary features to protect existing structures from damage, including, at a minimum, selecting construction methods and procedures that will prevent damage. The Design-Build Firm shall submit for Department acceptance a Settlement and Vibration Monitoring Plan (SVMP) as part of the 90% plans submittal and update the SVMP throughout the Construction Period. The Design-Build Firm is responsible for establishing maximum settlement and vibration thresholds equivalent to or lower than the Department Specification requirements for all construction activities, including vibratory compaction operations and excavations.

Submittals for Settlement and Vibration Monitoring Plan (SVMP) shall include the following as a minimum:

- Identify any existing structures that will be monitored for vibrations during the construction period.
- Establish the maximum vibration levels for the existing structures that shall not be exceeded.
- Identify any existing structures that will be monitored for settlement during the construction period.
- Establish the maximum settlement levels for the existing structures that must not be exceeded.
- Identify any existing structures that require pre-construction and post-construction surveys.

The Department will perform the review of Vibration and Settlement submittals in accordance with Department Specifications.

### **C. Geotechnical Services**

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

The Design-Build Firm shall design and construct the drilled shaft foundations in accordance with the Department's criteria, and 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. Determining the locations of the load test shafts and the types of tests that will be performed.
4. 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.
5. Preparing and submitting a Drilled Shaft Installation Plan for the Department's acceptance.
6. Constructing the method shaft (test hole) and load test shafts successfully and conducting thermal integrity tests on these shafts.
7. Providing all personnel and equipment to perform a load test program on the load test shafts.
8. Determining the production shaft lengths.
9. Documenting and providing a report that includes all load test shaft data, analysis, and recommendations to the Department.
10. Constructing all drilled shafts to the required tip elevation and socket requirement in accordance with the specifications.
11. Inspecting and documenting the construction of all drilled shafts in accordance with the specifications.
12. For drilled shafts for miscellaneous structures, perform CSL or Thermal Integrity testing on any shaft suspected of containing defects.
13. Repairing all detected defects and conducting post repair integrity testing using 3D tomographic imaging and gamma-gamma density logging.
14. Submitting Foundation Certification Packages in accordance with the specifications.
15. 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 geotechnical conditions and designing the spread footing.
2. 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.
3. Inspecting and documenting the spread footing construction.
4. Submitting Foundation Certification Packages in accordance with the specifications.
5. Providing safe access, and cooperating with the Department in verification of the spread footing, both during construction and after submittal of the certification package.

#### **D. 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 (UCM). 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 and conducting 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, preparing, reviewing and facilitating any agreement required for any utility work needed through final approval and execution. The UCM shall also be responsible for monitoring and reporting the performance of all involved parties under said agreement.
7. Preparing, reviewing, approving, signing, coordinating the implementation of and submitting to the Department for review, all Utility Agreements.
8. Resolving utility conflicts.
9. Obtaining and maintaining all appropriate "*Sunshine State One Call of Florida*" 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. Coordination with the Department on any issues that arise concerning reimbursement of utility work costs between the Department and the utility.

The following Utility Agency/Owners (UA/O's) have been identified by the Department in Table 2 as having facilities within the Project corridor.

Table 2 - Summary of UAO having facilities within the Proposed Project Limits

<b>UAO</b>	<b>Contact Information</b>
Lumen Technologies	Francisco Azuri 786-266-1713 francisco.azuri@Lumen.com
Teleport Communications America LLC - Affiliate of AT&T Corp.	Mark Ayo 954-235-2754 ma1829@att.com
Florida City Gas	Elio A. Bustos 305-853-3618 786-810-8159 Elio.Bustos@nexteraenergy.com
Hotwire Communications	Walter Sancho-Davila 954-699-0900 954-248-7396 walter.sancho-davila@hotmailcommunication.com
Comcast	Michael Connell 754-221-1304 Michael_Connell@comcast.com
Crown Castle	Danny Haskett 786-610-7073 Danny.Haskett@crowncastle.com
Verizon Wireless	Juan Haber 786-224-8576 Juan.Haberi@verizon.com
AT&T Transmission	Craig Petrie 407-578-8000 Ext:10 cpetrie@pea-inc.net
Miami-Dade County Information Technology Department (ITD)	Frank L. Dopico 305-275-7813 Frank.Dopico@miamidade.gov
Florida Power & Light (FP&L) Distribution	Angel Vargas 305-442-5129 angel.vargas@fpl.com

No utility relocation, adjustment and protection work is anticipated on the Project.

Two full business days before digging, the Design-Build Firm shall call Sunshine 811 and the Utility Owner and request utility locations. The Design-Build Firm's representative shall be present when utility companies locate their facilities.



Two full business days before digging, the Design-Build Firm shall notify the Department and call the District Maintenance office, telephone number (305) 640-7160 and request lighting conduit locations.

**E. 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, Temporary Traffic Control Plans, Environmental Permits and other necessary documents.

**Design Analysis:**

Any deviation from the Department's design criteria will require a Design Variation and any deviation from AASHTO will require a Design Exception. If a Design-Build Firm requests a Design Variation or Design Exception, it must be discussed prior to the submission of the Proposal. All such Design Variations and Design Exceptions must be approved or disapproved prior to the submission of the Proposal. Design Exceptions will be disclosed to all the Design-Build Firms via an Addendum.

Existing Project DMS locations may have pre-existing conditions that require Design Variations to meet the current standards. Depending on the Project's final design, if the Design-Build Firm determines that a Design Variation is needed, a Design Variation package shall be submitted to the Department for review and approval. At a minimum, the following Project DMS locations are expected to require a Design Variation if the Design-Build Firm is able to reuse the existing structure based on their structural analysis:

- DMS 4
- DMS FLD6DOTSW72WB001.8-A
- DMS FLD6DOTSW72EB001.8-A
- DMS FLD6DOTSW56WB002.9-A
- DMS FLD6DOTSW56EB002.8-A
- DMS FLD6DOTSW40WB003.9-A
- DMS FLD6DOTSW40EB003.9-A
- DMS FLD6DOTSW24WB004.9-A
- DMS FLD6DOTSW24EB004.9-A
- DMS FLD6DOTNW36WB008.9-A
- DMS 17

**F. Roadway Design: N/A**

**G. Geometric Design: N/A**

**H. Design Documentation, Calculations, and Computations**

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.

