

**State of Florida
Department of Transportation**



REQUEST FOR PROPOSAL

Advanced Wildlife Warning System

DOT-RFP-22-1127-JA

CONTACT FOR QUESTIONS:

John Albers, Procurement Agent
D1-Purchasing@dot.state.fl.us

Phone: (863) 519-2581
801 North Broadway Ave.
Bartow, FL 338301

State of Florida
Department of Transportation
District One Procurement Office
801 North Broadway Avenue
Bartow, FL 33830

REQUEST FOR PROPOSAL REGISTRATION

PLEASE COMPLETE AND RETURN THIS FORM ASAP
E-MAIL TO D1-Purchasing@dot.state.fl.us

RFP Number: [DOT-RFP-22-1127-JA](#)_____

Title: [Advanced Wildlife Warning System](#)_____

Proposal Due Date & Time (On or Before): [February 15, 2022 @ 9:00 AM EST](#)

Technical Proposal Opening Date & Time: [February 15, 2022 @ 10:00 AM EST](#)

Price Proposal Opening and Summary Meeting Date & Time: [February 28, 2022 @ 10:00AM EST](#)

Potential proposers should notify our office by returning this Registration Form as soon as possible after downloading. Complete the information below and e-mail to:

[John Albers, D1-Purchasing@dot.state.fl.us](mailto:John.Albers@dot.state.fl.us)

THE REQUEST FOR PROPOSAL DOCUMENT YOU RECEIVED IS SUBJECT TO CHANGE. Notice of changes (Addenda), will be posted on the Florida Vendor Bid System at http://myflorida.com/apps/vbs/vbs_main_menu, under this RFP number click on "Search Advertisements", click on the drop-down arrow beside the box under Advertisement Type, select Competitive Solicitation, click on the drop-down arrow beside the box under Agency, select DEPARTMENT OF TRANSPORTATION, then go to the bottom of the same page and click on Advertisement Search. It is the responsibility of all potential proposers to monitor this site for any changing information prior to submitting your proposal.

Company Name: _____

Address: _____

City, State, Zip: _____

Telephone: (____) _____

Contact Person: _____

E-Mail Address: _____

For further information on this process, e-mail or telephone:
[John Albers: D1-Purchasing@dot.state.fl.us](mailto:John.Albers@dot.state.fl.us) (863) 519-2581

EXHIBIT “B” PRICE PROPOSAL FORM

RFP Number: DOT-RFP-22-1127-JA

FOB: To be determined

RFP Title: Advanced Wildlife Warning System

Services to be provided as specified in attached Exhibit “A”, Scope of Services

Item #	Item	Unit of Measure	Quantity	Unit Price	Extended
<u>BASE BID PRICE</u>					
1	Design and Systems Engineering - As described in Sections II.B. and II.L.	Lump Sum	1		
2	Wildlife Detection Sensors - As described in Sections II.C., II.F., and II.H.	Lump Sum	1		
3	Static Wildlife Detection Signage with Flashing Lights – As described in Section II.D.	Lump Sum	1		
4	Power and Communications Connectivity for Wildlife Detection Sensors and Signs - As described in Section II.G.	Lump Sum	1		
5	Wildlife Encounters Analytics or Key Performance Indicator (KPI) - As described in Section II.E.	Lump Sum	1		
6	Training and Support - As described in Section II.J.	Lump Sum	1		
7	Maintenance and Support (for three years after end of initial performance period) – As described in Section II.I.	Each Year	3		
TOTAL PRICE, BASE BID					
<u>OPTIONAL BID ITEMS</u>					
8	Vehicle Speed Data - As described in Section IX.A.	Lump Sum	1		
9	Data communications with SunGuide - As described in Section IX.B.	Lump Sum	1		
10	Geofencing Wildlife Activity Zones - As described in Section IX.C.	Lump Sum	1		
11	Roadside Units (RSUs) - As described in Section IX.D.	Lump Sum	1		
12	Statewide Security Credential Management System support - As described in Section IX.F.	Lump Sum	1		
13	Other Value-Added Services - As described in vendor proposal	Lump Sum	1		
TOTAL PRICE, OPTIONAL BID ITEMS					

Special Note: The Department has a total maximum budgetary amount of **\$600,000.00** for the contract resulting from this solicitation. Proposals received with a Total Price, Base Bid that exceeds the total maximum budgetary amount will be considered non-responsive. See Special Condition 21, RESPONSIVENESS OF PROPOSALS.

MFMP Transaction Fee: All payment(s) to the vendor resulting from this competitive solicitation **WILL** be subject to the MFMP Transaction Fee in accordance with the referenced Form PUR 1000 General Contract Condition #14. The Transaction Fees imposed shall be based upon the date of issuance of the payment.

NOTE: In submitting a response, the proposer acknowledges they have read and agree to the solicitation terms and conditions and their submission is made in conformance with those terms and conditions.

ACKNOWLEDGEMENT: I certify that I have read and agree to abide by all terms and conditions of this solicitation and that I am authorized to sign for the proposer. I certify that the response submitted is made in conformance with all requirements of the solicitation.

Proposer: _____ FEID # _____

Address: _____ City, State, Zip _____

Authorized Signature: _____ Date: _____

Printed / Typed: _____ Title: _____

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**VENDOR CERTIFICATION REGARDING
SCRUTINIZED COMPANIES LISTS**

Respondent Vendor Name: _____
 Vendor FEIN: _____
 Vendor’s Authorized Representative Name and Title: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone Number: _____
 Email Address: _____

Section 287.135, Florida Statutes prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of any amount if, at the time of contracting or renewal, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel. Section 287.135, Florida Statutes, also prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of \$1,000,000 or more, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which were created pursuant to s. 215.473, Florida Statutes.

As the person authorized to sign on behalf of Respondent, I hereby certify that the company identified above in the section entitled “Respondent Vendor Name” is not listed on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I further certify that the company is not engaged in a boycott of Israel. I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney’s fees, and/or costs.

Certified By: _____
 who is authorized to sign on behalf of the above referenced company.
 Authorized Signature Print Name and Title: _____
 Date: _____

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRUG-FREE WORKPLACE PROGRAM CERTIFICATION

375-040-18
PROCUREMENT
03/17

287.087 Preference to businesses with drug-free workplace programs. --Whenever two or more bids, proposals, or replies that are equal with respect to price, quality, and service are received by the state or by any political subdivision for the procurement of commodities or contractual services, a bid, proposal, or reply received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. In order to have a drug-free workplace program, a business shall:

(1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

(2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

(3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).

(4) In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than 5 days after such conviction.

(5) Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.

(6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

Does the individual responding to this solicitation certify that their firm has implemented a drug-free workplace program in accordance with the provision of Section 287.087, Florida Statutes, as stated above?

YES

NO

NAME OF BUSINESS: _____

DOT-RFP-22-1127-JA

Exhibit "C"

Method of Compensation

1.0 PURPOSE

This Exhibit defines the limits of compensation to be made to the Vendor for the services set forth in Exhibit "A" Scope of Services and the method by which payments shall be made.

2.0 COMPENSATION

For the satisfactory **performance** of services detailed in Exhibit "A" Scope of Services, the Vendor shall be paid up to a Maximum Amount of **\$600,000.00**. The maximum amount consists of the following:

The Vendor will be paid the percentages as shown below for each identified task of the Base Bid Price items as described on the Price Proposal Form:

- Item #1 - Design and Systems Engineering:
 - 50% of total for this task upon approval of the Systems Engineering documentation
 - 50% upon approval of the design plans
- Items #2, 3, and 4 - Wildlife Detection Sensors, Static Wildlife Detection Signage with Flashing Lights, and Power and Communications Connectivity for Sensors and Signs
 - 70% upon completion of site construction activities
 - 30% upon final acceptance testing and acceptance of the project, including approved documentation of the performed installation and integration services, submission of documents necessary for operations and maintenance of the system, and as-built configuration documentation
- Item #5 - Wildlife Encounters Analytics
 - 100% upon successful installation and integration of analytics platform
- Item #6 - Training and Support
 - 100% upon completion of training
- Item #7 - Maintenance and Support (including annual analytics reporting)
 - 40% billed at the completion of year 1
 - 30% billed at the completion of year 2
 - 30% billed at the completion of year 3
- Optional Items
 - Optional item payments to be determined during negotiation

3.0 PROGRESS PAYMENTS

The Vendor shall submit an invoice upon approval of each deliverable in a format acceptable to the Department. Lump sum payments shall be made to the Vendor for the satisfactory completion of each task and approval of each deliverable.

Invoice shall be submitted to the Florida Department of Transportation, 801 North Broadway Ave, Bartow, FL 33830 or D1Invoices@dot.state.fl.us

District 1 will allow itself ten (10) working days for approval from receipt of deliverable and invoice.

4.0 TANGIBLE PERSONAL PROPERTY

This contract does not involve the purchase of Tangible Personal Property, as defined in Chapter 273, F.S.

5.0 FINANCIAL CONSEQUENCE

The lump sum amount of 5% of the individual amount for the deliverable listed in Section 2.0 will be withheld upon failure to deliver the services within the time specified.

INTRODUCTION SECTION

1) INVITATION

The State of Florida Department of Transportation, hereinafter referred to as the “Department”, requests written proposals from qualified Proposers to provide [a wildlife detection system that includes wildlife detection sensors and roadside warning devices to provide advance notice to drivers of animal intrusions into the FDOT right-of-way.](#)

The Department intends to award this contract to the responsive and responsible Proposer whose proposal is determined to be the most advantageous to the Department. After the award, said Proposer will be referred to as the “Vendor”. For the purpose of this document, the term "Proposer" means the prime Vendor acting on its own behalf and those individuals, partnerships, firms, or corporations comprising the Proposer team. The term "proposal" means the complete response of the Proposer to the Request for Proposals (RFP), including properly completed forms and supporting documentation.

2) TIMELINE

Provided below is a list of critical dates and actions. These dates are subject to change. Notices of changes (Addenda) will be posted on the Florida Vendor Bid System at http://myflorida.com/apps/vbs/vbs_main_menu (click on “Search Advertisements”) under this RFP number. It is the responsibility of all potential proposers to monitor this site for any changing information prior to submitting your proposal.

