

School Board

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**BUSINESS DIVISION
REQUEST FOR INFORMATION****DATE: July 29, 2009****RFI DUE DATE:****August 18, 2009****RFI DUE TIME:****2:00 P.M.****DELIVERY LOCATION:**

**Purchasing Department
901 E. Kennedy Boulevard
3rd Floor
Tampa, Florida 33602**

RFI TITLE:**Global Positioning System (GPS) (District-Wide)****RFI NUMBER:****9082-DST**

(RFI NUMBER MUST BE SHOWN ON THE OUTSIDE OF ENVELOPE)

DIRECT ALL INQUIRIES TO:

**Henry Morbach, CPPO, C.P.M.
Procurement Officer
Hank.morbach@sdhc.k12.fl.us**

Notice To All Interested Parties: Subject to the conditions, provisions and the enclosed specifications, sealed Proposals will be received at this office until the stated date and time.

Notice to Suppliers: HCPS needs to collect information with the purpose of increasing accuracy in respect of time scheduling and cost estimation before a possible procurement. This request for information is thereby not a procurement. HCPS does not intend to pay compensation for any work that may result from this survey of the market

If the District elects to move forward and issue a formal bid or a Request For Proposal (RFP), the District reserves the right to limit solicitations to those proposers who have responded to this RFI.

Proposals received after the stated date and time, whether presented in person, received by U.S. Mail, or by any other delivery method will not be accepted.

The School District of Hillsborough County, Florida reserves the right to retain all Proposals for a period of 120 days and to reject any, and all, Proposals and to waive any informalities and/or irregularities thereof.

School District Of Hillsborough County, Florida

**Jean Bowman
General Manager, Procurement**

SCHOOL DISTRICT OF HILLSBOROUGH DISTRICT, FLORIDA

REQUEST FOR INFORMATION

RFI NO. 9082-DST

RFI NO. Global Positioning System

Sealed Proposals to develop information for a Global Positioning System will be received by the School District of Hillsborough County, Florida, in the office of the General Manager, Procurement, third floor, Raymond O. Shelton School Administrative Center, 901 East Kennedy Boulevard, Tampa, Florida until 2:00 p.m., Tuesday, August 18, 2009. (The mailing address is P.O. Box 3408, Tampa, Florida 33601-3408; however, if you are mailing your Proposal using an overnight carrier please be sure to use our street address, 901 East Kennedy Boulevard, Tampa, Florida 33602).

Please note that receipt of Proposal means **DELIVERED AND DATE/TIME STAMPED RECEIVED IN THE PURCHASING OFFICE**. Proposals delivered to the building, but not delivered to the Purchasing Office and date/time stamped as received, will not be considered as received for the purpose of this solicitation process. Proposals must be delivered in a **SEALED** package with the RFI name, RFI number, and opening date/time clearly marked on the outside of the package.

Notice to Proposers: This building is a "controlled access" building and all visitors will be required to obtain a visitor's pass, photo ID required, before entering the building.

You are cautioned to write all descriptions and prices in a legible manner so that there will be no doubt as to the intent and scope of your Proposal. No oral, telegraphic (facsimile/scanner), or telephone Proposals or modifications to Proposals will be accepted.

Proposals will not be accepted or considered after the above specified time and date.

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1 INTRODUCTION

Hillsborough County Public Schools (HCPS), Florida, hereafter referred to as the District or HCPS, has determined that it is in need of equipment for a GPS System to be used for student transportation, and additionally in District support vehicles. There are several departments planning to utilize the service including Technology Repair, Transportation, Maintenance, Student Nutrition Services, Warehouse, and Security.

1.1 HCPS is the 8th largest school district in the country and 3rd largest in Florida, serving over 192,871 students. There are currently about 25,473 full-time employees. With a total population of 1,157,738 persons, Hillsborough County, Florida is the nation's 37th largest county. Over the 1994 to 2003 period, the District's growth rate exceeded 23,689 persons on an annual net basis. HCPS has approximately 200 sites that educate students of all levels.