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. Standards Plans and criteria used for the Project
2. Structural, power and other ITS related elements
3. Documentation of decisions reached resulting from meetings, telephone conversations or site visits

## **I. Structure Plans**

The Design-Build Firm shall prepare and submit a component set of Structure Plans and structural calculations to the Department for review and approval.

### **DMS Structures**

Preliminary structural investigations have shown that the following existing DMS structures may be reused to accommodate the new DMS. A preliminary DMS Structure Evaluation report has been included with the RFP as a Reference Document. If reused by the Design-Build Firm, the Design-Build Firm shall be responsible for documenting that the existing DMS structures meet current Department Standards with or without the need for modifications.

- DMS 1
- DMS 4
- DMS FLD6DOTSW72WB001.8-A
- DMS FLD6DOTSW72EB001.8-A
- DMS FLD6DOTSW56WB002.9-A
- DMS FLD6DOTSW56EB002.8-A
- DMS FLD6DOTSW40WB003.9-A
- DMS FLD6DOTSW40EB003.9-A
- DMS FLD6DOTSW24WB004.9-A
- DMS FLD6DOTSW24EB004.9-A
- DMS FLD6DOTSW8WB005.8-A
- DMS FLD6DOTSW8EB005.8-A
- DMS FLD6DOTNW36WB008.9-A
- DMS 17
- DMS FLD6DOT826NB001.3-LL
- DMS FLD6DOT826NB004.8-LL
- DMS FLD6DOT826SB008.8-LL

For the remaining Project DMS sites, the Design-Build Firm shall remove the existing structures and install new structures to accommodate the new DMS, as noted in Table 3 below. The Design-Build Firm shall be responsible for documenting that the new DMS structures meet current Department Standards.

Table 3 - DMS Structure Requirements

<b>DMS ID</b>	<b>DMS Structure Requirements</b>
DMS 2	Span structure
DMS 3	Span structure
DMS 5	Span structure
DMS 6	Cantilever structure
DMS 8	Cantilever structure
DMS 9	Cantilever structure
DMS 10	Cantilever structure
DMS 45	Structure matching the configuration/form, the shape of structural components, and aesthetics, including any architectural elements of the existing structure.
DMS 46	Structure matching the configuration/form, the shape of structural components, and aesthetics, including any architectural elements of the existing structure.

For all Project DMS locations, the Design-Build Firm shall coordinate the mounting design and details with the selected DMS manufacturer.

1. **Structures 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 recommendations and reports required for structures design are submitted with the 90% Structures plans.

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 the Governing Regulations of Section V. A.

**J. Specifications**

Department Specifications may not be modified or revised. 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.

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, along with any approved Developmental Specifications and Technical Special Provisions, that are not part of this RFP. Any subsequent modifications to the Construction Specifications Package shall be prepared, signed and sealed as a Supplemental Specifications Package. The Specifications Package(s) 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/programmanagement/PackagePreparation/TrainingConsultants.aspx>

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

<https://fdotewp1.dot.state.fl.us/SpecificationsPackage/Utilities/Membership/login.aspx?ReturnUrl=%2fSpecificationsPackage%2fdefault.aspx>

Upon review and approval by the Department, the Construction Specifications Package will be stamped "Released for Construction" and initialed and dated by the Department.

#### **K. Shop Drawings**

The Design-Build Firm shall be responsible for the preparation and approval of Shop Drawings. Shop Drawings shall be in conformance with the FDM. When required to be submitted to the Department, Shop Drawings shall bear the stamp and signature of the Design-Build Firm's Engineer of Record (EOR), and Specialty Engineer as appropriate. All "Approved" and "Approved as Noted" Shop Drawings submitted to the Department for review shall also include Engineer of Record QA/QC Shop Drawing check prints along with the EOR stamped set(s). The Department shall review the Shop Drawing(s) to evaluate compliance with Project requirements and provide any findings to the Design-Build Firm. The Department's 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 Department's review is not meant to be a complete and detailed review. Upon review and approval of the Shop Drawing, the Department will initial, date, and stamp the drawing "Released for Construction" or "Released for Construction as Noted".

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.

#### **L. 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 Temporary Traffic Control Plan (TTCP) phases, i.e., number of different diversions and detours for a given traffic movement.
3. Take advantage of newly constructed portions of the permanent facility as soon as possible when it is in the best interest of traffic operations and construction activity.

4. 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.
5. Coordinate with adjacent construction Projects and maintaining agencies.

**M. 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.

**N. Transportation Management Plan**

The Design-Build Firm must develop a Transportation Management Plan in accordance with the Department's FDOT Design Manual.

**1. Traffic Control Restrictions:**

All lane closures, including ramp closures, must be reported to the local emergency agencies, the media and the District Six 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.

For Project locations along I-95 and SR 826, the following restrictions shall apply from Sunday to Thursday:

- Single lane closures are allowed from 10:00 PM to 5:00 AM
- Multiple lane closures in one direction are allowed from 11:00 PM to 5:00 AM
- Closure of all lanes in one direction allowed from 12:00 AM to 5:00 AM

For Project locations along I-95 and SR 826, the following restrictions shall apply from Friday to Saturday:

- Single lane closures are allowed from 10:00 PM to 8:00 AM
- Multiple lane closures in one direction are allowed from 11:00 PM to 8:00 AM
- Closure of all lanes in one direction allowed from 12:00 AM to 8:00 AM

For DMS 45 and 46 on US 1, the following restrictions shall apply:

- Single lane closures are allowed from 9:00 PM to 5:00 AM Sunday to Thursday
- Multiple lane closures in one direction are allowed from 10:00 PM to 5:00 AM Sunday to Thursday
- Closure of all lanes in one direction allowed between 12:00AM to 5:00AM
- Lane closure on weekends will not be allowed

For other Project locations, the following restrictions shall apply:

- Single lane closures are allowed from 10:00 PM to 5:00 AM
- Multiple lane closures in one direction are allowed from 11:00 PM to 5:00 AM

PACING OPERATIONS and DETOURS shall only be allowed within the aforementioned timeframes for lane closures.