<u>ACTION / LOCATION</u>	<u>DATE</u>	<u>LOCAL TIME</u>
DEADLINE FOR TECHNICAL QUESTIONS - (There is no deadline for administrative questions)	February 1, 2022	2:00 PM EST
PROPOSALS DUE, ON OR BEFORE - (Technical and Price Proposal) D1.Purch@dot.state.fl.us	February 15, 2022	9:00 AM EST
PUBLIC OPENING (Technical Proposal) -	February 15, 2022	10:00 AM EST
PUBLIC OPENING / MEETING (Price Proposal) -	February 28, 2022	10:00 AM EST
POSTING OF INTENDED AWARD -	February 28, 2022	2:00 PM EST

3) AGENDA FOR PUBLIC MEETINGS

Agenda – Public Opening (Technical Proposals)

Agenda for Public Opening of Technical Proposals for DOT-RFP-22-1127-JA:

Starting Time: see “Timeline” in RFP solicitation

- Opening remarks of approx. 2 minutes by Department Procurement Office personnel.
- Public input period – To allow a maximum of 15 minutes total for public input related to the RFP solicitation.
- At conclusion of public input or 15 minutes, whichever occurs first, the Technical Proposals received timely will be opened, with proposer’s name read aloud and tabulated. Price proposals will be kept secured and unopened until the Price Proposal Opening.
- Adjourn meeting.

Agenda – Price Proposal Opening, Evaluation Summarization and Selection of Intended Award

Agenda for Price Proposal Opening meeting for DOT-RFP-22-1127-JA:

Starting Time: see “Timeline” in RFP solicitation

- Opening remarks of approx. 2 minutes by Department Procurement Office personnel.
- Public input period – To allow a maximum of 15 minutes total for public input related to the RFP solicitation.
- At conclusion of public input or 15 minutes, whichever occurs first, the Technical evaluation scores will be summarized.
- Announce the firms that did not achieve the minimum technical score
- Announce the firms that achieved the minimum technical score and their price(s) as price proposals are opened.
- Announce Total Scores (technical scores plus price scores) will be summarized.
- Announce Intended Award decision.
- Announce time and date decision will be posted on the Vendor Bid System (VBS).
- Adjourn

4) SPECIAL ACCOMMODATIONS

Any person with a qualified disability requiring special accommodations at a pre-proposal conference, public meeting, oral presentation and/or opening shall contact the contact person at the phone number, e-mail address on the title page at least five (5) working days prior to the event. If you are hearing or speech impaired, please contact this office by using the Florida Relay Services which can be reached at 1 (800) 955-8771 (TDD).

SPECIAL CONDITIONS

1) MyFloridaMarketPlace

PROPOSERS MUST BE REGISTERED IN THE STATE OF FLORIDA'S MYFLORIDAMARKETPLACE SYSTEM BY THE TIME AND DATE OF THE TECHNICAL PROPOSAL OPENING OR THEY MAY BE CONSIDERED NON-RESPONSIVE (see Special Condition 21). All prospective proposers that are not registered should go to <https://vendor.myfloridamarketplace.com/> to complete on-line registration, or call 1-866-352-3776 for assisted registration.

All payment(s) to the vendor resulting from this competitive solicitation **WILL** be subject to the MFMP Transaction Fee in accordance with the referenced Form PUR 1000 General Contract Condition #14. The Transaction Fees imposed shall be based upon the date of issuance of the payment.

2) Florida Department of Financial Services (DFS) W-9 REQUIREMENT

The Florida Department of Financial Services (DFS) requires all vendors that do business with the state to submit an electronic Substitute Form W-9. Vendors must submit their W-9 forms electronically at <https://flvendor.myfloridacfo.com> to receive payments from the state. Contact the DFS Customer Service Desk at (850) 413-5519 or FLW9@myfloridacfo.com with any questions.

3) QUESTIONS & ANSWERS

In accordance with section 287.057(25), Florida Statutes, respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72-hour period following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the procurement officer or as provided in the solicitation documents. Violation of this provision may be grounds for rejecting a response.

Any technical questions arising from this Request for Proposal must be forwarded, in writing, to the procurement agent identified below. Questions must be received no later than the time and date reflected on the Timeline. The Department's written response to written inquiries submitted timely by proposers will be posted on the Florida Vendor Bid System at http://myflorida.com/apps/vbs/vbs_main_menu (click on

“Search Advertisements”), under this RFP number. It is the responsibility of all potential proposers to monitor this site for any changing information prior to submitting their proposal.

WRITTEN TECHNICAL QUESTIONS should be submitted to:

John Albers: D1-Purchasing@dot.state.fl.us

Questions regarding administrative aspects of the proposal process should be directed to the Procurement Agent in writing at the e-mail address above or by phone: (863) 519-2581

4) ORAL INSTRUCTIONS / CHANGES TO THE REQUEST FOR PROPOSAL (ADDENDA)

No negotiations, decisions, or actions will be initiated or executed by a proposer as a result of any oral discussions with a State employee. Only those communications which are in writing from the Department will be considered as a duly authorized expression on behalf of the Department.

Notices of changes (Addenda) will be posted on the Florida Vendor Bid System at http://myflorida.com/apps/vbs/vbs_main_menu (click on “Search Advertisements”) under this RFP number. It is the responsibility of all potential proposers to monitor this site for any changing information prior to submitting your proposal. All Addenda will be acknowledged by signature and subsequent submission of Addenda with proposal when so stated in the Addenda.

5) DIVERSITY ACHIEVEMENT

MINORITY BUSINESS ENTERPRISE (MBE) UTILIZATION

The Department, in accordance with *Title VI of the Civil Rights Act of 1964, 42 USC 2000d- 2000d-4, Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21*, Nondiscrimination in federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that the Department will affirmatively ensure

that in any contract/agreement entered into pursuant to this advertisement, minority and disadvantaged business enterprises will be afforded the full opportunity to submit bids in response to this invitation and will not be discriminated on the basis of race, color, national origin, or sex in consideration for an award.

The Department encourages small, minority, women, and service-disabled veteran businesses to compete for Department contracts, both as “Vendor” and as subcontractors. The Department, its vendors, suppliers, and consultants should take all necessary and reasonable steps to ensure that small, minority, women, and service-disabled veteran businesses have the opportunity to compete for and perform contract work for the Department in a nondiscriminatory environment. Bidders are requested to indicate their intention regarding MBE participation on the MBE Planned Utilization form and to submit the completed form with their Price Proposal. The contract vendor will be asked to submit payment certification for MBE subcontractors used.

To request certification or to locate certified MBEs, call the Office of Supplier Diversity, Department of Management Services at (850) 487-0915, or access their MBE directory on the Internet at www.osd.dms.state.fl.us/.

6) SCOPE OF SERVICES

Details of the services, information and items to be furnished by the Vendor are described in Exhibit "A", Scope of Services, attached hereto and made a part hereof.

7) INTENDED AWARD

The Department intends to award a contract to the responsive and responsible vendor with the highest cumulative total points for the evaluation criteria specified herein (See Section 30, Proposal Evaluation). The Intended Award decision will be announced at the Selection Committee meeting specified in the Timeline

(See Introduction Section 2 Timeline)

If the Department is confronted with identical pricing or scoring from multiple vendors, the Department shall determine the order of award using the following criteria, in the order of preference listed below (from highest priority to lowest priority):

1. Section 295.187(4), Florida Statutes; Veteran Business Enterprise
2. Section 287.087, Florida Statute; Drug Free Work Place
3. Section 287.057(11); Minority Business Enterprise

In the event that the application of the above referenced preferences does not resolve the identical replies, the Department shall determine the award by means of random drawing.

8) PRE-PROPOSAL CONFERENCE: A PRE-PROPOSAL CONFERENCE WILL NOT BE HELD.

9) QUALIFICATIONS

9.1 General

The Department will determine whether the Proposer is qualified to perform the services being contracted based upon their proposal demonstrating satisfactory experience and capability in the work area. The Proposer shall identify necessary experienced personnel and facilities to support the activities associated with this proposal.

9.2 Qualifications of Key Personnel

Those individuals who will be directly involved in the project should have demonstrated experience in the areas delineated in the scope of work. Individuals whose qualifications are presented will be committed to the project for its duration unless otherwise excepted by the Department's Project Manager. Where State of Florida registration or certification is deemed appropriate, a copy of the registration or certificate should be included in the proposal package.

9.3 Authorized To Do Business in the State of Florida

In accordance with sections 607.1501, 605.0211(2)(b), and 620.9102, Florida Statutes, out-of-state corporations, out-of-state limited liability companies, and out-of-state limited partnerships must be authorized to do business in the State of Florida. Such authorization should be obtained by the proposal due date and time, but in any case, must be obtained prior to the award of the contract. For authorization, contact:

Florida Department of State
Tallahassee, Florida 32399
(850) 245-6051

9.4 Licensed to Conduct Business in the State of Florida

If the business being provided requires that individuals be licensed by the Department of Business and Professional Regulation, such licenses should be obtained by the proposal due date and time, but in any case, must be obtained prior to posting of the intended award of the contract. For licensing, contact:

Florida Department of Business and Professional Regulation
Tallahassee, Florida 32399-0797
(850) 487-1395

10) WARRANTY/SUBSTITUTIONS

When performance of the services requires the supply of commodities, a warranty is required on all items provided against defective materials, workmanship, and failure to perform in accordance with required industry performance criteria, for a period of not less than ninety (90) days from the date of acceptance by the purchaser. Any deviation from this criteria must be documented in the proposal response or the above statement shall prevail. Delivery of substitute commodities requires prior written approval from the ordering

location.

Replacement of all materials found defective within the warranty period shall be made without cost to the purchaser, including transportation if applicable. All fees associated with restocking cancelled orders shall be the responsibility of the vendor.

