

CHANNELIZING DEVICE APPLICATION MATRIX

Device Type	Low Speed (40 mph or less)	High Speed (45 mph or greater)
Cones -Tangent	✓	✓
Cones -Taper	✓	A*
Tall Channelizing Devices - Tangent	✓	✓
Tall Channelizing Devices - Taper	✓	✓*
Drums - Tangent	✓	✓
Drums - Taper	✓	R
Tubular Markers	✓	X*

A - Allowed, consider using a more visible device R - Recommended device

✓ - May be used in this situation X - Requires approval by Region Traffic Engineer

* - Double the amount of devices in taper, use HALF-SPACING column shown below (20')

CHANNELIZING DEVICE SPACING CHART (FEET)			
MPH	*HALF-SPACING*	TAPER	TANGENT
45/70	20	40	80
35/40	N/A	30	60
20/30	N/A	20	40

Deleted: 1-Tubular Markers are not allowed for lane closures

Design of Channelization Devices (see MUTCD Part VI and appropriate sections of this manual for additional guidance)

- All channelizing devices must comply with the requirements of the MUTCD and the NCHRP 350 traffic control device crash performance requirements.
- Cones – Freeway, high speed and night use requires 28” minimum height cones with 2 white retroreflective bands. Low speed daytime use allows 18” cones without retroreflective bands.
- Tall Channelizing Devices – 42” in height minimum, using a tapered cone type shape of consistent dimensions regardless of orientation to traffic. A minimum of 2 white and 2 orange retroreflective horizontal stripes 6 inches wide. Designs that provide for secure mounting of a warning light are allowed.
- Drums – 36” in height and at least 18” wide of consistent dimensions regardless of orientation to traffic. A minimum of 2 white and 2 orange retroreflective horizontal stripes 4 to 6 inches wide. Designs that provide for secure mounting of a warning light are allowed.
- Tubular markers- Tubular markers should only be used where space restrictions do not allow for the use of other more visible devices or where specific conditions such as high wind may require a device that can be glued in place. Tubular markers may be used to divide opposing traffic lanes, divide open lanes in the same direction and to delineate the edge of a pavement drop off. A 2” minimum width is required. Freeway, high speed and night use requires a 28” minimum height with 2 white retroreflective bands. Low speed daytime use allows 18” tubular markers with 1 retroreflective band.
- Flat panel devices and devices with directional stripe patterns are not allowed. Check with region traffic office for additional information.

Known suppliers of tall channelizing devices that meet WSDOT specifications:
(others may be available)

Traffix Devices: <http://www.traffixdevices.com/>

3D Traffic Works: <http://www.trafficwks.com/product/twprod.html>

Bent Manufacturing: <http://www.bentmfg.com/>

Plastic Safety Systems: <http://www.plasticsafety.com/nav.asp>