Should the Design-Build Firm determine that Project work requiring lane closures, pacing operations, and/or detours needs to be performed outside of the aforementioned timeframes, the Design-Build Firm must submit a signed and sealed traffic analysis report to the Department for review and approval.

The Design-Build Firm shall submit all required lane closure information to the Department's Project Manager and the District Six MOT specialist for approval a minimum of fourteen (14) days in advance of the proposed lane closure via the District Six Lane Closure Information System (LCIS) ([www.fdotlcis.com](http://www.fdotlcis.com)). The list of anticipated special events is provided in this RFP. No lane closures shall be allowed on days of such special events. The Design-Build Firm shall coordinate all detours with the jurisdictional authority owning the detour facility at least fourteen days in advance, and comply with all their requirements.

The Design-Build Firm shall coordinate with, and seek approval from the SunGuide® TMC for the date and time of performing any lane and/or shoulder closure for this Project. The SunGuide® TMC may require the Design-Build Firm to reschedule the lane and/or shoulder closure as necessary to avoid special events as determined by the Department. The Design-Build Firm, through the Project CEI, shall provide a minimum of 72-hour notice to the SunGuide® TMC before performing any lane and/or shoulder closure. No lane and/or shoulder closure for this Project shall occur without approval from the District Six MOT specialist and the SunGuide® TMC. The SunGuide® TMC contact number is (305) 470-5830.

#### **O. 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 a time extension or additional compensation.

As the permittee, the Department is responsible for reviewing, approving, and signing the permit application package including all permit modifications, or subsequent permit applications.

Several potentially contaminated sites located within a 500-ft radius of the Project corridor have been identified. The Design-Build Firm shall notify the Department before applying for a Dewatering Permit from any environmental regulatory agency.

The Design-Build Firm shall note that one DMS structure along SR 90/SW 8th Street, east of SR 826/Palmetto Expressway is adjacent to a segment of roadway designated Calle Ocho State Historic Highway (SHH) per Chapter 86-308 of the Laws of Florida, and two DMS structures along SW 72nd Street are adjacent to a segment of roadway designated Sunset Drive SHH per Chapter 83-365 of the Laws of Florida. Per the SHH memos included as Attachments to this RFP, the Department has determined the Project improvements are provided for in the laws. If substantial changes to the work at these locations are proposed, the Design-Build Firm shall notify the Environmental Office to determine if an update to the memos or additional coordination under the SHH laws is required.

The Design-Build Firm is responsible for adhering to the requirements of the Type 1 Categorical Exclusion Checklist included in the Reference Documents. The following Project specific Environmental Service has been identified as a specific requirement for this Project:

1. Staging

No construction staging or other activities for this Project will be allowed within or adjacent to other surface waters including freshwater ponds and canals (adjacent to DMS 3, DMS 10, DMS 45, DMS 46, DMS FLD6DOTSW56WB002.9-A, DMS FLD6DOT826NB004.8-LL, and DMS FLD6DOTSW8EB005.8-A), and any potential Section 4(f) Resources including Ives Estates Park (20901 NE 16th Avenue; adjacent to DMS 2), Kendall Veterans Wayside Park (SW 112th Street & US 1; adjacent to DMS 46), Tropical Park (7900 Bird Road; adjacent to DMS FLD6DOTSW40EB003.9-A), The Underline/M Path Trail (adjacent to DMS 45), South Dade Trail (adjacent to DMS 46), and Miller Drive Sidepath (adjacent to DMS FLD6DOTSW56WB002.9-A).

**P. 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 be responsible for the design of all new or retrofit sign supports (post, overhead span, overhead cantilever, bridge mount and any applicable foundations). The Design-Build Firm shall show all details (anchor bolt size, bolt circle, bolt length, etc.) as well as all design assumptions (wind loads, support reactions, etc.) used in the analysis. Mounting types for various signs shall not be changed by the Design-Build Firm (i.e. if the proposed or existing sign is shown as overhead it shall be overhead and not changed to ground mount) unless approved by the Department. Any existing sign structure to be removed shall not be relocated and reused, unless approved by the Department.

It shall be the Design-Build Firm's responsibility to field inventory and show all existing signs within the Project limits and address all signage within the Project limits. Existing single and multi-post sign assemblies impacted by construction shall be entirely replaced and upgraded to meet current standards. Existing sign assemblies not impacted by construction can remain.

**Q. Lighting Plans**

The Design-Build Firm shall verify whether any Project work (e.g., installation of new structures) will impact the existing lighting system. At a minimum, Project work at the following locations is expected to impact the existing lighting system: DMS 2, DMS 3, and DMS 5. If impacted, the Design-Build Firm shall prepare lighting plans in accordance with Department criteria. The Design-Build Firm shall develop and submit for approval, a Load Center/Circuit/Pole Number identification plan that is compatible with the existing lighting systems maintenance identification scheme. The lighting plans shall include the permanent lighting infrastructure that will remain at the end of the Project, and any required temporary infrastructure to maintain functionality during the Project construction.

Where existing roadway lighting circuit sources (services, load centers, etc.) are being removed, the Design-Build Firm shall either:

1. Provide a new load center per current codes and all applicable criteria.
2. Identify an existing load center capable of feeding the existing and proposed lighting while meeting all current codes and all applicable criteria.

All modified load centers shall comply with all applicable criteria and shall be in like new condition.

Existing light poles, luminaire arms, luminaires, and load centers identified for removal shall be coordinated with the Maintaining Agency as to whether these features will become the property of Design-Build Firm or salvaged, transported, and delivered to the Maintaining Agency for future use.

