

| $e$<br>(%) | $V_d = 20$<br>km/h<br>$R$ (m) | $V_d = 30$<br>km/h<br>$R$ (m) | $V_d = 40$<br>km/h<br>$R$ (m) | $V_d = 50$<br>km/h<br>$R$ (m) | $V_d = 60$<br>km/h<br>$R$ (m) | $V_d = 70$<br>km/h<br>$R$ (m) | $V_d = 80$<br>km/h<br>$R$ (m) | $V_d = 90$<br>km/h<br>$R$ (m) | $V_d = 100$<br>km/h<br>$R$ (m) | $V_d = 110$<br>km/h<br>$R$ (m) |
|------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 1.5        | 194                           | 421                           | 738                           | 1050                          | 1440                          | 1910                          | 2360                          | 2880                          | 3510                           | 4060                           |
| 2.0        | 138                           | 299                           | 525                           | 750                           | 1030                          | 1380                          | 1710                          | 2090                          | 2560                           | 2970                           |
| 2.2        | 122                           | 265                           | 465                           | 668                           | 919                           | 1230                          | 1530                          | 1880                          | 2300                           | 2670                           |
| 2.4        | 109                           | 236                           | 415                           | 599                           | 825                           | 1110                          | 1380                          | 1700                          | 2080                           | 2420                           |
| 2.6        | 97                            | 212                           | 372                           | 540                           | 746                           | 1000                          | 1260                          | 1540                          | 1890                           | 2210                           |
| 2.8        | 87                            | 190                           | 334                           | 488                           | 676                           | 910                           | 1150                          | 1410                          | 1730                           | 2020                           |
| 3.0        | 78                            | 170                           | 300                           | 443                           | 615                           | 831                           | 1050                          | 1290                          | 1590                           | 1870                           |
| 3.2        | 70                            | 152                           | 269                           | 402                           | 561                           | 761                           | 959                           | 1190                          | 1470                           | 1730                           |
| 3.4        | 61                            | 133                           | 239                           | 364                           | 511                           | 697                           | 882                           | 1100                          | 1360                           | 1600                           |
| 3.6        | 51                            | 113                           | 206                           | 329                           | 465                           | 640                           | 813                           | 1020                          | 1260                           | 1490                           |
| 3.8        | 42                            | 96                            | 177                           | 294                           | 422                           | 586                           | 749                           | 939                           | 1170                           | 1390                           |
| 4.0        | 36                            | 82                            | 155                           | 261                           | 380                           | 535                           | 690                           | 870                           | 1090                           | 1300                           |
| 4.2        | 31                            | 72                            | 136                           | 234                           | 343                           | 488                           | 635                           | 806                           | 1010                           | 1220                           |
| 4.4        | 27                            | 63                            | 121                           | 210                           | 311                           | 446                           | 584                           | 746                           | 938                            | 1140                           |
| 4.6        | 24                            | 56                            | 108                           | 190                           | 283                           | 408                           | 538                           | 692                           | 873                            | 1040                           |
| 4.8        | 21                            | 50                            | 97                            | 172                           | 258                           | 374                           | 496                           | 641                           | 812                            | 997                            |
| 5.0        | 19                            | 45                            | 88                            | 156                           | 235                           | 343                           | 457                           | 594                           | 755                            | 933                            |
| 5.2        | 17                            | 40                            | 79                            | 142                           | 214                           | 315                           | 421                           | 549                           | 701                            | 871                            |
| 5.4        | 15                            | 36                            | 71                            | 128                           | 195                           | 287                           | 386                           | 506                           | 648                            | 810                            |
| 5.6        | 13                            | 32                            | 63                            | 115                           | 176                           | 260                           | 351                           | 463                           | 594                            | 747                            |
| 5.8        | 11                            | 28                            | 56                            | 102                           | 156                           | 232                           | 315                           | 416                           | 537                            | 679                            |
| 6.0        | 8                             | 21                            | 43                            | 79                            | 123                           | 184                           | 252                           | 336                           | 437                            | 560                            |

**MAXIMUM RADIUS,  $R$ , FOR DESIGN SUPERELEVATION RATE,  $e$ ,  
DESIGN SPEED,  $V_d$ , AND  $e_{max} = 6\%$**

**Figure 43-3A(2)**