



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN 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: Shane Hester, Executive Director of Engineering

SUBJECT: **Proprietary Item Request and Justification
Knox County**

The Knox County 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:** McCain Controllers including the ATC eX2 NEMA Series.
- 2) **Traffic Signal Detection:** Miovision SmartView 360 Detection with Miovision SmartLink Hardware.

The above items are essential for synchronization with existing facilities. The Knox County 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 Knox County, 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.

Approval of items for proprietary use does not guarantee state or federal reimbursement on the project. The local government agrees to comply with all current, applicable provisions of the Build America Buy America (BABA) requirements established under 23 USC 313 and 23 CFR 635.410.

I, Shane Hester, Executive Director of Engineering of the Tennessee Department of Transportation, do hereby certify that in accordance with the requirements of Procedures for Using Patented or Proprietary Products (SOP 1-5) that the patented or proprietary items listed above are essential for the synchronization of existing facilities.

Executive Director of Engineering

Lori Lange (Mar 19, 2025 13:37 CDT)

Assistant Chief of Engineering

Mar 19, 2025

Date



ENGINEERING & PUBLIC WORKS

Development Services • Fleet Management • Environment and Planning • Operations

February 3, 2025

Mr. Steve Bryan, P.E., PTOE.
TDOT Traffic Operations Division
James K. Polk Building, Suite 1800
505 Deaderick Street
Nashville, TN 37243

RE: Proprietary Item Request and Justification Knox County

Dear Mr. Bryan

Knox County has completed construction of a CMAQ-funded TDOT Local Programs projects and is currently in final design on an additional CMAQ signal related projects. It is critical to maintain operational and functional consistency with the existing and proposed infrastructure, hardware and software. The County has previously requested and received proprietary approval for traffic signal controllers and traffic signal system central software. Knox County is requesting the following items be used in all signalization projects within their jurisdiction over the next three years (3) where Federal and/or State funding are used.

McCain ATC eX2 NEMA Controller or current equivalent

As part of the CMAQ Phase I project, Knox County installed six (6) of the above-referenced signal controllers; one (1) in each cabinet associated with that project. The County already utilized more than a dozen at other intersections. Additionally, the County has experience with these devices and is satisfied with their performance. The County's technicians and the technicians for the County's on-call contractor have completed training, have on-the-job experience, and are familiar with the operation the devices and their components, and these technicians perform routine maintenance and troubleshooting. The Engineering and Public Works Department maintains spare parts for all the signal equipment.

Video Detection: Miovision SmartView 360 with Miovision SmartLink Hardware or current equivalent

The County utilizes these cameras at various existing intersections to view traffic in real-time and make changes to the timings if necessary. The cameras also are used for vehicles detection, which helps maintain coordination along the main corridors within the County limits. Additionally, the County has experience with these devices and is satisfied with their performance. The County's technicians and the technicians for the County's on-call contractor have completed training, have on-the-job experience, and are familiar with the operation the devices and their components, and these technicians perform routine maintenance and troubleshooting. The Engineering and Public Works Department maintains spare parts for all the signal equipment.

Thanks for your consideration concerning this request as Knox County upgrades and enhances their existing advance traffic control system. If you have any questions, please contact me by phone at (865) 215-5836 or email at cathy.olsen@knoxcounty.org.

Sincerely,

Cathy Olsen
Operations Director
Engineering and Public Works