2 RFI OBJECTIVES

The intent of this Request for Information (RFI) is to gather information to assist with guiding the various District departments in its efforts to provide an efficient GPS solution to applicable to student transportation and other vehicles. The RFI process is used to canvas a targeted industry segment for the following purposes:

- 2.1.1 Acquiring general or specific information about GPS systems in relation to student transportation and other vehicle tracking.
- 2.1.2 Soliciting assistance in identifying potential sources.
- 2.2 **Selection Criteria:** This procurement will comply with applicable District Policies, State Board Rules, and Florida Statutes. The selection of a service Supplier(s) may be made without discussion with Supplier(s) after proposals are received. Therefore, proposals should be submitted complete with all pertinent information.
- 2.3 Oral presentations and negotiations may be conducted with the highest rated Supplier(s). If an agreement is not reached, negotiations will be terminated. The same process may be conducted with the next highest rated Supplier(s). If agreement is not reached, negotiations may be terminated. This process may continue until an appropriate arrangement has been agreed upon or until all desirable Suppliers have been rejected. No Supplier shall have any rights against HCPS arising from such negotiations.
- 2.4 There will be no interim briefing regarding the status of a particular proposal until evaluation of all proposals is complete.
- 2.5 **Time Schedule:** The dates below are set for the convenience of the District. HCPS reserves the right to change the dates below when it is in its best interest. Date changes will be broadcast via the internet on: (<https://www.vendorbid.net/hillsborough/index.asp?cookies=True>).

Monday August 10, 2009	Last Day to Request Additional Information or Clarification.
August 18, 2009	Proposal Due Date.

3 PROPOSAL SUBMISSION FORMAT AND INFORMATION THAT MUST BE SUBMITTED

In order to maintain comparability and consistency in review and evaluation of responses, all proposals shall be organized as specified below. Avoid any elaborate promotional materials and provide only information that is required. All supporting materials should clearly reference the portion of the RFI to which they pertain. Please submit one (1) original along with seven (7) exact duplicates (one (1) unbound copy) for a total of eight (8) proposals. Also include a CD with an exact duplicate of your submittal. Proposals not meeting the requirements below may be determined to be non-responsive, non-responsive proposals will receive no further consideration.

3.1 Table of Contents: Please clearly outline and identify the material and responses by tab and page number. Outline in sequential order the major areas of the proposal, including enclosures. All pages must be consecutively numbered and correspond to the table of contents.

In this section, Proposer must clearly demonstrate familiarity with global positioning systems (GPS).

3.2 Tab 1 – Qualifications: Proposer shall summarize its qualifications. Provide information as to use of sub-contractors, sub-consultants, and related qualifications. Including work history of similar projects.

3.3 Tab 2 - Scope of Services: The Proposer must acknowledge agreement with the specific requirements of the items in Sections 4 & 7 and provide reports or samples if requested. Indicate any exceptions to the scope of services of the RFI or alternatives for the District to consider. Summarize your approach and understanding of the services and any special considerations of which the District should be aware.

3.3.1 Provide clear but concise response to each question as it relates to Section 7 “Scope of Services”. Your response shall be indexed and arranged by tabs.

3.3.1.1 Tab 2A - General

- a) Discuss and confirm your systems ability to meet each requirement of the Scope of Services.
- b) Describe in detail the import and export process of both digital map data and GPS data.
- c) Discuss any value added features not requested. Discuss any advantages that your system may have over other competitive offerings or methods of delivery (fixed tower vs. cellular / web-base vs. District Server).
- d) Discuss the ability to extend tracking coverage of vehicles on field trips or after school events in the contiguous counties surrounding Hillsborough County including Orange County. Discuss any cost implications to accomplish this task.
- e) Describe in detail the warranty program to include equipment, parts, and service.
- f) Include technical specifications / brochures / installation instructions / diagrams for each vehicle installed equipment component. What is the date of first manufacture for the

proposed equipment and what is the manufacturer policy on obsolescence or maintaining equipment after last date of manufacture?

3.3.1.2 Tab 2B - System Requirements

- a) Describe, in detail, the recommended hardware and software configuration required for a secure, reliable, and responsive system.
- b) Describe any restrictions in the communication device (i.e. voice over data, voice, or data impeding broadcast).
- c) Describe all inclusion and any excluding zones
- d) Describe all system testing necessary and the time schedule for each test.

3.3.1.3 Tab 2C - Support

- a) Provide provisions of any warranties on initial software, vehicle hardware and any software updates or upgrades.
- b) Confirm company policy that system upgrades will not degrade system operation or require hardware upgrade.
- c) In the event a hardware upgrade in which the District postpones implementation, how long will vendor support existing version of software.
- d) Describe the availability of telephone support and whether there are different levels of support or maintenance,
- e) If telephonic or data exchange fails to resolve any operational issue(s), describe the availability of on-site technical support and the required response time.
- f) In the event of a catastrophic system failure: what resources will be provided to return system to its intended operational state including response times.

