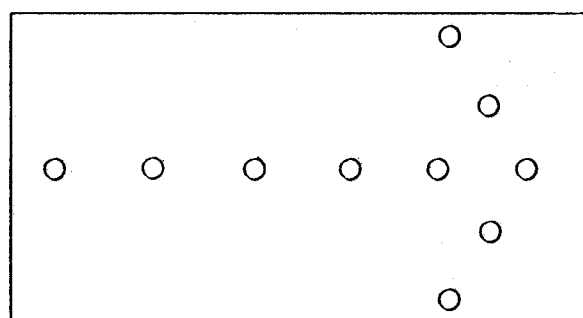
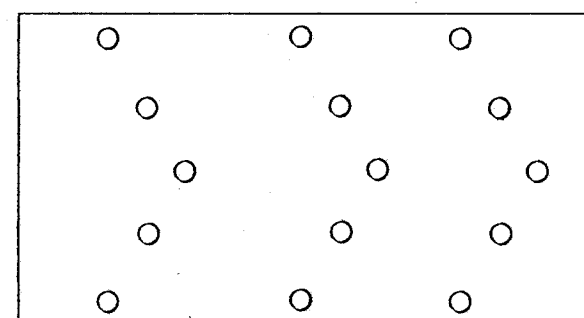


ARROW DISPLAY

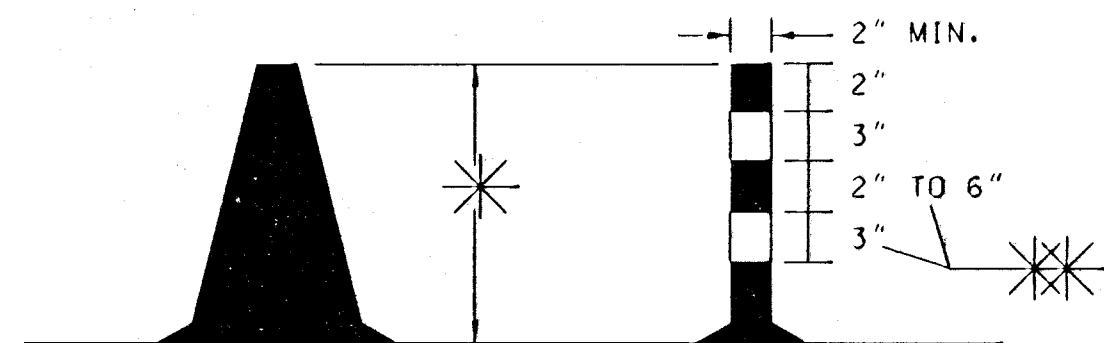


FLASHING ARROW



SEQUENTIAL CHEVRON

ARROW DISPLAY ELEMENTS SHALL BE CAPABLE OF A MINIMUM 50 PERCENT DIMMING FROM THEIR FULL-RATED LAMP VOLTAGE. FULL LAMP VOLTAGE SHOULD BE USED FOR DAY AND DIMMED MODE SHALL BE USED FOR NIGHT.