The Design-Build Firm shall perform detailed field reviews. Review and document all lighting (poles/luminaires, sign luminaires, etc.), circuiting, load centers, service points, utility transformers, etc., within the limits of lighting construction. This review includes: conductors, conduit, grounding, enclosures, voltages, mounting heights, pull boxes, etc. This review also includes circuits outside the limits of lighting construction that originate or touch this Project's scope of work.

All deficiencies within the limits of lighting construction shall be identified and corrected. Deficiencies outside the limits of lighting construction shall be brought to the attention of the Department.

After the field reviews are completed, a list of all damaged and/or non-functioning equipment shall be documented and forwarded to the Department prior to the start of construction. All damaged and/or non-functioning equipment within the limits of lighting construction are required to be replaced or repaired to meet all applicable criteria and shall be in like-new condition.

Where new electrical services are required, the Design-Build Firm shall coordinate the final locations of distribution transformer and service pole to minimize service and branch circuit conductors and conduit lengths.

The Design-Build Firm shall comply with the requirements of each jurisdictional authority within the Project limits. Compliance with the jurisdictional authority includes but is not limited to: field reviews, technical meetings, special deliverable, etc. It is the Design-build Firm's responsibility to verify and comply with all jurisdictional authority's requirements.

## **R. Intelligent Transportation System Plans**

### **1. General:**

The Design-Build Firm shall prepare Intelligent Transportation Plans in accordance with Department criteria.

The Design-Build Firm shall prepare design plans and provide necessary documentation for the procurement and installation of the Intelligent Transportation System devices as well as overall system construction and integration. The construction plan sheets shall be in accordance with Department requirements and include, but not be limited to:

- Project Layout / Overview sheets outlying the locations of field elements
- Detail sheets on:
  - Tabulation of Quantities
  - DMS Structure, DMS attachment, DMS display/layout
  - CCTV structure, CCTV attachment, CCTV operation/layout
  - MDVS structure, MDVS attachment, MDVS operation/layout
  - Fiber optic splice and conduit



- Power Service Distribution
- Wiring and connection details
- Conduit, pull box, and vault installation
- Communication Hub and Field Cabinets
- System-level block diagrams
- Device-level block diagrams
- Field hub/router cabinet configuration details
- Fiber optic Splicing Diagrams
- System configuration/Wiring diagram/Equipment Interface for field equipment at individual locations and communications hubs.
- Maintenance of Communications (MOC) Plan

The Design-Build firm is responsible for ensuring project compliance with the Regional ITS Architecture and Rule 940 as applicable. At a minimum, the Design-Build Firm shall identify and document the Project requirements (functional and performance), and any ITS Standards and testing procedures that may be applicable to the Project, and submit to the Department for review and approval.

The Design-Build Firm shall detail existing Intelligent Transportation System equipment and report which devices will be removed, replaced, or impacted by project work.

## **2. Design and Engineering Services:**

The Design-Build Firm shall be responsible for all ITS design and engineering services relating to the Project. All ITS system components shall be new unless otherwise identified for relocation.

The design of the new system shall integrate with the existing devices. The design shall include the necessary infrastructure and components to ensure proper connection of the new ITS components. This shall include but not be limited to all proposed ITS components of this project as well as existing sub-systems that remain or are re-deployed as the final project.

At a minimum, the ITS work in this project consists of the following major components:

- Replacement of any ITS System components that are impacted by the Design-Build Firm's scope of work as approved by the Department. All equipment shall be new unless otherwise specified.
- DMS – Includes sign support structures, static signs, and mounting brackets for DMS.
- CCTV – Includes concrete poles, camera lowering devices and mountings for the DMS confirmation camera locations required in the RFP.
- MVDS – Includes replacement of MVDS locations impacted by the Project to match the pre-construction detection capabilities of the impacted MVDS.
- Removal of any ITS components that are impacted by the Design-Build Firm's scope of work as approved by the Department.
- Testing of fiber optic backbone and lateral drops, and/or wireless communications furnished and installed or modified by the Design-Build Firm.
- Testing and integration of the ITS components furnished and installed or modified by the Design-Build Firm.
- Coordinate with the Department to avoid conflicts with landscape plans within the Department

Right of Way. While procedures are being revised to facilitate this increased collaboration and cooperation, the Design-Build Firm is required to ensure that the design and construction of each ITS project and each landscape project is entirely coordinated with existing and proposed ITS facilities and landscapes. Both programs have been determined to be important components of the state transportation system.

### **ITS Facility Management (ITSFM) Requirements**

The Department uses ITSFM software system as a management tool for all ITS assets. The Design-Build Firm shall be responsible for all ITSFM-related work including but not limited to, data collection, and data input into ITSFM to ensure the Project's ITS components are entered into the ITSFM system. The Design-Build Firm shall use GPS units that are compatible with ITSFM and meet all relevant accuracy requirements. The Design-Build Firm shall be responsible to obtain all necessary ITSFM user credentials for the successful completion of ITSFM work at no additional cost to the Department. More information on ITSFM can be found at <https://www.fdot.gov/traffic/itsfm/>.

### **DMS Replacement Requirements**

The Design-Build Firm shall be responsible for complying with the following requirements at all Project DMS replacement sites:

