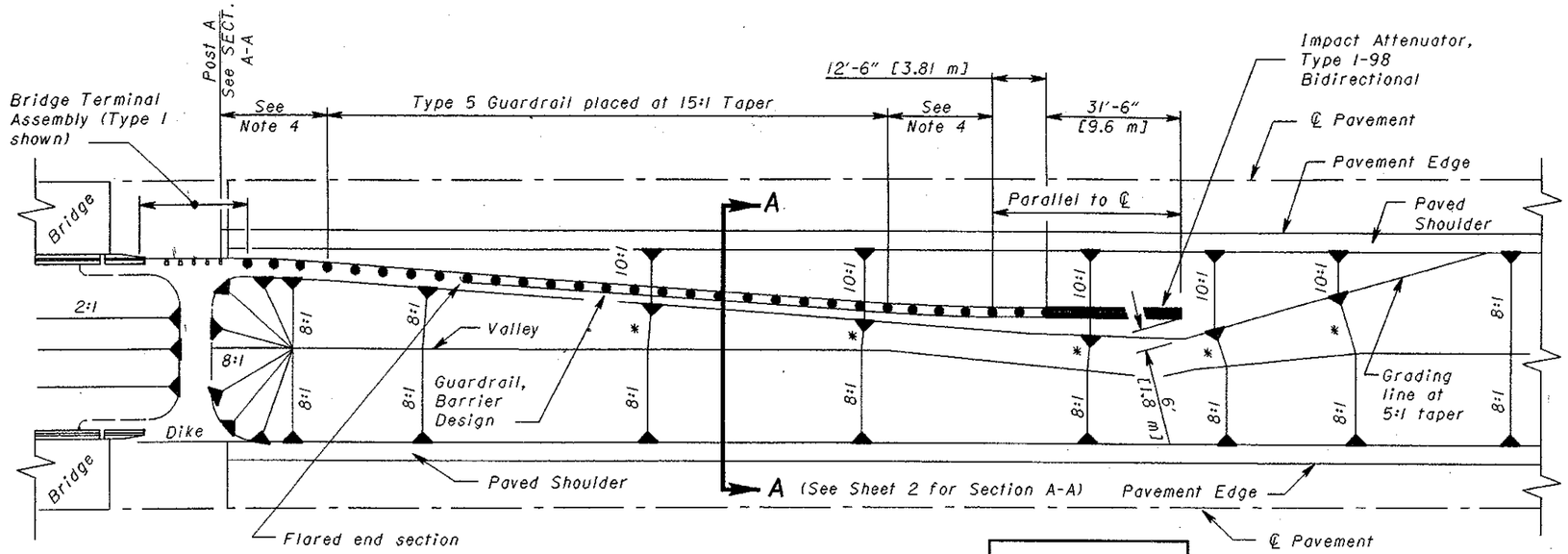
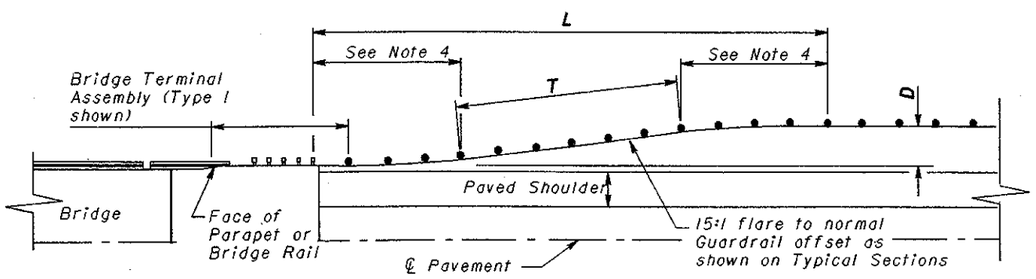


DESIGN A

Narrow Median (See NOTE 2)

INTRODUCED GUARDRAIL APPROACH INSTALLATIONS



RECOMMENDED LENGTHS FOR GUARDRAIL OFFSET TRANSITIONS					
English (ft)			Metric (m)		
D Difference in Offset	L Total Length	T Tangent Length on Flares	D Difference in Offset	L Total Length	T Tangent Length on Flares
2	62.5	12.5	0.6	19.05	3.81
4	87.5	37.5	1.2	26.67	11.43
6	125.0	75.0	1.8	38.10	22.86
8	150.0	100.0	2.4	45.72	30.48
10	175.0	125.0	3.0	53.34	38.10

GUARDRAIL OFFSET TRANSITION

NOTES

1) The length of guardrail needed shall be determined according to methods contained in the **Location and Design Manual, Volume 1, Section 602**. Quantities shown on this sheet are based on these methods, using a lateral offset of 30' [9 m] for the area of concern, a runout length of 472" [144 m], and a guardrail flare rate of 15:1.

2) Use **DESIGN "A"** in narrow medians where the end of the guardrail run extends into the clear zone of the opposite side traffic. In medians where the guardrail run would otherwise extend beyond the centerline of the median, turn the guardrail run to follow the centerline using a standard flare arc. The plans shall clearly indicate what portion of the flared guardrail run is to be constructed using barrier guardrail.

3) Use **DESIGN "B"** (see Sheet 2 of 2) where the guardrail run lies outside of the Clear Zone of the opposite side traffic. In this case, the design of the guardrail flare in the median would be similar to that of the guardrail approach on the outside shoulder. Estimated quantities are provided in the box below.

4) Use a 25'-0" [7.62 m] Standard Flare Arc per **SCD GR-5.1.**

5) Provide 10:1 or flatter cross-slopes in front of guardrail. The 8:1 slopes shown in the median at other locations are the recommended practice, although other slopes may be designated in the plans.

THIS DRAWING REPLACES GR-6.1M DATED 1-3-96.

OHIO DEPARTMENT OF TRANSPORTATION
4-18-03
DATE
ROADWAY DESIGN ENGINEER
STDS. ENGR. D. Focke
All metric dimensions in brackets [ ] are in millimeters unless otherwise noted.
ROADWAY ENGINEERING SERVICES
STANDARD ROADWAY CONSTRUCTION DRAWING
GUARDRAIL AT BRIDGES
NUMBER GR-6.1
1/2