3.3.1.4 Tab 2D - Documentation

- a) Describe the format, content, and quantity of system and user documentation that will be included with the system.
- b) Indicate if there is a fee for additional copies of documentation or whether the customer may copy it.
- c) Indicate if documentation updates will be provided when new releases or versions of the software are installed.

3.3.1.5 Tab 2E - Reports

- a) Discuss your systems ad-hoc report writing capability.
- b) Enclose with your proposal, samples of any delivered operational or management reports. Describe the intended use and basic criteria used to develop the report.

3.3.1.6 Tab 2F - System Security

- a) Describe how system, individual program, and user passwords are handled.
- b) Describe the User ID and password functionality.
- c) If access to the system through the District firewall is

required then a VPN and/or encryption should be provided. If access is required, would it include use of remote administration software, such as PC/Anywhere and why?

3.3.1.7 **Tab 2G** - Training: Describe the content of your training and specify the number of days of training included in your proposal. Describe the initial and on-going training for upgrades and enhancements provided.

3.3.1.8 **Tab 4H** - Implementation Plan and Services: HCPS' plan is to have a pilot program operational by February 2010 that includes approximately 100 buses. The pilot will run through the end of the 2009-2010 school year. Full implementation for the remaining 1300 buses is planned for the start of the 2010-2011 school year in August, 2010. Other fleet vehicles will be included at the discretion of the district.

3.3.1.9 Provide a detailed implementation schedule to include but not limited to.

- a) Timeline
- b) Task list
- c) Task due dates
- d) Assigned responsibilities
- e) Contingent events
- f) Resource requirements (District & Proposer)
- g) Information needed requirements from the District

3.3.1.10 Provide, list and explain any implementation services that your company can provide to assist in the process.

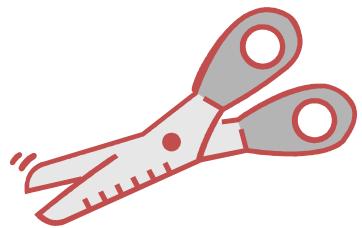
3.4 **Tab 3 – Customer Support Services**: Explain your company's policy regarding quality assurance/quality control.

3.5 **Tab 4 – Appendices**: The content of this tab is left to the Proposer's discretion. However, the Proposer should limit materials included here to those that will be helpful to the District in understanding the services provided for this specific contract. Please note that a RFI provide vendors the opportunity to be creative and explain the value of the products and services being proposed.

4 INFORMATION BEING REQUESTED

- 4.1 The District is interested in a GPS System that may be compatible with the current radio and mapping systems that might perform the following functions. Note: It is not necessary to communicate with existing "Edulog" system but desirable. Wireless phones may transmit 911 calls. Phones are to be assigned to vehicle, not individual. What software suppliers do you partner with?
- 4.2 Student Transportation (Bus)
 - 4.2.1 Real tracking and time reports
 - 4.2.2 Payroll system for bus drivers
 - 4.2.3 Indicate the motor is running
 - 4.2.4 Indicate the location and speed of the vehicle
 - 4.2.5 Excessive braking
 - 4.2.6 Indicate student stops and length of stops
 - 4.2.7 Indicate that student lights are operating at stops
 - 4.2.8 Indicate when the student door is open
 - 4.2.9 Identify emergency (panic button manually activated)
 - 4.2.10 Emergency door ajar
 - 4.2.11 Store information for units out of range of radio system
 - 4.2.12 Identify status:
 - 4.2.12.1 Beginning run
 - 4.2.12.2 Unloading at school
 - 4.2.12.3 Record no show to data file (door to door students)
 - 4.2.12.4 Disabled bus
 - 4.2.12.5 Others
 - 4.2.13 Custom face on console in vehicle
- 4.3 Support Vehicles
 - 4.3.1 Real time reports
 - 4.3.2 Indicate the motor is running
 - 4.3.3 Indicate the location and speed of the vehicle
- 4.4 List other features (see 3.5).