- Integrate the new DMS and other devices connected to the DMS cabinets (as applicable) with the SunGuide® TMC using the Department's existing ITS communications network.
- Prior to selecting the final DMS locations, analyze the corridor and perform an evaluation of existing conditions including but not limited to utilities, signing, right-of-way, constructability issues, SunGuide® TMC Operations needs, and Design Variation needs. The Design-Build Firm shall seek approval from the Department on all Project DMS locations. A fully functional and operational DMS that supports the SunGuide® TMC Operations shall be provided.
- For Project sites where the existing DMS structure is reused, should any structural deficiencies be found, the Design-Build Firm shall correct such deficiency OR install a new DMS structure. If a portion of the structure is disassembled by the Design-Build Firm for replacement of the DMS, it shall be reassembled such that it meets the requirements of the FDOT Standard Specifications.
- Ensure that the new DMS can be fully monitored via existing traffic management/confirmation cameras. If the new DMS location/orientation does not fully allow the SunGuide® TMC to view and read the entire messages on the new DMS, the Design-Build Firm shall relocate the existing or install new DMS confirmation CCTV cameras and associated infrastructure to provide full monitoring capabilities to the SunGuide® TMC Operations, subject to approval from the Department. All new Project cameras shall be Internet Protocol (IP) addressable, High-Definition (HD), dome Pan-Tilt-Zoom (PTZ), with a minimum of 36X optical zoom.
- For existing DMS 2 confirmation CCTV camera, remove the existing CCTV camera and associated infrastructure (pole, cabinet, electrical and communications cabling and equipment, etc.) and install a new DMS confirmation CCTV camera and associated infrastructure. The new DMS confirmation CCTV camera shall fully allow the SunGuide® TMC to view and read the entire messages on the new DMS 2. The CCTV camera location shall be coordinated with and approved by the Department. The Design-Build Firm may reuse the existing underground infrastructure, including conduits and pull boxes, and add new infrastructure as needed for a fully functional and operational CCTV camera.
- For DMS 17, install a new confirmation CCTV camera and associated infrastructure (pole, cabinet, electrical and communications cabling and equipment, etc.). The new DMS confirmation CCTV

camera shall fully allow the SunGuide® TMC to view and read the entire messages on the new DMS 17. The CCTV camera location shall be coordinated with and approved by the Department. The Design-Build Firm shall install new underground infrastructure (conduits, pull boxes, etc.) as needed for a fully functional and operational CCTV camera.

- When required, install new guardrail, barrier or other approved component for DMS locations per the Department's FDM and Standard Plans for Road and Bridge Construction requirements, subject to the Department's approval.
- Coordinate with local businesses and residences, local government agencies, and FDOT PIO prior to construction and staging activities impacting sidewalks and driveways.
- Reconstruct the concrete sidewalk from flag joint to flag joint, if disturbed as part of the Project work.
- Remove the existing DMS cabinet, and install a new ground mounted DMS cabinet. The new DMS cabinet shall have provisions for connection of an external power source, such as a portable generator, through a weatherproof, water-resistant and secure interface. The external connection shall include a two-position manual transfer switch, with a minimum of twenty-five feet of pigtail terminated at one end with a three-prong plug and rated for the cabinet maximum input wattage cabinet. The other end of the pigtail shall be terminated with a connector that matches the existing Department's portable generators. The twist-lock connector for generator hookup shall be rated for thirty (30) amp at a minimum. The DMS cabinets shall have a concrete base and shall not be placed in low areas subject to flooding impacts. The Design-Build Firm shall ensure DMS cabinets are accessible by Department's ITS maintenance staff. Cabinet locations shall be reviewed and approved by the Department.
- Retrofit the existing OR install new leveled concrete pads around the ground mounted DMS cabinets. The concrete pads shall provide sufficient surface area for a maintenance technician to access the cabinet or device and perform maintenance activities. The concrete pad shall have a minimum surface area of 42 square feet (6 feet x 7 feet typical) and a minimum thickness of 6 inches. Power and communication pull boxes shall be placed within the concrete pad area and flush to the top of the concrete surface.
- Furnish and install new communications and electrical cabling and equipment between the new DMS and DMS cabinet including, but not limited to, remote power management unit (RPMU), managed field ethernet switch (MFES), uninterruptible power supply (UPS) and batteries, DMS controller, grounding and lightning protection equipment, and other ancillary components as necessary for a fully functional and operational DMS.
- For Project sites connected to the SunGuide® TMC via fiber optic, reestablish the communications link to the SunGuide® TMC via fiber optic. The Design-Build Firm may reuse the existing fiber communications infrastructure, including fiber optic lateral cables, fiber optic connection hardware, conduits, and pull/splice boxes. The Design-Build Firm shall add new fiber communications infrastructure as needed, and ensure the communications link to the SunGuide® TMC is re-established and fully functional and operational. When using existing fiber communications infrastructure, should any deficiencies or substandard conditions be found, the Design-Build Firm shall rectify the deficiencies or replace the existing fiber communications infrastructure with new fiber communications infrastructure.
- For Project sites connected to the SunGuide® TMC via wireless communications equipment, reestablish the communications link to the SunGuide® TMC via wireless equipment. The Design-Build Firm may reuse the existing wireless equipment, including antennas and cabling. The Design-Build Firm shall add new wireless equipment as needed, and ensure the communications link to the SunGuide® TMC is re-established and fully functional and operational. When using existing wireless communications equipment, should any deficiencies or substandard conditions be found, the Design-Build Firm shall rectify the deficiencies or replace the existing equipment with new equipment.
- Reestablish power connection to the new DMS by replacing the existing electrical infrastructure with new electrical infrastructure including, but not limited to, conductors, meter, disconnect switch, circuit

breakers, panelboard, service poles, Surge Protective Devices (SPD), and any other ancillary infrastructure needed to make the new DMS and all attached devices at this location fully functional and operational. The Design-Build Firm may reuse the existing OR install new underground infrastructure including conduits and pull boxes. When reusing existing underground infrastructure, should any deficiencies or substandard conditions be found, the Design-Build Firm shall rectify the deficiencies or replace the existing underground infrastructure with new underground infrastructure. Signed and sealed electrical calculations for all Project locations must be submitted to the Department for review and approval.