All items provided during the performance of the contract found to be poorly manufactured will not be accepted, but returned to the vendor, at their expense, for replacement. Replacement of all items found defective shall be made without cost to the Department, including transportation, if applicable. As it may be impossible for each facility to inspect all items upon arrival, a reasonable opportunity must be given to these facilities for inspection of the items, and returning those that are defective.

11) LIABILITY INSURANCE

The Vendor shall not commence any work until they have obtained the following types of insurance, and certificates of such insurance have been received by the Department. Nor shall the Vendor allow any subcontractor to commence work on this project until all similar insurance required of the subcontractor has been so obtained. The Vendor shall submit the required Certificates of Insurance to the **Florida Department of Transportation, Procurement Office, John Albers - 801 North Broadway Ave. Bartow, FL 338301** within ten (10) days after the ending date of the period for posting the intended award decision.

No general liability insurance is required.

The Vendor must carry and keep in force during the period of this contract a general liability insurance policy or policies with a company authorized to do business in the state of Florida, affording public liability insurance with combined bodily injury limits of at least \$(200,000 minimum) per person and \$(300,000 minimum) each occurrence, and property damage insurance of at least \$(200,000 minimum) each occurrence, for the services to be rendered in accordance with this contract.

The Vendor must have and maintain during the period of this contract, a professional liability insurance policy or policies or an irrevocable letter of credit established pursuant to Chapter 675, Florida Statutes, and Section 337.106, Florida Statutes, with a company authorized to do business in the state of Florida, affording professional liability coverage for the professional services to be rendered in accordance with this contract in the amount of at least \$_____. The Vendor shall maintain professional liability coverage for a minimum of three years after completion of the services rendered under this contract.

With respect to any general liability insurance policy required pursuant to this Agreement, all such policies shall be issued by companies licensed to do business in the State of Florida. The Vendor shall provide to the Department certificates showing the required coverage to be in effect with endorsements showing the Department to be an additional insured prior to commencing any work under this Contract. The certificates and policies shall provide that in the event of any material change in or cancellation of the policies reflecting the required coverage, thirty days advance notice shall be given to the Department or as provided in accordance with Florida law.

The Department shall be exempt from, and in no way liable for, any sums of money which may represent a deductible in any insurance policy. The payment of such deductible shall be the sole responsibility of the Vendor or subcontractor providing such insurance. Policies that include Self Insured Retention (SIR) will not be accepted.

12) PERFORMANCE BOND

A Performance Bond is not required for this project.

13) METHOD OF COMPENSATION

Exhibit "C" Method of Compensation (PG 1-2)

14) CONTRACT DOCUMENT

PURCHASE ORDER

The MyFloridaMarketPlace "Purchase Order Terms and Conditions" and the Department's "Purchase Order Terms & Conditions" are attached hereto and made a part hereof. The terms and conditions contained therein will become an integral part of each Purchase Order issued for this solicitation. In submitting a proposal, the proposer agrees to be legally bound by these terms and conditions.

15) REVIEW OF PROPOSER'S FACILITIES & QUALIFICATIONS

After the proposal due date and prior to contract execution, the Department reserves the right to perform or have performed an on-site review of the Proposer's facilities and qualifications. This review will serve to verify data and representations submitted by the Proposer and may be used to determine whether the Proposer has an adequate, qualified, and experienced staff, and can provide overall management facilities. The review may also serve to verify whether the Proposer has financial capability adequate to meet the contract requirements.

Should the Department determine that the proposal has material misrepresentations or that the size or nature of the Proposer's facilities or the number of experienced personnel (including technical staff) are not adequate to ensure satisfactory contract performance, the Department has the right to reject the proposal.

16) PROTEST OF REQUEST FOR PROPOSAL SPECIFICATIONS

Any person who is adversely affected by the contents of this Request for Proposal must file the following with the Department of Transportation, Clerk of Agency Proceedings, Office of the General Counsel, 605 Suwannee Street, Mail Station 58, Tallahassee, Florida 32399-0450:

1. A written notice of protest within seventy-two (72) hours after the posting of the solicitation, (the notice of protest may be Faxed to 850-414-5264), and
2. A formal written protest in compliance with Section 120.57(3), Florida Statutes, within ten (10) days of the date on which the written notice of protest is filed.

Failure to file a 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.

17) UNAUTHORIZED ALIENS

The employment of unauthorized aliens by any contractor is considered a violation of Section 274A(e) of the Immigration and Nationality Act. If the contractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of the contract.

18) SCRUTINIZED COMPANIES LISTS

ALL Responses, regardless of dollar value, must include a completed [Vendor Certification Regarding Scrutinized Companies Lists](#) to certify the respondent is not on either of those lists. The Form should be submitted with the Price Proposal.

A Vendor is ineligible to enter into a contract with the Department for goods or services of any amount if, at the time of entering into such contract, the Vendor is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel.

Section 287.135, Florida Statutes, also prohibits companies from entering into a contract for goods or services of \$1 million or more that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which were created pursuant to s. 215.473, Florida Statutes.

If the Department determines the Vendor submitted a false certification under Section 287.135 of the Florida Statutes, the Department shall either terminate the Contract after it has given the Vendor notice and an opportunity to demonstrate the Department's determination of false certification was in error pursuant to Section 287.135 of the Florida Statutes, or maintain the Contract if the conditions of Section 287.135 of the Florida Statutes are met.

19) **RESERVATIONS**

The Department reserves the right to accept or reject any or all proposals received and reserves the right to make an award without further discussion of the proposals submitted. Therefore, the proposals should be submitted initially in the most favorable manner. It is understood that the proposal will become a part of the Department's official file, without obligation to the Department.

20) **ADDITIONAL TERMS & CONDITIONS**

No conditions may be applied to any aspect of the RFP by the proposer. Any conditions placed on any aspect of the proposal documents by the proposer may result in the proposal being rejected as a conditional proposal (see "RESPONSIVENESS OF PROPOSALS"). **DO NOT WRITE IN CHANGES ON ANY RFP SHEET.** The only recognized changes to the RFP prior to proposal opening will be a written Addenda issued by the Department.

21) **RESPONSIVENESS OF PROPOSALS**

21.1 Responsiveness of Proposals

Proposals will not be considered if not received by the Department **on or before** the date and time specified as the due date for submission. All proposals must be typed or printed in ink. A responsive proposal is an offer to perform the scope of services called for in this Request for Proposal in accordance with all requirements of this Request for Proposal and receiving seventy (70) points or more on the Technical Proposal. Proposals found to be non-responsive shall not be considered. Proposals may be rejected if found to be irregular or not in conformance with the requirements and instructions herein contained. A proposal may be found to be irregular or non-responsive by reasons that include, but are not limited to, failure to utilize or complete prescribed forms, conditional proposals, incomplete proposals, indefinite or ambiguous proposals, and improper and/or undated signatures. ALL determinations of responsiveness will be the responsibility of the FDOT Procurement Office.

21.2 Multiple Proposals

Proposals may be rejected if more than one proposal is received from a Proposer. Such duplicate interest may cause the rejection of all proposals in which such Proposer has participated. Subcontractors may appear in more than one proposal.

21.3 Other Conditions

Other conditions which may cause rejection of proposals include, but are not limited to, evidence of collusion among Proposers, obvious lack of experience or expertise to perform the required work, failure to perform or meet financial obligations on previous contracts, or in the event an individual, firm, partnership, or corporation is on the General Services Administration Excluded Parties List. Proposers whose proposals, past performance, or current status do not reflect the capability, integrity, or reliability to fully and in good faith perform the requirements of the Contract may be rejected as non-responsible. The Department reserves the

right to determine which proposals meet the requirements of this solicitation, and which Proposers are responsive and responsible.

22) **PROPOSAL FORMAT INSTRUCTIONS**

22.1 General Information

This section contains instructions that describe the required format for the proposal. All proposals submitted shall contain two parts and be marked as follows:

PART I TECHNICAL PROPOSAL NUMBER DOT-RFP-22-1127-JA:
(One Separate Document for Technical)

PART II PRICE PROPOSAL NUMBER DOT-RFP-22-1227-JA:
(One Separate Document for Prices)

THE SEPARATE DOCUMENTS MAY BE E-MAILED TOGETHER OR SEPARATELY.

22.2 Technical Proposal (Part I)

(Do not include price information in Part I)

The Proposer must submit one (1) original of the technical proposal which are to be divided into the sections described below. Since the Department will expect all technical proposals to be in this format, failure of the Proposer to follow this outline may result in the rejection of the proposal. The technical proposal must be submitted in a separate sealed package marked "TECHNICAL PROPOSAL NUMBER DOT-RFP-22-1122-JA:". The Technical Proposal shall be limited to a maximum of 8 pages consisting of the Executive Summary, Management Plan, Technical Plan, Work Plan, Value Added Solutions, and Maintenance Plan. The resumes and schedule do not count towards the 8 page maximum limit.

1. EXECUTIVE SUMMARY

The Proposer shall provide an Executive Summary to be written in nontechnical language to summarize the Proposer's overall capabilities and approaches for accomplishing the services specified herein.

2. PROPOSER'S MANAGEMENT PLAN

The Proposer shall provide a management plan which describes administration, management and key personnel.

a. Administration and Management

The Proposer should include a description of the organizational structure and management style established and the methodology to be used to control costs, services reliability and to maintain schedules; as well as the means of coordination and communication between the organization and the Department.

b. Identification of Key Personnel

The Proposer should provide the names of key personnel on the Proposer's team within their Technical Proposal, as well as a description of the functions and responsibilities of each key person relative to the task to be performed. The approximate percent of time to be devoted exclusively for this project and to the assigned tasks should also be indicated. Additionally, resumes for key personnel shall be provided and be limited to one page per resume for a maximum of five key personnel which will not count toward the 8 page maximum Technical Proposal length.

3. TECHNICAL APPROACH

The Proposer should explain their approach, capabilities, and means to be used in accomplishing the tasks in the Scope of Services, and where significant development difficulties may be anticipated and resolved. Include a description of any specific techniques, products, or limitations. The proposer shall describe the proposed optional elements included within their bid price within the technical approach in order to obtain scoring for those elements.