4.5 Submission Requirements: Proposal envelopes shall be sealed and identified as specified below:



RFI NO. 9082-DST

TO BE OPENED

AND ADDRESSED TO

Global Positioning System (GPS)

2:00 p.m., August 18, 2009

**Hillsborough County Public Schools
Procurement Department, 3rd Floor
901 East Kennedy Boulevard
Tampa, Florida 33602**

5 INSTRUCTIONS TO PROPOSER

- 5.1 All Proposals must be prepared and submitted in accordance with the instructions provided in this RFI. Each Proposal received will be reviewed to determine if the Proposal is responsive to the submission requirements outlined in the RFI. A responsive Proposal follows the requirements of the RFI, includes all documentation, supporting exhibits, submitted on time, and has the appropriate signatures where required. Failure to comply with these requirements may deem your Proposal non-responsive.
- 5.2 Upon award recommendation or ten (10) days after opening, whichever is earlier, any material submitted in response to this RFI will become a public record and shall be subject to public disclosure consistent with Chapter 119, Florida Statutes (Public Records Law). Proposers must claim the applicable exemptions to disclosure provided by law, in their response to the RFI, by identifying materials to be protected and must state the reasons why such exclusion from public disclosure is necessary and legal. The District reserves the right to make any final determination of the applicability of the Public Records Law.
- 5.3 In order to conduct business under this Proposal, HCPS requires that Proposer have a current vendor application on file. Failure to comply with this condition may cause the Proposer(s) to not be awarded any business with HCPS.

Those interested in responding to this RFI, or any District purchasing opportunity, must log on to VendorBid (<http://www.vendorbid.net/hillsborough>) and select "Current Bids". Search for the bid referenced in the notification and view the document(s). If you are interested in submitting a response (Bid, Proposal, Quote, etc.), and receiving updates (Addendum, Recommendation, Award Notification) you must select "Participate" to continue receiving notifications/updates for the solicitation.
- 5.4 Any Proposer in doubt as to the true meaning of any part of this RFI or related documents may submit a written request for clarification via Vendorbid.net. Any interpretation to a Proposer shall be made only by addendum duly issued. All Addenda will be posted and disseminated by VendorBid (<http://www.vendorbid.net/hillsborough>).
- 5.5 Prior to submitting the Proposal, it shall be the sole responsibility of each Proposer to determine if addenda were issued and, if so, to download and respond to such addenda from VendorBid.net for attachment to the Proposal.

HCPS will issue responses to inquires and any other corrections or amendments it deems necessary in written addenda issued prior to the Proposal due date. Proposers should not rely on any statements other than those made in this RFI or in any addendum to this RFI. Where there appears to be a conflict between the RFI and any addenda issued, the last addendum issued will prevail.
- 5.6 Please submit one (1) original along with six (6) exact duplicates (one (1) unbound copy) for a total of seven (7) proposals. Also include a CD with an exact duplicate of your submittal. Seven Proposals and CD, are to be submitted in a sealed envelope (use the label provided in section 4.5).
- 5.7 The School District will receive sealed Proposals until the date and time indicated on this Proposal cover. Proposals must be delivered to the Purchasing Office at the stated address and will be recorded at the stated date/time. Proposals must

be delivered in sealed envelopes, clearly marked on the outside as to: Proposal name, Proposal number, and opening date. Proposals received in unidentifiable envelopes are sent at the Proposer's risk. Proposals received after the date/time indicated on the Proposal cover will be date/time stamped received and returned to the Proposer. It will be the Proposer's responsibility to get the Proposal to the correct location and on time. Please note that the official clock, for the purpose of receiving Proposals, is located in the Purchasing Department.

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6 SPECIAL PROVISIONS

6.1 **Minimum Qualifications/Experience:** The Supplier(s) shall maintain a current business license. The Supplier(s) shall keep current all licenses and permits, whether Municipal, County, State, or Federal, required for the performance of its obligations and functions, hereunder, and shall pay promptly when due all such fees. Supplier(s) shall provide documentation of applicable license, certification, and/or commercial experience involving the services described herein. The HCPS reserves the right to request documentation at any time during the contract period.

6.1.1 Proposer(s) shall include a copy of all applicable licensing with their Proposal.

6.1.2 Inspection of Proposer's Facilities: The District reserves the right to inspect the Proposer's facilities and vehicles prior to awarding this contract.

6.2 **HCPS Facility Security:** All personnel must coordinate with the facility's front office or security personnel. Supplier's employees must be properly identified and must sign in and sign out when working or making deliveries during operational hours. All personnel must remain in the assigned work area.