- For existing MVDS detectors impacted by Project work, replace the existing and install a new MVDS detector (and associated equipment) following the manufacturer-recommended offset and mounting height. The new MVDS detector shall be of equal or newer technology than the existing MVDS, and be listed on the APL. The proposed MVDS shall provide continuous and real-time volume, speed, and occupancy traffic data for all configured lanes (matching pre-construction conditions), and shall be subject to approval by the Department. The Design-Build Firm shall calibrate the MVDS units per District Six MVDS Calibration Procedures, provided as a Reference Document with this RFP.
- The Project DMS requirements shall be as follows:

Table 4 - DMS Requirements

DMS ID	DMS Type	DMS Requirements
DMS 1	Freeway DMS	The new freeway DMS shall be walk-in access type, full-color, full matrix, with a minimum character height of 18 inches using LED technology. The DMS shall support 3-line messages, with a minimum of 21 characters per line, and have a minimum display matrix of 96 rows by 400 columns. The pixel pitch shall be 20 mm.
DMS 2		
DMS 3		
DMS 4		
DMS 5		
DMS 17		
DMS FLD6DOT826NB001.3-LL		
DMS FLD6DOT826NB004.8-LL		
DMS FLD6DOT826SB008.8-LL		
DMS 6	Arterial DMS (12-inch character height)	The new arterial DMS shall be front-access type, full-color, full matrix, with a minimum character height of 12 inches using LED technology. The DMS shall support 3-line messages, with a minimum of 18 characters per line, and have a minimum display matrix of 64 rows by 240 columns. The pixel pitch shall be 20 mm.
DMS 8		
DMS 9		
DMS FLD6DOTSW72WB001.8-A		
DMS FLD6DOTSW72EB001.8-A		
DMS FLD6DOTSW56WB002.9-A		
DMS FLD6DOTSW56EB002.8-A		
DMS FLD6DOTSW40WB003.9-A		
DMS FLD6DOTSW40EB003.9-A		
DMS FLD6DOTSW24WB004.9-A		
DMS FLD6DOTSW24EB004.9-A		
DMS FLD6DOTSW8WB005.8-A		
DMS FLD6DOTSW8EB005.8-A		
DMS FLD6DOTNW36WB008.9-A		
DMS 10	Arterial DMS (18-inch character height)	The new arterial DMS shall be front-access type, full-color, full matrix, with a minimum character height of 18 inches using LED technology. The DMS shall support 3-line messages, with a minimum of 18 characters per
DMS 45		

DMS ID	DMS Type	DMS Requirements
DMS 46		line, and have a minimum display matrix of 96 rows by 352 columns. The pixel pitch shall be 20 mm.

### Managed Field Ethernet Switch (MFES) Requirements:

The Department currently uses the MFES model ITS Express 8012-24+. The Design-Build Firm shall submit this or an equivalent APL-approved MFES model for the Department's review and approval during the design phase. At a minimum, the new MFES shall be field hardened, have a minimum of 16 copper ports 10M/100M/1G Base-TX, 8 fiber SFP ports 100M/1G/2.5G, and support 100M/1G/10G optical bypass function. Prior to construction, the Design-Build Firm shall bring all MFES to the District Six SunGuide® TMC and jointly configure them with Department's staff. Design-Build Firm's qualified personnel shall be present for the MFES configuration. A minimum of 72-hour notice prior to bringing MFES to the District Six SunGuide® TMC shall be provided. The Design-Build Firm shall coordinate with the Department to obtain IP addresses, ports, VLAN, Spanning Tree, and any other network configuration parameters for the new MFES and all connected ITS devices and equipment. For each Project site, upon MFES integration, the Design-Build Firm shall ensure that all ITS devices and equipment (existing and new) connected to the MFES are fully functional and operational from the SunGuide® software platform.

### 3. Construction and Integration Services:

The Design-Build Firm shall be responsible for all ITS construction and integration services relating to the Project.

The Design-Build Firm shall protect and preserve from damage the existing ITS infrastructure within the project limits or in any way affected by the Project Work. If any existing ITS infrastructure is damaged by the Design-Build Firm, the Design-Build Firm shall immediately repair or restore it to a condition equal or better than the existing at the time such damage occurred, at no cost to the Department.

Repair Plan Requirements: The Design-Build Firm shall submit an ITS infrastructure repair plan to the Department for review and approval within sixty (60) calendar days of Project Contract's NTP date. The repair plan will outline the procedures and resources including but not limited to, availability of parts, materials, equipment, staff, and tools that the Design-Build Firm will utilize to enact repairs and/or replacement work.

Whenever actions of the Design-Build Firm cause ITS infrastructure to fail or disrupt normal operations, the Design-Build Firm shall restore such ITS infrastructure to their normal operation within the allowable time noted in Table 5 below, at no expense to the Department. If the ITS infrastructure is not restored within the allowable time, an initial payment reduction will be assessed, followed by additional payment reductions for each additional time-period. The allowable time begins from the Department's initial notification of ITS infrastructure failure to the Design-Build Firm.

Table 5 - Allowable Downtime

Allowable Time and Payment Reductions Item	Allowable Time	Payment Reductions for Repairs Not Completed During Allowable Time	Additional Time-Period	Payment Reductions for each Additional Time-Period
Fiber Optic Cable Backbone	4 hours	\$1,000.00	4 hours	\$1,000.00
CCTV Cameras	4 hours	\$1,000.00	4 hours	\$1,000.00

<b>Allowable Time and Payment Reductions Item</b>	<b>Allowable Time</b>	<b>Payment Reductions for Repairs Not Completed During Allowable Time</b>	<b>Additional Time-Period</b>	<b>Payment Reductions for each Additional Time-Period</b>
Ramp Signals	4 hours	\$1,000.00	4 hours	\$1,000.00
MVDS	4 hours	\$1,000.00	4 hours	\$1,000.00
DMS	4 hours	\$1,000.00	4 hours	\$1,000.00
Express Lanes Devices and Equipment	2 hours	\$2,000.00	2 hours	\$2,000.00
All Other Devices and Equipment	4 hours	\$1,000.00	4 hours	\$1,000.00

For fiber optic cable related downtime, the Design-Build Firm may perform temporary fusion splicing within the allowable 4-hour period to temporarily restore communications; however, the damaged fiber optic cable segment will be replaced from termination point (butt-end splice) to termination point with the same type of fiber cable within ninety (90) days and prior to the final acceptance of the Project. The Design-Build Firm shall have on-stock all required devices, parts, equipment, staff, tools and other necessary logistical items to perform these repairs within the allowable time limit. If multiple systems are affected at the same time, the higher payment reduction will apply and will not end until the system and all components are operating. At the sole discretion of the Department, payment reductions may not be assessed, or time may be extended if the failure to have the ITS devices/communications infrastructure restored and operating is beyond the Design-Build Firm's control. Lack of manpower or parts will not be considered as items beyond the control of the Design-Build Firm.

