



**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**  
**TRAFFIC OPERATIONS DIVISION**  
SUITE 1800, JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-1402  
(615) 253-1122

**HOWARD H. ELEY**  
COMMISSIONER

**BILL LEE**  
GOVERNOR

TO: Lori Lange, Assistant Chief of Engineering  
FROM: Andy Barlow, Director of Traffic Design Division  
SUBJECT: **Proprietary Item Request and Justification**  
**City of Morristown**

The City of Morristown is requesting the following items be used in all signalization projects within their jurisdiction over the next three years where Federal and/or State funding are used.

- 1) **Traffic Signal Controllers:** Siemens Eagle EPAC.
- 2) **Malfunction Management Units (MMU):** EDI-SmartMonitor MMUs.
- 3) **Traffic Signal Detection:** Wavetronix Smartsensor Matrix and Advance Radar Detection.
- 4) **Emergency Pre-Emption System:** 3M Opticom Infrared System.
- 5) **Pedestrian Pushbuttons:** Polara Intelligent Navigator.

The above items are essential for synchronization with existing facilities. The City of Morristown staff has been extensively trained to install, operate, maintain, program, troubleshoot, and repair these items. This allows technicians to quickly diagnose issues which reduces the time required to maintain the system overall and helps keep the system operational during heavy traffic times to ensure maximum capacity of the synchronized system. By utilizing these items as the standard for the City of Morristown, there will be a cost savings in stocking replacement equipment and will result in faster and less costly repair. See attached letter for additional justification details of this request.

I, Andy Barlow, Director of the Traffic Design Division of the Tennessee Department of Transportation, do hereby certify that in accordance with the requirements of 23 CFR 635.411(a) (2) that the patented or proprietary items listed above are essential for the synchronization of existing facilities.

*Andrew Barlow*

Andrew Barlow (Aug 21, 2023 19:25 CDT)

Director of Traffic Design Division

*Lori Lange*

Lori Lange (Aug 22, 2023 07:42 CDT)

Assistant Chief of Engineering

Aug 22, 2023

Date

# City of Morristown

Incorporated 1855



August 21, 2023

Mr. Steve Bryan, P.E.  
TDOT Traffic Operations Division  
James K. Polk Building, Suite 1300  
505 Deaderick Street  
Nashville, TN 37243

RE: TDOT Project, PIN 101419.03 Hamblen County: SR-34 Widening From SR-32 in Morristown to Near East Morris Boulevard

Dear Mr. Bryan,

The City of Morristown requests the use of the following proprietary products in conjunction with the above project, which includes the replacement of one of our traffic signals, as well as all future traffic signal installations maintained by the City over the next three years. These products are as follows:

- **Controller:** Siemens Eagle EPAC
- **MMU:** Eberle Design Inc. (EDI) Smart Monitor
- **Vehicle Detection:** Wavetronix Smartsensor Matrix radar detection devices
- **Preemption:** 3M Opticom
- **Pedestrian Pushbuttons:** Polara Intelligent Navigator

The above items are essential for synchronization with existing facilities. Specifically, City staff has been trained to install, operate, maintain, program, and troubleshoot these items, as they are the City's standard equipment. Also, the City stocks replacement equipment for these items, resulting in faster and less costly repairs. More details on each of these items are as follows:

**Controller:**

Eagle EPAC controllers are installed at all 64 of the signalized intersections in the City, and the City intends to continue installing them at future intersections.

**MMU:**

EDI Smart Monitor MMU's are installed at all 64 of the signalized intersections in the City, and the City intends to continue installing them at future intersections.

***Vehicle Detection:***

Wavetronix radar detection devices are installed at 28 of the 64 signalized intersections in the City, with 8 more installations planned. The City intends to continue installing them at future intersections.

***Preemption:***

Opticom preemption devices are installed at 56 of the 64 signalized intersections in the City, and the City intends to continue installing them at future intersections. All Fire Department vehicles are equipped with the Opticom devices, which gives them priority at these intersections.

***Pedestrian Pushbuttons:***

Polara accessible pushbuttons are installed at 2 of the 64 signalized intersections in the City, and the City intends to continue installing them at future intersections. The Polara devices meet the accessibility requirements of the PROWAG.

Please feel free to contact me if you have any questions.

Sincerely,



Larry Clark, CMFO

Asst. City Administrator

(423) 585-4617

[lclark@mymorristown.com](mailto:lclark@mymorristown.com)