4. DETECTION SYSTEM CAPABILITIES

The Proposer should provide a description of the detection and warning system they propose to be deployed along with detection ranges, expected effectiveness, and any other relevant information.

5. PRIOR RELEVANT EXPERIENCE

The Proposer should provide a summary, with description, date, and location of the prior relevant deployment roadside animal detection and warning experience and system effectiveness they have performed.

6. SCHEDULE

The Proposer shall provide a schedule of activities for the duration of the project from notice to proceed to project acceptance. The maintenance period will commence following project acceptance; however this is not required in the schedule. Provide maximum one page schedule on 11"x17" paper which will not count towards the 8 page maximum of the Technical Proposal.

7. VALUE ADDED SOLUTIONS

The Proposer shall provide a description of valued added solutions that can be supported by the existing and proposed systems shown in the Price Sheet. The Proposer should include cost estimates for future deployment consideration for the proposed value-added solution(s) in Exhibit "A" Scope of Services. The Department will, at its discretion, determine if these solutions are in the best interest of the State.

8. MAINTENANCE PLAN

The Proposer shall provide a detailed description of its plan to operate and maintain the system over the course of the annual support periods. Include details on anti-theft measures.

22.3 Price Proposal (Part II)

The price proposal information is to be submitted in a separate sealed package marked "PRICE PROPOSAL NUMBER DOT-RFP-22-1127-JA:". The Price Proposal information shall be submitted on the forms provided in the Request for Proposal.

22.4 Presenting the Proposal

The proposal shall be limited to a page size of eight and one-half by eleven inches (8½" x 11"). Foldout pages may be used, where appropriate, but should not exceed five (5) percent of the total number of pages comprising the proposal. Type size shall not be less than 10 point font. The proposals should be indexed and all pages sequentially numbered. Bindings and covers will be at the Proposer's discretion.

Unnecessarily elaborate special brochures, art work, expensive paper and expensive visual and other presentation aids are neither necessary nor desired.

It is recognized that existing financial reports, documents, or brochures, such as those that delineate the Proposer's general capabilities and experience, may not comply with the prescribed format. It is not the intent to have these documents reformatted and they will be acceptable in their existing form.

23) "DRUG-FREE WORK PLACE" PREFERENCE

Whenever two or more bids which are equal with respect to price, quality, and service are received, the Department shall determine the order of award first in accordance with section 295.187(4), Florida Statutes, giving preference to "Veteran Business Enterprise" then to bid responses from vendors that certify the business has implemented a drug-free workplace program in accordance with Section 287.087, Florida Statutes. The "Drug-Free Workplace Program Certification" must be completed and submitted with the bid response to be eligible for this preference.

24) COPYRIGHTED MATERIAL

Copyrighted material will be accepted as part of a technical proposal only if accompanied by a waiver that will allow the Department to make paper and electronic copies necessary for the use of Department staff and agents. It is noted that copyrighted material is not exempt from the Public Records Law, Chapter 119, Florida Statutes. Therefore, such material will be subject to viewing by the public, but copies of the material will not be provided to the public.

25) ATTACHMENT TO RFP SUBMITTAL - CONFIDENTIAL MATERIAL

The Proposer must include any materials it asserts to be exempted from public disclosure under Chapter 119, Florida Statutes, in a separate bound document labeled "Attachment to Request for Proposals, Number [DOT-RFP-22-1127-JA](#) - Confidential Material". The Proposer must identify the specific Statute that authorizes exemption from the Public Records Law. Any claim of confidentiality on materials the Proposer asserts to be exempt from public disclosure and placed elsewhere in the proposal will be considered waived by the Proposer upon submission, effective after opening.

26) COSTS INCURRED IN RESPONDING

This Request for Proposal does not commit the Department or any other public agency to pay any costs incurred by an individual firm, partnership, or corporation in the submission of a proposal or to make necessary studies or designs for the preparation thereof, nor to procure or contract for any articles or services.

27) ELECTRONIC SUBMISSION OF PROPOSALS:

Electronic Bid Submittals

Please follow the below instructions for the submittal of electronic bids, failure to do so, may result in your bid being found non-responsive. Non-responsive replies will not be evaluated.

- a) Subject line must show: [DOT-RFP-22-1127-JA](#)
- b) Email(s) shall contain file(s) marked in accordance with section 22.1 General Information.
- c) Documents shall be submitted in portable document format (PDF) and have a size limit of 25MB.
- d) The body of the email shall not contain any information
- e) Bids shall be submitted to: D1.Purch@dot.state.fl.us

It is the bidder's responsibility to assure that the bid is delivered to the proper place **on or before** the Bid Due date and time (See Introduction Section 2 Timeline). Bids which for any reason are not so delivered, will not be considered.

28) MODIFICATIONS, RESUBMITTAL AND WITHDRAWAL

Proposers may modify submitted proposals at any time prior to the proposal due date. Requests for modification of a submitted proposal shall be in writing and must be signed by an authorized signatory of the proposer. 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 a sealed envelope to be opened at the same time as the proposal. The RFP number, due date and time should appear on the envelope of the modified proposal.

29) PROPOSAL OPENING

All proposal openings are open to the public. Technical Proposals will be opened by the Department at the date, time and location in the Timeline (See Introduction Section 2 Timeline). Price Proposals, which have a corresponding responsive Technical Proposal, will be opened by the Department at the date, time and location in the Timeline (See Introduction Section 2 Timeline).

30) PROPOSAL EVALUATION

30.1 Evaluation Process:

A Technical Review Committee (TRC) will be established to review and evaluate each proposal submitted in response to this Request for Proposal (RFP). The TRC will be composed of at least three (3) persons who collectively have experience and knowledge in the program areas and service requirements for which the commodities and/or contractual services are sought.

The Procurement Office will distribute to each member of the TRC a copy of each technical proposal. The TRC members will independently evaluate the proposals on the criteria and point system established in the section below entitled "Criteria for Evaluation" in order to assure that proposals are uniformly rated. Due to the complexity of certain procurements, the TRC members are authorized to consult with subject matter experts for the purpose of gathering information, if needed. The independent evaluations will be sent to the Procurement Office and averaged for each vendor. Proposing firms must attain an average score of seventy (70) points or higher on the Technical Proposal to be considered responsive. Should a Proposer receive fewer than seventy (70) points for their average Technical Proposal score, the Price Proposal will not be opened.

During the process of evaluation, the Procurement Office will conduct examinations of proposals for responsiveness to requirements of the RFP. Those determined to be non-responsive will be automatically rejected.

30.2 Oral Presentations: THERE ARE NO ORAL PRESENTATIONS FOR THIS PROJECT.

30.3 Price Proposal

The Proposer shall complete the Price Proposal form and submit as part of the Price Proposal Package. Any proposal in which this form is not used or in which the form is improperly executed may be considered non-responsive and the proposal will be subject to rejection. The vendor's completed form shall become a part of the contract upon award of the contract.

The Procurement Office will open Price Proposals in accordance with Section 29, Proposal Openings. The Procurement Office and/or the Project Manager/TRC will review and evaluate the price proposals and prepare a summary of its price evaluation. The Procurement Office and/or the Project Manager/TRC will assign points based on price evaluation criteria identified herein.

30.4 Criteria for Evaluation

Proposals will be evaluated and graded in accordance with the criteria detailed below.

a. Technical Proposal (100 Points)

Technical evaluation is the process of reviewing the Proposer's response to evaluate the experience, qualifications, and capabilities of the proposers to provide the desired services and assure a quality product.

The following point system is established for scoring the technical proposals:

	<u>Point Value</u>
1. Management Plan	10
2. Technical Approach	25
3. Detection System Capabilities	10
4. Prior Relevant Experience	10
5. Schedule	15
6. Value Added Solutions	15
7. Maintenance Plan	15

c. Price Proposal (50 Points)

Price evaluation is the process of examining a prospective price without evaluation of the separate cost elements and proposed profit of the potential provider. Price analysis is conducted through the comparison of price quotations submitted.

The criteria for price evaluation shall be based upon the following formula:

$$\underline{(Low Price / Proposer's Price) \times Price Points = Proposer's Awarded Points}$$

d. Total Scoring

The total score will be:

Technical Proposal Score + Price Proposal Score

A maximum of 150 points can be obtained.

31) POSTING OF INTENDED DECISION/AWARD

31.1 The Department's decision will be posted on the Florida Vendor Bid System, at http://myflorida.com/apps/vbs/vbs_main_menu, on the date in the Timeline, and will remain posted for a period of seventy-two (72) hours. Any proposer who is adversely affected by the Department's recommended award or intended decision must file the following with the Department of Transportation, Clerk of Agency Proceedings, Office of the General Counsel, 605 Suwannee Street, Mail Station 58, Tallahassee, Florida 32399-0450:

1. A written notice of protest within seventy-two (72) hours after posting of the Intended Award, (the notice of protest may be Faxed to 850-414-5264), and
2. A formal written protest and protest bond in compliance with Section 120.57(3), Florida Statutes, within ten (10) days of the date on which the written notice of protest is filed. At the time of filing the formal written protest, a bond (a cashier's check or money order may be accepted) payable to the Department must also be submitted in an amount equal to one percent (1%) of the estimated contract amount based on the contract price submitted by the protestor.

Failure to file a 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.

31.2 - Inability to Post:

If the Department is unable to post as defined above, the Department will notify all proposers by electronic notification on the Florida Vendor Bid System (see special condition 31.1, above) and/or telephone. The Department will provide notification of any future posting in a timely manner.

31.3 - Request to Withdraw Proposal:

Requests for withdrawal will be considered if received by the Department, in writing, within seventy-two (72) hours after the price proposal opening time and date. Requests received in accordance with this provision will be granted by the Department upon proof of the impossibility to perform based upon obvious error on the part of the proposer.

32) AWARD OF THE CONTRACT

Services will be authorized to begin when the Vendor receives the following document(s), as appropriate, indicating the encumbrance of funds and award of the contract:

A Purchase Order issued by the Department, or a Standard Written Agreement executed by both parties.