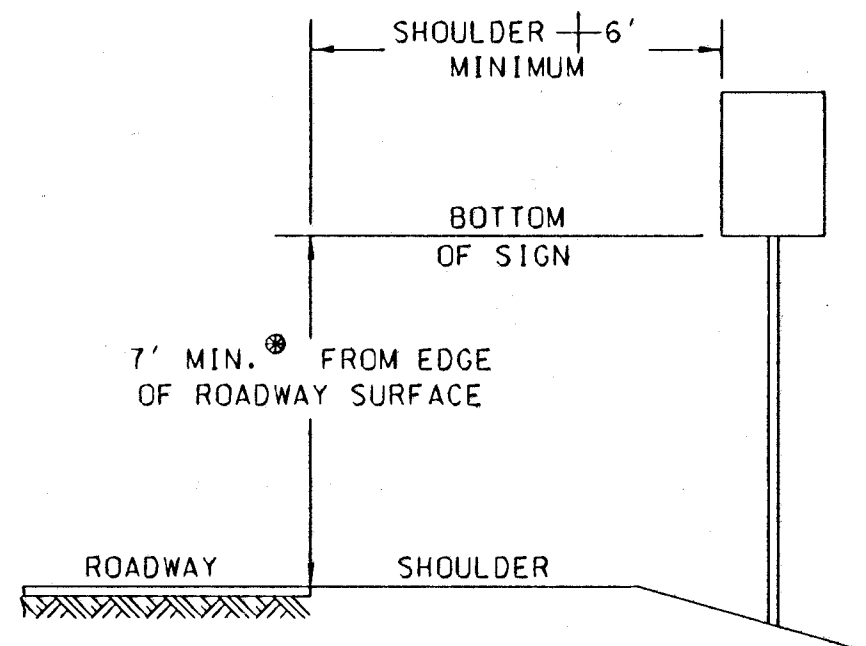


ORANGE CONES TUBULAR MARKERS

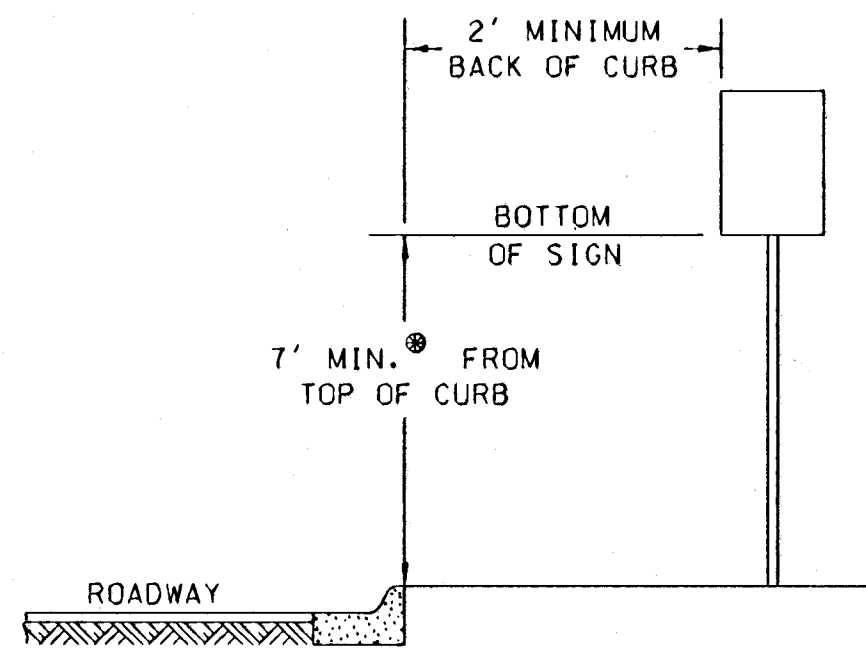
* CONES AND TUBULAR MARKERS SHALL HAVE A MINIMUM HEIGHT OF 28" WHEN USED ON 45 MPH OR GREATER ROADWAYS. THE MINIMUM HEIGHT MAY BE REDUCED TO 18" ON ROADWAYS OF 40 MPH AND LOWER.

* FOR 28" TUBULAR MARKERS

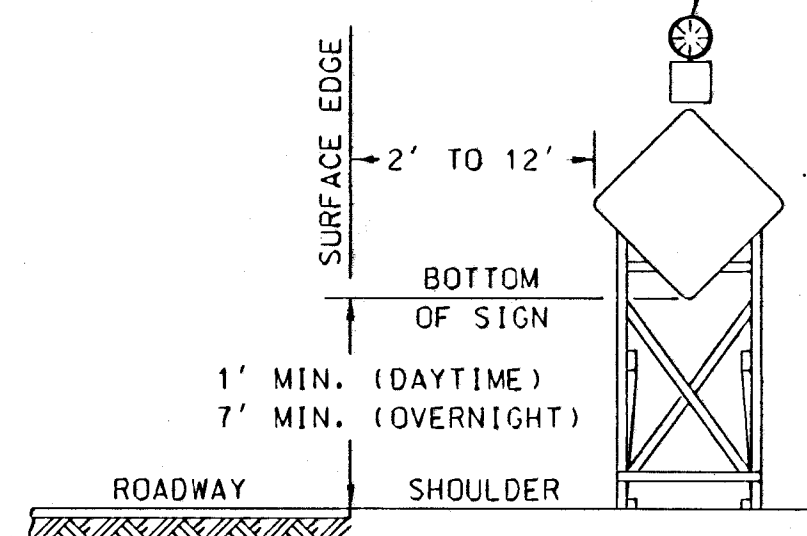
TRAFFIC CONES MAY BE USED FOR DAYTIME OPERATIONS ONLY. IN CERTAIN SITUATIONS, SUCH AS OPEN TRENCHES, THE ENGINEER MAY REQUIRE THAT CONES BE SUPPLEMENTED BY OTHER TRAFFIC CONTROL DEVICES.