6.2.1 It shall be the sole responsibility of the Supplier(s) performing services for this contract to safeguard their own materials, tools, and equipment. The HCPS shall not assume any responsibility for vandalism and/or theft of materials, tools, and/or equipment.

6.3 **Supplier(s) Personnel:** Supplier's staff members are to present a professional appearance. Personnel shall be neat, clean, well groomed, properly uniformed, and conduct themselves in a respectable and courteous manner while performing duties and while at any HCPS facility.

6.3.1 Qualifications of new people working under this contract will be submitted to the District, in writing, for approval prior to them conducting any service under this contract. Submit a list of all employees who will be working under the current contract, any intention for additional personnel, and back-up personnel for each function.

6.3.2 Effective September 1, 2005, in order to be in compliance with the Jessica Lunsford Act, Suppliers meeting any of the three criteria listed below will be required to be Level II fingerprinted and screened by our Human Resources Department. This consists of a FDLE/FBI criminal record and fingerprint search. Criteria:

- Be at school when students are present, or
- Have direct contact with students, or
- Have access to or control of school funds.

6.3.3 If you have no personnel who meet any of the three criteria, the law does not apply to you; therefore, you do not need to take action.

6.3.4 The Technical Assistance paper for the Jessica Lunsford Act can be accessed at <http://info.fl DOE.org/docushare/dsweb/Get/Document-3151/k12%2005-107a>.

6.4 **Communications:** Supplier(s) must provide a means to receive direct communications from the HCPS. A copy of all written communication concerning contract discrepancies, issues, or concerns from the District and the Supplier(s) shall be forwarded to the Purchasing Agent upon issuance.

7 SCOPE OF SERVICES

7.1 HCPS seeks a qualified Supplier to provide a GPS Vehicle and School Bus Tracking System (The System) with integrated Student Identification System (SIS) (also known as Student Tracking System [STS]) for HCPS' fleet. The system is to allow communication and tracking of fleet vehicles and students accurately and without interruption of coverage. The Student Tracking System is optional on the part of HCPS. The proposed System should be completely inclusive of all necessary equipment, including any third (3rd) party license fees and radio tower rental fees, if applicable. The specific details of the desired system are listed in this request.

7.1.1 The system shall be capable of handling all of the HCPS school buses and support fleet vehicles (See Attachment A) and be capable of handling projected growth.

7.1.2 The validity of all transmitted information must be confirmed via a possible site visit to entities using the proposed system or a performance bond. If multiple frequencies are required to accomplish this, the cost associated with these frequencies shall be included in this proposal.

7.2 **Pilot Implementation:** HCPS' plan is to have a pilot program operational by February 2010 that includes approximately 100 buses. The pilot will run through the end of the 2009-2010 school year. Full implementation for the remaining 1300 buses is planned for the start of the 2010-2011 school year in August, 2010. Other fleet vehicles will be included at the discretion of the district.

7.3 **Product Specification:** It is the intent of these specifications to describe a GPS tracking system and related components in sufficient detail to secure Proposals on comparable equipment. All parts not specifically mentioned, which are necessary to provide a complete unit, shall be included in the Proposal and conform in strength and quality of material and workmanship to that which is usually provided to the trade in general. The unit shall be new and of current model under standard production by the manufacturer. The scope of these specifications is to also insure the delivery of a complete unit ready for operation. Omission of any essential detail from these specifications does not relieve the Proposer from furnishing a complete unit. Proposers are to submit descriptive literature and/or complete specifications covering products offered. Proposals which do not comply with these requirements may be deemed as non responsive

7.4 **System Requirements:** The System will need to be scalable in terms of being complementary to new technologies. The proposed system shall obtain GPS information for each vehicle using state of the art methods. The GPS positional accuracy should be rated five (5) meter board or less and provide ten (10) meter accuracy ninety (90%) percent of the time. Information to be transmitted about each vehicle includes latitude, longitude, and speed. The vehicle units must also have the capability to transmit the occurrence of a minimum of six (6) different events to be determined by the District (i.e., door opening, reverse lights, stop arm, etc.) The System may provide an emergency or panic signal feature and include options to accommodate a STS where each student entering or departing

a bus will be recorded and can be displayed spatially in real time by the Dispatcher using the tracking system as the communication protocol. HCPS is also looking into a fully integrated system that will incorporate not only GPS School Bus Tracking and Student Identification, but also Computerized Routing (CR). It is preferable that the System be capable of integration with existing Routing Software (Edulog), in order to incorporate any Edulog upgrades. The system must not compromise existing feature codes, i.e. routes, via paths, or school boundaries.