33) RENEWAL

Upon mutual agreement, the Department and the Contract Vendor may renew the Contract for a period that may not exceed 3 years or the term of the original contract, whichever is longer. The renewal must be in writing and signed by both parties, and is subject to the same terms and conditions set forth in the initial contract and any written amendments signed by the parties. Any renewal shall specify the renewal price, as set forth in the solicitation response except that an agency may negotiate lower pricing. Renewal is contingent upon satisfactory performance evaluations and subject to the availability of funds.

34) ATTACHED FORMS

Exhibit "A" Scope of Services (PG 1-12)

Exhibit "B" Price Proposal Form (PG 1-2)

Exhibit "C" Method of Compensation (PG 1-2)

Attachment "A" System Concept (PG 1-6)

Attachment "B" Project Location (PG 1)

Drug-Free Workplace Program Certification (Form 375-040-18)

MBE Planned Utilization (Form 375-040-24)

Bid Opportunity List

Vendor Certification Regarding Scrutinized Companies Lists (Form 375-030-60) Performance Bond Form 375-040-27

35) TERMS AND CONDITIONS**35.1 General Contract Conditions (PUR 1000)**

The State of Florida's General Contract Conditions are outlined in form PUR 1000, which is a downloadable document incorporated into this RFP by reference. Any terms and conditions set forth in this RFP document take precedence over the PUR 1000 form where applicable.

<http://www.dms.myflorida.com/content/download/2933/11777/1000.pdf>

The following paragraphs do not apply to this solicitation:

Paragraph 31, Dispute Resolution - PUR 1000

Paragraph 40, PRIDE – PUR 1000, when federal funds are utilized.

35.2 General Instructions to Respondents (PUR 1001)

The State of Florida's General Instructions to Respondents are outlined in form PUR 1001, which is a downloadable document incorporated into this RFP by reference. Any terms and conditions set forth in this RFP document take precedence over the PUR 1001 form where applicable.

<http://www.dms.myflorida.com/content/download/2934/11780/1001.pdf>

The following paragraphs do not apply to this solicitation:

Paragraph 3, Electronic Submission – PUR 1001

Paragraph 4, Terms and Conditions – PUR 1001

Paragraph 5, Questions – PUR 1001

35.3 MFMP Purchase Order Terms and Conditions

All MFMP Purchase Order contracts resulting from this solicitation will include the terms and conditions of this solicitation and the State of Florida's standardized Purchase Order Terms and Conditions, which can be found at the Department of Management Services website at the following link:

http://www.dms.myflorida.com/content/download/117735/646919/Purchase_Order_Terms_Sept_1,_2015_.pdf

Section 8(B), PRIDE, is not applicable when using federal funds.

36) ORDER OF PRECEDENCE

All responses are subject to the terms and conditions of this solicitation, which, in case of conflict, shall have the following order of precedence listed:

Special Conditions

Exhibit "A" Scope of Services/Specifications (PG 1-12)

Exhibit "B" Price Proposal (PG 1-2)

Exhibit "C" Method of Compensation (PG 1-2)

MFMP Purchase Order Terms and Conditions – Section 8(B), PRIDE, is not applicable when using federal funds

37) BUDGETARY LIMITATION

The Department has a total maximum budgetary amount of **\$600,000.00** for the contract resulting from this solicitation. Proposals received that exceed the total maximum budgetary amount will be considered non-responsive. See Special Condition 21, RESPONSIVENESS OF PROPOSALS.

DOT-RFP-22-1122-JA
Exhibit “A”
Scope of Services

I. Objective

The Federal Highway Administration has estimated that animal detection systems are up to 90% effective in reducing collisions involving wildlife¹. According to data from the Florida Department of Highway Safety and Motor Vehicles, from 2015-2019, there were over 17,000 crashes involving wildlife, including 25 fatalities, almost 2,400 injuries, and property damages in excess of \$57 million. The safety and financial cost of wildlife collisions underscores the importance of preventing and mitigating these types of crashes.

The FDOT intends to select a vendor to procure a wildlife detection system that includes wildlife detection sensors and a combination of roadside and in-vehicle warning devices at locations shown in Attachment B to provide advance notice to drivers of animal intrusions into the FDOT right-of-way. A range of concepts for a wildlife detection system are presented in Attachment A. Vendors should consider which combination of technologies presented in these concepts will best achieve the desired functionalities identified in the performance requirements identified in this RFP. Selections will be made based on which solution provides the best value to the Department.

II. Services to Be Provided

A. Advanced Wildlife Warning System – Desired System

The FDOT is seeking a Vendor to provide a wildlife warning system with innovative solutions utilizing both traditional and emerging technologies. At a minimum, this warning system is expected to:

- Detect animal presence on the roadway and near roadway
- Activate warning beacons to alert drivers
- Collect and store the data of animal detection and make the data available for performance evaluation
- Allow the Department to independently operate the system without a third party’s involvement at the completion of the project.

The following value-added capabilities may be proposed:

- Provide monitoring and control of field devices to the traffic management center (TMC)
- Provide a system that can interface with the [SunGuide®](#) software (Department’s advanced traffic management system software)
- Present in-vehicle alerts via connected vehicle technology for those vehicles with compatible equipment

¹ <https://www.fhwa.dot.gov/publications/research/safety/08034/08034.pdf>

For all elements, the work includes all labor, material, tools, equipment, hardware, and software to provide, install, integrate, and test a fully functional system.

B. Provide Design Details to the Department for Review and Approval

The Vendor shall develop Phase II, IIR (for utilities coordination), IV, and Final plans. Each phase shall be submitted to the Department for review and comment. The Vendor shall respond to all comments from the Department to the satisfaction of the Department and adhere to all FDOT design criteria, plans, and specifications.

The Vendor will coordinate (including plans review) with FDOT on any planned or ongoing County/FDOT projects within the limits of the project and mitigate any conflicts to the greatest extent possible. The Vendor will also perform Utility Coordination with existing utility owners to ensure there are no utility conflicts. The Vendor will also perform Environmental Coordination (wetland delineation) and permitting as necessary. Environmental Coordination will include all efforts needed to obtain environmental permits and clearances for the project. The Vendor will be responsible for providing delineations and species/habitat inspections sufficient to support environmental certification, as needed, regulatory agency coordination during design, and for obtaining environmental agency permits or preparing related support documentation (e.g. No Permit Required memo). R/W and constructability coordination efforts shall be included to obtain all permits and certifications needed to build the project.

Equipment must be installed within the FDOT right-of-way. The vendor is responsible for obtaining the necessary surveying and permitting approvals to begin construction of the system.

The Vendor will conduct field reviews and prepare plans and specification package that meet 2021 FDOT Design Manual and CADD standards as well as the FY 2021-22 Standard Plans. Plan development will include Temporary Traffic Control for the deployment for the project and structural analysis as necessary.

C. Furnish and Install Wildlife Detection System Equipment and Software

The Vendor shall furnish and install wildlife detection sensor(s) system capable of detecting large mammals including deer, panthers, bobcats, and bears within the user-defined detection zones. The Vendor is also encouraged to propose solutions that can be deployed to detect smaller animals such as raccoons, opossums, alligators, etc. Detector data collected shall include presence data per detection zone. The system shall include any required software to correctly distinguish between wildlife and movement from birds, vehicles, insects, and climate conditions. The system shall be capable of storing detector data in the cloud (independent of the FDOT network) and be accessible for review by select Department staff. Backup data must be stored on local internal or external memory for a minimum period of two months. The Vendor shall confirm the

location of the cloud storage, how the data is transferred, and the method of authentication to where the data is stored.

If the proposed wildlife detection system requires a stand-alone server, the Vendor shall furnish and install the wildlife detection system server at the Department TMC. If the proposed wildlife detection system is a cloud service, then no equipment at the TMC will be required. In either case, the wildlife detection system software shall communicate with and manage all field system equipment furnished and installed by the Vendor.

The system shall perform all required functions during and after installation being subjected to the environmental testing procedures described in the National Electrical Manufacturers Association (NEMA) TS 2, Sections 2.2.7, 2.2.8, and 2.2.9. Detectors and detector connections that are exposed to the elements must be weatherproof and designed for outdoor use.

Any necessary mounting equipment and hardware including poles and mounting accessories shall be included in the price proposal. If physical distance is required between the wildlife detection equipment and advance warning devices, the cost of providing a communications link between the two shall be included in the proposal.

The Vendor shall provide their specifications for false positive and false negative rates. An accuracy rate of greater than 99% is desired. The vendor should indicate in the technical proposal their previous experience deploying wildlife detection systems and the observed performance for past installations, if available.

D. Furnish Roadside Warning Device

The Vendor shall furnish and install static advanced warning signs equipped with flashing beacon assemblies, as required by the latest FDOT Standard Specifications for Road and Bridge Construction, Section 700. Flashing beacons shall be activated by utilizing the wildlife detection sensor system furnished and installed by the Vendor. See Approved Products List, Section 700 for products related to signing and beacons (<https://fdotwp1.dot.state.fl.us/ApprovedProductList/Specifications>).

E. Wildlife Encounters Analytics

The Vendor will provide an analytics/visualization/ Key Performance Indicator (KPI) platform for spatial and temporal distribution of wildlife encounters across the system monthly during the project period (from system activation through the duration of the post-construction operation and maintenance period). The KPI must show what number of wildlife observations have been made in which segments of the project roadways.

F. Equipment Cabinet

The Vendor shall furnish and install all necessary field cabinets for housing field system equipment furnished and installed by the Vendor. Applicable requirements specified in the latest FDOT Standard Specifications for Road and Bridge Construction, Section 676 shall be met. The Vendor shall submit cabinet layout diagrams to the Department for review and approval. Cabinets are to be included in the pricing for the Wildlife Detection Sensors “per site” price.

G. Communication and Power

The Vendor-furnished and installed field system equipment shall support an open-architecture, non-proprietary, digital fault-tolerant, real-time multimedia communications network. Requirements specified in the latest FDOT Standard Specifications for Road and Bridge Construction, Section 684 shall be met. If non-FDOT fiber optic infrastructure is to be used, the Vendor shall work through the Department to seek approval from the partner agency. Wireless communication (i.e., cellular) is expected given the lack of other FDOT-owned communications plant in the project limits. If the proposed communications method is FDOT wireless network (for instance, if Vendor proposes placement of server at TMC, or for communications with SunGuide via the ITS network), then a specific device configured and managed by FDOT IT staff will be required.