Upon notification of ITS infrastructure failure by the Department, the Design-Build Firm shall take immediate action to repair or replace such infrastructure. Before departing the field site, the Design-Build Firm shall notify the SunGuide® TMC immediately upon completion of the repair work to verify the operation of the failed component(s) has been restored. The Design-Build Firm shall send a final acknowledgement to all parties listed on the initial notification with a work performed notice stating the TMC verification of failure repair and the TMC personnel who verified the work. This notification procedure shall be followed for each site to which the Design-Build Firm is dispatched. Upon completion of the repair work, the Design-Build Firm shall perform diagnostic testing to ensure the ITS infrastructure component(s) is fully operational and functional from the TMC. The results of the tests shall be reported to the Department's Project Manager or his/her designee for inspection. Work that is determined to be unacceptable shall be re-done by the Design-Build Firm at its own expense.

For locations requiring lane closures to enact repairs, the Design-Build Firm shall coordinate and seek approval from the Department and Project CEI team prior to performing any repair work. Allowable repair time for locations requiring lane closures shall be 24 hours. Repairs that extend longer than 24 hours will be subject to the payment reductions noted in the table above, as applicable.

Should the Department determine that the Design-Build Firm failed to remedy, or the repair is deemed unacceptable, the Department may, at its sole discretion, facilitate the repair or replacement of any ITS infrastructure using the Department's current ITS Maintenance contract. Should the Department decide to utilize the ITS Maintenance contract to enact the repairs, the Design-Build Firm will be responsible for the costs incurred by the Department/ITS Maintenance Contractor to perform the repair or replacement. Any costs associated with that repair will be deducted from the next invoice payment. The Department will provide the Design-Build Firm with documentation regarding the incurred costs.

### **General Downtime Requirements:**

The Design-Build Firm shall comply with the following downtime requirements:

- For Project DMS replacement sites, the Design-Build Firm shall:
  - Ensure that the downtime duration for the DMS replacement at each site, as well as any other device connected to the DMS cabinet shall not exceed twenty-one (21) days from the initial time the existing DMS is turned off-line in the SunGuide® software to the time the new DMS is integrated into and fully functional and operational from the SunGuide® TMC.
  - Be liable for payment reductions of \$1,000.00 per day or part thereof for going over the allowable downtime duration. Definition of a day is any 24:00:00 hour period or part thereof. The payment reductions will be applied to the next estimate after the overage occurred.
  - Not replace two consecutive DMS along the same corridor at the same time.
  - Install, test, and integrate the new DMS and ensure the site is fully operational from the SunGuide® TMC within the allowable downtime duration. Upon completion of the DMS installation, testing and integration, the Design-Build Firm shall allow the Department to operate the DMS. The Design-Build Firm shall continue to maintain the Project DMS sites until Final Acceptance of the Project.
- Develop and submit a Project DMS transition plan to the Department for review and approval. The transition plan shall be submitted to the Department at or before the 90% phase submittal. At a minimum, the Design-Build Firm's transition plan shall document the approach for performing the required Project work meeting the downtime requirements, and any required coordination with the Department and any other Project stakeholders. Prior to submitting the transition plan, the Design-Build Firm shall schedule a transition plan meeting with the Department, where the proposed approach, sequence of Project equipment replacement, and any other requirements from Department shall be discussed. The Design-Build Firm shall then submit the transition plan addressing these and any other requirements discussed during the transition plan meeting.
- Notify the FDOT District Six SunGuide® TMC at 305-470-5757 a minimum of 72 hours prior to taking any existing ITS equipment out-of-service.
- The Design-Build Firm shall coordinate with the Department and submit all required information for SunGuide® and Operations Task Manager (OTM) integration and mapping, at a minimum one week before performing Project work at any Project site.

### **Security and Safety Requirements:**

The Design-Build Firm shall utilize proper safety measures to ensure adequate protection for persons and property at all times. After a workday, the Design-Build Firm's personnel must leave the work area free of safety hazards. The Department assumes no liability for any equipment or personal belongings or effects left unattended on Department property.

The Design-Build Firm shall be solely responsible for the safety of all its personnel and for providing safety equipment and procedures for the protection of employees and the public throughout the area(s) where Project work shall be performed.

### **ITS Maintenance Requirements:**

The Design-Build Firm shall be responsible for maintaining all Project Work until the Department has issued final acceptance, as noted in the FDOT Standard Specifications. Upon completion of the Project Work, and until the Project's final acceptance, the Design-Build Firm shall allow the Department to operate all the Project infrastructure/devices as soon as they become operable from the SunGuide® TMC. During this period, the

Department will report any failures to the Design-Build Firm, who shall take immediate action to repair or replace any component or device that fails to function.

The Design-Build Firm shall be responsible for performing preventive maintenance services at all Project sites during the Project's construction phase until Project's Final Acceptance. Preventive maintenance checklists have been provided as Reference Documents with the RFP. The Design-Build Firm shall follow all the preventive maintenance procedures shown in the checklist and document the results. The frequency of preventive maintenance services for Project sites shall be as follows:

- DMS - every 3 months
- MVDS - every 6 months
- CCTV Cameras - every 6 months

#### **4. Testing and Acceptance:**

All equipment furnished by the Design-Build Firm shall be subject to monitoring and testing to determine conformance with all applicable requirements. The Design-Build Firm is responsible for the development, coordination and performance of material inspection and testing, field acceptance tests, and system acceptance tests. The times and dates of tests must be submitted in writing for approval by the Department Project Manager. The Design-Build Firm shall conduct all tests in the presence of the Department Project Manager or designated representative.

Testing shall provide verification and documentation that all requirements as defined in the Contract documents are met. A Test Plan shall be developed by the Design-Build Firm to provide a mechanism that ensures that all contract requirements have been successfully tested and verified. The test plan shall be submitted for the Department's review and approval during the design phase of the project.

