

Special Provision to Special Specification 6407

Full Color LED Variable Message Sign System



Special Specification 6407 “Full Color LED Variable Message Sign System” is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

Section 6407.2.2.1.2., “Lift-Face Housing.” All paragraphs are voided and replaced by the following:

Housing. The variable message sign (VMS) housing dimensions must be a maximum of 8 ft. (h) x 16 ft. (w) x 18 in. (d). The maximum weight of the sign must be 1500 lbs. Internal access to the sign components must be from the front of the VMS and provided by either a single lift-face panel or by multiple vertically-hinged rigid door panels that extend the full height of the display matrix. No exposed fasteners or welds will be allowed on the housing face.

The door panel option must have retaining latch mechanisms to hold each door open at a 90° angle. The lift-face option must have two fixed-force gas springs to hold the panel open at 60° from vertical. The single lift-face panel or each individual door panel must be secured in the closed position with a minimum of two captive-type latches that compress a gasket located around the perimeter of the panel to prevent water entry.

Design the sign and attached support elements to withstand design wind loads without permanent deformation. All sign types and attached support elements must be designed to withstand a 3-sec. gust basic wind speed of 140 mph, a gust factor of 1.14, and the AASHTO specified wind importance factor for the 50-yr. mean recurrence interval for non-hurricane regions of 1.0 (in accordance with the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals*, 6th Edition (2013.)) Front face must have black finish with an outdoor service life of 20 yr. Sign face must provide a high-contrast appearance for the display. Mask (if used) must contain an opening for each pixel.

The housing must provide safe and convenient access to all modular assemblies, components, wiring, and subsystems located within the VMS. All internal components must be removable and replaceable by a single technician.

VMS front face borders (top, bottom, left side, and right side) which surround the LED display matrix panels must be painted black to maximize display contrast and legibility.

The equipment within the sign housing must be protected from moisture, dust, dirt, and corrosion and must meet NEMA 3R enclosure criteria as defined in NEMA Standards Publication 250, “Enclosures for Electrical Equipment (1000 V Maximum).”

The floor of the housing must have a minimum of four drain holes, with snap-in, drain filter plug inserts, in each section formed by internal structural members. Water drain filter plug inserts must be replaceable. Weep holes and ventilation or exhaust hoods must be screened to prevent the entrance of insects and small animals.

Section 6407.2.3.8., “Power.” The first paragraph is voided and replaced by the following:

Power. The VMS and its controller must be capable of operating at 120/240 VAC, 30A per leg maximum load, 60 Hz, single phase power. The VMS controller cabinet must be capable of distributing power to 2 separate VMS's.

Section 6407.3.5., “Maintenance.” All paragraphs are voided and not replaced.

Section 6407.3.7., “Warranty.” All paragraphs are voided and replaced by the following:

Warranty. Ensure that the installed color VMS has a manufacturer's warranty. Materials and parts must be warranted for a minimum of 5 yr. from accepted installation date. The accepted installation date is defined as the date that the Department

determines that the sign has passed all testing requirements. The warranty will cover all defects in material, parts, design, and workmanship, including remote diagnostics. The vendor must submit the terms of warranty in writing.