To provide reliable power to the field system equipment furnished and installed by the Vendor, the Vendor shall design, furnish, and install a new electrical power distribution system within the FDOT right-of-way. All requirements in the latest National Electrical Code (NEC) and FDOT Standard Specifications for Road and Bridge Construction shall be met. Uninterruptible Power Supplies (UPS) shall be furnished and installed at sites using permanent (i.e., grid) power to supply uninterrupted power for a minimum of two hours in the event of power loss for all field system equipment furnished and installed by the Vendor. UPS is not required for solar-powered sites, provided that battery capacity is furnished for a minimum of 72 hours. Existing Department and/or its partners’ power distribution system can be utilized with the approval from the Department. The Vendor shall submit a Power Design Analysis Report to the Department for review and approval. The voltage drop calculations shall be included in the report for existing, upgraded and any proposed field system equipment.

H. Field Installation Support

The Vendor shall provide, upon request, the telephone or on-site installation oversight using a qualified staff to ensure that the field system is installed per manufacturer's recommendation. The Vendor shall also provide field integration and test support as requested. The costs for telephone and field support shall be included in the cost to install field system equipment. If on-site support is requested, the Vendor will be available with a 48-hour advance notification.

I. Post Construction Operation and Maintenance

The Vendor shall provide full operation and maintenance support for a period of three years after the project is deployed and written acceptance has been provided by the Department. The operation and maintenance support includes, but not limited to; maintaining a minimum of 99% system upkeep; troubleshooting any issues within 24 hours of first notification; regular software patch updates; minimizing false calls/alerts; and minimizing false negatives. The work includes all labor, material, tools, equipment, software and licenses to repair, upgrade or replace, install, integrate and test all necessary devices, hardware, firmware, software and licenses to maintain the same level of functionality and assurance as originally intended. The Vendor shall provide its detailed plan on operations and maintenance support in its technical proposal.

J. Staff Training and Guidebook

The Vendor shall provide up to two (2) training(s) and related materials (handouts, PowerPoint slide deck, and reference guides) on the field system equipment installation, configuration, integration, commissioning, operation, maintenance (including vegetation management plan) and other related components as specified in this scope. The Vendor shall include all costs related to the training, guidebook production and support in the Price Proposal Form. The Vendor shall provide this training in a virtual format which may be recorded for future reference.

K. Performance Evaluation

The Vendor shall propose a set of meaningful, specific, and measurable performance metrics for their technology solution and a brief description of how the data will be obtained and any required processing. Data generated by the project shall be owned by the Department. Performance will be reported monthly by submitting a performance report to the FDOT. The Vendor shall identify the level of effort anticipated in generating this data and whether data will be required from FDOT to complete this task.

A before-and-after analysis will be conducted after the system has been operational for years one, two and three following system acceptance to evaluate the ultimate effectiveness of the technology solution(s). The Vendor shall aid the party contracted by the Department to perform the study and make data available to them via an API or connection to a project data warehouse. The Vendor shall include a level of effort for assisting researchers in their data collection efforts,

and any proprietary restrictions on the data provided to third-party researchers. The cost for this effort shall be included in the Wildlife Encounters Analytics task.

L. Systems Engineering and Architecture

The vendor shall prepare the following systems engineering documentation following applicable FDOT guidelines:

- Project Risk Assessment and Regulatory Compliance Checklist
- Concept of Operations (ConOps) with system requirements.
- Project Systems Engineering Management Plan (PSEMP)
- Requirements Traceability Verification Matrix (RTVM).
- Requirements Verification Plan.

The vendor shall coordinate with the FDOT on updating the District Regional ITS Architecture for this project. The vendor may be required to submit its architecture to ITS architecture team for review and approval.

III. Project Schedule

The project will be deployed and become fully operational within one year of issuance of notice to proceed. The Vendor is responsible for maintenance, repairs and monitoring of the wildlife detection system for 3-years post construction.

IV. Project Location

The project locations are shown in Attachment B. The Vendor shall deploy the wildlife detection and protection system at the locations as shown in Attachment B. The Vendor shall indicate the ITS design deliverables, equipment unit costs, and installation costs per site.

V. Services/Materials Provided by the Department

As part of this project, the Department will apply for the Federal Communications Commission (FCC) CV2X site licensing (if required) and provide construction inspection services, coordination with local agencies, and project management support.

VI. Submittals/Deliverables

The project deliverables shall meet the requirements as listed in the latest FDOT Design Manual sections relevant to ITS plans. The wildlife detection system shall allow the Department to independently operate the system without a third party's involvement at the completion of the project. Additionally, the following shall be provided:

- Develop Phase II, IIR, IV, and Final plans as per the Florida Design Manual and submit to the Department for review and approval
- Test plan for all included components, both required (wildlife detection hardware/software, roadside warning devices, etc.) and optional (RSUs, and wildlife detection server, etc.)

- Training and guidebook materials as described in Section II-J
- Performance reporting requirements as described in Section II-K
- Prepare final as-built plans as required by the latest FDOT Construction Project Administration Manual, Section 5.12

VII. Warranty

The vendor agrees to warranty all parts and labor for a minimum of three years and will be responsible for all costs related to replacement, etc. The vendor warranty will also cover damages to the equipment caused by natural events such as lightning, hurricane winds, rain, etc.

VIII. Reporting

The Vendor shall meet with the Department's Project Manager, as requested, to provide updates on installation and/or any potential issues that may affect the deployment schedule. The Vendor shall provide all active warranty documentation to the Department. The Vendor shall also provide a proof of insurance per Department's guidelines. All documentation shall be provided to the Department Project Manager in electronic format.

I. Work Authorization

The work will be authorized in the form of a letter of authorization issued to the Vendor. The Vendor shall coordinate with the Department's Project Manager on equipment furnishing schedule.

IX. Value Added Solutions (Optional)

A. Vehicle Speed Data (Optional)

The wildlife detection sensor system furnished and installed by the Vendor should be capable of providing vehicle presence, volume, and speed data per detection zone. The system shall meet the requirements specified in the latest FDOT Standard Specifications for Road and Bridge Construction, Section 660.

B. Communication with the Traffic Management Center (TMC) (Optional)

Interface with the Department's SunGuide system is required in this option. The interface may be from the Vendor's software to SunGuide, allowing for data pulling, storing, processing, and reporting functions. Alternatively, the interface may be from specific devices (i.e., cameras, detectors) to allow for specific device data transfer using standard SunGuide protocols.

C. Geo-Fencing Wildlife Activity Zones (Optional)

The Vendor will provide mapping of the boundaries of the wildlife activity areas so motorists can be alerted prior to entrance in the wildlife activity areas. For instance, a motorist with their vehicle location system or smart phone, can be compared to the location of a designated wildlife activity zone. Mapping of these wildlife activity zones will require coordination with the Department and the Vendor to identify the correct limits. If the Vendor proposes the system as a part of its proposal, the details should be included in the Technical Proposal with a description of how the system functions.

D. Furnish CV Roadside Equipment System and Software (Optional)

The Vendor should furnish roadside units (RSUs) that utilize dual mode communications (both Dedicated Short-Range Communications (DSRC) and cellular vehicle-to-everything (C-V2X)). The Vendor shall indicate the quantity of RSUs and other ancillary equipment (hereinafter referred to as Roadside Equipment (RSE) system, as defined below) to be installed to ensure effective delivery of connected vehicle messages in both directions of travel. The RSE system shall be capable of issuing a roadside alert (RSA) message to oncoming drivers using common phrases from the International Traveler Information Systems Phrase List (SAE J2540). The Vendor shall use identical and completely interchangeable units at each field location. The Vendor shall submit a system acceptance test plan to the Department for approval prior to the delivery of the RSE system.

The RSE system shall include antennas, mounting accessories, power and communication connectors, repeater antennas, and software, and any required APIs for a fully functional unit. The RSE system shall also include all necessary communications and power cables (including Power over Ethernet (PoE)), cables for remote antennas, any inside cabinet equipment, surge protection for the RSU connection (if needed) and all necessary materials required to make installation fully functional and operational. RSE coverage at each location (see Attachment B) should be provided consistent with the warning signs placement at each location and should be continuous throughout each site.

The RSE shall be in a non-proprietary format for future use and integration with the Department's forthcoming Vehicle-to-Everything (V2X) Data Exchange Platform. The wildlife warning system Vendor shall coordinate with the V2X Data Exchange Platform vendor, when selected, to establish a process for the platform to ingest the data generated by this project. The wildlife warning system Vendor shall make the data available to the V2X Data Exchange Platform vendor either through an API or another specified method. The Vendor shall provide supporting documentation for this process, including but not limited to the system architecture, relevant standards, and source code if applicable.

No On-Board Units (OBUs) are included in this procurement. For testing, Vendor should expect to interface with Department’s existing OBUs to confirm communications from the RSE.

E. Statewide Security Credential Management System (SCMS) (Optional)

The FDOT has a contract with Integrity Security Services (ISS), the SCMS Vendor, for SCMS operations and all RSUs and OBUs need to work with the ISS SCMS. The Vendor shall coordinate with ISS to enroll the RSUs procured in this contract with the FDOT Statewide SCMS. The cost must be included in the Vendor's price proposal. The Vendor must complete attestation with SCMS Vendor and must comply with enrollment process through SCMS Vendor.

Some requirements are mandatory, but others serve to let the Vendors know that this feature (while not required) is a product differentiator which will make their product more desirable. These differentiators could potentially drive a selection of their product over another Vendor’s which may have a lower price.