HEIGHT AND LATERAL DIMENSIONS FOR POST MOUNTED SIGNS (ALL SIGNS LEFT IN PLACE OVERNIGHT OR LONGER)

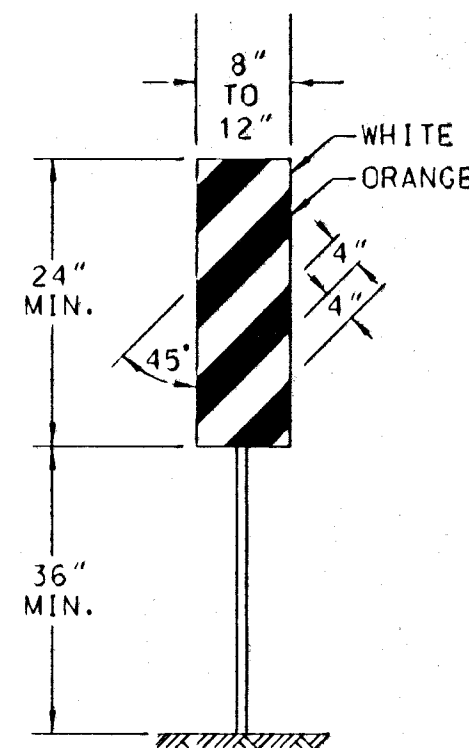


POSITION OF TYPE B LIGHT WHEN USED



HEIGHT AND LATERAL DIMENSIONS FOR SIGNS MOUNTED ON SKIDS OR OTHER MOVABLE MOUNTS

VERTICAL PANEL



THE ENTIRE AREA OF VERTICAL PANELS SHALL BE FULLY REFLECTORIZED WITH TYPE II HIGH PERFORMANCE RETROREFLECTIVE SHEETING. VERTICAL PANELS USED ON ROADWAYS WITH A SPEED LIMIT OF 45 MPH OR GREATER SHALL HAVE A MINIMUM OF 270 SQUARE INCHES OF RETROREFLECTIVE AREA FACING TRAFFIC.

WARNING LIGHTS

WARNING LIGHTS SHALL COMPLY WITH THE CURRENT ITE PURCHASE SPECIFICATIONS FOR FLASHING AND STEADY BURN WARNING LIGHTS. THE LENS SHALL BE A MINIMUM OF 7" IN DIAMETER AND BE MOUNTED AT A MINIMUM HEIGHT OF 30 INCHES.

WARNING LIGHTS USED ON INDIVIDUAL CHANNELIZING DEVICES SHALL BE TYPE A FLASHING. THOSE USED ON DEVICES PLACED IN SERIES SHALL BE TYPE C STEADY BURN, WITH THE EXCEPTION THAT WARNING LIGHTS ARE NOT TO BE USED ON REFLECTORIZED DRUMS PLACED IN SERIES.

TYPE B HIGH INTENSITY LIGHTS ARE TO BE USED ON CONSTRUCTION WARNING SIGNS AS DIRECTED BY THE ENGINEER.

TYPE A LOW INTENSITY FLASHING WARNING LIGHTS AND TYPE C STEADY BURN WARNING LIGHTS SHALL BE MAINTAINED SO AS TO BE CAPABLE OF BEING VISIBLE ON A CLEAR NIGHT FROM A DISTANCE OF 3,000 FEET. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS SHALL BE MAINTAINED SO AS TO BE CAPABLE OF BEING VISIBLE ON A SUNNY DAY FROM A DISTANCE OF 1,000 FEET WHEN VIEWED WITHOUT THE SUN DIRECTLY ON OR BEHIND THE DEVICE.

