



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
PROPRIETARY PRODUCT CERTIFICATION

630-020-07
PROGRAM MANAGEMENT
06/16

To: Mario Bizzio, P.E.
Design Engineer

Date: 5/25/2018

Financial Project ID: 439122-1-52-01 New Const. RRR
Federal Aid Number: N/A
Project Name: SR 500/US 192 From W. of Arthur J. Gallagher Blvd. to E. of Harmony Square Drive
State Road Number: 500 Co. / Sec. / Sub.: Osceola / 92030
Begin Project MP: 18.182 End Project MP: 19.340
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, Jason M. Smith, Consultant Engineer of Record, of the SRD, 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."

Jason M Smith

2018.05.25 11:43:23 -04'00'

_____, 5/25/2018
Signature Date

For Department Use Only

"I, JAMES S. STROZ, JR., DIST. TRAFFIC OPS. 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:

_____, 5/30/18
Signature Date

SRD

ENGINEERS

3812 Coconut Palm Dr. Suite 100
Tampa, FL 33619
Tel: (813) 621-3250
Fax: (813) 621-3331

DATE: May 21, 2018

TO: Mario Bizzio, P.E / FDOT District 5 Design Engineer

FROM: Jason Smith, P.E., Consultant Engineer of Record

COPY TO: Zachary Sullivan, P.E., FDOT Project Manager; Jim Stroz, P.E., Anthony Nosse, P.E.

SUBJECT: Proprietary Product Certification Justification
Financial Project ID: 439122-1-52-01
Federal ID Number: N/A
County: Osceola
SR. No.: 500
Project Limits: From W. of Arthur J. Gallagher Blvd to E. of Harmony Square Dr

Emergency Preemption Systems serve to provide emergency vehicles with the ability to quickly and safely navigate signalized intersections by providing temporary right-of-way through the use of common traffic controller functions.

Osceola County is seeking to install Global Traffic Technologies, OPTICOM GPS Receivers/Transmitters, Model 764 GPS & IR Phase Selectors, on all signalized intersections with emergency preemption in Osceola County. All of the County's front line apparatus is currently equipped with Opticom Infrared (IR) emitter and are transitioning the entire fleet (front line and reserve apparatus) over to Opticom GPS emitters with a project that began in Fiscal Year 17/18 and will run for four years to complete the transformation.

There are several key advantages of the GPS system of the IR system. The high-priority setting of the Opticom GPS system is compatible with the low-priority setting, Transit Signal Priority, which Lynx added to their transit system. It can preempt out 2,500 feet rather than IR's 1,000 foot distance, which makes the GPS system much more effective in clearing corridors prior to the emergency vehicle arriving at the intersection. The GPS system is not a "line of sight" system. Roadway curves, buildings, trees, and other factors that could inhibit preemption communication would not impact the GPS system. It also gives emergency vehicles protected left turns. In addition, maintenance work is reduced since there is no need to clean optical detectors or reposition them after storms.

There are ten products currently listed in the FDOT Approved Product List (APL), classified under the Preemption System category. However, the Global Traffic Technologies® Model Number 764 GPS & IR Phase Selector is the only product compatible with the existing Osceola County system utilizing both GPS and IR capabilities.

Osceola County Traffic Engineering is therefore requesting the need to implement the Global Traffic Technologies® Model Number 764 GPS & IR Phase Selector for FPID: 439122-1-52-01. Based on the capabilities of this product, we are requesting this as a proprietary and unique product that is essential for the synchronization with the existing highway facilities with Osceola County.