



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
PROPRIETARY PRODUCT CERTIFICATION

630-020-07
PROGRAM MANAGEMENT
06/16

To: Mario J. Bizzio, P.E.
Design Engineer

Date: 1/28/2019

Financial Project ID: 439682-5-52-01 New Const. RRR
Federal Aid Number: N/A
Project Name: Milling and Resurfacing of I-4 Eastbound from SR 46 to the Seminole County Line
State Road Number: 400 Co. / Sec. / Sub.: 77160000
Begin Project MP: 12.355 End Project MP: 14.135
Full Federal Oversight: No Yes Note: If Yes, submit to FHWA Director.

A justification and all supporting documents must be attached to this document.
Mark the appropriate certification:

"I, Nicholas Spatola, P.E., Project Manager, of the Faller, Davis & Associates, Inc.
Print Name of Initiator Position Title Name of Agency

do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2),
Mark appropriately (choose only one option):

- that this patented or proprietary item is essential for synchronization with existing highway facilities.
- that no equally suitable alternative exists for this patented or proprietary item."

Signature

January 28th, 2019
Date

For Department Use Only

"I, James S. Stroz, Jr., District Traffic Operations Engineer
Print Name Position Title

of the Florida Department of Transportation, do hereby approve this certification request made in accordance with the
requirements of 23 CFR 635.411(a)(2),
Mark appropriately (choose only one option):

- that this patented or proprietary item is essential for synchronization with existing highway facilities.
 - that no equally suitable alternative exists for this patented or proprietary item."
- Identify any conditions and limitations:

Signature

1/30/19
Date



FALLER, DAVIS & ASSOCIATES, Inc.
HIGHWAY ENGINEERING SPECIALISTS
DESIGN ENVIRONMENTAL OPERATIONS

1/24/2019

Mr. Mario Bizzio, P.E.
FDOT District Five Design Engineer
719 South Woodland Boulevard
DeLand, Florida 32720

Subject: Proprietary Product Certification Justification Letter & Backup Documentation
FPID: 439682-5
Project Name: I-4/SR 400 FROM SR 46 TO E OF SR 600 (US 17/92) (EB ONLY)
(Peek ADR 3000 w/ STOPWATCH)

Mr. Mario Bizzio, P.E.
FDOT District Five Design Engineer
719 South Woodland Boulevard
DeLand, Florida 32720

Subject: Proprietary Product Certification Justification Letter & Backup Documentation
FPID: 439682-5
Project Name: I-4/SR 400 FROM SR 46 TO E OF SR 600 (US 17/92) (EB ONLY)
(Peek ADR 3000 w/ STOPWATCH)

Dear Mr. Bizzio,

Please see the attached Proprietary Product Certification Form 630-020-07 completed in accordance with Procedure 630-020-005 adopted on August 20, 2014. Please also see the required justification below:

1) Description of the project need for the proprietary product.

- a. Project Description: The I-4/SR 400 FROM SR 46 TO E OF SR 600 (US 17/92) (EB ONLY) project includes the installation of a rack mounted traffic monitoring Site Vehicle Speed/Classification Unit as part of the Intelligent Transportation System (ITS) along I-4/SR 400 at existing PTMS site 770266. The Traffic Monitoring Site Vehicle speed/classification unit provides traffic data such as vehicle speed, volume, classification and occupancy as a non-intrusive alternative to inductive road-embedded dual-loop systems.
- b. Capabilities: There is a need to provide data in 30 second intervals to update travel time information as part of the Advanced Traffic Management System (ATMS). At the same location there is a need to record volume data at an accuracy level that meets national Highway Performance Monitoring System (HPMS) accuracy levels.



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- c. Compatibility with Existing Software: SunGuide software is used to control the ATMS. Devices need to work within SunGuide.
- d. Proprietary Product Description: Of the devices that meet the accuracy requirements, only one device is capable of reporting data in 30 second bins via an IP network:
 - i. Peek ADR 3000 with StopWatch

2) Factual and technical supporting evidence for Unique Need.

Function: An evaluation of the pool of potential products and a description of why other products cannot meet the Contracting Agency's needs:

- a. The State of Florida has an Approved Products List for items that meet performance requirements of HPMS for controllers. Those items are listed below:
 - i. Peek ADR 3000 TRAFICOMP III
 - ii. Diamond Traffic Phoenix II
- b. Of the pool of two possible controllers, one is not applicable:
 - i. Diamond Traffic Phoenix II does not support 30 second bins reported over an IP Network.

3) Explanation how the evidence links it to the project need.

- a. This is a resurfacing project that is milling out the current PTMS site and affecting the ATMS site.
- b. The function of connecting to the ATMS for travel time information is required based on the FDOT standard of sensors every ½ mile on limited access corridors.
- c. FDOT standards provide communication via an IP network to work with the central software: SunGuide.
- d. Reporting information to HPMS is identified as a need based on federal standards.

4) Factual and technical supporting evidence that no alternatives are available.

- a. Enclosed is a manual for the Diamond Traffic Phoenix II, showing it does not support 30 second bins reported over an IP Network. As such, it cannot be joined to an IP network and provide the required recording intervals.

If you have any questions please feel free to contact me at (407) 644-2116 or via email at nspatola@fallerdavis.com.

Sincerely,

Nicholas J. Spatola, P.E.

Faller, Davis & Associates, Inc.

Project Manager