

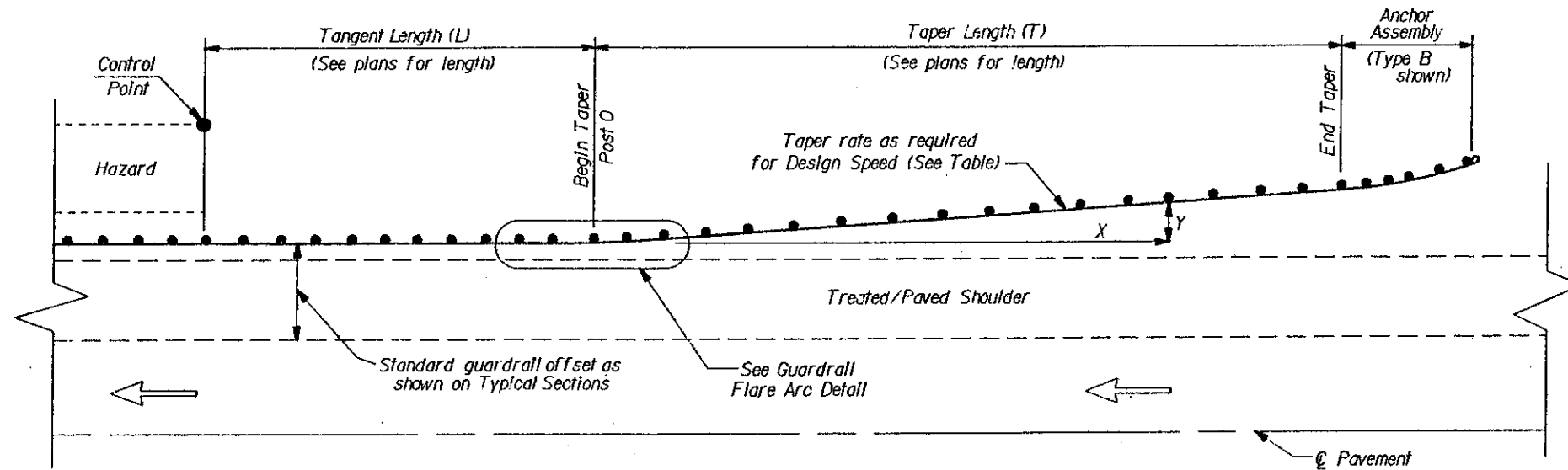
NOTES

THE STANDARD GUARDRAIL FLARE shown herein shall be constructed when indicated in the construction plans and in conjunction with Standard Construction Drawing GR-5.2. The Tangent Length and Taper Length used to construct each flare shall be as specified in the plans.

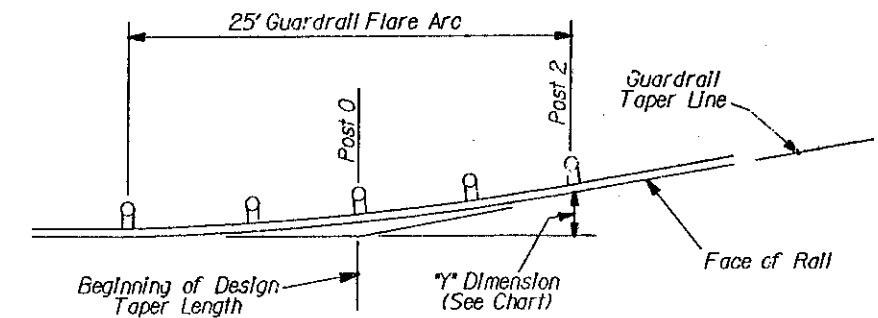
SPEEDS used to determine taper rates and offsets shall be the design speed indicated in the plan. Where a design speed is not shown or available, the legal posted speed limit shall be used. For design speeds below 45 mph, the tapered guardrail offsets shown for 45 mph may be used.

AN ANCHOR ASSEMBLY, Type B shall be used with standard guardrail flares unless otherwise specified.

THE CONTROL POINT shown designates the extent of the hazard being shielded and is shown for design use only.



