tice Act". No wo responsibility f es resulting fro

assumes ts or c

CHANNELIZING DEVICES

24"

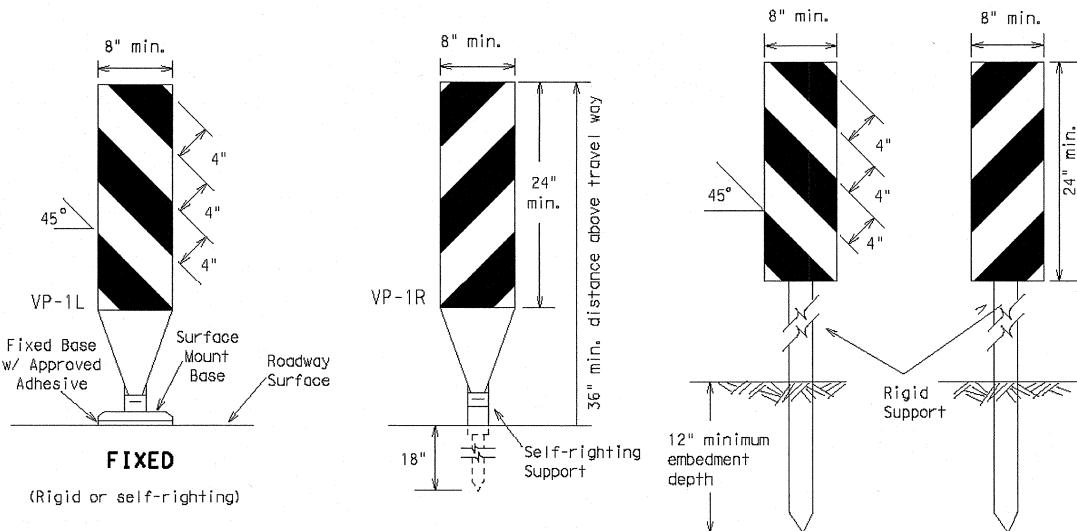
36"

Fixed Base w/ Approved Adhesive

(Driveable Base, or Flexible

Support can be used)

VERTICAL PANELS



Panels mounted

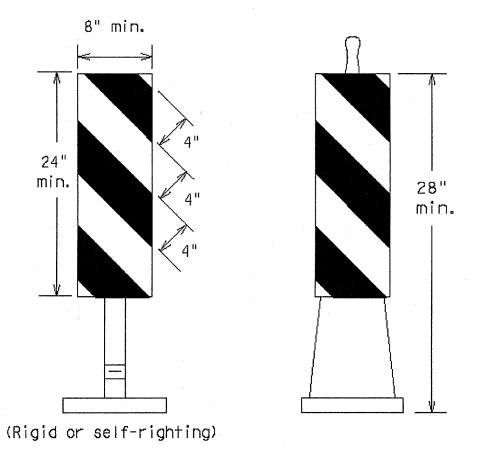
back to back

Portable,

Fixed or Driveable

Base may be used

DRIVEABLE



PORTABLE

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

- 1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
- 2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Manual Appendix B "Treatment of Pavement Drop-offs in Work Zones" for additional guidelines on the use of VP's for drop-offs.
- 3. VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
- 4. VP's used on expressways, freeways, and on high speed roadways shall have a minimum of 2 square feet of retroreflective area facing traffic.
- 5. Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List"
- 6. Sheeting for the VP's shall be retroreflective Type C (High Specific Intensity) conforming to Departmental Material Specification DMS-8300, unless noted otherwise.

1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to

convert a normal one-way roadway section to two-way operation. OTLD's are used on

temporary centerlines. The upward and downward arrows on the sign's face

indicate the direction of traffic on

either side of the divider. The base is secured to the pavement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.

The OTLD is placed on a flexible self-

2. The OTLD may be used in combination with

3. Spacing between the OTLD shall not exceed

500 feet. Tubular markers or vp's placed

between the OTLD's should not exceed 100

reflective legend. Sheeting for the OTLD

Prismatic) conforming to Departmental

the requirements of DMS-8320.

Material Specification DMS-8300, unless

noted otherwise. The legend shall be black

vinyl non-reflective decal sheeting meeting

shall be retroreflective Type E (Fluorescent

(vp's).

foot spacing.

righting support that returns to an up-

right position when impacted by a vehicle.

