

|                |   | TABLE II. FREEWAY - DESIGN STANDARDS (8)   |                         |         |                               |                 |                    |   |              |  |
|----------------|---|--|-------------------------|---------|-------------------------------|-----------------|--------------------|---|--------------|--|
|                |   | DESIGN STANDARDS<br>(FOR GIVEN DESIGN SPEED)<br>MINIMUM RADIUS (FT.) 0.08 MAX. S.E.<br>MINIMUM STOPPING SIGHT DISTANCE (FT.) |                         |         | DESIGN SPEEDS (MP             |                 |                    |   |              |  |
|                |   |  |                         | 50      | 55                            | 60              | 65                 | 70  |              |  |
|                |   |  |                         | 760     | 965                           | 1205            | 1485               | 1820  | SEE PAGE 145 |  |
|                | FOOTNOTES   |  |                         | 425     | 495                           | 570             | 645                | 730   | SEE PAGE 112 |  |
|                | (1) SEE GUARDRAIL STANDARD DRAWINGS FOR TYPICAL GUARDRAIL PLACEMENT.  | MINIMUM "K" VALUE  | CREST VERTICAL CURVE    | 84      | 114                           | 151             | 193<br>157         | 247<br>181                                    | SEE PAGE 274 |  |
|                | (2) SEE DETAILS A B C OP D EOP POUNDINC   |  | LEVEL TERRAIN           | 4       | 4                             | 3               | 3                  | 3   | SEE PAGE 280 |  |
|                | (2) SEE DETAILS A, D, C, OR D FOR ROUNDING.   | MAXIMUM GRADES %   | ROLLING TERRAIN         | 5       | 5                             | 4               | 4                  | 4   |              |  |
|                | (3) CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING RD01-S-12.<br>SEE THE "ROADSIDE DESIGN GUIDE," AASHTO, 2002, FOR FURTHER<br>INFORMATION ON CLEAR ZONES.  | (7)  | MOUNTAINOUS TERRAIN     | 6       | 6                             | 6               | 5                  | 5   |              |  |
|                |   | SUPERELEVATION SEE STANDARD DRAWINGS RD01-SE-2 AND RD0   |                         |         |                               | 2 AND RD01-SE-3 |                    |   |              |  |
|                | (4) SEE STANDARD DRAWINGS RD01-S-11 AND RD01-S-11B FOR FILL AND CUT SLOPE<br>TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, AND<br>SPECIAL ROCK CUT TREATMENT.   |  | TABLE I. MINIMUM DESIGN |         |                               |                 |                    |   |              |  |
|                | 5 SEE STANDARD DRAWING RD01-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.  |  | SPEEDS FOR FRE          | EWAYS   | VAYS<br>7)                    |                 |                    | MINOR REVISION FHWA<br>APPROVAL NOT REQUIRED. |              |  |
| ND A           | 6 THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 FOOT PER FOOT.   | (JELTAGE J   |                         | MINIMUM | AINIMUM<br>IGN SPEED<br>(MPH) |                 | QTATE DE TENNEQQEE |   |              |  |
| N<br>BLE<br>NG | GRADES ONE PERCENT STEEPER THAN THE VALUE SHOWN MAY BE USED FOR EXTREME<br>CASES IN URBAN AREAS WHERE DEVELOPMENT PRECLUDES THE USE OF FLATTER<br>GRADES AND FOR ONE-WAY DOWNGRADES EXCEPT IN MOUNTAINOUS TERRAIN.  |  | LOCATION DES            |         |                               |                 | DE                 | DEPARTMENT OF TRANSPORTATIO                   |              |  |
|                |   |  | URBAN                   | 50      |                               | DESICN STAN     |                    |   |              |  |
|                | (8) ALTHOUGH THE SELECTED DESIGN SPEED ESTABLISHES THE LIMITING VALUES OF<br>CURVE RADIUS AND MINIMUM SIGHT DISTANCE THAT SHOULD BE USED IN DESIGN,<br>THERE SHOULD BE NO RESTRICTION ON THE USE OF FLATTER HORIZONTAL CURVES<br>OR GREATER SIGHT DISTANCES WHERE SUCH IMPROVEMENTS CAN BE PROVIDED AS<br>A PART OF AN ECONOMICAL DESIGN (SEE PAGE 69). |  | RURAL                   | 70      |                               |                 |                    | FREEWAYS WITH                                 |              |  |
|                |   |  | MOUNTAINOUS             | 50      |                               |                 |                    | I NDEPENDE<br>ROADWAY                         |              |  |