STANDARD GUARDRAIL FLARE
(Plan View)



GUARDRAIL FLARE ARC DETAIL

TAPERED GUARDRAIL OFFSETS (In feet)

| | 45 MPH 10:1 Taper | | 50 MPH 11:1 Taper | | 55 MPH 12:1 Taper | | 60 MPH 13:1 Taper | | 65 MPH 14:1 Taper | | 70 MPH 15:1 Taper | | |
|-------------------|----------------------|-------|----------------------|-------|----------------------|-------|----------------------|-------|----------------------|-------|----------------------|-------|------|
| | Post | X | Y | X | Y | X | Y | X | Y | X | Y | X | Y |
| 25' Taper Length | 0 | 0.0 | 0.3 | 0.0 | 0.3 | 0.0 | 0.3 | 0.0 | 0.2 | 0.0 | 0.2 | 0.0 | 0.2 |
| | 2 | 12.4 | 1.3 | 12.5 | 1.1 | 12.5 | 1.0 | 12.5 | 1.0 | 12.5 | 0.9 | 12.5 | 0.8 |
| | 4 | 24.9 | 2.5 | 24.9 | 2.3 | 24.9 | 2.1 | 24.9 | 1.9 | 24.9 | 1.8 | 24.9 | 1.7 |
| 50' Taper Length | 6 | 37.3 | 3.7 | 37.3 | 3.4 | 37.4 | 3.1 | 37.4 | 2.9 | 37.4 | 2.7 | 37.4 | 2.5 |
| | 8 | 49.8 | 5.0 | 49.8 | 4.5 | 49.8 | 4.1 | 49.9 | 3.8 | 49.9 | 3.6 | 49.9 | 3.3 |
| | 10 | 62.2 | 6.2 | 62.2 | 5.7 | 62.3 | 5.2 | 62.3 | 4.8 | 62.3 | 4.5 | 62.4 | 4.2 |
| 75' Taper Length | 12 | 74.6 | 7.5 | 74.7 | 6.8 | 74.7 | 6.2 | 74.8 | 5.7 | 74.8 | 5.3 | 74.8 | 5.0 |
| | 14 | 87.1 | 8.7 | 87.1 | 7.9 | 87.2 | 7.3 | 87.2 | 6.7 | 87.3 | 6.2 | 87.3 | 5.8 |
| | 16 | 99.5 | 9.9 | 99.6 | 9.1 | 99.7 | 8.3 | 99.7 | 7.7 | 99.7 | 7.1 | 99.8 | 6.7 |
| 100' Taper Length | 18 | 111.9 | 11.2 | 112.0 | 10.2 | 112.1 | 9.3 | 112.2 | 8.6 | 112.2 | 8.0 | 112.3 | 7.5 |
| | 20 | 124.4 | 12.4 | 124.5 | 11.3 | 124.6 | 10.4 | 124.7 | 9.5 | 124.7 | 8.9 | 124.7 | 8.3 |
| | 22 | 136.8 | 13.7 | 136.9 | 12.5 | 137.0 | 11.4 | 137.1 | 10.5 | 137.1 | 9.8 | 137.2 | 9.1 |
| 150' Taper Length | 24 | 149.3 | 14.9 | 149.4 | 13.6 | 149.5 | 12.5 | 149.6 | 11.5 | 149.6 | 10.7 | 149.7 | 10.0 |
| | 26 | 161.7 | 16.2 | 161.8 | 14.7 | 161.9 | 13.5 | 162.0 | 12.5 | 162.1 | 11.6 | 162.1 | 10.8 |
| | 28 | 174.1 | 17.4 | 174.3 | 15.8 | 174.4 | 14.5 | 174.5 | 13.4 | 174.6 | 12.5 | 174.6 | 11.6 |
| 200' Taper Length | 30 | 186.6 | 18.7 | 186.7 | 17.0 | 186.9 | 15.6 | 186.9 | 14.4 | 187.0 | 13.4 | 187.1 | 12.5 |
| | 32 | 199.0 | 19.9 | 199.2 | 18.1 | 199.3 | 16.6 | 199.4 | 15.3 | 199.5 | 14.3 | 199.6 | 13.3 |

All "X" dimensions shown are from the centerline of Post 0 to the centerline of the indicated post along the standard guardrail offset line extended.

All "Y" dimensions shown are from the standard guardrail offset line extended to the face of roll at the post indicated.

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF TRANSPORTATION

GUARDRAIL FLARE DETAILS

DATE
10-30-92

STANDARD
CONSTRUCTION
DRAWING

GR-5.1

APPROVED *W.K. Hubman* ENGR., L & D