



**SPECIAL PROVISIONS
FOR
DRIVEWAY ASSISTANCE DEVICE**

**Monroe County
STP-137-1(021)--2C-68**

**Effective Date
December 17, 2024**

THE STANDARD SPECIFICATIONS, SERIES 2023, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

230271.01 Description.

The Driveway Assistance Device (DAD) is a portable device designed to be used for residential driveways or entrances that fall within a one lane, bi-directional work zone. It may be either trailer or cart mounted, with one signal head positioned horizontally having three LED indications as follows; one 8 inch or 12 inch red left flashing arrow, one 12 inch red ball indication centered between the arrows and one 8 inch or 12 inch red right flashing arrow mounted in a polycarbonate signal head with visors.

230271.02 Materials.

A. Platform.

The cart or trailer platform shall have ample batteries and solar charging capabilities to ensure extended run times without external charging. The platforms shall be equipped with 110 volt charger to facilitate external charging. The platform shall be equipped with a digital LED readout displaying the current battery voltage at all times. The platform shall be painted highway safety orange and be clearly marked with the manufacturer, serial number and emergency phone number.

B. Operational Requirements.

1. The DAD shall only be used in conjunction with a portable traffic system conforming to the requirements of the NEMA TS 5 Standard.
2. DAD units shall be programmable as part of the portable traffic signal system in 1 second increments from 3 to 999 seconds. In the event multiple DAD units are required, all units shall be capable of being programmed with individual timing programs, allowing for sequential activation based on their placement within the work zone.
3. Each DAD shall be equipped with a malfunction management unit meeting the requirements

of NEMA TS-5.

C. Communication Requirements.

1. All signals and DADs within the signal system shall have the ability to communicate via 900 MHz wireless radio as a primary data communication method between units. If wireless connectivity is not feasible, hardwired connectivity shall be an acceptable alternative.
2. When wireless radio communication is utilized, the radio units shall maintain the communication link at a minimum distance of 1 mile under normal operating conditions. Normal operating conditions shall be defined as a clear line of sight between PTS units. The radio system shall conform to the applicable Federal Communication Commission requirements and all applicable state and local requirements.
3. If hardwired communication is utilized, the communication cable shall be deployed in a manner that will not intrude in the direct work area of the project or obstruct vehicular and pedestrian traffic.

D. Signage.

Each Driveway Assist Device shall be furnished with two regulatory signs placed on or near the DAD in an area conspicuous to the motorist. The signs should read:

- Sign 1: Proceed On Flashing Red Arrow After Stop
- Sign 2: No Turn On Red

230271.03 CONSTRUCTION.

Locate DADs as shown in the contract documents.

230271.04 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.

When specified in the contract document, Driveway Assistance Devices shall be incidental to the bid item Temporary Traffic Signals.