



# MEMORANDUM

Missouri Department of Transportation

St. Louis District

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**TO:** Eric Schroeter  
State Design Engineer

**CC:** Jim Smith – de  
Alex Wassman – tr

**FROM:** Jeanne M. Olubogun *Jeanne M Olubogun*  
District Traffic Engineer - St. Louis Metro District

**DATE:** March 29, 2016

**SUBJECT:** District ITS Maintenance  
J6Q2344F, J6Q3000F  
Public Interest Finding Request  
Cohu Electronics

We request approval of a public interest finding (PIF) to use Cohu Electronics on the following project(s):

J6Q2344F} Upkeep of the St. Louis District ITS (Intelligent Transportation System)  
J6Q3000F} system

These projects fund ITS replacement equipment. The deployments of these devices are replacements to existing installations, not an expansion to the system. The projects include the purchasing of replacement CCTV (Closed Circuit Television) cameras, a significant component of the St. Louis District's ITS system, controlled by the ATMS (Advanced Transportation Management System) software.

#### Cohu Electronics - CCTV Cameras

Our current CCTV deployment is comprised of Cohu Electronics devices. Considering the installation, integration, and maintenance expenses and risks associated with using non-Cohu Electronics products, the St. Louis District respectfully requests to use Cohu Electronics CCTV Cameras. We have performed a thorough evaluation of other devices. That evaluation is discussed further in this document.

#### Existing Cohu Electronics Deployment

Currently, the above referenced Cohu Electronics equipment is being utilized across the St. Louis District at 312 locations. These devices facilitate viewing of the roadways in the St. Louis TMC (Traffic Management Center) operations and the public. This system began in 2001 and supports traffic and incident management along the roadways.

Integration with Current System

To maximize the efficiency of the district’s ITS system, we request that Cohu Electronics equipment be used for replacement, in kind, of existing Cohu CCTV devices. Similar replacements will minimize installation, integration, and maintenance costs. Cohu CCTV’s are currently integrated with the ATMS software to provide use of the devices for the TMC and the public.

Discussion of Alternatives

Over the last 2 years, the district has tested several CCTV cameras from different vendors to determine if cost effective alternatives exist. There are basic industry standards with camera equipment that allows many manufacturers to meet written specifications, but not be cost effective in the following:

- Installation: Alternate models at existing Cohu locations cannot be installed without significant work. Different cameras must use a different mounting bracket, requiring removal and replacement of the existing bracket. The cabling from the elevated camera location to the ground level network connection would also need to be removed and replaced. This work incurs approximately 3 hours of work per location in an elevated bucket truck along the roadside.
- Integration: Cohu cameras are fully integrated into ATMS software. Replacement Cohu CCTVs take minimal staff effort to be usable. Replacing a Cohu CCTV with another ATMS compatible brand will result in increased time and budget to make a device fully functional for ATMS users. This extra integration cost would be included in any bid price to the vendor. To deploy and integrate alternative devices within a reasonable amount of time would be unlikely. It would be more timely to replace in kind with Cohu CCTVs. Minimizing integration time is critical given the need for CCTV use by TMC staff.
- Maintenance: Due to the inability of cameras to be interchangeable, another vendor would require the district to purchase stock, in addition to the existing Cohu stock. Maintenance replacements would be delayed as staff would need to first ascertain what brand of camera is required and deliver that type to the repair site.

In conclusion, if other CCTV brands are used, the cost to install, integrate, and maintain CCTV’s will be significantly more than the Cohu Electronics products proposed above. Therefore, it is recommended that Cohu Electronics CCTV’s be used for the upkeep of the St. Louis District ITS system.

Please feel free to contact me at (314)275-1536 if you have any questions. We appreciate your assistance on this matter.

Approved by: \_\_\_\_\_  
Eric Schroeter, State Design Engineer Date

In accordance with 23 CFR 635.411(c), I concur that it is in the public interest to use the specified patented or proprietary item.

\_\_\_\_\_  
FHWA Representative

\_\_\_\_\_  
Date