<u>Topic</u>	<u>Requirement</u>	<u>Need</u>	<u>Vendor Responsibilities</u>
Support	Required	Contract Support of the FDOT Statewide SCMS	Support costs must be included in the Vendor's price proposal.
		Hardware replacement Turnaround within 3 calendar days	Timeframe starts upon receipt by Vendor. A repaired or new unit is acceptable provided it has been bootstrapped and provisioned.
		Technical Support Response Times	Calls to technical support by the FDOT contact representative(s) must be returned within 24 business hours.
RSUs	Required	FDOT Provider Service Identifiers (PSID) - Service Specific Permissions (SSP) Profile support	The Vendor will be notified and sent updates to this profile on a periodic basis (increments not to be less than 30 calendar days) and expected to provide software updates as required to enable compliance within 90 calendar days. The current PSID-SSP is attached but is subject to change.

		Pseudonym certificates	All RSUs must support pseudonym certificates.
		Technical Support Response Times	Calls to technical support by the FDOT contact representative(s) must be returned within 24 business hours.
		Hardware Security Module (HSM)	Hardware Security Module to protect certificate store.
		Internet Protocol (IP) v6	IPv4 is slowly being replaced with IPv6.
		OmniAir Certification	DSRC certification.
	Desired	Secure Software/Firmware Updates over the FDOT CV intra-network	Update files with installation instructions are to be provided to the relevant FDOT District contact.
		Syslog and/or Simple Network Management Protocol (SNMP) v3 Management Information Base (MIB)	SYSLOG must have configurable port number, SNMPv3 is preferred. Reference USDOT DTFH61-12-D-00020 for MIB example content.
		SCMS Elector or Trust List Support	Misbehavior reporting for certificate revocation
		Verifiable PSID-SSP Testing Support	FDOT needs to be able to test each unit when placed into production. A test plan and instructions is preferred that demonstrates PSID-SSP Profile support.
		Small Form-factor Pluggable (SFP)+ Network Interface Controller (NIC) Ports	Provide flexibility in copper or fiber network connectivity
		Identity certificates	Support Identity certificates when the standard revision makes this support viable.

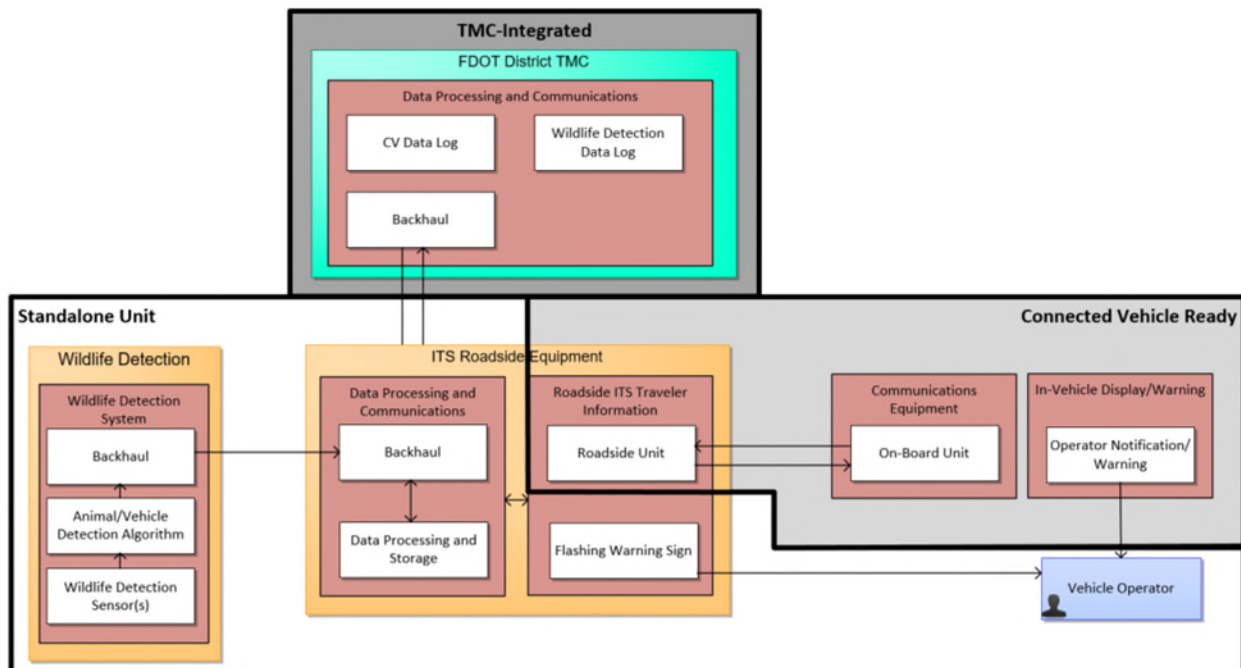
		Traffic Management Center Authority (TMCA) Support	RSUs should enable certificate support via a secondary source (TMCA) for MAP/TIM messages
		OmniAir Certification	Is the RSU certified and/or enrolled for dual use (DSRC, C-V2X) certification?
OBUs	Required	OmniAir Certification	DSRC certification
		HSM	Hardware Security Module to protect certificate store
	Required	Secure Remote Updates over the FDOT CV intra-network	Software and Firmware
		Secure Provisioning in the field	Secured provisioning via manual or secure network process
		Test Plan Support	FDOT needs to step through test plans for RSUs and OBUs prior to production use. Testing an OBU Certificate request will require triggering the OBU to flush the existing Certificate Store so as to trigger a new update. Provide a secure connection approach for triggering this flush and resultant update.
	Identity Certificates	Support Identity certificates when the standard revision makes this support viable.	

RFP-DOT-22-1122-JA
ATTACHMENT "A"
SYSTEM CONCEPT

The following section presents a concept for a system that can evolve over time as connected vehicle penetration rates and TMC-connectivity advance.

- Deploy standalone wildlife detection units and future-proof for more advanced capabilities:** For locations without existing ITS infrastructure, a simple standalone wildlife detection system could be deployed that provides alerts to drivers via static signage with flashing lights. If this concept is advanced, procurement specifications should be developed for future connected vehicle and TMC-integration readiness.
- Deploy wildlife detection equipment where ITS infrastructure is in place:** For locations with existing ITS infrastructure, the available power and communications could be leveraged to deploy both wildlife detection equipment and roadside units. While this approach as potential cost advantages, rural connectivity may be a challenge.

An evolutionary approach involving three concepts is shown below and discussed on the following pages: a simple standalone warning system, a system with connected vehicle integration, and a system with both connected vehicle and TMC integration.



A. System Architecture

The proposed system as fully built includes the following elements described below. Note that not all components are needed to provide effective warnings to motorists, and needs will vary depending on the presence of existing ITS devices on the

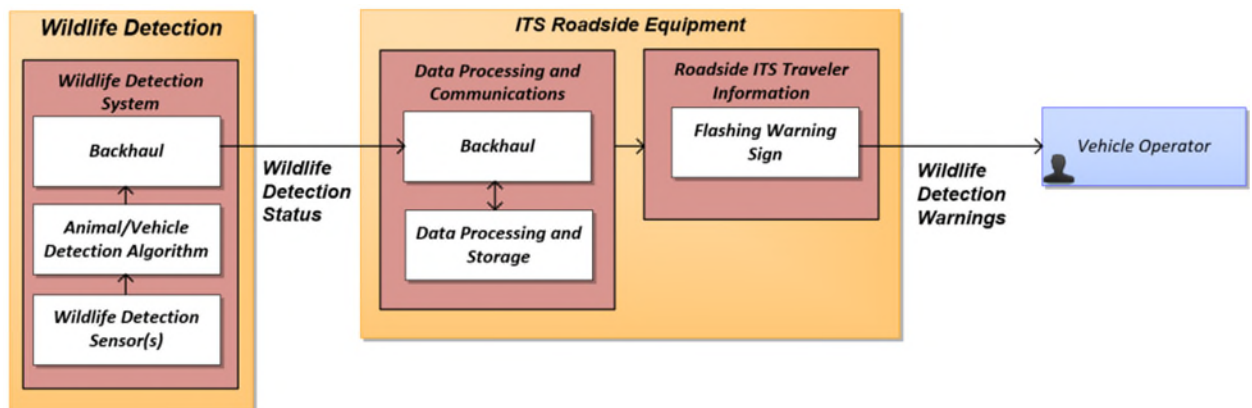
roadway, the mechanism(s) for providing alerts to drivers, and whether wildlife detection equipment must be physically distanced from the right of way to be effective.

- **Wildlife Detection Equipment:**
 - **Wildlife Detection Sensor(s):** Includes the sensor(s) that identifies wildlife intrusions into the right-of-way. Technologies may include video sensors, thermal sensors, LIDAR sensors, radar sensors, area detection sensors, or a combination. Break-the-beam sensors are not desired as a primary sensor for this application.
 - **Animal/Vehicle Detection Algorithm:** For area detection type sensors, this consists of the software that identifies whether the detected moving object is an animal. For some sensor types and products, vehicle presence and speed data may also be determined by this component.
 - **Backhaul:** For set-ups in which the wildlife detection equipment is physically separated from ITS roadside equipment, this includes the wired or wireless connection to upstream ITS warning devices.
- **ITS Roadside Equipment:**
 - **Backhaul:** Includes wired or wireless connectivity to wildlife detection equipment (if separate from ITS Roadside Equipment) and connectivity to the FDOT District TMC.
 - **Data Processing and Storage:** Consists of the hardware and software associated with processing and storing incoming data from wildlife detection equipment.
 - **Roadside Unit (RSU):** Includes the connected vehicle device, a dual mode RSU that communicates via a dedicated short range communications (DSRC) and cellular vehicle-to-everything (C-V2X) radio, capable of transmitting wildlife detection warnings and receiving basic safety messages from vehicles.
 - **Flashing Warning Sign:** As an option for broadcasting warnings to drivers, this includes static “Wildlife on Road When Flashing” signage with warning lights that are activated when an animal is detected in or near the right of way.
- **On-Board Equipment (provided by Department or motorist):**
 - **On-Board Unit:** Consists of the radio compatible with the RSU within individual vehicles that sends basic safety messages and receives wildlife detection warning messages.
 - **Operator Notification/Warning:** Includes the mechanism for providing alerts to drivers, which could include aural or visual warnings.
- **FDOT District TMC:**

- **Backhaul:** Consists of wired or wireless connectivity from the FDOT District TMC to field equipment.
- **Wildlife Detection Data Log:** Includes the storage of wildlife detection event data for monitoring or query from the TMC.
- **Connected Vehicle Data Log:** Consists of the storage of connected vehicle data for monitoring or query from the TMC.

