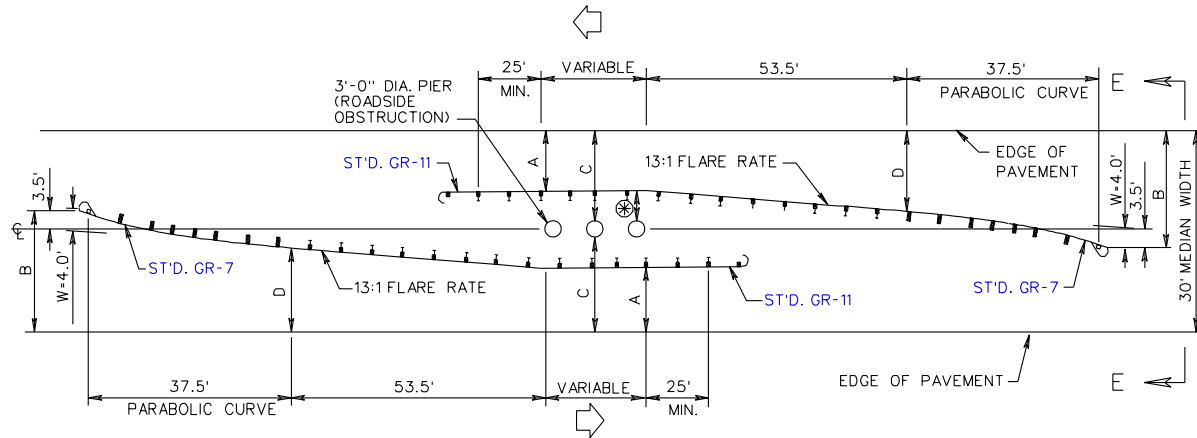


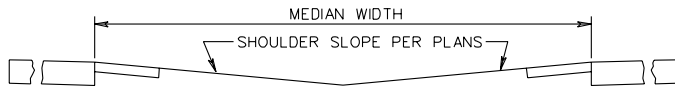
REVISED ON 3/03

GR-INS

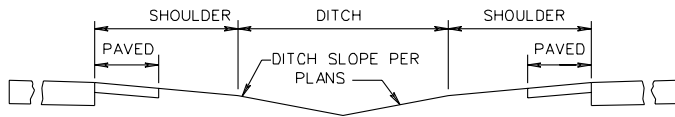
⊗ FACE OF GUARDRAIL IS TO BE 6' FROM FACE OF OBJECT.  
 FOR MEDIAN WIDTHS LESS THAN 27' SEE SHEET 501.35.  
 THE GUARDRAIL DESIGN AND PLACEMENT SHOWN ABOVE  
 MAY ALSO BE USED FOR SHIELDING AN OVERHEAD SIGN  
 SUPPORT, FIXED OBJECTS OR OTHER TYPES OF ROAD  
 SIDE OBSTRUCTIONS.



PLAN VIEW



SECTION E-E



TYPICAL SECTION

DETAIL OF GUARDRAIL AT BRIDGE PIERS USING STANDARD GR-2

OFFSETS (Y) FOR INTRODUCED GUARDRAIL TRANSITIONS ☆		
LENGTH L	X	Y
		W=4'
37.50'	X <sub>1</sub> 6.25	0.12'
	X <sub>2</sub> 12.50	0.44'
	X <sub>3</sub> 18.75	1.00'
	X <sub>4</sub> 25.00	1.78'
	X <sub>5</sub> 31.25	2.78'
	X <sub>6</sub> 37.50	4.00'

MEDIAN WIDTH	* DIMENSIONS				
	A	B	C	D	
30'	7.5'	18.5'	13.5'	11.6'	
40'	12.5'	23.5'	18.5'	16.6'	
60'	22.5'	33.5'	28.5'	26.6'	

\* THE DIMENSIONS AS SHOWN HERE ARE FOR A 3' DIAMETER PIER. THESE DIMENSIONS WILL VARY AS ROADSIDE OBSTRUCTION DIMENSIONS DIFFER.

☆ SEE TABLE III, PAGE 501.36 OF THE ROAD AND BRIDGE STANDARDS FOR DEFINITION OF "X" AND "Y".

SHEET 1 OF 8

SHEET 1 OF 8

# W BEAM GUARDRAIL INSTALLATION CRITERIA

REV. 7/02  
501.33

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

221  
505