NOTE:

ALL TRAFFIC CONTROL DEVICES, THEIR INSTALLATION AND MAINTENANCE SHALL COMPLY WITH THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. WHENEVER THIS STANDARD CONFLICTS WITH THE MANUAL, THIS STANDARD SHALL GOVERN.

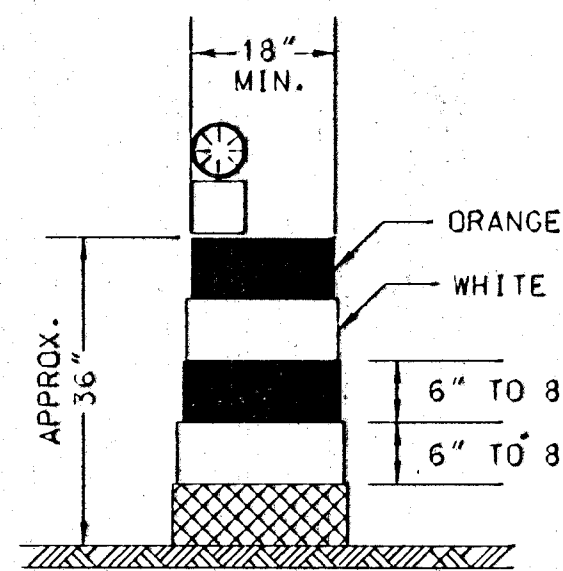
CHANNELIZING DEVICES SHALL BE PLACED FOR OPTIMUM VISIBILITY, NORMALLY AT RIGHT ANGLES TO THE TRAFFIC FLOW.

CHANNELIZING DEVICES PLACED ALONG SHOULDER EDGES OR IN DROPOFFS SHALL HAVE A MINIMUM OF 24" FROM THE TOP OF THE CHANNELIZING DEVICE TO THE TOP OF THE PAVEMENT.

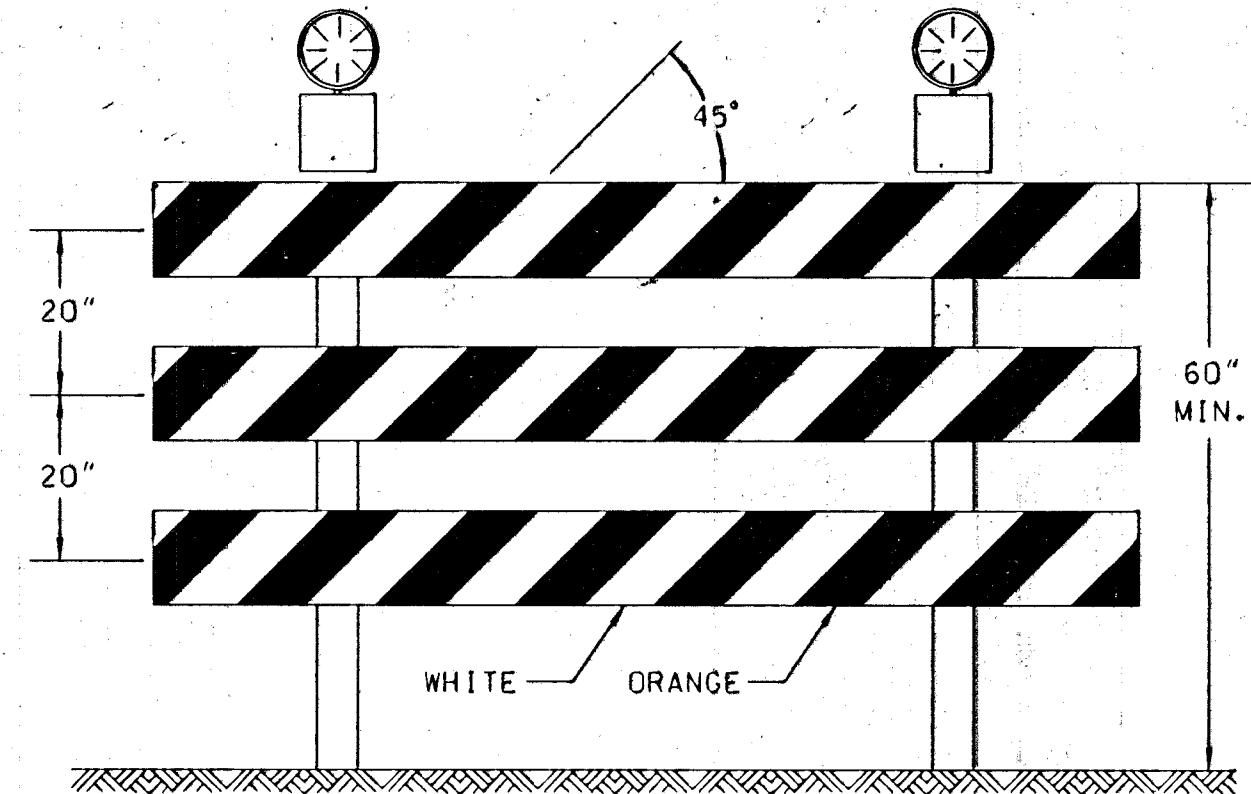
WHERE PERMANENT OBJECT MARKERS ARE NOT ALREADY IN PLACE, ORANGE AND WHITE VERTICAL PANELS SHALL BE ERECTED TO DELINEATE EXPOSED BRIDGE ENDS.