CHEVRONS

- 1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches. 2. Chevrons are intended to give notice of a
- sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
- 3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the for side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
- 4. To be effective, the chevron should be visible for at least 500 feet.
- 5 Chavrons shall be orange with a black non-

Suggested Maximum

Minimum Desirable

5.	unevrons shall be orange with a black non-
	reflective legend. Sheeting for the chevron
	shall be retroreflective Type E (Fluorescent
	Prismatic) conforming to Departmental Materia
	Specification DMS-8300, unless noted otherwis
	The legend shall be black vinyl non-reflectiv
	decal sheeting meeting the requirements of
	DMS-8320.

		Taper Lengths 💥 💥			Spacing of Channelizing Devi		
Posted Speed	Formula	10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
30	2	150′	165′	180′	30'	60′-75′	
35	$L = \frac{WS^2}{60}$	205′	225′	245′	35′	70′-90′	
40		265′	295′	320′	40'	80'-100'	
45	L=WS	4501	495′	540′	45'	90'-110'	
50		5001	550′	6001	50′	1001-1251	
55		550′	6051	660′	55'	110'-140'	
60	_ L-W3	6001	660′	7201	60′	120'-150'	
65		650′	715′	780′	65′	130′-165′	
70		7001	770′	840′	70′	140′-175′	
75		7501	825′	900'	75′	150′-185′	

XX Taper lengths have been rounded off. L=Length of Taper (FT.) W=Width of Offset (FT.) S=Posted Speed (MPH)

GENERAL NOTES:

- 1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 2. Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
- 3. Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 4. The contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
- 5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh approximately 35 lbs.
- 6. Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
- 7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.
- 8. Examples on this sheet are the most commonly used channelizing devices in work zones. For other devices, refer to the CWZTCD.

Only pre-qualified products shall be used. A copy of the "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be obtained by contacting:

Standards Engineer Traffic Operations Division - TE Texas Department of Transportation 125 East 11th Street Austin, Texas 78701-2483 Phone (512) 416-3120 Fox (512) 416-3299

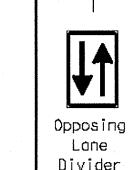
Instructions to locate the "CWZTCD" on TxDOT website are:

Start at website - www.dot.state.tx.us Click on Tabout TXDOTT Click on "Organizational Chart",

Click on Traffic Operations Box, Click on "Compliant Work Zone Traffic Control Devices".

Click on "View PDF". This site is printable.

Refer to BC and/or TCP sheets for approach Double requirements. Yellow Centerline \Rightarrow STANDARD PLANS Texas Department of Transportation Traffic Operations Division



simple tubular markers or vertical panels Divider w/Fixed 4. The OTLD shall be orange with a black non-

Base

VP or Tubular Marker

w/Fixed Base

 $\sqrt{}$ Spacing between the VP's or tubular markers shall not exceed 100 feet. On roadways with speeds less than 45 MPH,

spacing between the tubular markers or VP's shall be as shown on the channelizing spacing table shown on this

spacing between the tubular markers or VP's. Every fifth channelizing device shall be an OTLD. Spacing between

the OTLD shall not exceed 500 feet. When using this type of traffic control set-up, the OTLD, VP's or tubular

markers shall have the fixed base with approved adhesive per the manufacturer's recommendations.

page. If the table shows spacing greater than 100 feet based on the roadway speed, then use a maximum of 100 feet

Opposing Lane

Divider

w/Fixed

Base

Tubular Marker w/Fixed Base

STANDARD

BC(8)-03 8 of 12

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REVISIONS	STATE DISTRICT	FEDERAL REGION	FE	SHEET					
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COUNTY			Υ	CONTROL	SECTION	J08	HIGHWAY		
							1		

BARRICADE AND CONSTRUCTION

CHANNELIZING DEVICES

RECORD DRAWING THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE

CONTRACTORS AND SURVEYED GRADES.

AND CO

SSOCiates, Inc. 161. No. (972) 335-3580 Fox No. (972) 335-3580

Kimley-Horn and Associate

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02-27-2008

SHEET **C-40**

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