

TTC QUALITY STANDARDS

WARNING SIGNS

ACCEPTABLE



All signs shall be in acceptable condition when installed.

MARGINAL



Signs in marginal condition shall not be installed.

Up to 25 percent of the signs may become marginal in condition while deployed, before they require replacement.

UNACCEPTABLE



Any sign that becomes unacceptable shall be replaced within 12 hours.

Signs that are missing or knocked down shall be replaced or reset in a timely manner.

TYPE A & B CHANNELIZING DEVICES

ACCEPTABLE



All channelizing devices shall be in acceptable condition when installed for work zones with an anticipated duration of greater than 12 hours.

For work zones durations of 12 hours or less, up to 25 percent of the channelizing devices may be in marginal condition when they are installed.

MARGINAL



Channelizing devices in marginal condition shall not be installed in work zones with an anticipated duration of greater than 12 hours.

If more than 25 percent of the channelizing devices become marginal while deployed, then the marginal channelizing devices shall be replaced within 12 hours.

UNACCEPTABLE



Any channelizing device that becomes unacceptable shall be replaced within 12 hours.

Two or more consecutive channelizing devices that are missing or knocked down shall be replaced or reset in a timely manner.

REFER to the QUALITY STANDARDS published in the Minnesota MUTCD for complete details on these devices and others not listed on this poster.

The complete Minnesota QUALITY STANDARDS also include the following devices:

- Type I, II, and III Barricades
- Vertical Panels
- Warning Lights
- Portable Changeable Message Signs (PCMS)
- Temporary Pavement Markings
- Temporary Raised Pavement Markers (TRPM)

ARROW PANEL

ACCEPTABLE



Arrow panels shall be in acceptable condition when deployed.

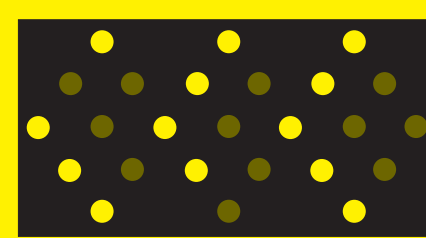
No lamps are burnt-out, all lamps sequence as required. All lamps shall dim properly. Any panels that do not dim properly will be considered unacceptable.

The panel shall be aligned for the driver's line of vision, raised to 7 feet above the ground surface, and be within 3 inches of plumb.

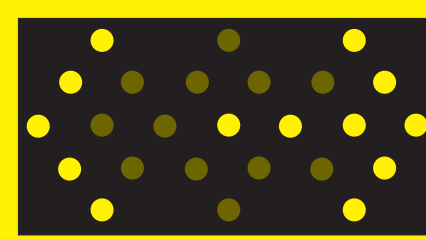
MARGINAL



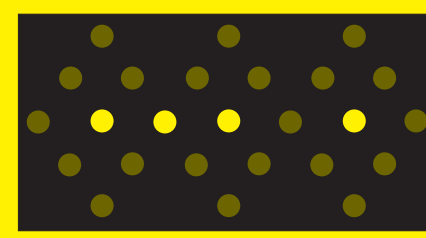
Up to 2 lamps out in stem, and no lamps out in the arrow head



No more than 1 lamp out in any one chevron segment



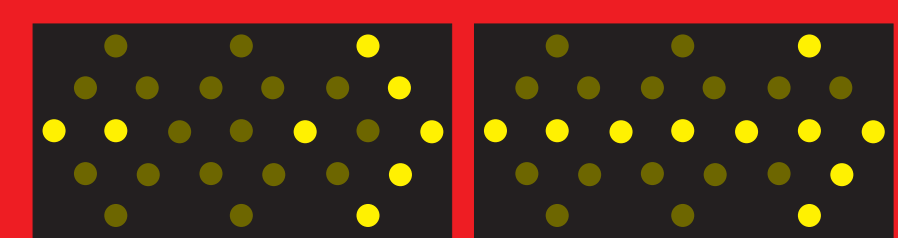
Up to 2 lamps out in stem, and no lamps out in either arrow head



At least 4 lamps functioning properly

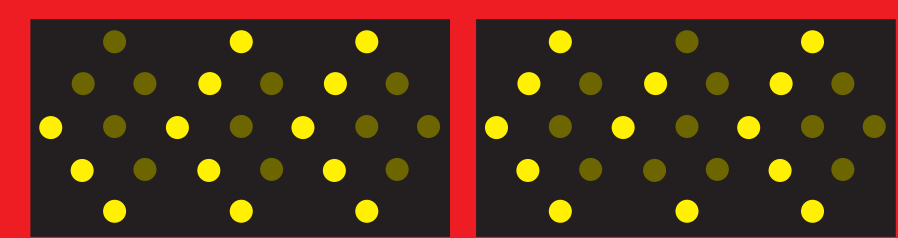
Marginal arrow panels shall not be deployed. Arrow panels that become marginal shall be replaced or repaired within 12 hours.

FLASHING ARROW MODE



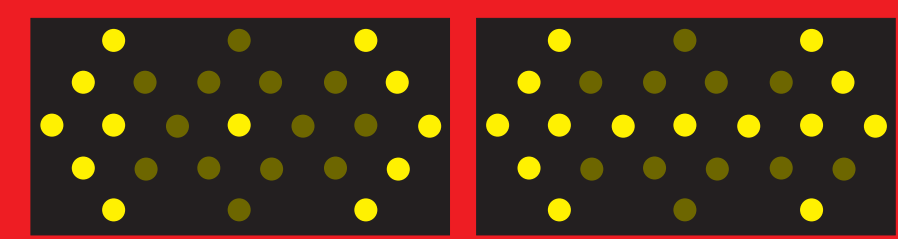
More than 2 lamps out in stem, or any lamp out in the arrow head

CHEVRON MODE



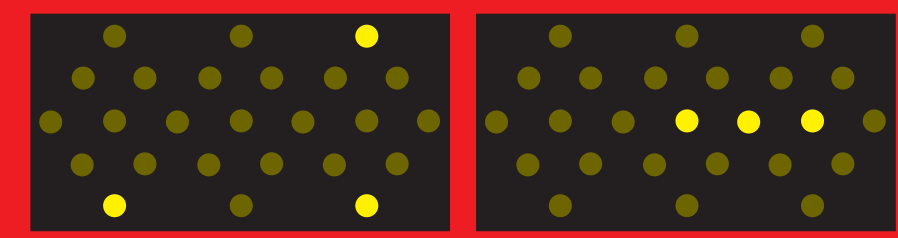
2 or more lamps out in any one chevron segment

DOUBLE ARROW MODE



More than 2 lamps out in stem, or any lamp out in either arrow head

CAUTION MODE



Less than 4 lamps functioning properly

Unacceptable arrow panels shall be replaced or repaired in a timely manner.