THE FIRST MODULE OF EACH INERTIAL BARRIER SYSTEM SHALL HAVE A MINIMUM OF 270 SQUARE INCHES OF TYPE II HIGH PERFORMANCE ORANGE RETROREFLECTIVE SHEETING FACING TRAFFIC. EITHER A VERTICALLY RECTANGULAR OR DIAMOND SHAPE MAY BE USED.

NON-METALLIC REFLECTORIZED DRUM WITH LIGHT

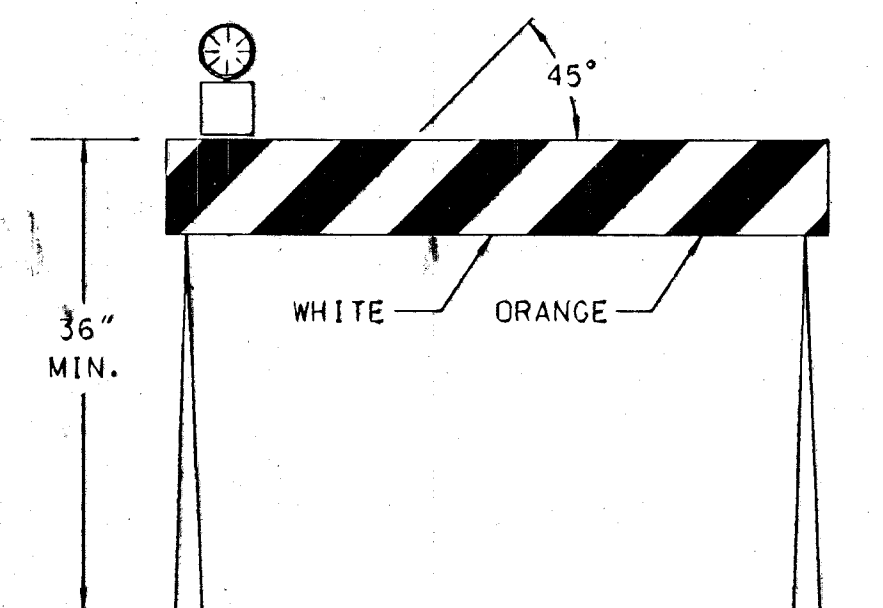


DRUMS SHALL BE REFLECTORIZED FULL CIRCUMFERENCE WITH AT LEAST TWO ORANGE AND TWO WHITE 6" TO 8" WIDE STRIPES OF TYPE II HIGH PERFORMANCE RETROREFLECTIVE SHEETING. ADDITIONAL ORANGE AND WHITE STRIPES MAY BE NON-REFLECTIVE. IF THERE ARE NON-REFLECTIVE SPACES BETWEEN ADJACENT STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE.

