Addendum No. 1

April 12, 2013

I-4 Dynamic Message Sign Replacement Phase II
Financial Project Number: 428149-1-92-01
Contract Number: E5R84

VI. Introduction.

The Florida Department of Transportation (Department) has issued this Request for Proposal (RFP) to solicit competitive Bids and Proposals from Proposers for the replacement of twelve (12) Dynamic Message Signs (DMS) to include structures and foundations along with associated equipment within the existing District 5 Intelligent Transportation System infrastructure along the following roadways:

- Interstate 4 from East of Champion Gate (CR 532) to East of South Apopka Vineland Road
- Interstate 95 between Mile Marker 172 and Mile Marker 206

Description of Work

For the purpose of bidding, the Department has established a maximum price of $2,700,000.00. This amount is not the Department's official cost estimate for the work but is the maximum price constraint established for this contract. Submission of a bid under the maximum price is not a guarantee of contract award and cannot be interpreted as an appropriate or awardable bid amount. For this contract, the Department will reject as non-responsive any Price Proposal in excess of the maximum price amount shown above and the firm will not be considered for Final Selection.

This project requires furnishing and installing all the necessary components for fully functional Dynamic Message Signs (DMS). Existing DMS enclosures, pole mounted DMS cabinets (where applicable), ancillary cabinet equipment, structures and foundations will be removed and replaced. No existing ground mounted cabinet shall be removed or replace within this project. DMS maintenance cabinets shall be added to any DMS structure that does not currently have a maintenance cabinet installed. A maintenance cabinet shall be defined as a pole mounted cabinet enclosure that houses the necessary DMS components (e.g. auxiliary controller and power) that will allow a technician to troubleshoot the DMS from ground level without the use of a bucket truck. The Design-Build Firm may elect to conduct a structural analysis on any or all of the DMS structures to determine if the existing structures and foundations can be reused to support the new DMS. A hard and digital copy of the structure analysis report must be submitted to the Department for acceptance prior to 100% Plan Submittals. If the existing structure does not meet FDOT Standards based on the structural analysis, the Design-Build Firm shall be responsible for replacing the structure and foundation as required by and in accordance with this RFP. If the Design-Build Firm elects not to conduct a structural analysis, the Design-Build Firm shall replace all structures and foundation in accordance to this RFP. The existing DMS structures and foundation shall be removed per FDOT 110 Specification and disposed of. The newly installed DMS's shall be integrated into the District 5 Intelligent Transportation System (ITS) and operational at the Regional Traffic Management Center (RTMC) via the Sunguide Software. The locations and sign number of the existing DMS's are included in Table 1 section VI.P.2. Four of the existing cantilever signs shall be paired and combined on a single full span structure as described below.

VI. Design and Construction Criteria

4. Design and Construction Criteria

i. Dynamic Message Sign (DMS)

- **DMS Enclosure:**

The sign shall be a full LED matrix of 54 X 210 pixels, full color, walk-in type display enclosure. The display technology shall be composed of multiple red, green, and blue high resolution LEDs and shall not rely on any mechanical components or other pixel technologies, such as fiber optic, flip disk, combination flip disk-fiber optic, combination flip disk-LED, liquid crystal, LED Lenses or incandescent lamp. The display panel shall be 100% solid state with no moving parts except for the environmental control fans and thermostats. The DMS shall be able to display messages composed of graphic images across multiple frames.

No field hardware modifications or programming modifications shall be required to exchange or replace individual display panels. The DMS shall contain LED display modules that include an LED pixel array and LED driver circuitry. These modules shall be mounted adjacently in a two-dimensional array to form a continuous LED pixel matrix. The failure of one LED shall not affect the operation of the other LED's in that string. The display enclosure shall contain the LED Display Modules, Dynamic Message Sign (DMS) Driver, electronics, electrical and mechanical devices required.

Sign enclosures placed on cantilever structures shall be mounted with the right most edge of the DMS over the Edge of Travel Lane and shall not require the placement of additional guardrail or other protective device. The DMS structure shall not be located within clear zone. If in some cases the mounting requirements cannot be achieved, then the Design-Build Firm shall mount the DMS with the left most edge of the DMS over the Edge of Travel Lane. ~~submit an alternative solution within their Technical Proposal.~~