7.4.1 The ability to easily import and export data using the proposed GPS Bus Tracking System is critical.

7.5 **Training:** Training must occur at the District and must be conducted with the most current District data installed on the proposed software system. Describe the initial and on-going training for upgrades and enhancements provided.

7.5.1 The Vendor shall provide a tutorial program with electronic and manual documentation to the District, and the Proposer's telephone support center shall be available as detailed above for assistance with the tutorial programs.

7.6 **Functional Capabilities:** Proposer must be able to demonstrate the capability of their existing system to support the listed features in real time at the District's request. The system must be capable of supporting the following vehicle tracking functions:

7.6.1 **Real-time Instant Polling:** At any moment, the system operator or dispatcher operator must be able to select any one or more buses and display the locations of those selected buses on the map. Information associated with the buses, including bus number (ID), speed, driving direction, time, and date should also be displayed.

7.6.2 **Constant Polling:** The system operator or dispatcher must be able to specify any desirable interval of polling frequency and the tracking system should report real-time vehicle data every ten seconds as a standard with the flexibility to adjust to up to 10 minutes. The polling interval should be changeable at any time from the system operator's or dispatchers' computers.

7.6.3 **Variable Polling Schedule:** The System should allow for different polling schedules to be set for different vehicles. For instance, the buses serving special-education routes may be tracked at a different schedule from those serving regular routes, and maintenance vehicles can be tracked at a different schedule than school buses. Operators must be able to make changes in the schedule from the server computer.

7.6.4 A visualization of bus location and related information on electronic map, including:

7.6.4.1 Bus/route number;

7.6.4.2 Route track and assigned stops;

7.6.4.3 Assigned load;

7.6.4.4 Current bus location. Positions of all vehicles in the fleet; ability to select and view any one vehicle;

7.6.4.5 Substitute bus management (regular versus substitute bus

assignment to routes);

- 7.6.4.6 Visual planned route hours and miles data imported from the routing software application against the actual hours and miles data GPS information collected from vehicles.
- 7.6.4.7 Turn by turn directions for each route and also supply stop time, mileage between each stop.
- 7.6.4.8 Display location information of the nearest vehicle to a defined address.

7.6.5 **Emergency Alert:** The GPS tracking device must provide live (real-time) alerts, The System must include an emergency alert button which, when pressed, will send an alert message to the dispatch center, along with time, date, and exact location of the bus.

- 7.6.5.1 Distribution of real-time alerts (i.e., late bus arrival) via email, text message, voice, or other. Customized alarms via pop-up windows, including the time the alarm was triggered, the type of alarm, the action taken following the alarm and the description of the event.
 - 7.6.5.1.1 Non-voice “Panic Button” for drivers, (i.e. Silent duress alarm).
 - 7.6.5.1.2 Broadcast or targeted alerts to buses.

7.6.6 **Automated Call-ahead Notification:** The system must provide an optional feature to support the designated routes. The GPS tracking system should have the capability to automatically notify the students' homes in real time at a preset time interval prior to the bus arrival. Parent notification service alerts to households notifying status of their child's bus. This function should be done in a fully automated manner where no action is required from the driver or the dispatcher during the operation. The ability to set the parameters of when to make the automated call, and what message to send is set by the dispatcher or system operator, and should be able to be changed in an instant by the dispatcher or system operator without going to the bus.

7.6.7 **Arrival Time Buffer Upon Notification:** The system should provide an optional feature of arrival time notification. An electronic message should be sent to the District's designated personnel when a bus/vehicle fails to arrive or depart a specific location (i.e., stop or school) beyond a preset buffer period specified by the dispatcher or system operator. For example, if a stop is being monitored due to a parental complaint, the System should be able to send a message to the dispatcher if the bus fails to arrive at the stop in question within +/-5 minutes of the scheduled time for the stop.

7.6.8 **Report Generating:** The system should provide a specified user-friendly adhoc reporting function stored electronically within the server. This facilitates the creation of reports for management or governmental agencies. The system should also include report generation of standard activity reports (i.e., bus arrival times at schools vs. scheduled arrival times, bus on-time arrival percentage) periodically based upon a specified

schedule.

