Replace section 12-3.38 with:

12-3.38 AUTOMATED FLAGGER ASSISTANCE DEVICES

12-3.38A General

12-3.38A(1) Summary
Section 12-3.38 includes specifications for placing, maintaining, and removing automated flagger assistance devices (AFADs).

12-3.38A(2) Definitions

automated flagger assistance devices: Devices that enable a flagger to be positioned out of the lane of traffic and are used to control motorists through work zones. They are designed to be remotely operated either by a single flagger at one end of the work zone or at a central location, or by separate flaggers near the devices.

12-3.38A(3) Submittals
Submit a copy of the manufacturer’s operating instructions for the automated flagger assistance devices.

12-3.38A(4) Quality Assurance
Reserved

12-3.38B Materials

The automated flagger assistance device must comply with the California MUTCD, Section 6E.04, and Section 6E.06, "Red/Yellow Lens Automated Flagger Assistance Devices."

The device must:
1. Be equipped with a gate arm, which must cover at least half the lane but not extend into the opposing lane
2. Alternately display a steadily illuminated circular red lens and a flashing circular yellow lens to control traffic
3. Have a fail-safe device that prevents the operator from inadvertently actuating a simultaneous flashing circular yellow lens at both ends of the work zone
4. Have a device that monitors for malfunctions and prevents the display of conflicting indication
5. Have a 24-by-30-inch R10-6 STOP HERE ON RED sign mounted on the trailer

The device must continuously monitor the wireless communication links and verify transmission and reception of data between the devices. If communication is lost, the devices must immediately display the circular red/stop indication and lower the gate arms.
12-3.38C Construction

The devices must:
1. Be placed where a flagger station is shown with an unobstructed view from the operator
2. Be placed outside of the traveled lane
3. Be attended by the operator when in use
4. Have a minimum of 9 cones placed on a taper in advance of the device and along the edge of shoulder or edge of the traveled way at 25-foot intervals to a point not less than 25 feet past the device
5. Be clearly visible to approaching traffic and illuminated as a flagger station

If any device unit becomes inoperative, do one of the following:
1. Replace the unit with the same type and model.
2. Revert to human flagging operations.
3. Terminate all construction activities requiring the use of the devices.

Incorporate the devices into the traffic control using one of the following methods:
1. Method 1: Place one device at each end of the closure.
2. Method 2: Place one device at one end of the closure and a flagger at the opposite end of the closure.

Use two operators for both methods, except you may use a single operator if:
1. Operator has an unobstructed view of the devices
2. Operator has an unobstructed view of approaching traffic in both directions
3. Second flagger is on-site to assist with manual flagging should the device malfunction, or to direct traffic when drivers fail to comply with the devices

When AFADs are in operation:
1. Use portable transverse rumble strips at your discretion
2. Do not use the 48-inch-by-48-inch C9A (CA) sign
3. Do not use the gate cones

12-3.38D Payment

If automated flagger assistance devices bid item is not shown on the Bid Item List, providing AFADs is change order work.
Replace section 12-4.02C(9) with:

12-4.02C(9) Flagging
12-4.02C(9)(a) General
12-4.02C(9)(a)(i) Summary
Section 12-4.02C(9) includes specifications for flaggers, AFAD operators, additional flaggers, advance flaggers and flagger stations.

12-4.02C(9)(a)(ii) Definitions
AFAD operator: Qualified flagger trained and approved by the manufacturer to operate the specific automated flagger assistance device (AFAD).

12-4.02C(9)(a)(iii) Submittals
Submit training qualifications for flaggers.

Submit as an information submittal AFAD operators training certification. The submittal must include the following:

1. Name of the individual receiving certification
2. Name of the manufacturer’s trainer
3. Description of device type and model for which training was provided
4. Date when the training was provided

12-4.02C(9)(a)(iv) Quality Assurance
Flaggers must be trained under 8 CA Code of Regs § 1599.

In addition, an AFAD operator must be a trained by the manufacturer on:
1. Device type and model to be used on the project
2. Installation procedures
3. Local and remote-controlled operation
4. Maintenance of the device

12-4.02C(9)(b) Materials
Not Used

12-4.02C(9)(c) Construction
12-4.02C(9)(c)(i) General
Not Used

12-4.02C(9)(c)(ii) Flaggers
12-4.02C(9)(c)(ii)(A) General
Flaggers should stand in a conspicuous place and be visible to approaching vehicles.
12-4.02C(9)(c)(ii)(B) Automated Flagger Assistance Device Operators
When AFADs are in operation, the AFAD operators must:
1. Be positioned away from the traveled way
2. Be positioned where they have an unobstructed line of sight to approaching vehicles and to the devices
3. Keep a backup hand held AFAD remote control readily available

A pilot car driver must not operate a device and must not be considered as one of the flaggers present on-site available to operate a device.

12-4.02C(9)(d) Payment
Not Used