



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
PROPRIETARY PRODUCT CERTIFICATION

630-020-07
PROGRAM MANAGEMENT
06/16

To: Mario Bizzio, P.E.
Design Engineer

Date: 8/31/2018

Financial Project ID: 441023-1-58-01 New Const. RRR
Federal Aid Number: _____
Project Name: State Road 500 (US 192) at Waverly Place
State Road Number: 500 Co. / Sec. / Sub.: Brevard / 70050
Begin Project MP: 15.821 End Project MP: 15.924
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, Tom Baker, Engineering Supr., of the City of Melbourne
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."

Tom Baker 8/31/18
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:

[Signature] 9/12/18
Signature Date

Financial Project ID: 443669-1-S2-01440123-1-58-01

Name of Initiator: Tom Baker, Engineering Supr., City of Melbourne

Item	Patented or Proprietary Item is Essential for Synchronization with Existing Highway Facilities	No Equally Suitable Alternative Exists for this Patented or Proprietary Item	Approved	Not Approved
Trafficware, Wired Cabinet Assembly TS2 Type 6 Model 70006-TS2/FL	x		x	
Trafficware, Controller NEMA TS2 Type 1, Series 900, Model ATC	x		x	
Trafficware Group, Malfunction Management Unit (MMU) Type 16 model MMU-516L	x		x	
Square D QO Series Load Center and Circuit Breakers	x		x	
Brown, formerly Siemens/Eagle, Signal Heads	x		x	
GE/Lumination Signal LED Indications	x		x	
Campbell DCC-200 Ped Pushbutton Detectors	x		x	



James S. Stroz, Jr. P.E.

District Traffic Operations Engineer

City of Melbourne



Engineering Department
900 E. Strawbridge Avenue • Melbourne, FL 32901 • (321) 608-7300 • Fax (321) 608-7319

August 31, 2018

VIA EMAIL

Mr. Mario Bizzio, P.E.
District 5 Design Engineer
Florida Department of Transportation
719 S. Woodland Blvd.
DeLand, FL 32720-6800

Subject: Justification for Preferred Use of Proprietary Products for Traffic Signal and ITS Equipment by City of Melbourne – SR 500 and Waverly Place FPN 440123-1-58-01

Dear Mr. Bizzio:

The City of Melbourne Traffic Engineering Division requests approval of the attached completed and assigned Proprietary Products Certification Form 630-020-07 for the following proprietary products.

1. Wired cabinet assembly, Trafficware, NEMA TS2, Type 6, model 70006-TS2/FL
2. Controller, Trafficware, NEMA TS2 Type 1, Series 900, Model ATC
3. Malfunction management unit, Trafficware, Type 16, Model MMU-516L
4. Load center and circuit breakers, Square D QO Series
5. Signal heads, Brown, formerly Siemens/Eagle
6. Signal LED indications, GE/Lumination
7. Pedestrian pushbutton detectors, Campbell DCC-200

This equipment is being requested for the traffic signal installation as part of the subject project. Approval of these proprietary products will allow consistency with existing equipment within the City providing synchronization and reducing cost by eliminating the need for additional training and inventory. Please find further justification as discussed below for the use of these products.

1. Wired Cabinet Assembly, Trafficware, NEMA TS2, Type 6, model 70006-TS2/FL
Evidence for synchronization:
 - a. Function: This cabinet is compatible with the traffic controller and malfunction management unit (MMU) used by the City. Existing City cabinets are Trafficware TS2 Type 6.
 - b. Logistics: City staff is familiar with the Trafficware cabinet and is able to quickly identify, repair, and maintain the equipment which reduces impacts to public traffic. In addition, the City stocks and maintains spare Trafficware cabinets and parts, which minimizes the volume of stocked parts and provides part interchangeability for the entire traffic signal system. Using this cabinet provides the most cost-efficient utilization of the City's limited staff.
2. Controller, Trafficware, NEMA TS2 Type 1, Series 900, ATC
 - a. Function: This controller with ethernet is consistent with the City's existing traffic signal controllers and is compatible with the cabinet and MMU used throughout the City. This controller is compatible with the traffic management center's (TMC) Trafficware ATMS.now central software and the Trafficware cabinet. The 16-line display screen and menu navigation panel allows City staff to efficiently troubleshoot and program in the field. The City converted its entire traffic signal system to Trafficware equipment in 2004 giving it 14 years of experience with Trafficware controllers.

- b. Logistics: City staff is familiar with the software and programming of the controller, allowing staff to quickly identify problems, efficiently program and maintain equipment which reduces impacts to public traffic. Additionally, the City stocks and maintains spare Trafficware controllers and can quickly replace any failing or damaged controllers.
3. MMU, Trafficware, Type 16, Model MMU-516L
 - a. Function: This MMU is consistent with the MMU's used throughout the City. The MMU monitors the traffic signal system for conflict, improper sequencing, incorrect timing, and improper signal voltage levels. This MMU can be configured to the Trafficware NEMA TS2, Type 1, Series 900 controller and is compatible with the Trafficware TS2, Type 6 cabinet.
 - b. Logistics: City staff is familiar with the Trafficware MMU, allowing staff to quickly identify problems, efficiently program and maintain equipment. Additionally, the City stocks and maintains spare Trafficware MMU's and can quickly replace any failing or damaged MMU. Using this MMU provides consistency and the most efficient use of the City's limited staff resources while minimizing delay and increasing safety for public traffic.
4. Load center and circuit breakers, Square D QO Series
 - a. Function: This load center and breaker model is consistent with the load centers used for the electrical service throughout the City.
 - b. Logistics: The City stocks and maintains spare Square D QO series breakers. Using this load center provides consistency which minimizes repair time. Using this load center also minimizes the number of breaker models that the City must stock, thereby conserving stock storage space.
5. Signal heads, Brown, formerly Siemens/Eagle
 - a. Function: This signal head model is consistent with the signal heads used throughout the City.
 - b. Logistics: The City stocks and maintains spare Siemens/Eagle signal heads. Using this signal head provides consistency. Using this signal head also minimizes the number of signal head models that the City must stock, thereby conserving limited stock storage space.
6. Signal LED indications, GE/Lumination
 - a. Function: This LED indication is consistent with the indications used throughout the City.
 - b. Logistics: The City stocks and maintains spare GE/Lumination LED indications. Using this indication provides consistency. Using this indication also minimizes the number of different indicators that the City must stock, thereby conserving limited stock storage space.
7. Pedestrian pushbutton detectors, Campbell DCC-200
 - a. Function: This pushbutton detector is consistent with the detectors used throughout the City. Staff has also found this model of detector to be very durable and reliable.
 - b. Logistics: The City stocks and maintains spare Campbell DCC-200. Using this detector provides consistency. Using this detector also minimizes the number of different detector models that the City must stock, thereby conserving limited stock storage space.

If you have any questions or need any additional information, please don't hesitate to contact me at 321-608-7310 or by email at thomas.baker@mlbfl.org.

Sincerely,

Tom Baker

Tom Baker, P.E.
Engineering Supr.

Cc: Jenni Lamb, P.E., City Engineer
Scott Arnold, Traffic Engineering Operations Mgr.