STATEMENT OF WORK

FOR

WRONG WAY DETECTION SENSOR REPLACEMENT

Prepared by

20th Security Force Squadron

12 March 2026

1. Scope/Description of Work

The purpose of this Statement of Work (SOW) is to **replace existing Wrong Way Detection System sensors** at designated Access Control Points (ACPs) at Shaw AFB.

This requirement consists of removing existing detection sensors and installing upgraded replacement sensors that are compatible with the current system. The Government intends to **retain all existing infrastructure**, including conduit, wiring, mounting locations, control systems, and annunciation interfaces.

This effort **does not include system redesign, construction, excavation, or installation of new infrastructure**.

The system shall continue to detect wrong-way entry (vehicle, pedestrian, or bicycle) and transmit signals to the existing control system to initiate visual and audible alerts for Gate Sentry personnel.

1.1 Requirements

The Contractor shall:

- Provide all labor, materials, tools, and equipment required to replace existing sensors
- Remove existing sensors and dispose of them in accordance with applicable regulations
- Install replacement sensors using existing infrastructure
- Ensure compatibility with existing control systems and annunciation equipment
- Integrate replacement sensors into the current system without modification to infrastructure
- Perform functional testing to verify proper system operation
- Provide manufacturer documentation and basic system operation guidance

Replacement sensors shall be **Commercial Off-The-Shelf (COTS)** and compatible with the existing system architecture.

1.2 System Functionality

The system shall maintain current operational capability, including:

- Detection of wrong-way entry
- Transmission of detection signal to existing control/interface systems
- Activation of audible and visual alerts in the Gate House

Where feasible, integration with Android Team Awareness Kit (ATAK) may be supported but is not required.

1.3 Standards and References

The Contractor shall comply with applicable standards for equipment installation and electrical safety, including:

- National Electrical Code (NEC)
- National Electrical Safety Code (NESC)
- Applicable manufacturer installation requirements

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2. Location of Work

Work shall be performed at the following ACP locations at Shaw AFB:

- Main Gate
- 441 Gate
- Sumter Gate

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3. General Information

3.1 Hours of Operation

Normal working hours are Monday through Friday, 0730–1630, excluding Federal holidays.

3.2 Coordination

The Contractor shall:

- Coordinate site access with the Government
- Coordinate any required system interruptions in advance
- Minimize disruption to gate operations

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4. Performance Requirements

The Contractor shall:

- Install all equipment in accordance with manufacturer specifications
- Ensure no damage to existing infrastructure
- Maintain a clean and safe work environment
- Restore all work areas upon completion

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5. Testing and Acceptance

The Contractor shall:

- Perform functional testing of all installed sensors
- Demonstrate proper system operation to Government personnel

Acceptance will be based on:

- Successful installation
- Verified system functionality
- Completion of required documentation

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6. Deliverables

The Contractor shall provide:

- Manufacturer cut sheets for installed equipment
- Basic system operation instructions
- Warranty documentation

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7. Warranty

The Contractor shall provide a minimum:

- **One (1) year warranty** on all materials and workmanship

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8. Constraints

The following limitations apply:

- No trenching, excavation, or digging
- No installation of new conduit or infrastructure
- No system redesign or engineering modification
- Work is limited to replacement and integration of existing components

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9. Period of Performance

60 days After Receipt of Order