

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**PROPRIETARY PRODUCT CERTIFICATION**

690-020-07  
SPECIFICATION  
08/14

To: Fursan Munjed, P.E.  
Design Engineer

Date: 7/11/2018

Financial Project ID: 441204-1-58-01 New Const.  RRR   
Federal Aid Number: D518-079-B  
Project Name: Poinciana Boulevard and Siesta Lago Traffic Signal  
State Road Number: Off System Co. / Sec. / Sub.: Osceola  
Begin Project MP: N/A End Project MP: N/A  
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, Mary Moskowitz, Director of Transportation Planning, of the Osceola County Transportation  
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."

Mary Moskowitz 8-8-2018  
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:

James S. Stroz, Jr. 9/19/18  
Signature Date

# Transportation & Transit Department



August 22, 2018

Mario Bizzio, P.E. – District 5 Design Engineer  
Florida Department of Transportation  
719 South Woodland Boulevard  
Deland, FL 32720

**Subject: Justification for Use of Proprietary Products for Traffic Signal and ITS Equipment by Osceola County – FPID: 442547-1-93-01**

Dear Mr. Bizzio,

**Tawny Olore, PE**  
Executive Director

Osceola County Transportation & Transit requests the approval of the attached Proprietary Product Certification Form No. 630-020-07, completed in accordance with Proprietary Products Review and Certification Procedure 630-020-005-a, adopted August 20, 2014, for the following proprietary products:

- Econolite, Wired Cabinet Assembly TS2 Size 7 with Econolite Cobalt ATC Controller with Ethernet — NEMA TS2
- Econolite, Cobalt TS2-2 ATC Controller with Ethernet – NEMA TS2

**Mary Moskowitz, AICP**  
Transportation Planning

This equipment is being requested for replacement of legacy traffic signal controllers and cabinet assemblies in the Osceola County area. Approval of these proprietary products is requested for consistency with the County's existing traffic signal systems and will prevent the need for supplemental training and synchronization efforts. Further justification for the use of these proprietary products has been provided below.

## Function

- The Osceola County operates Econolite's Centracs ATMS central control software from the Osceola County TMC. Econolite traffic signal controllers are required to function with this software system.
- The Cobalt ATC controller is the most recent addition to Econolite's line of traffic signal controllers. Use of these controllers will support future connected vehicle and automated traffic signal performance metric data collection functionality, which are goals of the County and FDOT District 5.
- The Econolite TS2 Size 7 — NEMA TS2 cabinet is manufactured by Econolite and is verified to be compatible with the Econolite's Cobalt TS2-2 ATC Controller.
- The County's ITS communication network utilizes Ethernet at the Data-link layer; therefore, Ethernet communications is a requirement of traffic signal controllers.

**Kathy Lee, PE**  
Traffic Operations Engineer

## Transportation & Transit Department



### Aesthetics

- The design of the Econolite TS2 Size 7 cabinet is consistent with other traffic signal controller cabinets recently deployed in Osceola County.

### Logistics

- Econolite's traffic signal controllers and cabinets are utilized throughout Osceola County. County staff is familiar with the maintenance and operations of these traffic signal controllers and controller cabinets.
- The County's Centracs ATMC central software system requires Econolite traffic signal controllers.

### Lifecycle

- The City of Kissimmee, who maintains signals in the County, and Osceola County maintain spare Econolite cabinets and parts. Use of Econolite traffic signal controllers and controller cabinets will allow for timely repair and replacement of failed or damaged components.
- The County exclusively uses Econolite traffic signal controllers and has found that the equipment performs well over extended periods of use.

### Training

- Since Econolite traffic signal controllers are used throughout the County, maintenance and operations personnel have extensive experience with this equipment. No additional training will be required.

### Synchronization

- Consistency in the traffic signal system is critical due to limited Osceola County and City of Kissimmee resources and staff. Use of the Econolite traffic signal controller and controller cabinets allows both agencies to leverage significant sunk cost in training, lessons learned, software, and spare components.
- Osceola County operates Econolite's Centracs ATMS central control software from the Osceola County TMC. Econolite traffic signal controllers are required to function with this software system.
- The Econolite Cobalt ATC controllers are capable of fulfilling the automated traffic signal performance metric data collection goals of FDOT District 5, which will support the District's Integrated Corridor Management, Decision Support System, and Data Fusion initiatives.

In summary, Osceola County is requesting approval for the use of the aforementioned proprietary products listed in this document.

Sincerely,

A handwritten signature in black ink, appearing to be "M. S. M.", is written over a horizontal line.

Osceola County Transportation & Transit

**Osceola County**