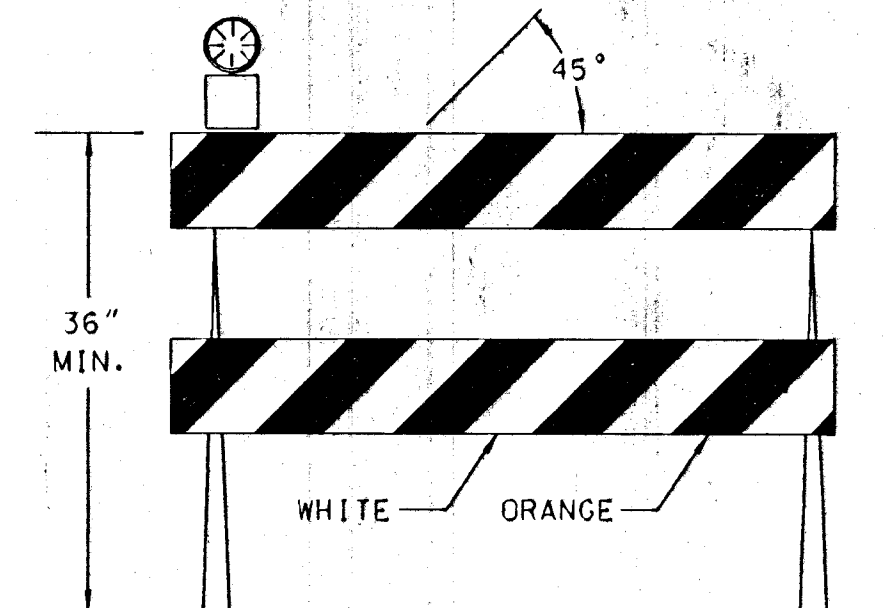


TYPE III BARRICADE WITH LIGHTS

A MINIMUM OF TWO TYPE A LIGHTS SHALL BE USED AT EACH LOCATION WHERE A TYPE III BARRICADE OR BARRICADES ARE USED. A LIGHT SHALL BE MOUNTED ON THE OUTSIDE CORNER OF THE END BARRICADES WHEN MORE THAN ONE IS USED.



TYPE I BARRICADE WITH LIGHT



TYPE II BARRICADE WITH LIGHT

BARRICADES

	TYPE I	TYPE II	TYPE III
WIDTH OF RAIL	8" MIN-12" MAX	8" MIN-12" MAX	8" MIN-12" MAX
LENGTH OF RAIL	2 FT. MIN	2 FT. MIN	4 FT. MIN
WIDTH OF STRIPES	6 IN.	6 IN.	6 IN.
HEIGHT	3 FT. MIN	3 FT. MIN	5 FT. MIN
NO. OF REFL. RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	*

* 3 IF FACING TRAFFIC IN ONE DIRECTION, 6 IF BOTH DIRECTIONS.

FOR WOODEN BARRICADES, NOMINAL LUMBER DIMENSIONS WILL BE SATISFACTORY.

FOR RAILS LESS THAN THREE FEET LONG, FOUR INCH WIDE STRIPES MAY BE USED.

THE ENTIRE AREA OF BARRICADE RAILS SHALL BE FULLY REFLECTORIZED WITH TYPE II HIGH PERFORMANCE RETROREFLECTIVE SHEETING.

BARRICADES USED ON ROADWAYS WITH SPEED LIMITS OF 45 MPH OR MORE SHALL HAVE A MINIMUM OF 270 SQUARE INCHES OF RETROREFLECTIVE AREA FACING TRAFFIC.

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION, AND TOWARD THE CENTER OF THE ROADWAY AT ROAD CLOSURES.

NO.	DATE	REVISIONS	BY	APP'D
3				
2	7-8-98	ADDED TO SKID MOUNTED SIGN DETAIL	WPR	NAB
1	5-23-94	1994 MUTCD REVISIONS	WPR	NAB
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
DESIGN DETAILS FOR BARRICADES, CHANNELIZING DEVICES AND SIGN MOUNTING LOCATIONS				
TE752 10/13/93				
FHWA Approval	8-1-98	APP'D	Nelda A. Buckley	
DESIGNED	PR	DETAILED	PR	QUANTITIES
DESIGN CR.	AFT	DETAL. CR.	AFT	QUAN. CR.
				TRACE CR.