The Department is providing draft test plans for the Project as Reference Documents with the RFP. The Design-Build Firm shall review, update and finalize the test plans for Project specific needs and seek Department's approval prior to performing any testing activities. The Design-Build Firm shall perform all testing activities as per the FDOT Standard Specifications for Road and Bridge Construction.

The Design-Build Firm shall request in writing at least fourteen (14) days before the proposed testing activity, and schedule the testing only if permission is granted by the Department. Testing shall take place only on weekdays unless the Department allows the test to be conducted and/or continued on weekends and non-working days. The Design-Build Firm shall be responsible for conducting and documenting the test results. The Design-Build Firm shall be responsible for providing all testing equipment, conducting the tests and documenting the test results. The Department's representative will sign test results documentation at the end of each test. The signature of the Department's representative implies proof of presence only. Five (5) copies of the documented test results shall be submitted to the Department for review and approval within fourteen (14) days following completion of the test.

#### **ITS Training**

The Design-Build Firm shall prepare and submit a training plan and schedule to the Department for review and approval. The training plan shall be designed for training the attendees with the installation, design, configuration, operation, testing, and maintenance requirements of the Project components furnished under this Project. The Design-Build Firm may use the Department's facilities/conference rooms for providing the required training. An alternate location, as approved by the Department may also be used. The Design-Build Firm shall provide any required audio-visual equipment and necessary training material.



At a minimum, three (3) training sessions shall be conducted. Each session shall be available for up to ten (10) attendees with a duration of up 8 hours. All training material shall be provided to the Department four (4) weeks in advance, for review and approval before conducting each training session. The training shall be delivered on dates agreeable to the Department. The training shall include both classroom and field sessions that include actual installation, set-up, and operation of the systems installed by the Project. The classroom portion of the training sessions shall be video recorded by the Design-Build Firm and the video recording shall be provided to the Department on electronic media for future training use. The video will become the property of the Department. The Design-Build Firm shall bring all necessary video recording equipment to perform this task.

The training materials shall include an introductory level briefing for training attendees with the proposed Project components. Ten (10) sets of the approved training materials shall be supplied for each training session. At a minimum, the materials shall include:

- Details of system components
- Theory of operation of components
- Operating procedures
- Installation guidelines
- Equipment configuration
- Testing and calibration guidelines
- Maintenance guidelines
- Troubleshooting and repair guidelines

The instructor(s) shall have a minimum of four (4) years of experience in training personnel on the systems deployed by the Project.

## **5. Existing Conditions:**

The Design-Build Firm shall refer to the ITS As-Built Plans and other documents provided with this RFP as Reference Documents for information on the existing conditions and shall be responsible for field verifying all existing site conditions within the project limits.

### **S. Landscape Opportunity Plans: N/A**

## **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 for the Project.

### **B. Submittal Requirements**

The Technical Proposal shall be submitted using Form 700-010-21 Low Bid Design-Build Technical Proposal.

The Technical Proposal shall be submitted electronically and attached to a single email. The Subject Line for the email must show: E6M98 Technical Proposal Package – (Insert Design-Build Firm's Name). The Department has a 10MB limit on email. Emails that exceed this 10MB email server limit may be rejected by the Department's email server. It is solely the Design Build Firm's responsibility to ensure that the Technical Proposal is received by the Department's server by the due date and time. Bookmarks which provide links to content within the Technical Proposal are allowed. Bookmarks which provide links to information not included within the content of the Technical Proposal shall not be utilized. No macros will be allowed.

The maximum number of pages shall be 2, single-sided, typed pages including text, graphics, tables, charts, and photographs. Double-sided 8½" x 11" sheets will be counted as 2 pages. Larger sheets are prohibited.

Submit the Technical Proposal to: D6.designbuild@dot.state.fl.us

The minimum information to be included:

Section 1: Written Technical Proposal

- **Approach and Understanding of the Project:**

Present a plan for completing the specified work. The plan should address all significant design and construction issues and constraints and should demonstrate efficient use of manpower, materials, equipment, construction schemes, and techniques for completing the project. Coordination with the Department and Project CEI on public involvement and affected utilities shall also be discussed in this section.

- **Staffing:**

- Contractor Name & Applicable Prequalification Work Classes
- Construction Project Manager
- Construction Superintendent
- Consulting Engineer Name and Applicable Prequalified Work Types
- Subconsultant Name(s) and Applicable Prequalified Work Types
- Design Project Manager
- Design Engineer of Record
- ITS Design Engineer of Record
- Structures Design Engineer of Record
- MOT Certified Designer
- Specification Package Technician
- Utility Coordination Manager

- **Responsible Office:**

Design-Build Firms being considered for this Project may have more than one office location. The office assigned responsibility for the work shall be identified in the Technical Proposal. If different elements of the work will be done at different locations, those locations shall be listed.

**C. Evaluation Criteria**

The Department shall open all Bids received at a public Bid opening on the date found in Section II of this RFP. The Technical Review Committee will review the Technical Proposal of the Lowest Bidder. The Technical Review Committee will then establish if the Technical Proposal of the Lowest Bidder is responsive or non-responsive based on the criteria described in this RFP. If the Proposal is responsive, that Design-Build Firm will be awarded the Project. If the Proposal is found to be non-responsive, the Technical Review Committee will review the Technical Proposal of the next Lowest Bidder and establish if the Technical Proposal is responsive or non-responsive based on the criteria described in this RFP, and so on.

**D. Final Selection Process**

The Project shall be awarded to the responsive Bidder with the lowest Price Proposal.

**VIII. Bid Proposal Requirements**

**A. Bid Price Proposal**

Bid Price Proposals shall be submitted on the Bid Blank form attached hereto and shall include one lump sum Price for the Project within which the Proposer will complete the Project. 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.

Bid Price Proposals shall be submitted electronically, including the forms provided by the Department and shall be submitted electronically in a single email to the following email account:

[D6.designbuild@dot.state.fl.us](mailto:D6.designbuild@dot.state.fl.us)

The Subject Line for the email must show: E6M98 Price Proposal Package – (Insert Design-Build Firm's Name).