B. Concept for Simple, Standalone Roadside Warning System

For locations without existing ITS infrastructure, a solar powered warning system with battery back-up can be used to present alerts to drivers via static signage with flashing lights. In the example below, the wildlife detection equipment is physically removed from the roadside signage and connected via wireless radio.



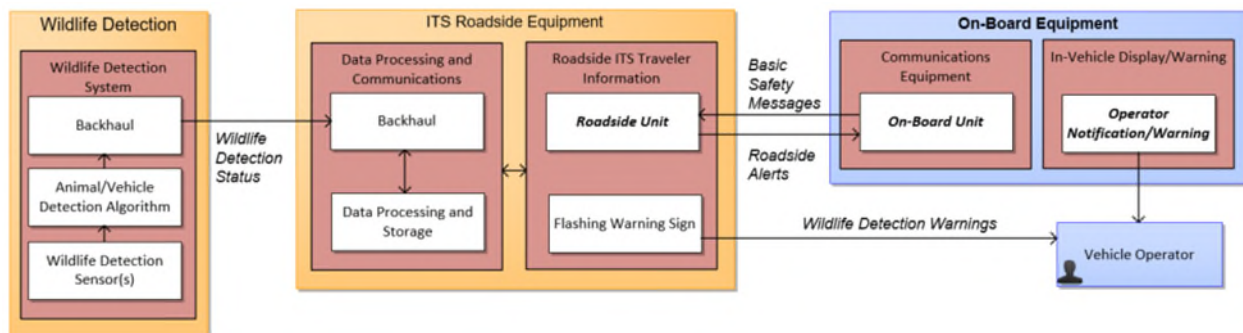
The following illustrates a use case scenario under normal operations and assumes a radar sensor and static sign with flashing lights are present:

1. An animal enters the viewshed of the wildlife detection sensor.
2. The radar detection sensor detects a moving object within the frame.
3. An algorithm determines the moving object is an animal.
4. The wildlife detection status is transmitted from the wildlife detection equipment to the ITS roadside equipment.
5. An alert is presented to oncoming drivers via flashing lights mounted above a static sign reading "Wildlife on Road When Flashing."
6. The driver sees the flashing lights and slows down.
7. The radar detection sensor registers the vehicle has slowed down.
8. The event data is recorded and stored.
9. The animal leaves the viewshed of the wildlife detection sensor.
10. The flashing lights cease and the driver continues.

C. Concept for Integrated Connected Vehicle Warning System

Connected vehicle integration can provide an additional method of providing warnings to drivers. As market share increases, the addition of an RSU to the

simple, standalone warning system may be merited. The addition of an RSU will require a power source as these are generally not powered by solar panels with battery back-up.



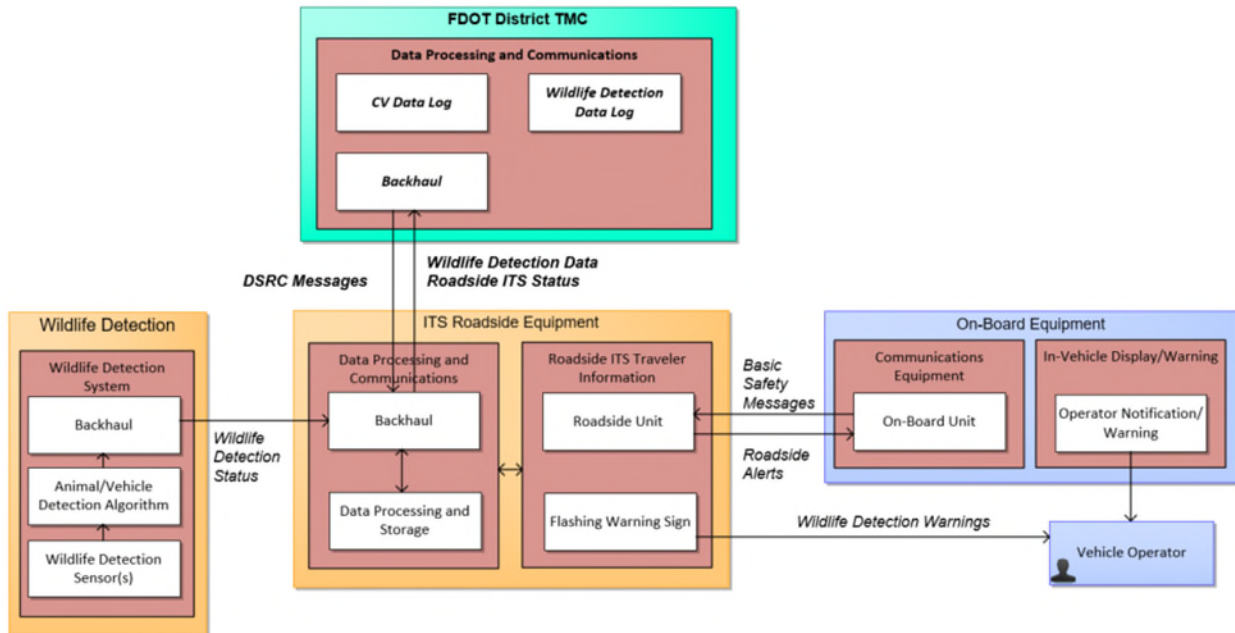
The following illustrates a use case scenario under normal operations and assumes an infrared sensor, static sign with flashing lights, and RSU are present:

1. An animal enters the viewshed of the wildlife detection sensor.
2. The infrared detection sensor detects a heat signature within the frame.
3. An algorithm determines the heat signature is an animal.
4. An OBU-equipped vehicle approaches the wildlife crossing, continuously broadcasting a basic safety message.
5. The vehicle comes within range of the RSU, which registers the vehicle's location, speed, and heading.
6. The wildlife detection status is transmitted from the wildlife detection equipment to the ITS roadside equipment.
7. An alert is presented to oncoming drivers via flashing lights mounted above a static sign reading "Wildlife on Road When Flashing."
8. A roadside alert is transmitted from the RSU to the OBU: "Warning: Wildlife Detected Ahead."
9. The driver acknowledges the alert in their vehicle and slows down.
10. The RSU registers the vehicle has slowed down based on the basic safety message.
11. The event data is recorded and stored.
12. The animal leaves the viewshed of the wildlife detection sensor.
13. The flashing lights and connected vehicle warning message cease and the driver continues.

D. Concept for TMC-Integrated Warning System

Future TMC integration can provide for remote monitoring, storage and query of past event data, and the ability to remotely control roadside ITS equipment. Placing wildlife detection equipment where there is existing interconnected

roadside equipment can also be a cost-effective way to provide power and communications backhaul to the TMC.



The following illustrates a use case scenario under normal operations and assumes a video camera, static sign with flashing lights, and RSU are present:

1. An animal enters the viewshed of the video camera.
2. The video camera detects a moving object within the frame.
3. An algorithm determines the moving object is an animal.
4. An OBU-equipped vehicle approaches the wildlife crossing, continuously broadcasting a basic safety message.
5. The vehicle comes within range of the RSU, which registers the vehicle's location, speed, and heading.
6. The wildlife detection status is transmitted from the wildlife detection equipment to the ITS roadside equipment.
7. An alert is presented to oncoming drivers via flashing lights mounted above a static sign reading "Wildlife on Road When Flashing."
8. An alert is transmitted from the RSU to the OBU: "Warning: Wildlife Detected Ahead."
9. The driver acknowledges the alert(s) and slows down.
10. The RSU registers the vehicle has slowed down based on the basic safety message.
11. The event data is transmitted to the TMC for storage.
12. The animal leaves the viewshed of the wildlife detection sensor.
13. The flashing lights and connected vehicle warning messages cease and the driver continues.

DOT-RFP-22-1127-JA ATTACHMENT "B" PROJECT LOCATION

Project Location:

- State Road 29, mile point 28.45 to 30.05
- Start Longitude and Latitude: (81°20'34.94"W, 26°19'15.50"N)
- End Longitude and Latitude: (81°20'36.58"W, 26°20'39.41"N)
- Length: 1.60 miles (approximately)



RFP CHECKLIST
(DOES NOT NEED TO BE RETURNED WITH YOUR PROPOSAL)

This Checklist is provided as a guideline, only, to assist Proposers in the preparation of their RFP response. Included are some important matters that the proposer should check. This checklist is just a guideline, and is not intended to include all matters required by the RFP. Proposers are responsible to read and comply with the RFP in its entirety.

Check off each the following:

1. The Price Proposal has been completed, as specified, and enclosed in the RFP response.
2. The Federal Employers Identification Number or Social Security Number has been entered in the space provided.
3. The “Drug-Free Workplace Program Certification” form has been read, signed, and enclosed in the RFP response, if applicable.
4. “Scrutinized Companies Lists” certification form has been read, signed, and enclosed in the RFP price proposal.
5. The “Bid Opportunity List” and the “DBE Participation Statement” form has been read, completed, and enclosed in the RFP response, if applicable.
6. The Scope of Services, Exhibit “A”, has been thoroughly reviewed for compliance to the RFP requirements.
7. The Technical Proposal (one (1) original and the specified number of copies) has been completed, as specified, and enclosed in the RFP response.
8. A letter from a surety company to document your ability to obtain the required Performance Bond, as per Section 12 of the Special Condition, is included in the Technical Proposal (if applicable).
9. The http://myflorida.com/apps/vbs/vbs_www.main_menu website has been checked and any Addendums posted have been completed, signed, and included in the RFP response.
10. The RFP response must be received, at the location specified, **on or before** the Opening Date and Time designated in the RFP.
11. Electronic Submission of Proposal guidelines laid out in Special Condition 27 are strictly followed.