7.6.8.1 Historical data tracking relative to asset inspection & management, including:

- 7.6.8.1.1 "Black box" mechanical data, primarily for maintenance due notification and scheduling purposes;
- 7.6.8.1.2 Asset odometer readings;
- 7.6.8.1.3 Key asset pre and post-trip inspection points / inspection completed notifications, (i.e. time ignition was turned on, the time the safety signals were deployed and tested, time the bus left the parking lot).

7.6.9 **Travel History Recording:** The System operator or dispatcher should have the option to save the vehicle tracking history in a file of driving records. Records in this file should contain all the polling points (instant or constant) and events (emergency, railroad crossing if available, door close/open if available, and call-ahead if available).

7.6.10 **Travel History Playback:** The System should provide a function to allow the operator to playback the history file of any bus on any date and for any recorded time frame. The bus' travel pattern should be displayed on the map, along with the speed, direction, time, and date. The system operator or dispatcher should be able to view the entire trip as a trail, or point by point with the capability of stopping at any moment and skip locations if desired. The System must have the capability to store data history for a minimum of three (3) to six (6) months. The District shall have real time access to recordings up to 6 months old and within 24 hours, access to data up to five years old.

7.6.10.1 **Routing Software:** The system must provide the following mapping functions:

- 7.6.10.1.1 Ability to import any updated map in a designated format or from a third party that captures updates without compromising existing routes.
- 7.6.10.1.2 Display any number of feature codes at any time.
- 7.6.10.1.3 Allow for the operator to click on the map to generate the shortest route between any two locations on the map.
- 7.6.10.1.4 Enter an address and identify its location.
- 7.6.10.1.5 Play back on the map any bus trip point by point for any period of date/time.
- 7.6.10.1.6 Display the trail on the map of any bus for any period.
- 7.6.10.1.7 Show any bus trip with both driving history and students boarding on the same map.

7.6.10.2 **System Security:** The system security architecture should

allow for the designation of a security administrator.

- 7.6.10.2.1 There should be provisions for the system to handle security measures including user identifications (ID's) and passwords. Access to these user IDs and passwords should be restricted. All user IDs and passwords should be encrypted while stored and in transit to prevent unauthorized access.
- 7.6.10.2.2 User should be prevented from seeing functions on the menus that the user is not authorized to perform.

7.6.11 Optional Systems Integration: The District will integrate the GPS School Bus Tracking System with a Student Identification System to record students boarding and leaving buses. The Contractor must be able to provide a developed student identification system which is seamlessly integrated into the GPS school bus tracking system. The system should meet the following requirements:

- 7.6.11.1 **Student Tracking:** Detailed student rider information via barcode or other device. The units should be designed to be installed with minimum modifications and conform to state specification standards and safety and must be able to do the following:
 - 7.6.11.1.1 Update the student list for each bus.
 - 7.6.11.1.2 Update the student list for any bus from remote location.
 - 7.6.11.1.3 Transmit the actual list of students on any specified bus to the dispatch server in real time.
 - 7.6.11.1.4 Keep the passenger records.
- 7.6.11.2 **Student Identification Software:** The software installed on the server computer must be able to do the following:
 - 7.6.11.2.1 Report the passenger list of any bus for any specified period.
 - 7.6.11.2.2 Report rider statistics.
 - 7.6.11.2.3 Report the trip of any bus.
 - 7.6.11.2.4 Report the mileage of any bus for any period.
 - 7.6.11.2.5 Describe the location of any bus at any time in terms of street information, and generate a report showing both the detailed trip of any bus and students boarding or leaving the bus with time and location.

8 ADDENDA FORM

The signer of this Proposal guarantees, as evidence by the sworn affidavit required herein, the truth and accuracy of all statements and of all answers to interrogatories hereinafter made.

The undersigned hereby authorizes any public official, engineer, architect, surety company, bank depository, material or equipment manufacturer or distributor or any person, firm or corporation to furnish any pertinent information requested by the School District of Hillsborough County or their representative, deemed necessary to verify the statements made in this qualification form or regarding the standing and general reputation of the applicant. The signer also states that all information given is an accurate representation of the office location and resources from where the services are to be rendered.

Receipts of the following Addenda are hereby acknowledged: (List all Addenda as follows):

ADDENDUM NO _____ Dated _____

ADDENDUM NO _____ Dated _____

ADDENDUM NO _____ Dated _____

Dated at _____ this _____ Day of _____ 20____

Name of Organization: _____

By: _____

Typed Name and Title: _____

